

# **Service Manual**

**ViewSonic VX2239WM-3W**

**VX2239WM-3CN**

**Model No. VS13513-1W**

**22" Wide LCD Monitor**

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**(VX2239WM-3W 3CN SM Rev. 1a Aug. 2010)**

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**Revision History**

Revision	SM Editing Date	ECR Number	Description of Changes	Editor
1a	08/18/10		Initial release.	Sophia Kao

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# 1. Precautions and Safety Notices

## 1.1 Safety Precautions

Although LCD monitors are displays without high voltage as that in the CRT monitors, the following precautions still should be taken care of.

- 1 Observe all cautions and safety related notes located inside the display cabinet and on the display chassis.
- 2 Operation of these displays outside the cabinet or with the cover removed involves a shock hazard from the display backlight's inverter. Work on the display should not be attempted by anyone who is not thoroughly familiar with precautions necessary when working on high voltage equipment.
- 3 Before returning a serviced display to the customer, a thorough safety test must be performed to verify that the display is safe to operate without danger or shock.

## 1.2 Product Safety Notice

- 1 Many electrical and mechanical parts in this chassis provide special visual safety protection. The protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc.
- 2 Before replacing any of these components, read the parts list included in this manual carefully. The use of substitute replacement parts, which do not have the same safety characteristics, as specified in the parts list may create shock, fire or other hazards, and hence should be prohibited.

## 1.3 Service Notes

- 1 When replacing parts or circuit boards, wrap the wires around terminals before soldering.
- 2 Keep wires away from high temperature components.
- 3 Keep cable and their shielding in their original position so as to reduce interference.

## Abbreviations and Acronym

DDC	Display Data Channel
DPMS	Display Power Management System
EPA	Environment Protection Agency
ESD	Electrostatic Discharge
I2C-Bus	Inter-IC Bus1
LCD	Liquid Crystal Display
LED	Light Emit Diode
TTL	Transistor-Transistor Logic
VESA	Video Electronics Standards Association

### 1.4. Handling and Placing Methods

Correct Methods	Incorrect Methods
<p>Only touch the metal frame of the LCD panel for the front cover of the monitor. Do not touch the surface of the polarizer.</p>	<p>Surface of the LCD panel is pressed by fingers and that may cause "Mura".</p>
	
	
<p>Take out the monitor with cushions</p>	<p>Taking out the monitor by grasping the LCD panel. That may cause "Mura".</p>
	

Place the monitor on a clean and soft foam pad.



Placing the monitor on foreign objects. That could scratch the surface of the panel or cause "Mura".



The panel is placed facedown on the lap. That may cause "Mura".



## 2. Specification

AC Power Input Output	100Vac ~ 240Vac Full Range, 50/60 Hz. <1.5A@110V; <0.8A@230V
Power Consumption	LED color is Blue : < 50 W ※VX2239wm 45 W ※VX2239w LED color is Amber: < 1 W LED color is Dark: < 0.5 W
Signal Input Video Signals  Sync Signals Input Frequency Audio signal ※VA2231wm VA2231wma  Connector  Resolution (Max.)  Recommended mode  Pixel dot clock	RGB Analog (75 ohms, 0.7 / 1.0 Vp-p) DVI (TMDS, 100 ohms) HDMI  Separate Sync / Composite Sync / SOG Fh = 24 – 82 kHz ; Fv = 50 – 75 Hz 1Vrms Input with 2W /4ohm Speaker  VGA 15-pin Mini D type (detachable cable) DVI –D (support HDCP) HDMI (support HDCP) ※VX2239wm 3.5mm phone jack (blue) ※VX2239wm 3.5mm phone jack (green)※VX2239wm Internal Power Adapter, 3-pin plug (CEE22)  1920 x 1080 / 60 Hz  1920 x 1080 / 60 Hz  Analog : 205 MHz (maximum) Digital : 180 MHz (maximum)
Environment Operating Conditions Temperature Non Operating Condition Temperature Operating Relative Humidity Non operating Relative Humidity Operating Altitude Non Operating Altitude	0°C to 40°C  -20°C to 60°C 20% to 90%. 5% to 90%. 0 to 3000 meters. 0 to 12000 meters.
Pedestal Tilt Forward Backward	5° 20°
Panel Size Display Area Optimum Resolution Pixel Pitch Glass Treatment Contrast Ratio Dynamic Contrast Viewing Angle LR,UD Colors Luminance	CPT (CLAA215FA01) 21.53" Color active matrix TFT LCD 476.64mm(H)x268.11mm(V) 1920 x 1080 (WUXGA) 0.24825(H) x 0.24825(V) mm Anti-Glare, Hard coating (3H) 1000 :1 (Typ.) 700:1(min) 100,000 :1 (Typ.) 170/160 (degrees; typ) 16.7Mcolors (6 bit +Hi FRC panel) 300 cd/m2 (Typ.) / 230 cd/m2 (min)

Response Time	5 ms
Backlight	GTG Average : 2 ms (Over Drive By Scaler)
Backlight Life	4 CCFL
Mercury	50000 Hrs (Typ.) /40000 Hrs (Min)
	3.6 per lamp max
Viewing Angle(H/V)	H: 170° / V:160 ° (typical)
Plug and Play	DDC/2B and DDC/CI
Power Management Complies with	EPA and DPMS
Dimension (Wx H xD)	W :511.64 mm (20.14 inch)
	H : 388.21 mm (15.28 inch)
	D : 210 mm (8.27 inch)
Monitor Weight	4.6Kg (10.14 lbs)

Preset	Pixel Format	Horz Freq (kHz) Vert Freq (Hz)	Horz. Polarity	Vert. Polarity	Pixel CLK (MHz)
1	DMT 70Hz 640 x 350	31.469 / 70.087	+	-	25.175
2	DMT 60Hz 640 x 400	31.469 / 59.940	-	+	25.175
3	DMT 70Hz 640 x 400	31.469 / 70.086	-	+	25.175
★ 4	50Hz 640 x 480	24.688 / 49.67	-	+	19.75
5	DMT 60Hz 640 x 480	31.469 / 59.94	-	-	25.175
6	MAC 67Hz 640 x 480	35 / 66.667	-	-	30.24
7	DMT 72Hz 640 x 480	37.861 / 72.809	-	-	31.5
8	DMT 75Hz 640 x 480	37.5 / 75	-	-	31.5
9	DMT 70Hz 720 x 400	31.47 / 70.08	-	+	28.322
10	DMT 60Hz 720 x 480	31.469 / 59.94	-	-	27
11	DTV 50Hz 720 x 576	31.25 / 50	-	-	27
12	DMT 56Hz 800 x 600	35.156 / 56.25	+	+	36
13	DMT 60Hz 800 x 600	37.88 / 60.32	+	+	40
14	DMT 72Hz 800 x 600	48.077 / 72.188	+	+	50
15	DMT 75Hz 800 x 600	46.88 / 75	+	+	49.5
16	MAC 75Hz 832 x 624	49.72 / 74.55	±	±	57.283
17	DMT 60Hz 1024 x 768	48.36 / 60	-	-	65
18	DMT 70Hz 1024 x 768	56.476 / 70.069	-	-	75
19	DMT 72Hz 1024 x 768	58.036 / 71.915	-	-	78
20	DMT 75Hz 1024 x 768	60.02 / 75.03	+	+	78.75
21	MAC 75Hz 1024 x 768	60.241 / 74.927	-	-	80
22	DMT 75Hz 1152 x 864	67.5 / 75	±	±	108
23	MAC 75Hz 1152 x 870	68.68 / 75.06	±	±	100
24	SUN 66Hz 1152 x 900	61.795 / 65.95	±	±	92.94
25	DTV 50Hz 1280 x 720	37.071 / 49.827	-	+	60.5
26	DTV 60Hz 1280 x 720	44.772 / 59.855	-	+	74.5
27	DMT R60Hz 1280 x 768	47.396 / 59.995	+	-	68.25
28	DMT 60Hz 1280 x 768	47.776 / 59.870	-	+	79.5
29	DMT 75Hz 1280 x 768	60.289 / 74.893	-	+	102.25
30	DMT 60Hz 1280 x 800	49.702 / 59.810	-	+	83.5
31	DMT 75Hz 1280 x 800	62.795 / 74.934	-	+	106.5
32	DMT 60Hz 1280 x 960	60 / 60	±	±	108
33	DMT 75Hz 1280 x 960	75.231 / 74.857	-	+	130
34	DMT 60Hz 1280 x 1024	63.98 / 60.02	+	+	108
35	DMT 75Hz 1280 x 1024	79.98 / 75.02	+	+	135
36	DMT 60Hz 1360 x 768	47.712 / 60.015	+	+	85.5
37	DMT 60Hz 1366 x 768	47.712 / 59.79	+	+	85.5
38	DMT 60Hz 1440 x 900	55.94 / 59.89	-	+	106.5
39	DMT 75Hz 1440 x 900	70.635 / 74.984	-	+	136.75
40	DMT 60Hz 1400 x 1050	65.317 / 59.978	-	+	121.75
41	DMT 60Hz 1600 x 1200	75 / 60	+	+	162
42	DMT R60Hz 1680 x 1050	64.674 / 59.883	+	-	119
43	DMT 60Hz 1680 x 1050	65.290 / 59.954	-	+	146.25
44	DTV 1080i 50Hz 1920 x 1080	28.125 / 50	-	-	74.25
45	DTV 1080p 50Hz 1920 x 1080	56.25 / 50	-	-	148.5
46	DTV 1080i 60Hz 1920 x 1080	33.75 / 60	-	-	74.25
47	DTV 1080p 60Hz 1920 x 1080	67.5 / 60	+	+	148.5

## 2-2 Timing Supported (Pre-set Timing Table)

### 3. Front Panel Function Control Description

#### 3-1. User Control Buttons

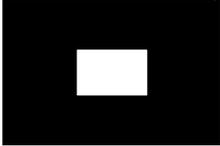


#### 3-2. Short Cuts Function form the button(s)

Power Switch	Soft Power Switch on the front bezel
Power LED (Front Head)	Blue – ON Amber – Active Off Dark = Soft Power Switch OFF
Front Panel Controls (Head) [ 1 ] [ 2 ] [⏻] [▲] [▼]	[⏻] Power [ 1 ] BUTTON 1 [ 2 ] Button 2 [▲] UP ARROW BUTTON [▼] DOWN ARROW BUTTON  Note: Power Button, Button 1 and Button 2 must be one-shot logic operation. (i.e. there should be no cycling)
Reaction Time	OSD must fully appear within 0.5s after pushing Button 1

#### 3-3 Short Cuts Function from the button(s)

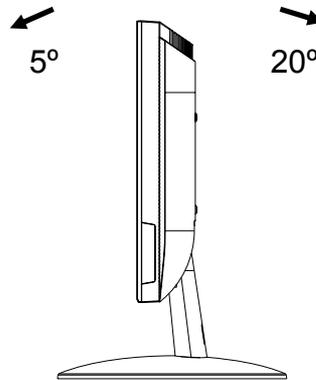
[1]	Main Menu (refer to segment 4-6-3)
[2]	Input toggle (Analog or DVI or HDMI; refer to Appendix D)
[▼]	To immediately activate Audio Adjust menu.
[▲]	To immediately activate Contrast / Brightness OSD Menu.
[▼]+ [▲]	1. In the Audio mode, recall both of Volume and Mute to default without OSD message. ( Under Volume adjust sub-menu, recall Volume to default without OSD message.) 2. In the BT / CR mode, recall both Contrast and Brightness to default in its menu without OSD message. (Under Contrast or Brightness adjust sub-menu, recall Contrast or Brightness to its default without OSD message.) * While OSD menu off, recall CR/ BT/ Audio volume and mute to default without OSD message
[1] + [2]	Toggle 720x400 and 640x400 mode when input 720x400 or 640x400 mode  * Default = 720 x 400
[1] + [▼] + [▲] (Keep pushing 5 sec)	White Balance  1. It will not shown on user's guide

	<p>2. OSD message as below,</p>  <p>(Image = no blanking)</p> <p>3. Recommend environment</p> <p>3.1. Optical (Best) input timing = 640 x 480 @ 60Hz; Following timing modes also recommended, 800 x 600 @ 60 Hz 1024 X 768 @ 60 Hz</p> <p>3.2. Pattern as below,</p> 
[1] + [▲]	OSD Lock / Unlock (refer to segment 4-6-4)
[1] + [▼]	Power Lock / Unlock (refer to segment 4-6-5)
[2] + [▼]	<p>Toggle DDC/CI and DDC/2B (DDC/CI enable/disable) and show following message for 3 seconds,</p> <p>When switch to DDC/CI</p>  <p>When switch to DDC/2B</p>  <p>Default = DDC/CI</p>
Signal + [2] + [⏻]	Factory Mode
<p>Remark : All the short cuts function are only available while OSD off, exclude [▼]+ [▲] when in the CR/ BT/Audio menu</p>	

### 3-2 Tilting the Monitor

The monitor has a tilt feature that allows you to tilt the display back and forth to find the most comfortable viewing position. To tilt the display, grasp the sides and push the display back or pull it toward you until it is in the desired position. The display can be tilted 20° backward and 5° forward.

**Note:** *Do not tilt the display by grasping the top edge.*

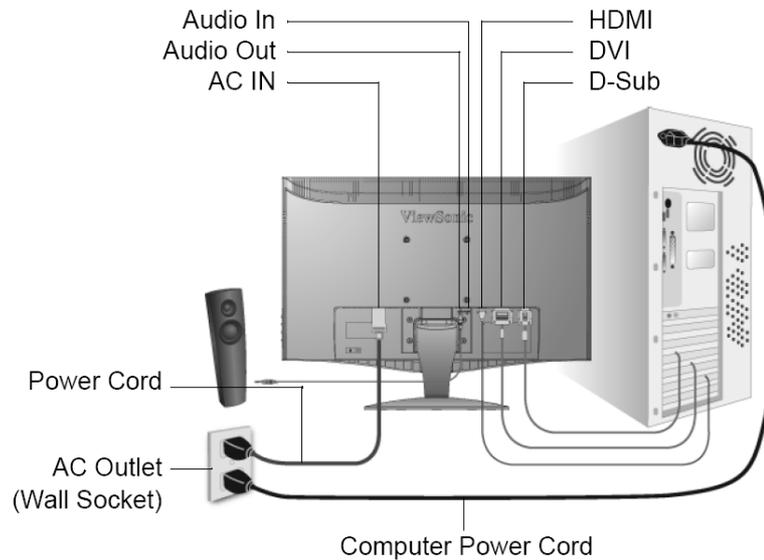


### 3-3 Connecting the Monitor

Before connecting any cables, make sure that the computer and monitor are turned off.

To connect the power and video signal cables:

1. Plug the power cord into the AC Socket.
2. Plug the analog video signal cable into the analog Input port, it is so-called D-SUB connector, on the back of the monitor (as shown in the Figure below).
3. Connect the other end of the cable into your computer's port. (Please check your computer's documentation for port location.)



**Note:** *For best monitor performance, it is strongly recommended that you use Auto Configuration to automatically configure your monitor's settings*

## 4. Circuit Description

※Some parts of circuit are mentioned in following description, please refer to schematic diagrams.

### 4-1 Main structure of VX2239 series

Model name	Main board	Scaler	Power board	Key pad
VX2239wm-3	PWB-1380	TSUMO88GDI-LF-1	PWB-1272	PWB-1258
VX2239w-4	PWB-1381	TSUMU58NHJ-LF	PWB-1272	PWB-1258
VX2239w-11	PWB-1381	TSUMO58GDJ-LF-1	PWB-1272	PWB-1258

#### 4-2-1 (VX2239wm-3)Analog interface : ※About input connector, please refer to CN102

1. The analog R, G, B video input signals are supplied through the cable which is terminated at CN102 These input signals are approximately 0.7 VPP in amplitude.  
These R, G, B video signals are 75 ohm terminated, via **R119**, **R120**, and **R121**, AC coupled via 0.047uF capacitors **C115**, **C116**, **C117**, and finally fed into **U201**, at pin **62** pin **59** and pin **57** respectively. These analog R, G, B video signals are converted to their digital forms in **U201**.
2. The H-SYNC and V-SYNC signals of TTL level in amplitude and also protected by Zener diodes **D102**, **D103**. The protected versions of these two signals are fed into **U201**, at pin **65**, pin **66**.
3. The signals terminated at CN102, at pin 15, pin 12 are protected by **D104**, **D105**, and then connected to U103 (i.e. CAT24C02), U103 stores the EDID data that serves for the purpose of plug and play ,functionality. The supply voltage of U103 is either from CN102 Pin 9 while VX2239 is powered off.

#### 4-2-2 (VX2239w-4 & VX2239w-11)Analog interface : ※About input connector, please refer to CN101

1. The analog R, G, B video input signals are supplied through the cable which is terminated at CN101 These input signals are approximately 0.7 VPP in amplitude.  
These R, G, B video signals are 75 ohm terminated, via **R106**, **R102**, and **R108**, AC coupled via 0.047uF capacitors **C102**, **C106**, **C103**, and finally fed into **U104**, at pin **28** pin **25** and pin **23** respectively. These analog R, G, B video signals are converted to their digital forms in **U104**.
2. The H-SYNC and V-SYNC signals of TTL level in amplitude and also protected by Zener diodes **D106**, **D104**. The protected versions of these two signals are fed into **U104**, at pin **32**, pin **33**.
3. The signals terminated at CN101, at pin 15, pin 12 are protected by **D103**, **D109**, and then connected to U101 (i.e. CAT24C02), U101 stores the EDID data that serves for the purpose of plug and play ,functionality. The supply voltage of U101 is either from CN101 Pin 9 while VX2239 is powered off.

#### 4-3-1 (VX2239wm-3)Digital Interface : ※About input connector, please refer to CN401

1. The DVI video input signals are supplied through the cable which is terminated at CN401. These input signals are in TMDS format.  
These DVI video signals DAT0+, DAT0-, DAT1+, DAT1-, DAT2+, DAT2-, CLK+ and CLK- are DC coupled via 10Ω resistors **R405**, **R406**, **R407**, **R408**, **R409**, **R410**, **R411** and **R412**, and finally fed into **U201**, at pin**45**, pin**46**, pin**47**, pin**48**, pin**50**, pin**51**, pin**53** and pin**54**.
2. The DVI Hot Plug Detect signal from CN401 pin 16 is derived from CN401 pin14 via **R402**.
3. The signals terminated at CN401, at pin 6, pin 7 are connected to **U401** (i.e. CAT24C02),

**U401** stores the EDID data that serves for the purpose of plug and play, functionality. The supply voltage of U401 is either from CN401 Pin 14 while VX2239 is powered off.

**4-3-2(VX2239w-4 & VX2239w-11) Digital Interface : ※About input connector, please refer to CN402**

1. The DVI video input signals are supplied through the cable which is terminated at CN401. These input signals are in TMDS format.  
These DVI video signals DAT0+, DAT0-, DAT1+, DAT1-, DAT2+, DAT2-, CLK+ and CLK- are DC coupled via 10Ω resistors **R429, R430, R431, R432, R433, R434, R435** and **R436**, and finally fed into **U104**, at **pin15, pin16, pin12, pin13, pin9, pin10, pin18** and **pin19**.
2. The DVI Hot Plug Detect signal from CN402 pin 16 is derived from CN402 pin14 via **R425**.
3. The signals terminated at CN402, at pin 6, pin 7 are connected to **U401** (i.e. CAT24C02), **U401** stores the EDID data that serves for the purpose of plug and play, functionality. The supply voltage of U401 is either from CN402 Pin 14 while VX2239 is powered off.

**4-4 HDMI Interface (VX2239wm only): ※About input connector, please refer to CN501.**

1. The HDMI video input signals are supplied through the cable which is terminated at CN501. These input signals are in TMDS format.  
These HDMI video signals DAT0+, DAT0-, DAT1+, DAT1-, DAT2+, DAT2-, CLK+ and CLK- are fed into U201, at **pin28, pin29, pin30, pin31, pin33, pin34, pin36** and **pin37**.
2. The HDMI Hot Plug Detect signal from CN501 pin 19 is derived from CN501 pin18 via **R511**.
3. The signals terminated at CN501, at pin 15, pin 16 are connected to **U501** (i.e. CAT24C02), **U501** stores the EDID data that serves for the purpose of plug and play, functionality. The supply voltage of U501 is either from CN501 Pin 18 while VX2239 is powered off.

**4-5-1 (VX2239wm-3) Output interface : ※About output connector, please refer to P102**

It (LCD-VDD) is fed from Power & Inverter board via power switch Q103 (AO3401). This voltage supply is controlled by control signal LCD-ON, which comes from **U201**. The digital video signals output from **U201**, are divided into even and odd parts for each R, G, B signal. They are designated as TXO, and TXE, each of 8 bit width. These signals are fed into LCD panel from **P102**, with in located in Schematic.

**4-5-2 (VX2239w-4 & VX2239w-11) Output interface : ※About output connector, please refer to P101**

It (LCD-VDD) is fed from Power & Inverter board via power switch Q205 (AO3401). This voltage supply is controlled by control signal LCD-ON, which comes from **U104**. The digital video signals output from **U104**, are divided into even and odd parts for each R, G, B signal. They are designated as TXO, and TXE, each of 8 bit width. These signals are fed into LCD panel from **P101**, with in located in Schematic.

**4-6 Power & inverter Interface : ※About power connector, please refer to P851 & CN1**

1. PI board is PWB-1272, P851 is a connector that connects main board and Power inverter board. Main board 5V is fed from CN1 at pin3 & pin4, and associated components U1 regulator IC provides 3.3V sources for circuits VCC3.3. U2 provides 1.8V to U7
2. The inverter supplies power for backlight for the LCD panel.

**4-7 Scaler : ※About scaler, please refer to U201**

**(U104)TSUMU58NHJ-LF(Dual)/(U104)TSUMO58GDJ-LF-1(Dual) & (U201)TSUMO88GDI-LF-1(with HDMI)**

#### 4-7-1 (U201)TSUMO88GDI-LF-1(with HDMI)

The analog R, G, B and DVI / HDMI TMDS video input signals are supplied from the analog interface and digital interface respectively, and then fed into **U201** (M-Star) located in Schematic at pin **62**,pin **59**,pin **57** for R,G,B signals,pin**45**,pin**46**,pin**47**,pin**48**,pin**50**,pin**51**,pin**53** and pin**54** for DVI TMDS signals, pin**28**,pin**29**,pin**30**,pin**31**,pin**33**,pin**34**,pin**36** and pin**37** for HDMI TMDS signals.

1. The H-SYNC and V-SYNC signals come from the analog interface, and fed into **U201** at pin **65 & 66**.
2. Signal SCL and SDA are communication lines between PC and **U201**, **U103** (EDID for analog interface) which is located in the Schematic. These two lines are called I2C Bus in related technical literature, which is actually a firm industry standard. The I2C BUS is also for DDC/CI control interface between PC.
3. Signal SCL and SDA are communication lines between PC and **U201,U401 or U501** (EDID for digital interface) which is located in the Schematic.  
These two lines are called I2C Bus in related technical literature, which is actually a firm industry standard. The I2C BUS is also for DDC/CI control interface between PC.
4. X201 is a 14.318MHz crystal. Its associated circuit components provide the required reference clock for **U201** normal operation.
5. The digital video signals output from **U201** are divided into even and odd parts for each R, G, and B signal. They are designated as TXO, and TXE, each of 8bit width. These signals are fed into LCD panel, which is located in Schematic of P102.
6. POWER, Select, Menu, Plus, and Minus are signals fed to Schematic **P201** for the purpose of detecting the user keys activities.
7. VGA-DET signal comes from CN301 in Schematic. This signal tells **U201** whether the VGA video signal cable is attached or not.
8. DVI-DET signal comes from CN402 in Schematic. This signal tells **U201** whether the DVI video signal cable is attached or not.
- 9.HDMI-DET signal comes from CN501 in Schematic. This signal tells **U201** whether the HDMI video signal cable is attached or not.
10. LED indicator is controlled by pin **19** and pin **20** of **U201** respectively for Aqua white & Amber. 1. U7 is Scaler, it used to scale input signal up or down and then output digital signal to panel

#### 4-7-2 (U104)TSUMU58NHJ-LF(Dual)/(U104)TSUMO58GDJ-LF-1(Dual)

The analog R, G, B and DVI / HDMI TMDS video input signals are supplied from the analog interface and digital interface respectively, and then fed into **U104** (M-Star) located in Schematic at pin **28**,pin **25**,pin **23** for R,G,B signals, pin**15**,pin**16**,pin**12**,pin**13**,pin**9**,pin**10**,pin**18** and pin**19** for DVI TMDS signals,

1. The H-SYNC and V-SYNC signals come from the analog interface, and fed into **U104** at pin **32 & 33**.
2. Signal SCL and SDA are communication lines between PC and **U104**, **U101** (EDID for analog interface) which is located in the Schematic. These two lines are called I2C Bus in related technical literature, which is actually a firm industry standard. The I2C BUS is also for DDC/CI control interface between PC.
3. Signal SCL and SDA are communication lines between PC and **U104,U401** (EDID for digital interface) which is located in the Schematic.  
These two lines are called I2C Bus in related technical literature, which is actually a firm industry standard. The I2C BUS is also for DDC/CI control interface between PC.
4. X101 is a 14.318MHz crystal. Its associated circuit components provide the required reference clock for **U104** normal operation.

5. The digital video signals output from **U104** are divided into even and odd parts for each R, G, and B signal. They are designated as TXO, and TXE, each of 8bit width. These signals are fed into LCD panel, which is located in Schematic of P101.
6. POWER, Select, Menu, Plus, and Minus are signals fed to Schematic **P302** for the purpose of detecting the user keys activities.
7. VGA-DET signal comes from CN101 in Schematic. This signal tells **U104** whether the VGA video signal cable is attached or not.
8. DVI-DET signal comes from CN402 in Schematic. This signal tells **U104** whether the DVI video signal cable is attached or not.
9. LED indicator is controlled by pin **123** and pin **124** of **U104** respectively for Aqua white & Amber. U104 is Scalar, it used to scale input signal up or down and then output digital signal to panel

#### **4-9 Audio (VX2239wm only) : ※About audio IC, please refer to U601**

1. The U601-PAM8603ENHR in a 24-pin TSSOP package is a 5-V class-D power amplifier with DC volume control chip & allows to directly drive the 2w / 4ohm speakers without needing a low-pass output filter consisting of two inductors and two capacitors per channel.
2. The power of U601- PAM8603ENHR embedded in stereo class-D audio with DC volume control is supplied from 5V through L601
3. The audio signals, LIN and RIN, come from the earphone jack –CN601 and then feed into PAM8603ENHR pin-8 and pin-17 respectively.  
The output pin-24 & pin-21 are for left speaker output via LC filter & pin-1 & pin-4 are for right speaker output via LC filter after the coming audio signal was proceeded by the internal operation of IC
4. To vary the input voltage of the pin-11 of U601 to control the output volume
5. To use U201 pin-9 to control the pin-17 of audio IC PAM8603ENHR for meeting the energy star spec. when the monitor is under power saving mode

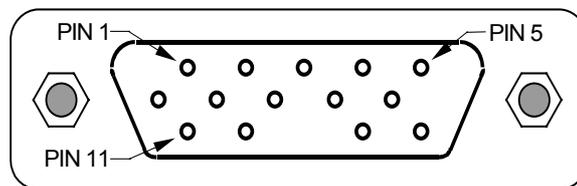
#### **4-9 Key Board Circuit**

The circuit diagram of key board circuit is shown in PWB-1258.

#### **4-10 Input Signal Connector Definition**

- 1 The pin assignment of the 15-pin D-SUB Receptacle connector is listed as below:

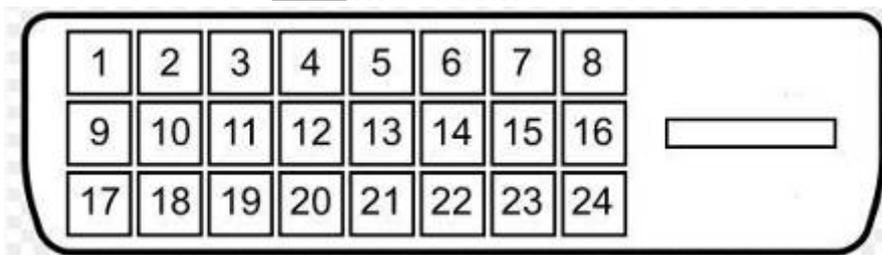
PIN	MNEMONIC	SIGNAL
1	RV	Red Video
2	GV	Green Video
3	BV	Blue Video
4	NC	None
5	GND	Ground (DDC Return)
6	RG	Red GND
7	GG	Green GND
8	BG	Blue GND
9	+3.3/+5 V	+3.3/+5 V (from PC)
10	SG	Sync Ground
11	NC	None
12	SDA	DDC Data
13	HS	Horizontal Sync
14	VS	Vertical Sync
15	SCL	DDC Clock



2 The pin assignment of the 24-pin DVI-D Receptacle connector is listed as below:

Pin Number	Signal Assignment	Pin Number	Signal Assignment
1	T.M.D.S Data2-	13	T.M.D.S Data3+
2	T.M.D.S Data2+	14	+5V Power
3	T.M.D.S Data2/4 Shield	15	Ground (for +5V)
4	T.M.D.S Data4-	16	Hot Plug Detect
5	T.M.D.S Data4+	17	T.M.D.S Data0-
6	DDC Clock	18	T.M.D.S Data0+
7	DDC Data	19	T.M.D.S Data0/5 Shield
8	No Connect	20	T.M.D.S Data5-
9	T.M.D.S Data1-	21	T.M.D.S Data5+
10	T.M.D.S Data1+	22	T.M.D.S Clock Shield
11	T.M.D.S Data1/3 Shield	23	T.M.D.S Clock+
12	T.M.D.S Data3-	24	T.M.D.S Clock-

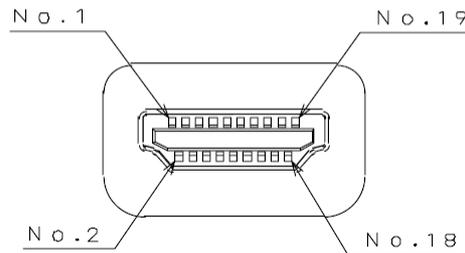
 :not connect



3 The pin assignment of the 19-pin HDMI Receptacle connector is listed as below:

PIN	MNEMONIC	SIGNAL
1	TX 2 +	TMDS Data 2 +
2	SHLD 2	TMDS Data 2 Shield
3	TX 2 -	TMDS Data 2 -
4	TX 1 +	TMDS Data 1 +
5	SHLD 1	TMDS Data 1 Shield
6	TX 1 -	TMDS Data 1 -
7	TX 0 +	TMDS Data 0 +
8	SHLD 0	TMDS Data 0 Shield
9	TX 0 -	TMDS Data 0 -
10	TX CLK +	TMDS Clock +
11	TX CLK SHLD	TMDS Clock Shield
12	TX CLK -	TMDS Clock -
13	CEC	Consumer Electronic Control
14	NC	No Connect
15	DDC Clk	DDC Clock
16	DDC Data	DDC Data
17	GND	CED and DDC Ground, HDMI Cable Detect
18	+5V	+5V Power (from the media box)
19	HPD	Hot Plug Detect

### Type A Connector



**NOTE:**

Do not force the cable into the connector; line it up carefully so that you don't bend the pins.

## 5. Adjustment Procedure

### 5-1. Burn-in Mode

1. Do not connect any input source.
2. Pressing button[ 2 ] then [⏻] power on.

### 5-2. Enter into the factory mode:( with input signal )

Switch off the monitor, press button[ 2 ] key then [⏻] power on again, the monitor should be in the factory mode, then factory mode OSD will show on the top left side

In this factory mode menu, you can execute auto color 、adjust color temperature and check the status of set (including model name 、type of panel 、type of scaler and F/W version). All adjustment data will be stored automatically, and power off then on again, the monitor will exit this factory mode and go back to normal operating state.

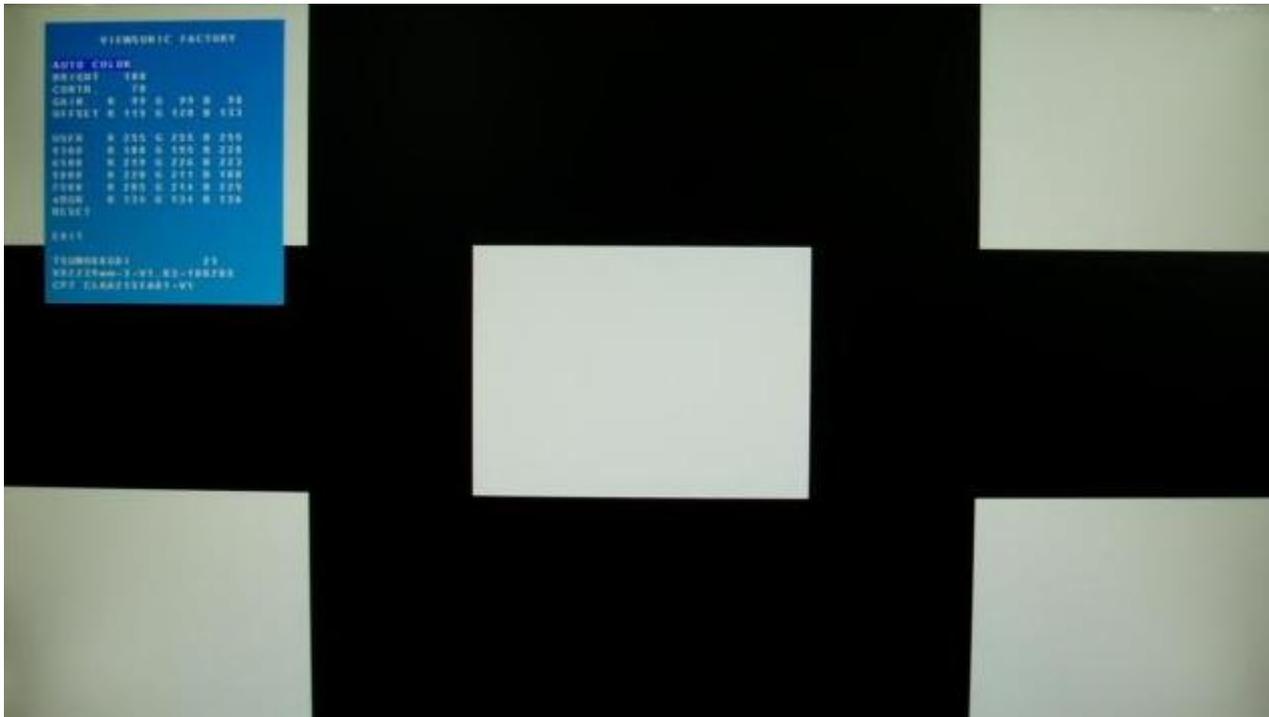
Example OSD of factory mode for VX2239wm is as below :

The screenshot shows the 'VIEWSONIC FACTORY' OSD menu. Red arrows point to specific sections: 'Auto-Color function' points to the 'AUTO COLOR' section; 'Color temperature adjustment' points to the 'USER' section; 'Type of Scaler' points to the 'TSUM088GD1' line; 'Type of Panel' points to the 'CPT CLAA215FA01-V1' line; and 'Model name & F/W version' points to the 'VX2239wm-3-V1.03-100705' line.

Section	Item	R	G	B
Auto-Color function	AUTO COLOR			
	BRIGHT	100		
	CONTR.	70		
	GAIN	99	99	98
Color temperature adjustment	OFFSET	115	120	133
	USER	255	255	255
	9300	180	195	228
	6500	219	226	223
	5000	220	211	180
	7500	205	214	225
	sRGB	134	134	136
	RESET			
Type of Scaler	EXIT			
	TSUM088GD1			21
	VX2239wm-3-V1.03-100705			
Type of Panel	CPT CLAA215FA01-V1			
	Model name & F/W version			

### 5-3. Auto-Color Adjustment (Factory mode & VGA input only)

1. Enter the factory mode.
2. Apply a VGA input 1920 x 1080/ 60Hz (67.5KHz) signal with five white-block pattern. ( CHROMA 2250 or equivalent ; Pattern #42)
3. Press "AUTO COLOR" item of factory OSD to run Auto-Color Adjustment



#### 5-4. White Balance Adjustment (**Factory mode**)

Please follow the steps to adjust White Balance

1. Execute Memory Recall of Main Menu to recall default Contrast/Brightness value.
2. Warm up the LCD monitor at least 20~ 30 minutes.
3. Apply a 1920 x 1080/ 60Hz (67.5KHz) signal with five square white pattern.. ( CHROMA 2250 Pattern #42)
4. Enter the factory mode menu.
5. Execute the Auto-Color process.
6. Use a color analyzer to set the Luminance and Color temperature to meet below chart.
7. Power off to end this white balance adjustment.

## Luminance

Lv (Max) –Condition: Brightness / Contrast = 100% CCT = USER COLOR (R/G/B=100%)	Lv (Max) = The Luminance requirement of section 4.8 “TFT LCD PANEL”
Lv (Saturation) –Condition: Color Temperature = sRGB	75 ~ 105nits
Lv (6500K) –Condition: Brightness / Contrast = Default CCT = 6500K	$Lv(6500K) / Lv(Max) \times 100\% > 85\%$
Lv (9300K) –Condition: Brightness / Contrast = Default CCT = 9300K	$Lv(9300K) / Lv(Max) \times 100\% > 65\%$
Lv (7500K) –Condition: Brightness / Contrast = Default CCT = 7500K	$Lv(7500K) / Lv(Max) \times 100\% > 75\%$
Lv (5000K) –Condition: Brightness / Contrast = Default CCT = 5000K	$Lv(5000K) / Lv(Max) \times 100\% > 75\%$
Lv (Brightness) –Condition: Contrast = 100%(6500K)	$Lv(Brightness=0\%) / Lv(Brightness=100\%) \times 100\% \leq 55\%$
Lv (Contrast) –Condition: Brightness = 100%(6500K)	$Lv(Contrast=0\%) / Lv(Contrast=100\%) \times 100\% \leq 35\%$

## Preset Color Temperatures

sRGB	It should meet IEC 61966-2-1 (1999-10) standard.
Preset 1	CCT (typ) = <b>9300K</b> ( $u'_{CCT}=0.1888$ ; $v'_{CCT}=0.4457$ ) $\Delta u'v' < 0.01$ (@ Full White pattern) CCT 11500K > 9300K > 7900K CCT(9300K) $\geq$ CCT(7500K) + 500
Preset 2	CCT (typ) = <b>7500K</b> ( $u'_{CCT}=0.1935$ ; $v'_{CCT}=0.4586$ ) $\Delta u'v' < 0.01$ (@ Full White pattern) CCT 8750K > 7500K > 6550K CCT(7500K) $\geq$ CCT(6500K) + 500
Preset 3 (Primary)	CCT (typ) = <b>6500K</b> ( $u'_{CCT}=0.1978$ ; $v'_{CCT}=0.4684$ ) $\Delta u'v' < 0.01$ (@ Full White pattern) CCT 7400K > 6500K > 5700K CCT(6500K) $\geq$ CCT(5000K) + 500
Preset 4	CCT (typ) = <b>5000K</b> ( $u'_{CCT}=0.2091$ ; $v'_{CCT}=0.4882$ ) $\Delta u'v' < 0.01$ (@ Full White pattern) CCT 5600K > 5000K > 4500K
Preset Color Temperature Adjustability	Each color preset shall be adjustable. Red, Green, and Blue shall be individually controlled.

## 5-5. Firmware Upgrade Procedure

### 1. Equipment Request :

- PC ( Personal Computer )
- Target set ( need to re-flash )
- ISP board
- USB Cable
- VGA Cable



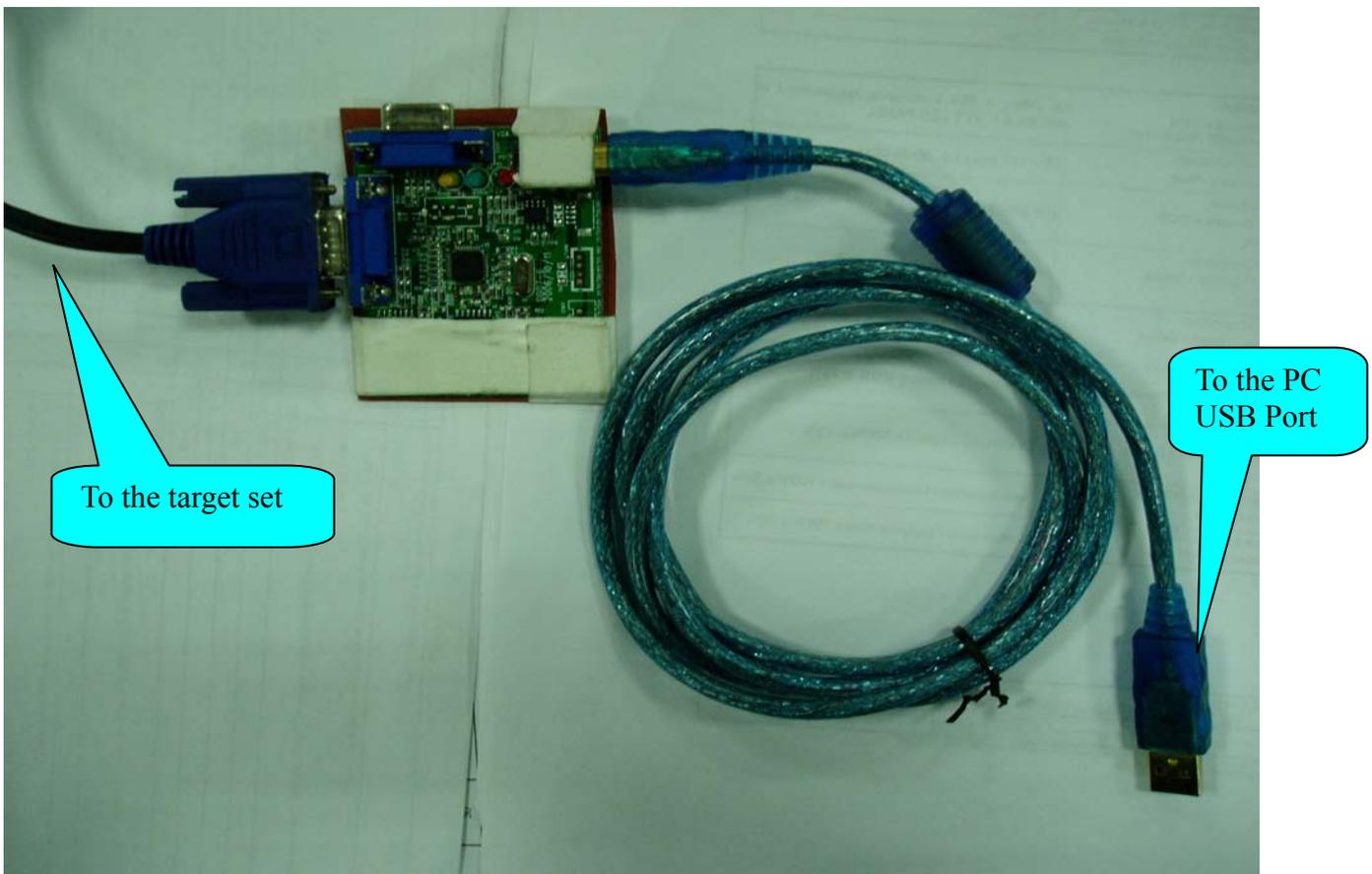
**PC**



**Target set**

### 2. SOP to upgrade the firmware

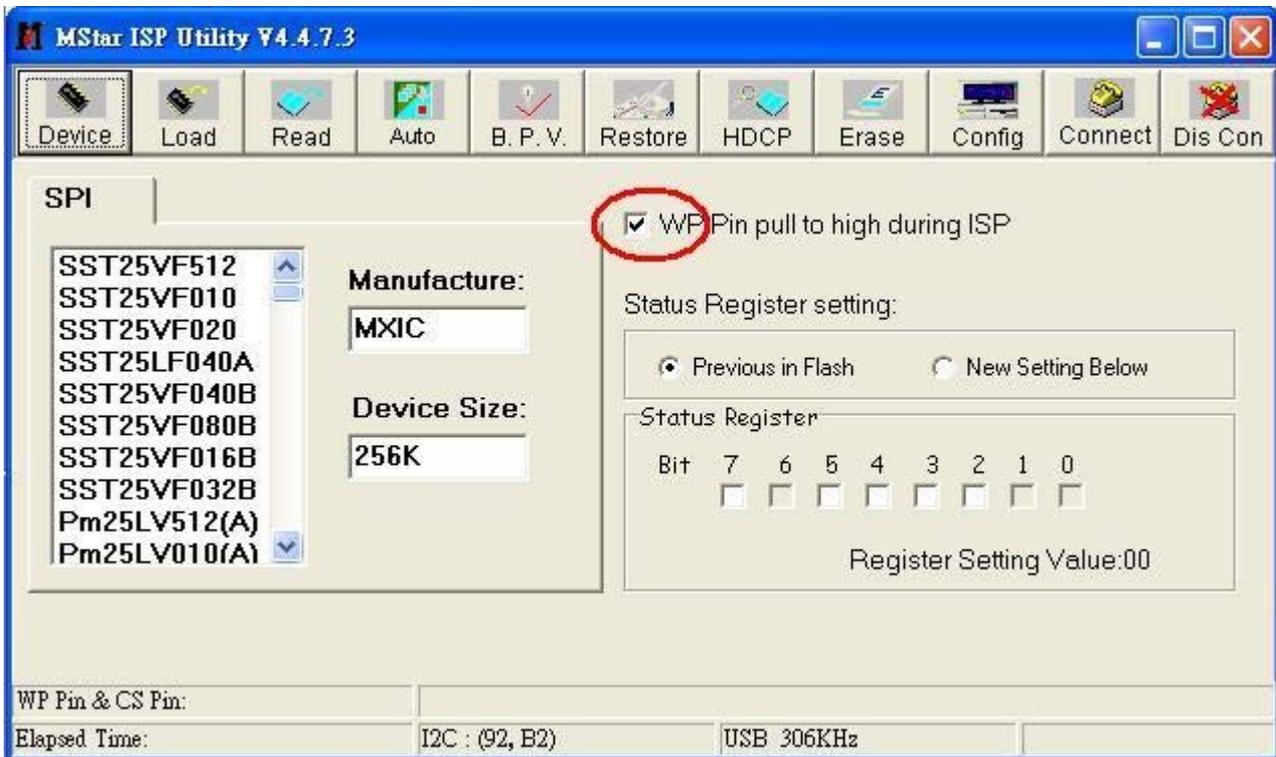
**Step1:** Plug the power cord in Target set. Then connect the ISP board to PC (by USB cable) and the Target set (by VGA cable).

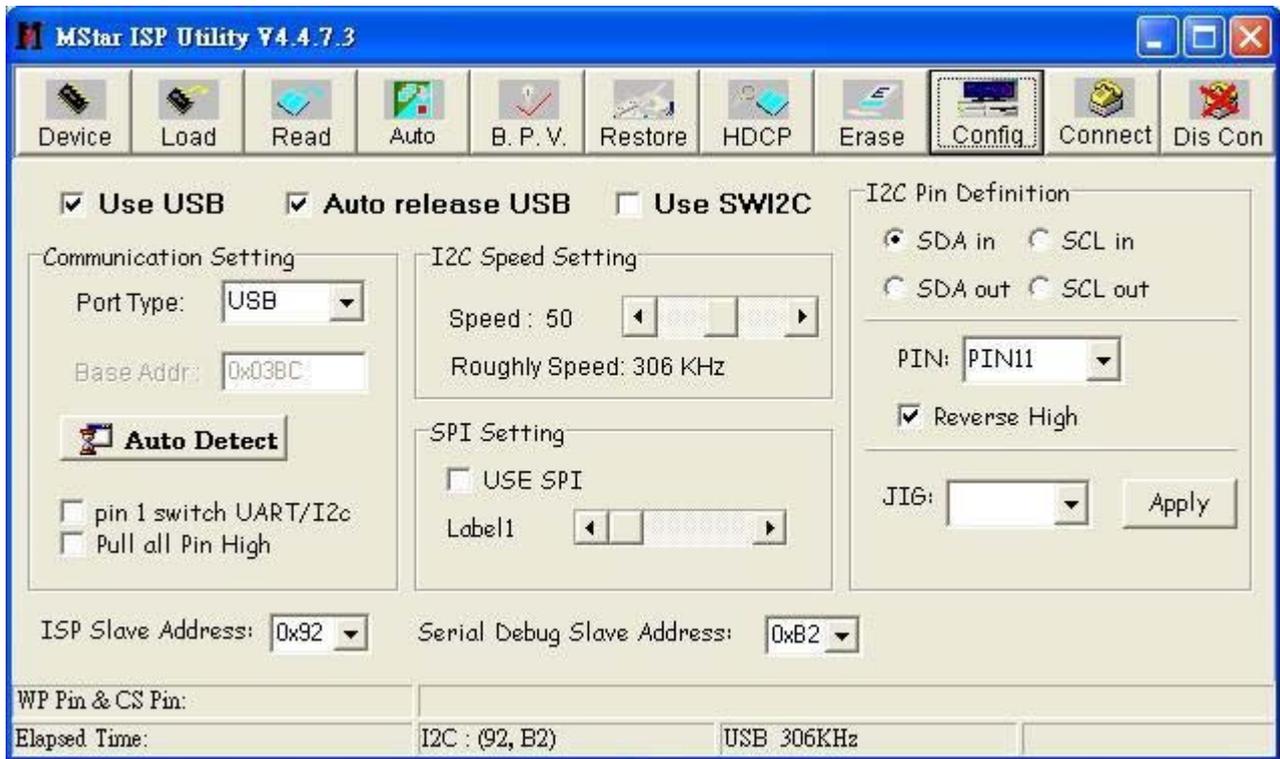


**Step2:** Execute the MStar ISP\_Tool.

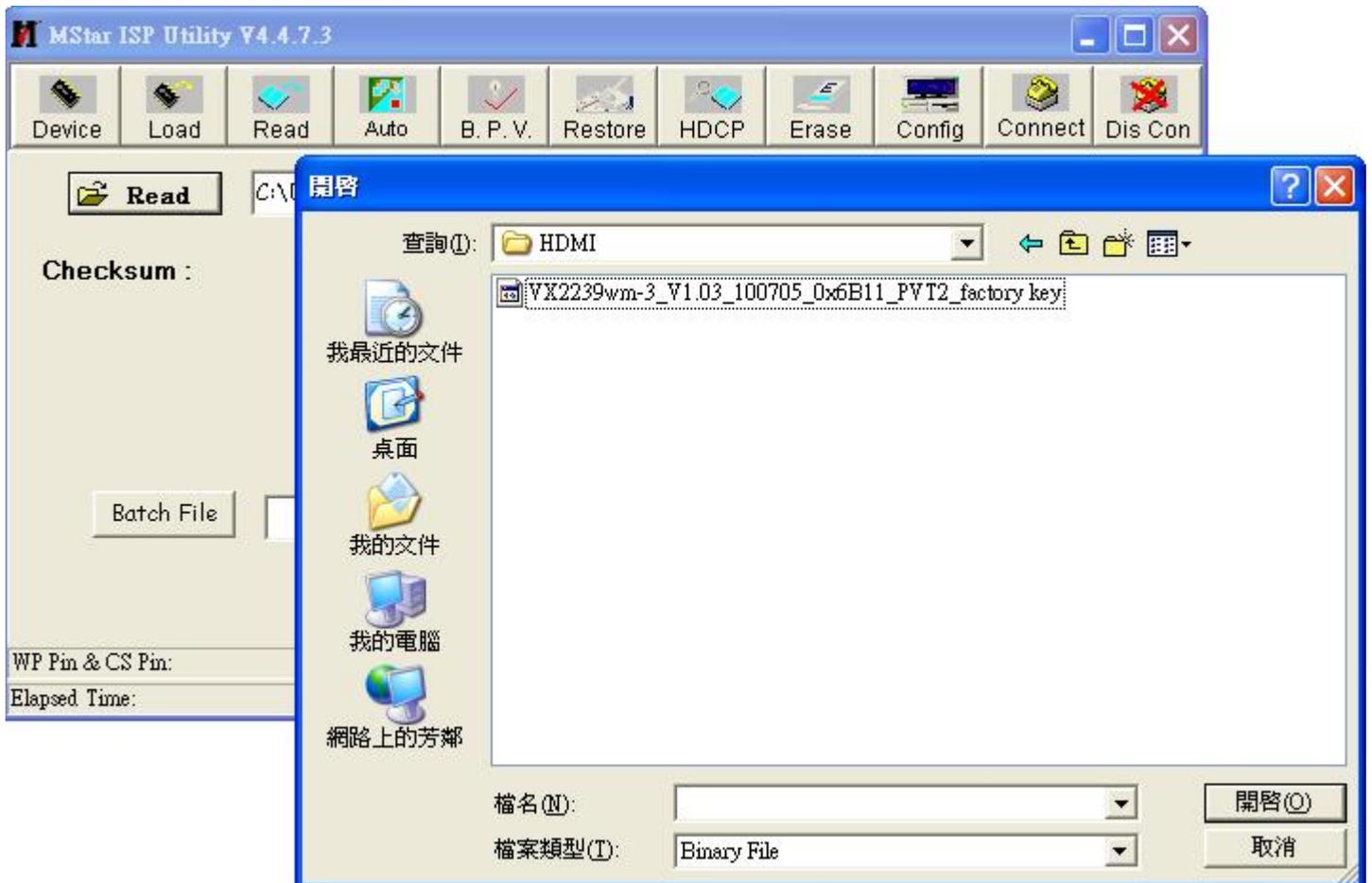


Step3: Check system settings as below :

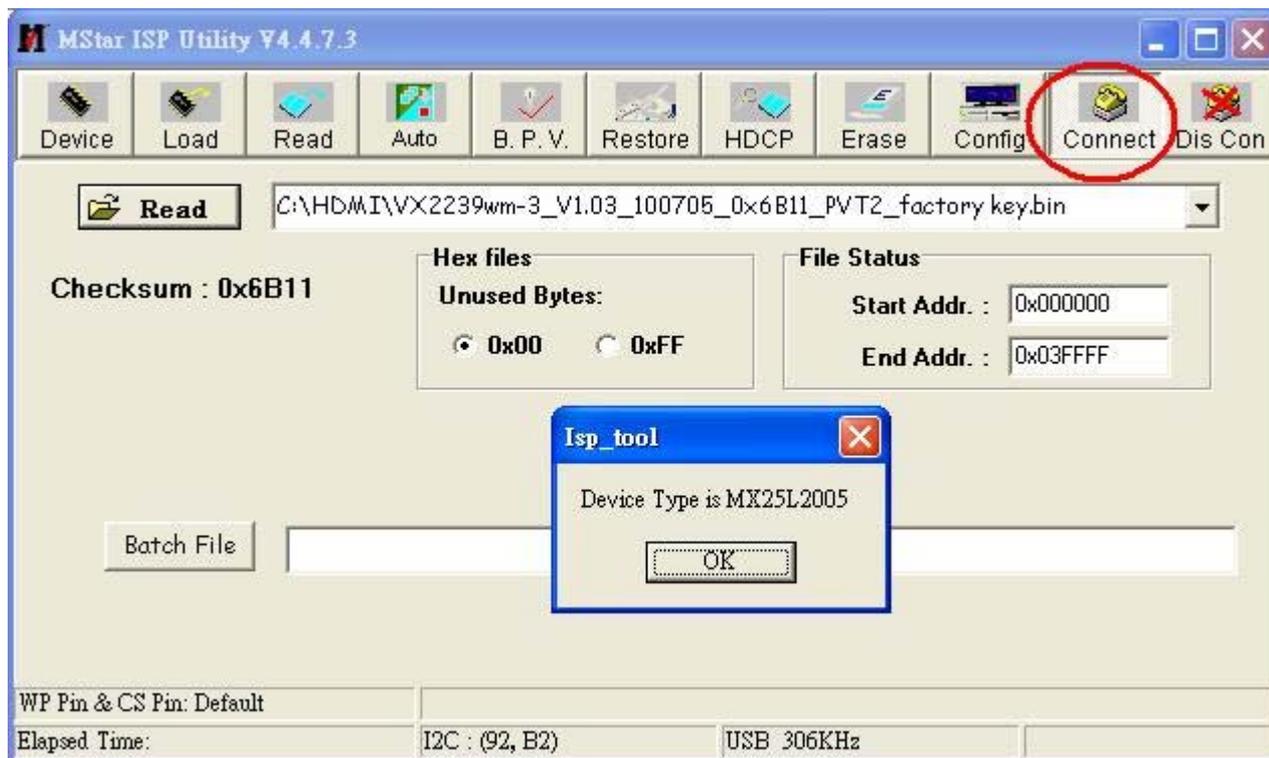




Step4: Click the Read button and select the bin file.



Step5: Please press Connect button to get the Device Type and press OK button.



Step6: Select Auto button and press Run button to start the FW programming.



Step7: Check if the “PASS” message comes out , then the process of FW update is done.



**5-6. Burn in EDID**

1. Equipment Needed

- Target monitor.
- VGA Cable
- EDID tool
- Compatible graphic card ( Strong recommended NVIDIA serials display card)
- PC (Personal Computer) with Win 98/ME/2000/XP, Best system operation under DOS.
- DDC Burn in Program

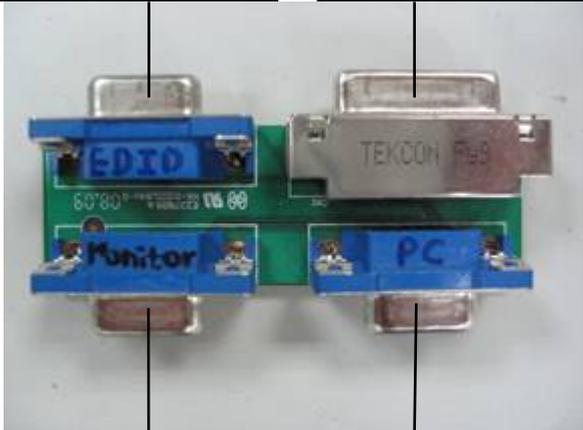
2. Setup Procedure

Ready the environment as below (PC 、 EDID tool)



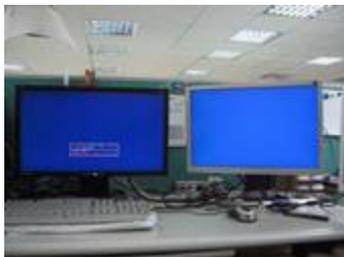
To connect to programming monitor for EDID of **VGA**

To connect to programming monitor for EDID of **DVI**

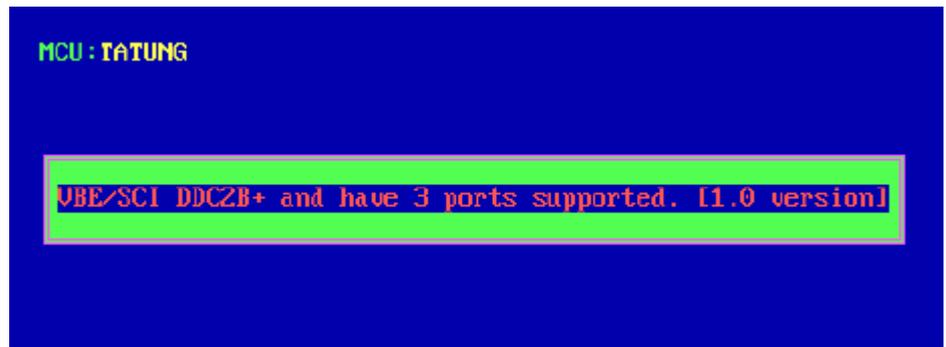


To connect to any monitor for surveillance during programming the EDID

To connect to PC with VGA cable



When you start to run the DDC burn in software, this message will show up



### 3. DDC Burn In Procedure

#### 3-1. Setup the DDC burn in tool

Extract “DDC for TAT.rar” will see DDC for TAT folder and files. These are files contents as below :

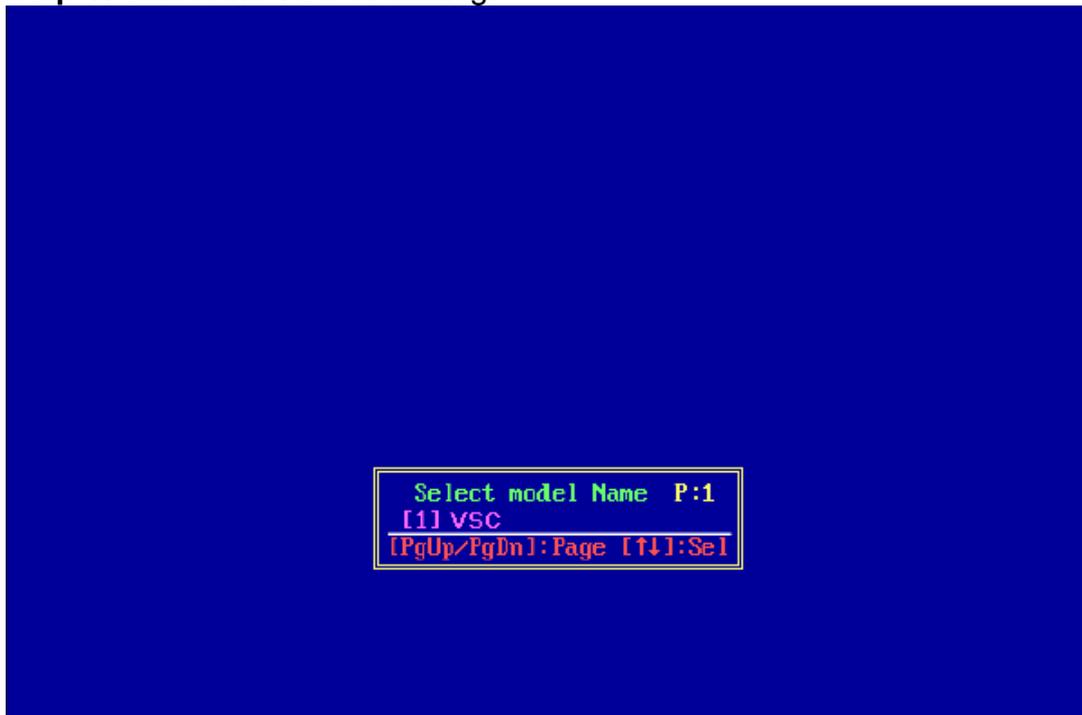


Note :

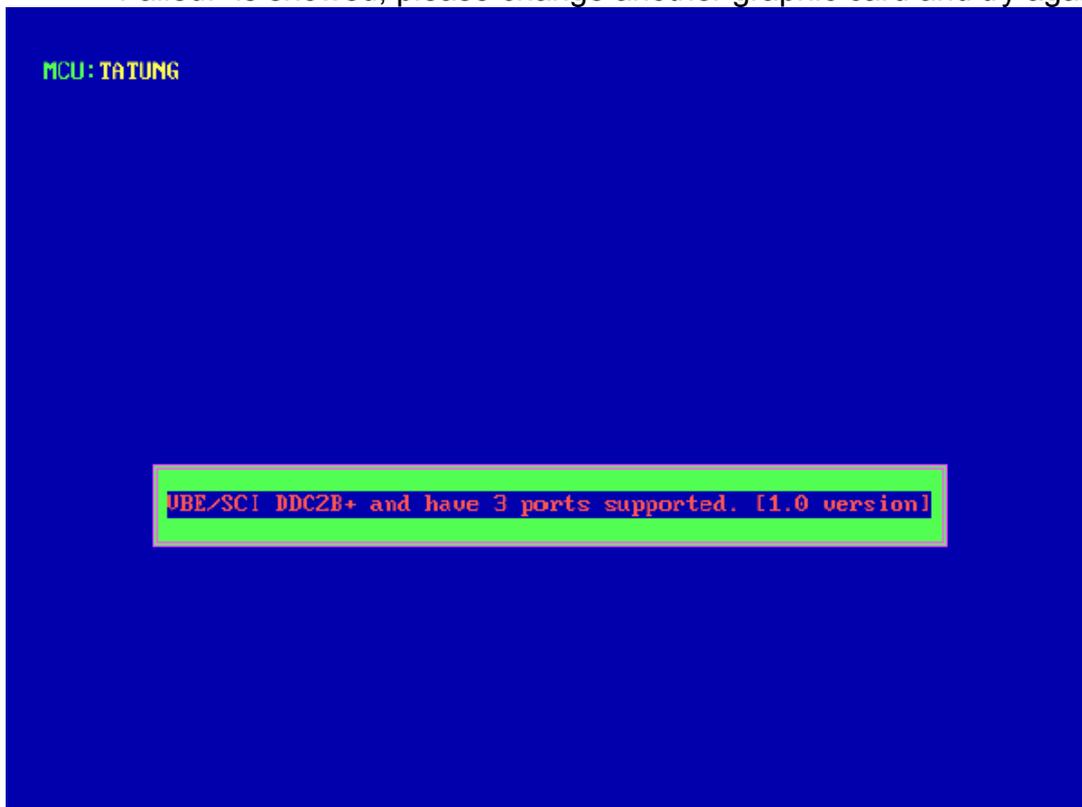
- a. The graphic card must support VESA BIOS Extension/Serial Control Interface Standard (VBE/SCI) function. (The nVidia card is suggested.)
- b. The burning-in process must be executed in the monitor factory mode. To activate **factory mode**. (**Factory mode** : To press button [ 2 ] first & push [⏻] to power on the set, then the led indicator will be amber )

3-2 Start Burn in EDID,execute DDC.exe

**Step 1:** Select the VSC of catalog.



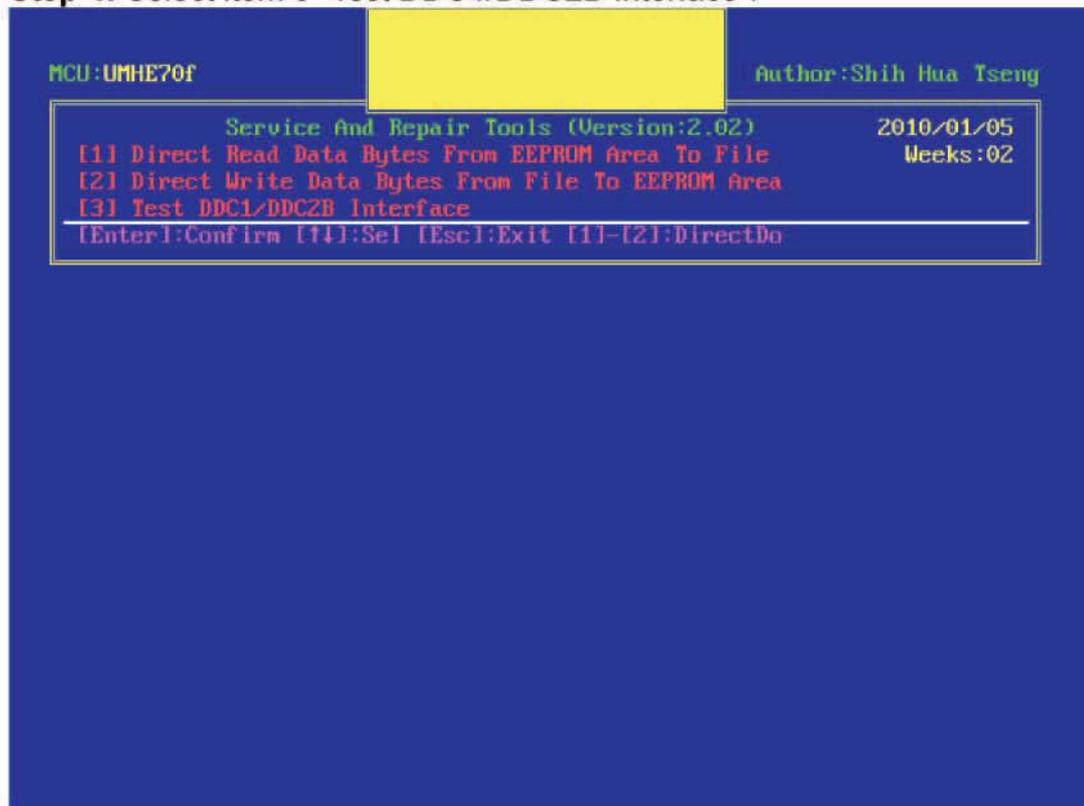
**Step 2:** A green system message will show up, the message means this display card supports DDC2b+ function, and have over 2 ports for D-Sub. If red message “VBE/SCI Call Failed!” is showed, please change another graphic card and try again.



**Step 3:** Press F1 key to check “Edit Parameter Item” item 8, set to value 1 means burn in source come from VGA port, set to value 2 means burn in source come from DVI port.



**Step 4:** Select item 3 “Test DDC1/DDC2B Interface”.



**Step 5:** Burn in **Analog** EDID first, select item 5 "Model Name", it will show all available models name. Please select VSC-VX2239wA/ VSC-VX2239wD/ VSC-VX2239wH for this model, it means VGA/DVI/HDMI EDID and are all needed to burn in. **(VX2239w-4/VX2239w-11 use the same VGA/DVI EDID data with VX2239wm-3 model. )** Choose VSC-VX2239w\_A , that is the analog EDID for ViewSonic VX2239wm-3 model.

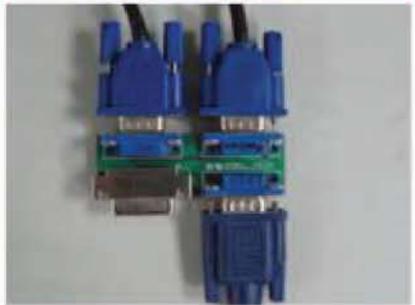
※Please double check model name is right or not. (The VA2231wm model in the following figure is an example. )

```

MCI:1MHE70F
Service And Repair Tools (Version:2.03)
[1] Direct Read Data Bytes From EEPROM Area To File
[2] Direct Write Data Bytes From File To EEPROM Area
[3] Test DDC1/DDC2 Interface
[Enter]:Confirm

Select DDC Function Mode
[1] Replace DDC Data From File
[2] Auto Bar code Replace DDC Data
[3] Test DDC1 Mode
[4] Test DDC2
[5] Model Name: VA2231wm_a
[6] Serial No : 0000
[7] DDC Year : 2010
[8] DDC Weeks : 22
[9] DDC Month : 05
[Esc]:Quit [Enter]:Confirm [1]:Sel
  
```

Note: the connection of EDID tool as below

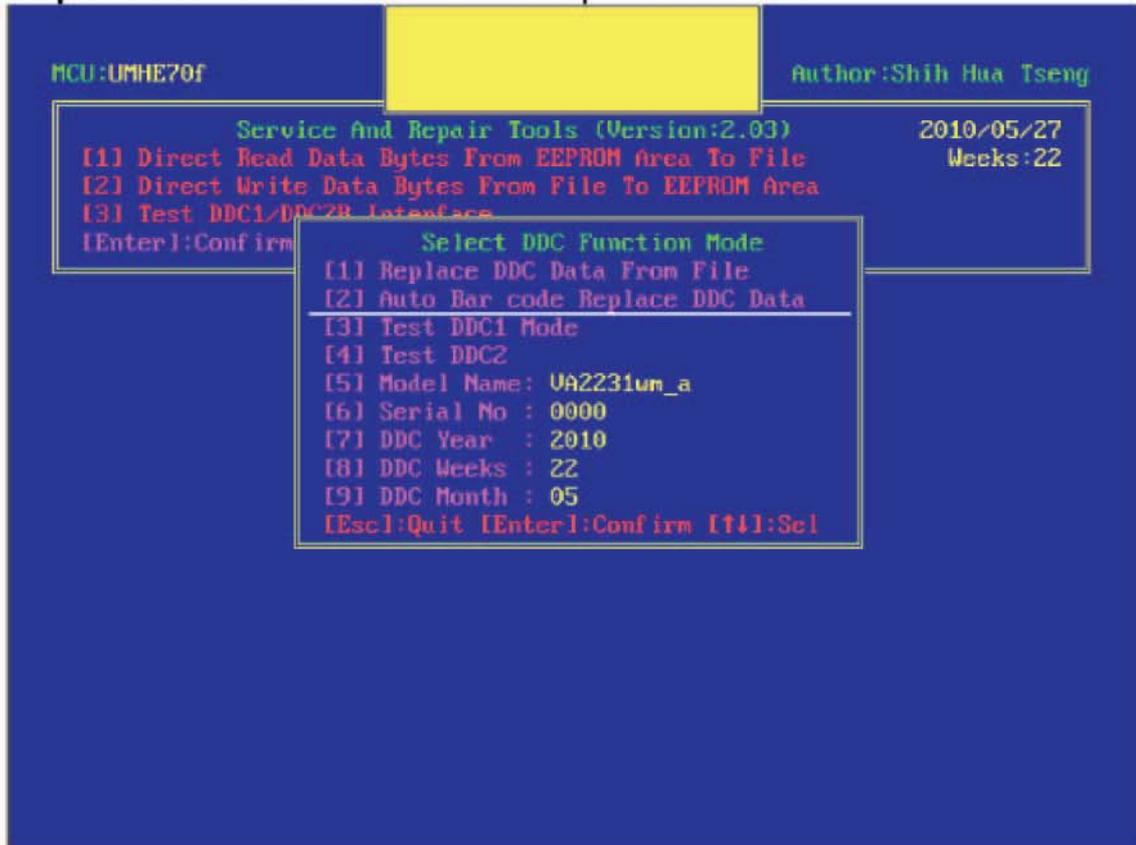


```

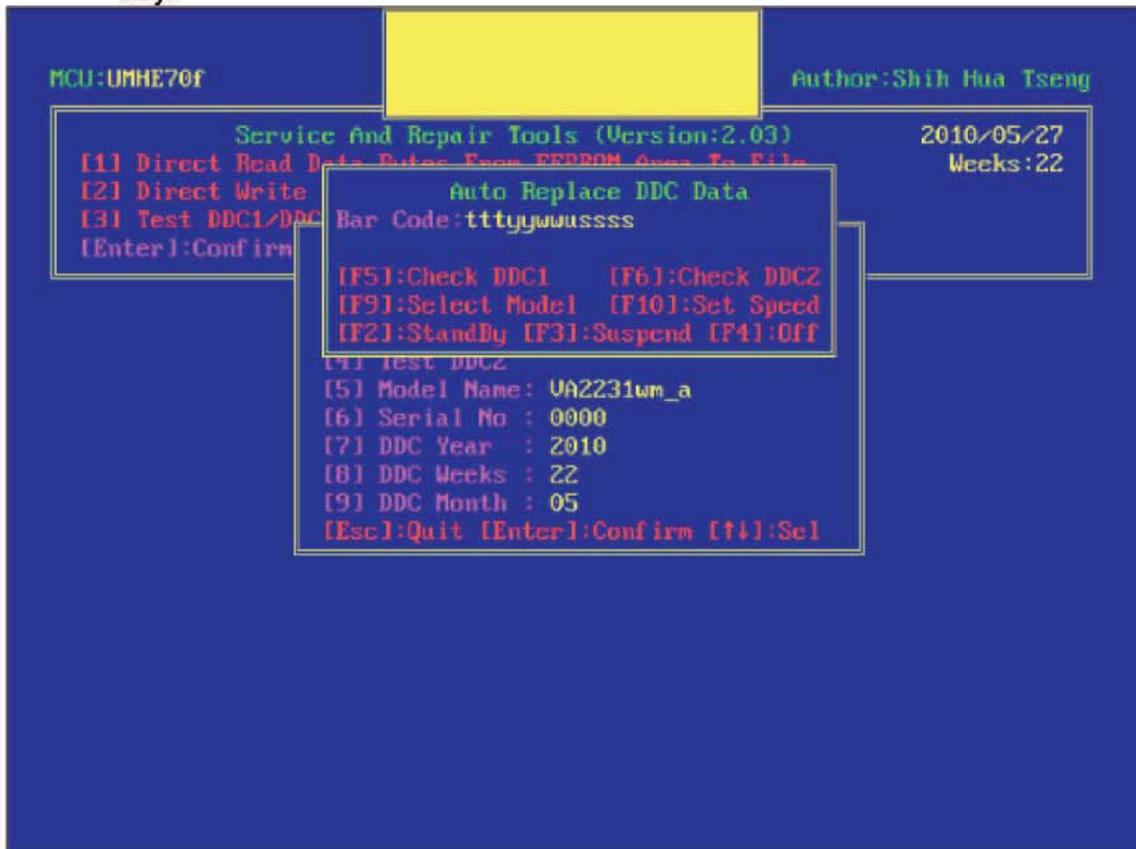
MCI:1MHE70F
Service And Repair Tools (Version:2.03)
[1] Direct Read Data Bytes From EEPROM Area To File
[2] Direct Write Data Bytes From File To EEPROM Area
[3] Test DDC1/DDC2 Interface
[Enter]:Confirm

Select DDC File Name P:9
[1] Q1913w -> LCM\USC\NQ1913w_USC
[2] Q2213w_a -> LCM\USC\NQ2213w_a_USC
[3] Q2213w_d -> LCM\USC\NQ2213w_d_USC
[4] VA1931ua -> LCM\USC\VA1931ua_USC
[5] VA1931ua_a -> LCM\USC\VA1931ua_a_USC
[6] VA1931ua_d -> LCM\USC\VA1931ua_d_USC
[7] VA1931um_a -> LCM\USC\VA1931um_a_USC
[8] VA1931um_d -> LCM\USC\VA1931um_d_USC
[9] VA2231ua -> LCM\USC\VA2231ua_USC
[10] VA2231ua_a -> LCM\USC\VA2231ua_a_USC
[11] VA2231ua_d -> LCM\USC\VA2231ua_d_USC
[12] VA2231um_a -> LCM\USC\VA2231um_a_USC
[13] VA2231um_d -> LCM\USC\VA2231um_d_USC
[Page/PgDn]:Page [11]:Sel [Enter]:Confirm
  
```

**Step 6:** Select item 2 "Auto Bar code Replace DDC Data".



**Step 7:** Find the monitor serial number from Monitor back label, key in **bar code** then press enter key.



**Step 8:** Press F6 to confirm the bar code number is right or not, if no error message appeared, the EDID burn in process is done.

```
MCU:UMHE70f Author:Shih Hua Tseng
Service And Repair Tools (Version:2.03) 2010/05/27
[1] Direct Read Data From EEPROM Area To File Weeks:22
[2] Direct Write
[3] Test DDC1/DDC2
[Enter]:Confirm
Auto Replace DDC Data
Bar Code:tttyjwwussss
[F5]:Check DDC1 [F6]:Check DDC2
[F9]:Select Model [F10]:Set Speed
[F2]:StandBy [F3]:Suspend [F4]:Off
[4] Test DDC2
[5] Model Name: UA2231wm_a
[6] Serial No : 0000
[7] DDC Year : 2010
[8] DDC Weeks : 22
[9] DDC Month : 05
[Esc]:Quit [Enter]:Confirm [F4]:Sel
```

- ※ If target monitor is VX2239w or VX2239wm, the analog EDID burn in process is done when you complete above steps.
- ※ VX2239w / VX2239wm must continue to burn in digital EDID process as below.

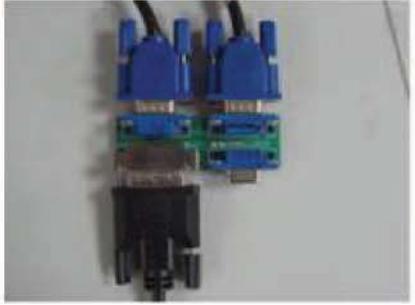
**Step 9:** Burn in **Digital** DVI EDID, select item 5 “Model Name”, it will show all available models name, continue the previous example : choose VSC-VX2239wD , that is the digital DVI EDID for ViewSonic VX2239wm-3 model.

※Please double check model name right or not. (The VA2231wm model in the following figure is an example. )

```

NCU:UMHE70F
Service And Repair Tools (Version:2.03)
[1] Direct Read Data Bytes From EEPROM Area To File
[2] Direct Write Data Bytes From File To EEPROM Area
[3] Test DDC/DDC2B Interface
[Enter]:Confirm
Select DDC Function Mode
[1] Replace DDC Data From File
[2] Auto Bar code Replace DDC Data
[3] Test DDC1 Mode
[4] Test DDC2
[5] Model Name: VA2231wm_d
[6] Serial No : 0000
[7] DDC Year : 2010
[8] DDC Weeks : 22
[9] DDC Month : 05
[Esc]:Quit [Enter]:Confirm [1]:Sel
    
```

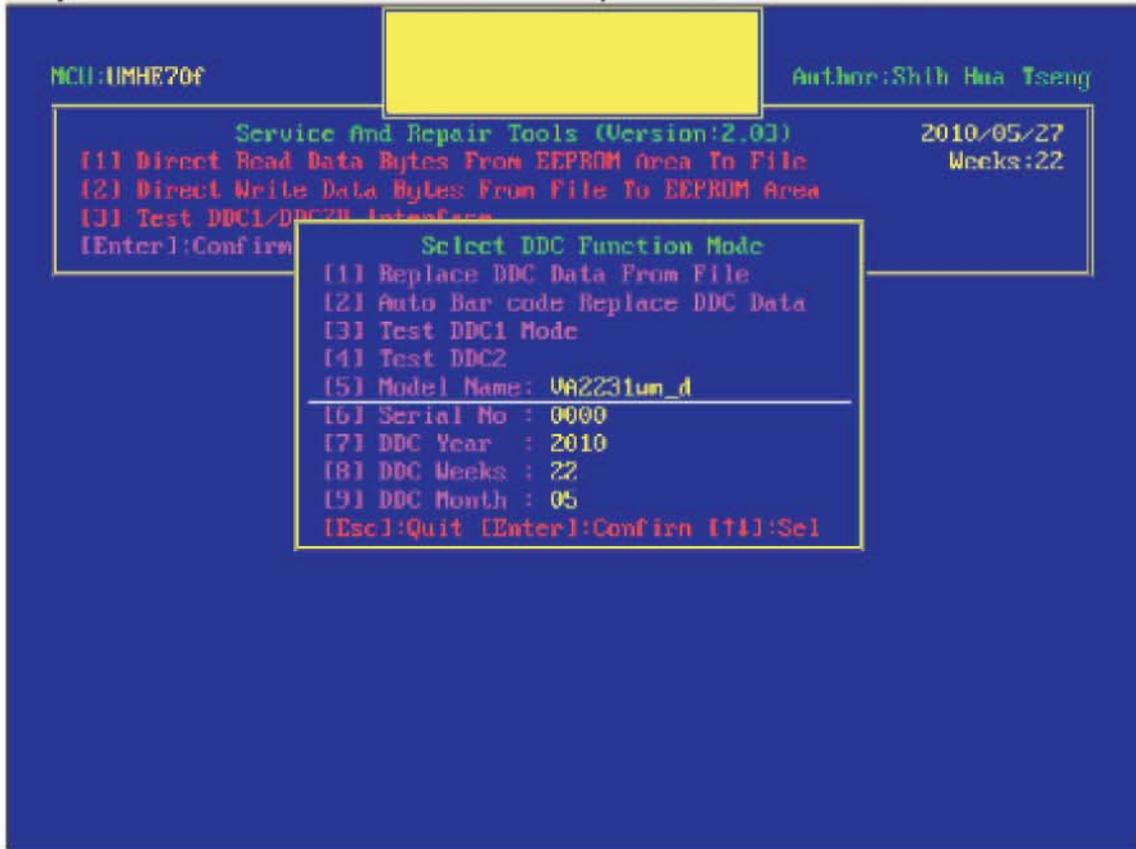
Note: the connection of EDID tool as below



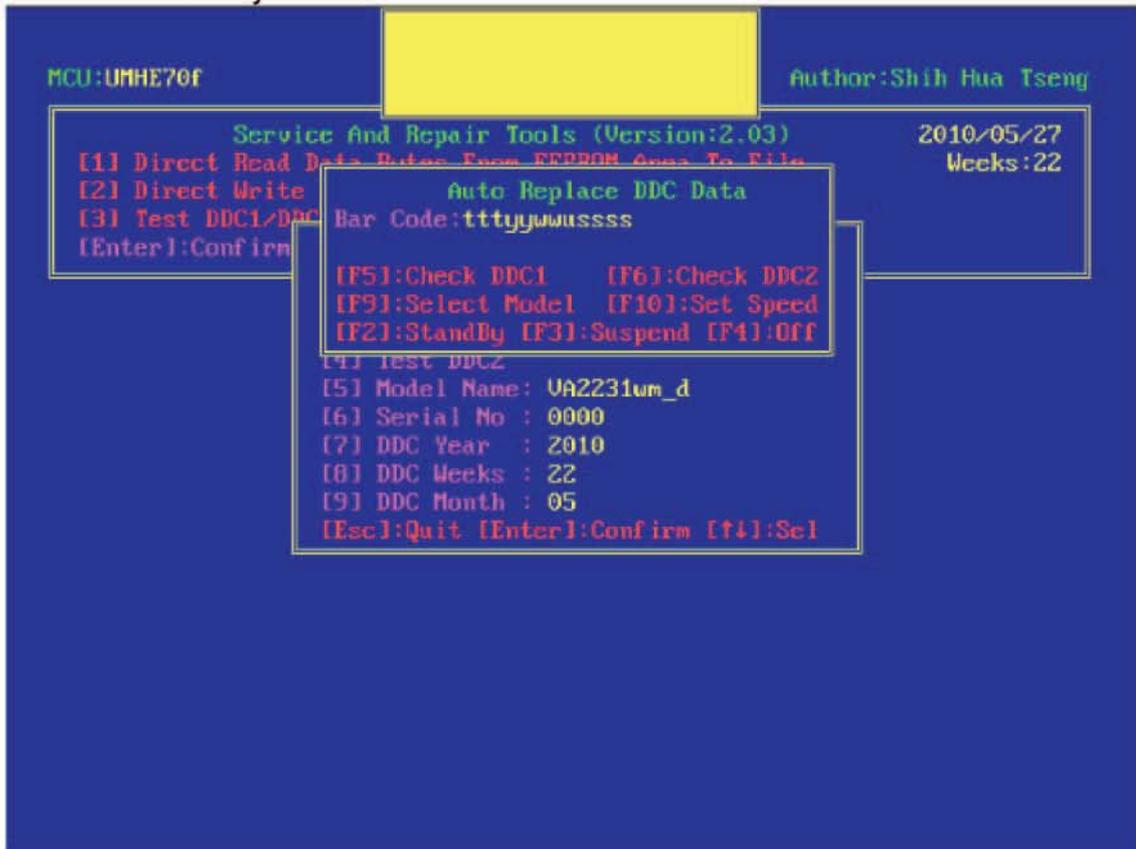
```

NCU:UMHE70F
Service And Repair Tools (Version:2.03)
[1] Direct Read Data Bytes From EEPROM Area To File
[2] Direct Write Data Bytes From File To EEPROM Area
[3] Test DDC/DDC2B Interface
[Enter]:Confirm
Select DDC File Name P:9
[1] Q1913w      -> LCM\USC\QN\Q1913w_USC
[2] Q2213w_a   -> LCM\USC\QN\Q2213w_a_USC
[3] Q2213w_d   -> LCM\USC\QN\Q2213w_d_USC
[4] VA1931wa   -> LCM\USC\VA\VA1931wa_USC
[5] VA1931wa_a -> LCM\USC\VA\VA1931wa_a_USC
[6] VA1931wa_d -> LCM\USC\VA\VA1931wa_d_USC
[7] VA1931wa_a -> LCM\USC\VA\VA1931wa_a_USC
[8] VA1931wa_d -> LCM\USC\VA\VA1931wa_d_USC
[9] VA2231wa   -> LCM\USC\VA\VA2231wa_USC
[A] VA2231wa_a -> LCM\USC\VA\VA2231wa_a_USC
[B] VA2231wa_d -> LCM\USC\VA\VA2231wa_d_USC
[C] VA2231wa_a -> LCM\USC\VA\VA2231wa_a_USC
[D] VA2231wa_d -> LCM\USC\VA\VA2231wa_d_USC
[E] VA2231wa_a -> LCM\USC\VA\VA2231wa_a_USC
[F] VA2231wa_d -> LCM\USC\VA\VA2231wa_d_USC
[Page/PgDn]:Page [1]:Sel [Enter]:Confirm
    
```

**Step 10:** Select item 2 “Auto Bar code Replace DDC Data.



**Step 11:** Find the monitor serial number from Monitor back label, key in **bar code** then press enter key.



**Step 12:** Press F6 to confirm the bar code number right or not, if no any error message appeared, the digital EDID burn in process is done.

```

MCU:UMHE70f
Author:Shih Hua Tseng

Service And Repair Tools (Version:2.03)
2010/05/27
[1] Direct Read Data From EEPROM Area To File
[2] Direct Write
[3] Test DDC1/DDC2
[Enter]:Confirm
Weeks:22

Auto Replace DDC Data
Bar Code:RWC102200001
RWC102200001
[F5]:Check DDC1 [F6]:Check DDC2
[F9]:Select Model [F10]:Set Speed
[F2]:StandBy [F3]:Suspend [F4]:Off
[F4] TEST DDC2
[5] Model Name: VA2231wm_d
[6] Serial No : 0001
[7] DDC Year : 2010
[8] DDC Weeks : 22
[9] DDC Data
[Esc] Received DDC Data OK !! [F5]:Sel

DDC Data Received : RWC102200001
00 FF FF FF FF FF FF 00 5A 63 26 5C 01 01 01 01
16 14 01 03 80 30 1B 78 2E DC 55 A3 59 48 9E 24
11 50 54 BF EF 80 B3 00 A9 40 95 00 81 80 81 40
81 00 71 4F 01 01 02 3A 80 18 71 3B 2D 40 5B 2C
45 00 DD 0C 11 00 00 1E 00 00 00 FF 00 52 57 43
31 30 32 32 30 30 30 30 31 0A 00 00 00 FD 00 32
4B 18 52 11 00 0A 20 20 20 20 20 20 00 00 FC
00 56 41 32 32 33 31 20 53 65 72 69 65 73 00 B9
Year/Week=2010/22 SerialNo=0001 DVI ModelName=VA2231 Series
  
```

**Step 13:** Burn in Digital HDMI EDID. Repeat the step 9~12, but choose VSC-VX2239wH as the model name , that is the digital HDMI EDID for ViewSonic VX2239wm-3 model. And the DVI cable should be change to another type which has the HDMI connector on the other terminal of the cable and is plug to the monitor.)

**5-7. EDID Data**

Supplier should update the Manufacture Date (byte 16-17) and Serial Number (byte 72-89).

Analog VGA :

```
*****
*                               View Sonic                               *
*                               Date: Wed Jun 30, 2010                   *
*                               EDID Version# 1, Revision# 3             *
*                               DDC/EDID/CEA861B Test for                 *
*                               VX2239 SERIES                             *
*****
```

\*128 BYTES OF EDID CODE:

```
*DDC 0 1 2 3 4 5 6 7 8 9 A B C D E F
0000 00 FF FF FF FF FF FF 00 5A 63 25 52 01 01 01 01
0010 01 14 01 03 0E 30 1B 78 2E DC C5 A6 55 49 9C 25
0020 16 50 54 BF EF 80 B3 00 A9 40 95 00 90 40 81 80
0030 81 40 71 4F 01 01 02 3A 80 18 71 38 2D 40 58 2C
0040 45 00 E0 0E 11 00 00 1E 00 00 00 FF 00 52 54 43
0050 31 30 30 31 30 30 30 30 31 0A 00 00 00 FD 00 32
0060 4C 18 53 15 00 0A 20 20 20 20 20 20 00 00 00 FC
0070 00 56 58 32 32 33 39 20 53 45 52 49 45 53 00 04
```

\* EDID EXPLAIN:

```
*---- Header -----
*(0000-0007H) : [00 FF FF FF FF FF FF 00]
*---- Vendor/Product Identification -----
*(0008-0009H) : [5A 63] ID Manufacturer Name..... = VSC
*(000A-000BH) : [25 52] ID Product Code..... = 5225 (HEX)
*(000C-000FH) : [01 01 01 01] ID Serial Number..... = N/A (DEC)
*(0010H) : [01] Week of Manufacture..... = 1
*(0011H) : [14] Year of Manufacture..... = 2010
*---- Edid Version/Ravision-----
*(0012H) : [01] Version..... = 1
*(0013H) : [03] Revision..... = 3
*---- Basic Display Parameters/Features-----
*(0014H) : [0E] VIDEO INPUT DEFINITION :
*                               Signal Type..... = Analog
*                               Signal Level(Vp-p)..... = 0.700, 0.300
*                               Sparate Syncs., Composite Sync.,
*                               Sync. On Green,
*(0015H) : [30] Max. Horizontal Image Size.... = 48 cm
*(0016H) : [1B] Max. Vertical Image Size..... = 27 cm
*(0017H) : [78] Display Gamma..... = 2.20
*(0018H) : [2E] DPMS SUPPORT FEATURE :
*                               Active-Off
*                               Display type : R/G/B Color
*                               Std Default Color Space, sRGB
*                               Preferred Timing Mode
*---- Chroma Information -----
*(0019-0022H) : [DC C5 A6 55 49 9C 25 16 50 54]
*                               Red x = 0.651 Green x = 0.288 Blue x = 0.147 White x = 0.313
*                               Red y = 0.333 Green y = 0.609 Blue y = 0.086 White y = 0.329
*---- Detail Timing / Monitor Description-----
* Established Timings :
*(0023-0025H) : [BF EF 80]
*                               720 X 400 @ 70Hz
*                               640 X 480 @ 60Hz
*                               640 X 480 @ 67Hz
*                               640 X 480 @ 72Hz
*                               640 X 480 @ 75Hz
*                               800 X 600 @ 56Hz
*                               800 X 600 @ 60Hz
```

```

*      800 X 600 @ 72Hz
*      800 X 600 @ 75Hz
*      832 X 624 @ 75Hz
*      1024 X 768 @ 60Hz
*      1024 X 768 @ 70Hz
*      1024 X 768 @ 75Hz
*      1280 X 1024 @ 75Hz
*      1152 X 870 @ 75Hz
* Standard Timings :
*(0026-0035H) : [B3 00 A9 40 95 00 90 40 81 80 81 40 71 4F 01 01]
*      1680 x 1050 @ 60Hz
*      1600 x 1200 @ 60Hz
*      1440 x 900 @ 60Hz
*      1400 x 1050 @ 60Hz
*      1280 x 1024 @ 60Hz
*      1280 x 960 @ 60Hz
*      1152 x 864 @ 75Hz
*-----
* Detailed Timings #1 : Pixel Clock = 148.50 MHz
*(0036-0047H) : [02 3A 80 18 71 38 2D 40 58 2C 45 00 E0 0E 11 00 00 1E]
* Horizontal:
*      Frequency... = 67.50 KHz (+)
*      Active Time.. = 1920 pixels      Blanking Time..... = 280 pixels
*      Sync Offset.. = 88 pixels        Sync Pulse Width.. = 44 pixels
*      Border..... = 0 pixels      Image..... = 480 mm
* Vertical:
*      Frequency... = 60.00 Hz (+)
*      Active Time.. = 1080 lines      Blanking Time..... = 45 lines
*      Sync Offset.. = 4 lines        Sync Pulse Width.. = 5 lines
*      Border..... = 0 lines      Image..... = 270 mm
* Sync Configuration:
*      Non-interlaced, No Stereo, Digital Separate,
*      H. Polarity Positive, V. Polarity Positive
*---- Monitor Serial Number -----
*(0048-0059H) : [00 00 00 FF 00 52 54 43 31 30 30 31 30 30 30 30 31 0A]
*      RTC100100001
*---- Monitor Range Limits-----
*(005A-006BH) : [00 00 00 FD 00 32 4C 18 53 15 00 0A 20 20 20 20 20]
*      Vertical Frequency..... = 50-76 Hz
*      Horizontal Frequency..... = 24-83 KHz
*      Maximun Supported Pixel Clock... = 210 MHz
*      GTF - Start Frequency for Secondary Curve Not Defined
*---- Monitor Name -----
*(006C-007DH) : [00 00 00 FC 00 56 58 32 32 33 39 20 53 45 52 49 45 53]
*      VX2239 SERIES
*---- Extension flag -----
*(007EH)      : [00]                Unused Extension Block
*---- Checksum -----
*(007FH)      : [04]                Checksum OK
*
*=====
*----- End Report -----

```

Digital DVI

\*\*\*\*\*
\* View Sonic
\* Date: Wed Jun 30, 2010
\* EDID Version# 1, Revision# 3
\* DDC/EDID/CEA861B Test for
\* VX2239 SERIES
\*\*\*\*\*

\*128 BYTES OF EDID CODE:
\*DDC 0 1 2 3 4 5 6 7 8 9 A B C D E F
0000 00 FF FF FF FF FF FF 00 5A 63 25 52 01 01 01 01
0010 01 14 01 03 80 30 1B 78 2E DC C5 A6 55 49 9C 25
0020 16 50 54 BF EF 80 B3 00 A9 40 95 00 90 40 81 80
0030 81 40 71 4F 01 01 02 3A 80 18 71 38 2D 40 58 2C
0040 45 00 E0 0E 11 00 00 1E 00 00 00 FF 00 52 54 43
0050 31 30 30 31 30 30 30 31 0A 00 00 00 FD 00 32
0060 4C 18 53 12 00 0A 20 20 20 20 20 20 00 00 00 FC
0070 00 56 58 32 32 33 39 20 53 45 52 49 45 53 00 95

\* EDID EXPLAIN:

\*--- Header -----
\*(0000-0007H) : [00 FF FF FF FF FF FF 00]
\*--- Vendor/Product Identification -----
\*(0008-0009H) : [5A 63] ID Manufacturer Name..... = VSC
\*(000A-000BH) : [25 52] ID Product Code..... = 5225 (HEX)
\*(000C-000FH) : [01 01 01 01] ID Serial Number..... = N/A (DEC)
\*(0010H) : [01] Week of Manufacture..... = 1
\*(0011H) : [14] Year of Manufacture..... = 2010
\*--- Edid Version/Ravision-----
\*(0012H) : [01] Version..... = 1
\*(0013H) : [03] Revision..... = 3
\*--- Basic Display Parameters/Features-----
\*(0014H) : [80] VIDEO INPUT DEFINITION :
Signal Type..... = Digital
\*(0015H) : [30] Max. Horizontal Image Size.... = 48 cm
\*(0016H) : [1B] Max. Vertical Image Size..... = 27 cm
\*(0017H) : [78] Display Gamma..... = 2.20
\*(0018H) : [2E] DPMS SUPPORT FEATURE :
Active-Off
Display type : R/G/B Color
Std Default Color Space, sRGB
Preferred Timing Mode

\*--- Chroma Information -----
\*(0019-0022H) : [DC C5 A6 55 49 9C 25 16 50 54]
\* Red x = 0.651 Green x = 0.288 Blue x = 0.147 White x = 0.313
\* Red y = 0.333 Green y = 0.609 Blue y = 0.086 White y = 0.329

\*--- Detail Timing / Monitor Description-----
\* Established Timings :
\*(0023-0025H) : [BF EF 80]
\* 720 X 400 @ 70Hz
\* 640 X 480 @ 60Hz
\* 640 X 480 @ 67Hz
\* 640 X 480 @ 72Hz
\* 640 X 480 @ 75Hz
\* 800 X 600 @ 56Hz
\* 800 X 600 @ 60Hz
\* 800 X 600 @ 72Hz
\* 800 X 600 @ 75Hz
\* 832 X 624 @ 75Hz
\* 1024 X 768 @ 60Hz
\* 1024 X 768 @ 70Hz

```

*          1024 X 768 @ 75Hz
*          1280 X1024 @ 75Hz
*          1152 X 870 @ 75Hz
* Standard Timings :
*(0026-0035H) : [B3 00 A9 40 95 00 90 40 81 80 81 40 71 4F 01 01]
*          1680 x 1050 @ 60Hz
*          1600 x 1200 @ 60Hz
*          1440 x 900 @ 60Hz
*          1400 x 1050 @ 60Hz
*          1280 x 1024 @ 60Hz
*          1280 x 960 @ 60Hz
*          1152 x 864 @ 75Hz
*-----
* Detailed Timings #1 : Pixel Clock = 148.50 MHz
*(0036-0047H) : [02 3A 80 18 71 38 2D 40 58 2C 45 00 E0 0E 11 00 00 1E]
* Horizontal:
*          Frequency.... = 67.50 KHz (+)
*          Active Time.. = 1920 pixels   Blanking Time..... = 280 pixels
*          Sync Offset.. = 88 pixels   Sync Pulse Width.. = 44 pixels
*          Border..... = 0 pixels Image..... = 480 mm
* Vertical:
*          Frequency.... = 60.00 Hz (+)
*          Active Time.. = 1080 lines Blanking Time..... = 45 lines
*          Sync Offset.. = 4 lines Sync Pulse Width.. = 5 lines
*          Border..... = 0 lines Image..... = 270 mm
* Sync Configuration:
*          Non-interlaced, No Stereo, Digital Separate,
*          H. Polarity Positive, V. Polarity Positive
*---- Monitor Serial Number -----
*(0048-0059H) : [00 00 00 FF 00 52 54 43 31 30 30 31 30 30 30 30 31 0A]
*          RTC100100001
*---- Monitor Range Limits-----
*(005A-006BH) : [00 00 00 FD 00 32 4C 18 53 12 00 0A 20 20 20 20 20]
*          Vertical Frequency..... = 50-76 Hz
*          Horizontal Frequency..... = 24-83 KHz
*          Maximun Supported Pixel Clock... = 180 MHz
*          GTF - Start Frequency for Secondary Curve Not Defined
*---- Monitor Name -----
*(006C-007DH) : [00 00 00 FC 00 56 58 32 32 33 39 20 53 45 52 49 45 53]
*          VX2239 SERIES
*---- Extension flag -----
*(007EH) : [00] Unused Extension Block
*---- Checksum -----
*(007FH) : [95] Checksum OK
*
*=====
*----- End Report -----

```

Digital HDMI:

```

*****
*                               View Sonic                               *
*                               Date: Wed Jun 30, 2010                   *
*                               EDID Version# 1, Revision# 3             *
*                               DDC/EDID/CEA861B Test for                 *
*                               VX2239 SERIES                             *
*****

```

\*128 BYTES OF EDID CODE:

```

*DDC 0 1 2 3 4 5 6 7 8 9 A B C D E F
0000 00 FF FF FF FF FF FF 00 5A 63 25 52 01 01 01 01
0010 01 14 01 03 80 30 1B 78 2E DC C5 A6 55 49 9C 25
0020 16 50 54 BF EF 80 B3 00 A9 40 95 00 90 40 81 80
0030 81 40 71 4F 01 01 02 3A 80 18 71 38 2D 40 58 2C
0040 45 00 E0 0E 11 00 00 1E 00 00 00 FF 00 52 54 43
0050 31 30 30 31 30 30 30 30 31 0A 00 00 00 FD 00 32
0060 4C 0F 53 12 00 0A 20 20 20 20 20 20 00 00 00 FC
0070 00 56 58 32 32 33 39 20 53 45 52 49 45 53 01 9D

```

\*128 BYTES OF EXTENSION EDID CODE: #1

```

*DDC 0 1 2 3 4 5 6 7 8 9 A B C D E F
0080 02 03 26 F1 53 90 05 04 03 02 0F 0E 07 06 01 1F
0090 14 13 12 11 1E 1D 16 15 23 09 7F 07 83 01 00 00
00A0 65 03 0C 00 10 00 02 3A 80 18 71 38 2D 40 58 2C
00B0 45 00 E0 0E 11 00 00 1E 01 1D 80 18 71 1C 16 20
00C0 58 2C 25 00 E0 0E 11 00 00 9E 01 1D 00 72 51 D0
00D0 1E 20 6E 28 55 00 E0 0E 11 00 00 1E 8C 0A D0 8A
00E0 20 E0 2D 10 10 3E 96 00 E0 0E 11 00 00 18 00 00
00F0 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 91

```

\* EDID EXPLAIN:

```

*---- Header -----
*(0000-0007H) : [00 FF FF FF FF FF FF 00]
*---- Vendor/Product Identification -----
*(0008-0009H) : [5A 63] ID Manufacturer Name..... = VSC
*(000A-000BH) : [25 52] ID Product Code..... = 5225 (HEX)
*(000C-000FH) : [01 01 01 01] ID Serial Number..... = N/A (DEC)
*(0010H) : [01] Week of Manufacture..... = 1
*(0011H) : [14] Year of Manufacture..... = 2010
*---- Edid Version/Ravision-----
*(0012H) : [01] Version..... = 1
*(0013H) : [03] Revision..... = 3
*---- Basic Display Parameters/Features-----
*(0014H) : [80] VIDEO INPUT DEFINITION :
* Signal Type..... = Digital
*(0015H) : [30] Max. Horizontal Image Size.... = 48 cm
*(0016H) : [1B] Max. Vertical Image Size..... = 27 cm
*(0017H) : [78] Display Gamma..... = 2.20
*(0018H) : [2E] DPMS SUPPORT FEATURE :
* Active-Off
* Display type : R/G/B Color
* Std Default Color Space, sRGB
* Preferred Timing Mode
*---- Chroma Information -----
*(0019-0022H) : [DC C5 A6 55 49 9C 25 16 50 54]
* Red x = 0.651 Green x = 0.288 Blue x = 0.147 White x = 0.313
* Red y = 0.333 Green y = 0.609 Blue y = 0.086 White y = 0.329
*---- Detail Timing / Monitor Description-----
* Established Timings :
*(0023-0025H) : [BF EF 80]
* 720 X 400 @ 70Hz

```

\* 640 X 480 @ 60Hz  
 \* 640 X 480 @ 67Hz  
 \* 640 X 480 @ 72Hz  
 \* 640 X 480 @ 75Hz  
 \* 800 X 600 @ 56Hz  
 \* 800 X 600 @ 60Hz  
 \* 800 X 600 @ 72Hz  
 \* 800 X 600 @ 75Hz  
 \* 832 X 624 @ 75Hz  
 \* 1024 X 768 @ 60Hz  
 \* 1024 X 768 @ 70Hz  
 \* 1024 X 768 @ 75Hz  
 \* 1280 X 1024 @ 75Hz  
 \* 1152 X 870 @ 75Hz

\* Standard Timings :

\*(0026-0035H) : [B3 00 A9 40 95 00 90 40 81 80 81 40 71 4F 01 01]

\* 1680 x 1050 @ 60Hz  
 \* 1600 x 1200 @ 60Hz  
 \* 1440 x 900 @ 60Hz  
 \* 1400 x 1050 @ 60Hz  
 \* 1280 x 1024 @ 60Hz  
 \* 1280 x 960 @ 60Hz  
 \* 1152 x 864 @ 75Hz

\* Detailed Timings #1 : Pixel Clock = 148.50 MHz

\*(0036-0047H) : [02 3A 80 18 71 38 2D 40 58 2C 45 00 E0 0E 11 00 00 1E]

\* Horizontal:

\* Frequency.... = 67.50 KHz (+)  
 \* Active Time.. = 1920 pixels Blanking Time..... = 280 pixels  
 \* Sync Offset.. = 88 pixels Sync Pulse Width.. = 44 pixels  
 \* Border..... = 0 pixels Image..... = 480 mm

\* Vertical:

\* Frequency.... = 60.00 Hz (+)  
 \* Active Time.. = 1080 lines Blanking Time..... = 45 lines  
 \* Sync Offset.. = 4 lines Sync Pulse Width.. = 5 lines  
 \* Border..... = 0 lines Image..... = 270 mm

\* Sync Configuration:

\* Non-interlaced, No Stereo, Digital Separate,  
 \* H. Polarity Positive, V. Polarity Positive

\*---- Monitor Serial Number -----

\*(0048-0059H) : [00 00 00 FF 00 52 54 43 31 30 30 31 30 30 30 31 0A]

\* RTC100100001

\*---- Monitor Range Limits-----

\*(005A-006BH) : [00 00 00 FD 00 32 4C 0F 53 12 00 0A 20 20 20 20 20]

\* Vertical Frequency..... = 50-76 Hz  
 \* Horizontal Frequency..... = 15-83 KHz  
 \* Maximun Supported Pixel Clock... = 180 MHz  
 \* GTF - Start Frequency for Secondary Curve Not Defined

\*---- Monitor Name -----

\*(006C-007DH) : [00 00 00 FC 00 56 58 32 32 33 39 20 53 45 52 49 45 53]

\* VX2239 SERIES

\*---- Extension flag -----

\*(007EH) : [01] Used 1 Extension Block

\*---- Checksum -----

\*(007FH) : [9D] Checksum OK

=====

\* Extension Block (1) BYTE from 0080H-00FFH

\* EXTENSION EDID EXPLAIN:

\*----- Header And Version-----

\*(0080-0081H) : [02 03] Extension data is CEA Edid data Version 3

\*---- Assign begin detailed block-----

```

*(0082H) : [26] Detailed block offset..... = 26 H
*---- Native Format Described -----
*(0083H) : [F1]
* DTV Monitor supports underscan
* DTV Monitor supports basic audio
* DTV Monitor supports YCbCr 4:4:4 in addition to RGB
* DTV Monitor supports YCbCr 4:2:2 in addition to RGB
* Total number of native formats described : 1
*---- Data Block Collection -----
*(0084-0097H) : [53 90 05 04 03 02 0F 0E 07 06 01 1F 14 13 12 11 1E
* 1D 16 15]
* [Video Data Block] Block length is 19 Byte(s)
* (1) 1920x1080p 59.94/60Hz 16:9 Native Apply
* (2) 1920x1080i 59.94/60Hz 16:9
* (3) 1280x720p 59.94/60Hz 16:9
* (4) 720x480p 59.94/60Hz 16:9
* (5) 720x480p 59.94/60Hz 4:3
* (6) 1440x480p 59.94/60Hz 16:9
* (7) 1440x480p 59.94/60Hz 4:3
* (8) 720(1440)x480i 59.94/60Hz 16:9
* (9) 720(1440)x480i 59.94/60Hz 4:3
* (10) 640x480p 59.94/60Hz 4:3
* (11) 1920x1080p 50Hz 16:9
* (12) 1920x1080i 50Hz 16:9
* (13) 1280x720p 50Hz 16:9
* (14) 720x576p 50Hz 16:9
* (15) 720x576p 50Hz 4:3
* (16) 1440x576p 50Hz 16:9
* (17) 1440x576p 50Hz 4:3
* (18) 720(1440)x576i 50Hz 16:9
* (19) 720(1440)x576i 50Hz 4:3
*(0098-009BH) : [23 09 7F 07]
* [Audio Data Block] Block length is 3 Byte(s)
* Sub Block : 1
* Audio Format is Linear PCM (Uncompressed audio)
* Maximum number of channels = 2
* Sample rate supported : 32KHz 44KHz 48KHz 88KHz 96KHz 176KHz 192KHz
* Bit : 16bits 20bits 24bits
*(009C-009FH) : [83 01 00 00]
* [Speaker Allocation Data Block] Block length is 3 Byte(s)
* Speaker Allocation : FL/FR,
*(00A0-00A5H) : [65 03 0C 00 10 00]
* [Vendor Specific Data Block] Block length is 5 Byte(s)
* Registration Identifier : 0x26F153
* Address : 1.0.0.0
*-----
* Detailed Timings #1 : Pixel Clock = 148.50 MHz
*(00A6-00B7H) : [02 3A 80 18 71 38 2D 40 58 2C 45 00 E0 0E 11 00 00 1E]
* Horizontal:
* Frequency.... = 67.50 KHz (+)
* Active Time.. = 1920 pixels Blanking Time..... = 280 pixels
* Sync Offset.. = 88 pixels Sync Pulse Width.. = 44 pixels
* Border..... = 0 pixels Image..... = 480 mm
* Vertical:
* Frequency.... = 60.00 Hz (+)
* Active Time.. = 1080 lines Blanking Time..... = 45 lines
* Sync Offset.. = 4 lines Sync Pulse Width.. = 5 lines
* Border..... = 0 lines Image..... = 270 mm
* Sync Configuration:
* Non-interlaced, No Stereo, Digital Separate,
* H. Polarity Positive, V. Polarity Positive
*-----
* Detailed Timings #2 : Pixel Clock = 74.25 MHz

```

```

*(00B8-00C9H) : [01 1D 80 18 71 1C 16 20 58 2C 25 00 E0 0E 11 00 00 9E]
* Horizontal:
*   Frequency.... = 33.75 KHz (+)
*   Active Time.. = 1920 pixels   Blanking Time..... = 280 pixels
*   Sync Offset.. = 88 pixels    Sync Pulse Width.. = 44 pixels
*   Border..... = 0 pixels Image..... = 480 mm
* Vertical:
*   Frequency.... = 60.05 Hz (+)
*   Active Time.. = 540 lines   Blanking Time..... = 22 lines
*   Sync Offset.. = 2 lines    Sync Pulse Width.. = 5 lines
*   Border..... = 0 lines Image..... = 270 mm
* Sync Configuration:
*   Interlaced, No Stereo, Digital Separate,
*   H. Polarity Positive, V. Polarity Positive
*-----
* Detailed Timings #3 : Pixel Clock = 74.25 MHz
*(00CA-00DBH) : [01 1D 00 72 51 D0 1E 20 6E 28 55 00 E0 0E 11 00 00 1E]
* Horizontal:
*   Frequency.... = 45.00 KHz (+)
*   Active Time.. = 1280 pixels   Blanking Time..... = 370 pixels
*   Sync Offset.. = 110 pixels   Sync Pulse Width.. = 40 pixels
*   Border..... = 0 pixels Image..... = 480 mm
* Vertical:
*   Frequency.... = 60.00 Hz (+)
*   Active Time.. = 720 lines   Blanking Time..... = 30 lines
*   Sync Offset.. = 5 lines    Sync Pulse Width.. = 5 lines
*   Border..... = 0 lines Image..... = 270 mm
* Sync Configuration:
*   Non-interlaced, No Stereo, Digital Separate,
*   H. Polarity Positive, V. Polarity Positive
*-----
* Detailed Timings #4 : Pixel Clock = 27.00 MHz
*(00DC-00EDH) : [8C 0A D0 8A 20 E0 2D 10 10 3E 96 00 E0 0E 11 00 00 18]
* Horizontal:
*   Frequency.... = 31.47 KHz (-)
*   Active Time.. = 720 pixels   Blanking Time..... = 138 pixels
*   Sync Offset.. = 16 pixels   Sync Pulse Width.. = 62 pixels
*   Border..... = 0 pixels Image..... = 480 mm
* Vertical:
*   Frequency.... = 59.94 Hz (-)
*   Active Time.. = 480 lines   Blanking Time..... = 45 lines
*   Sync Offset.. = 9 lines    Sync Pulse Width.. = 6 lines
*   Border..... = 0 lines Image..... = 270 mm
* Sync Configuration:
*   Non-interlaced, No Stereo, Digital Separate,
*   H. Polarity Negative, V. Polarity Negative
*---- Checksum -----
*(00FFH) : [91]          Checksum OK
*-----
*----- End Report -----

```

## 5-9. Disassembly Instructions

Follow the steps as below to disassemble the monitor, for example : VA2231wma

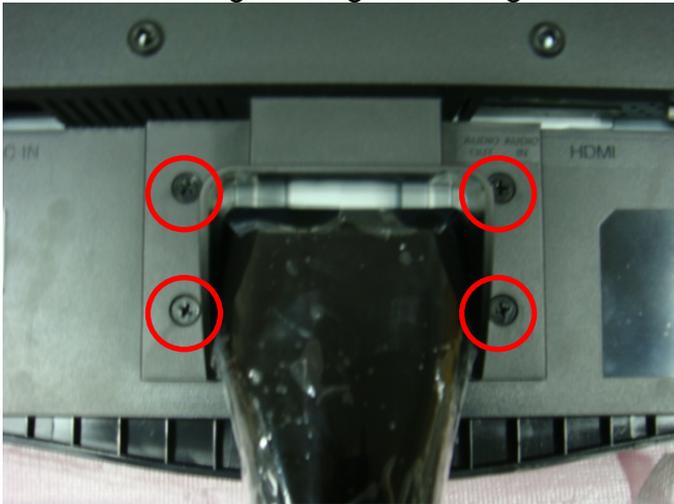
### 1. Face down the Monitor

Face down the monitor on a smooth plane with a soft material for protecting the faceplate



### 2. Remove the Hinge

Remove the hinge through removing the 4 fixed screws.(Red circle)Then pull over the hinge.



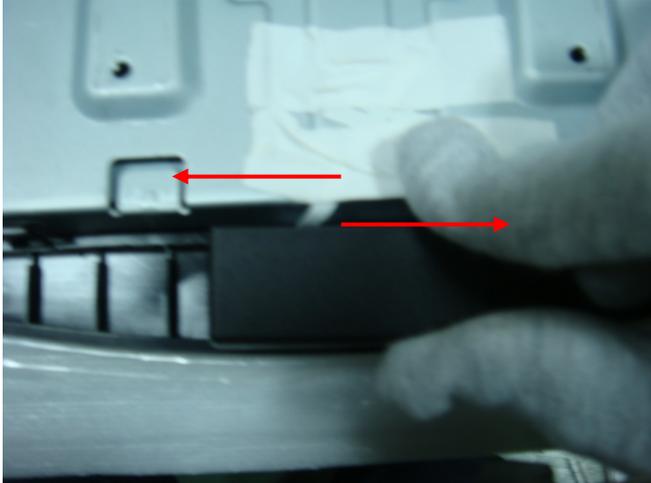
### 3.Remove the Back cover

Take the bottom side apart between front cover and back cover, and then remove back cover

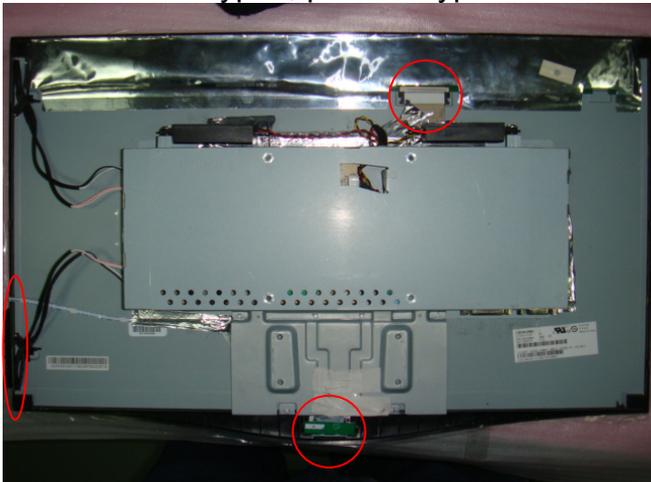


#### 4. Separate the metal cover and panel

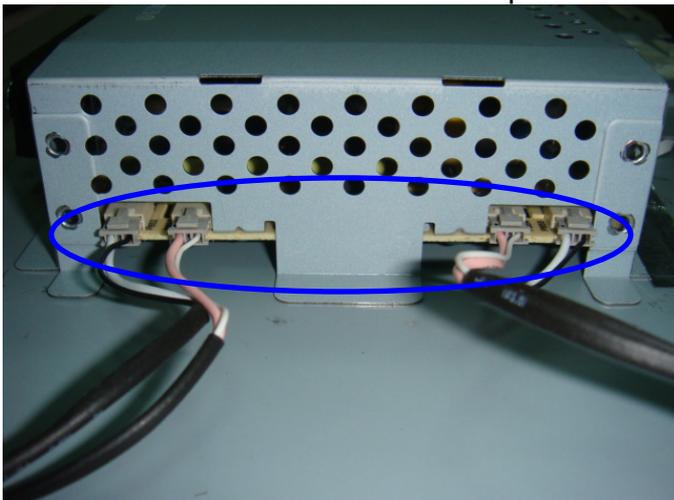
##### 4.1 Remove Power Bottom Cover (Push Left then right)



##### 4.2 Remove keypad, power keypad and LVDS (Red circle)



##### 4.3 Pull out the 2 connectors of lamp wire carefully (Blue circle)



4.4 Pull down the Front Cover to separate the metal cover and panel



4.5 Separate the metal cover and panel

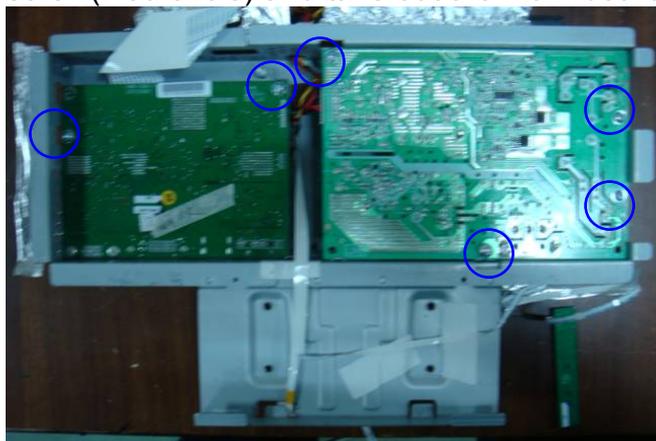


4.6 Release five hooks to remove panel



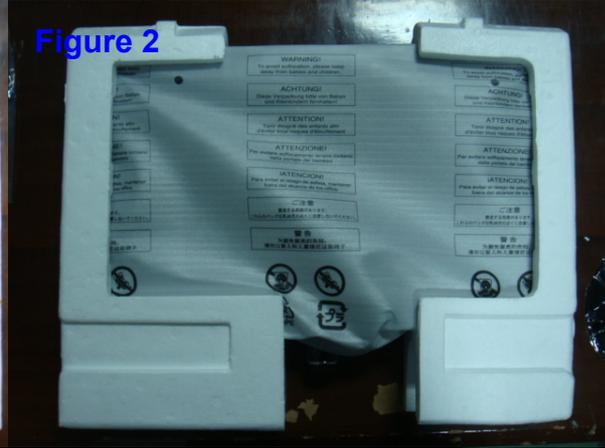
### 5. Take out the PCB

Remove 6 fixed screws carefully (Blue circle) & loosen the 4 hexagonal bolt screws & 1 screw (Red circle) and take out the main board & power board

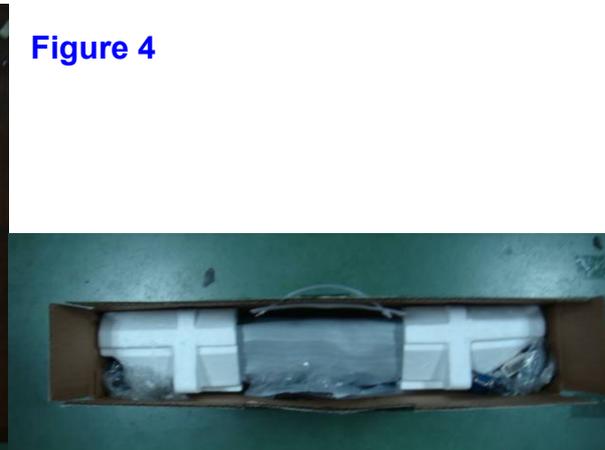


## 5-10 Packing For Shipping Procedure

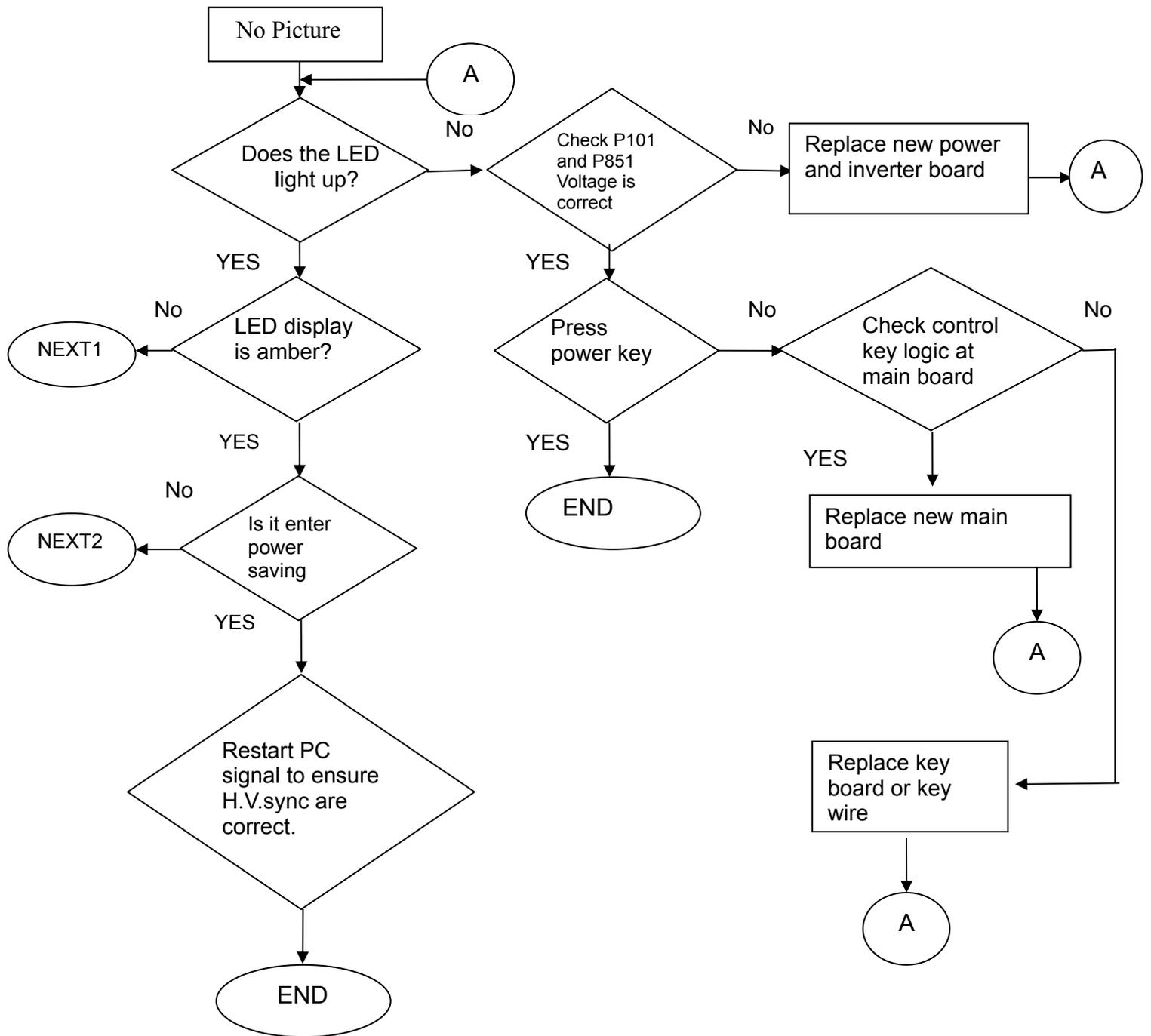
1. Separate Stand from the Unit (Figure 1)
2. Put the monitor in the PE bag seal the bag with tape (Figure 2)

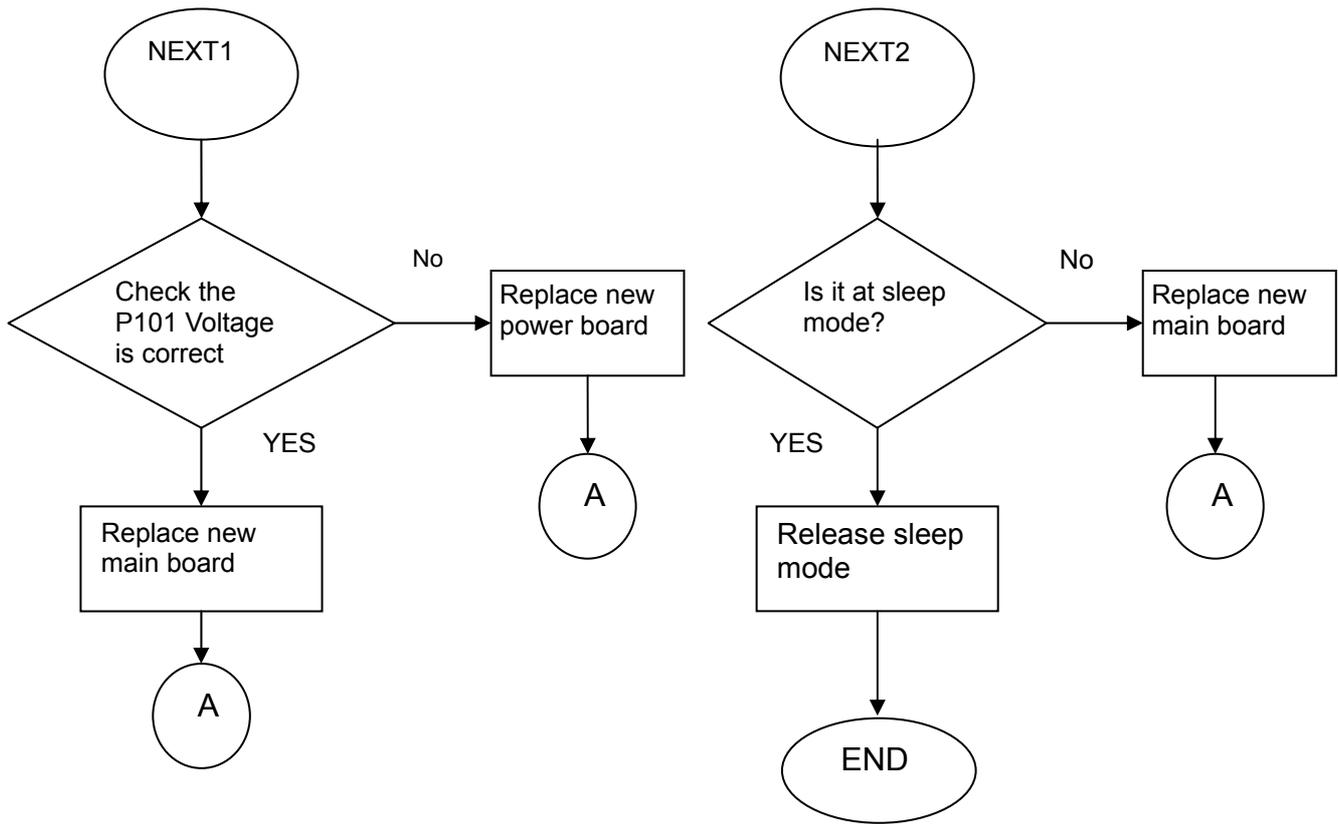


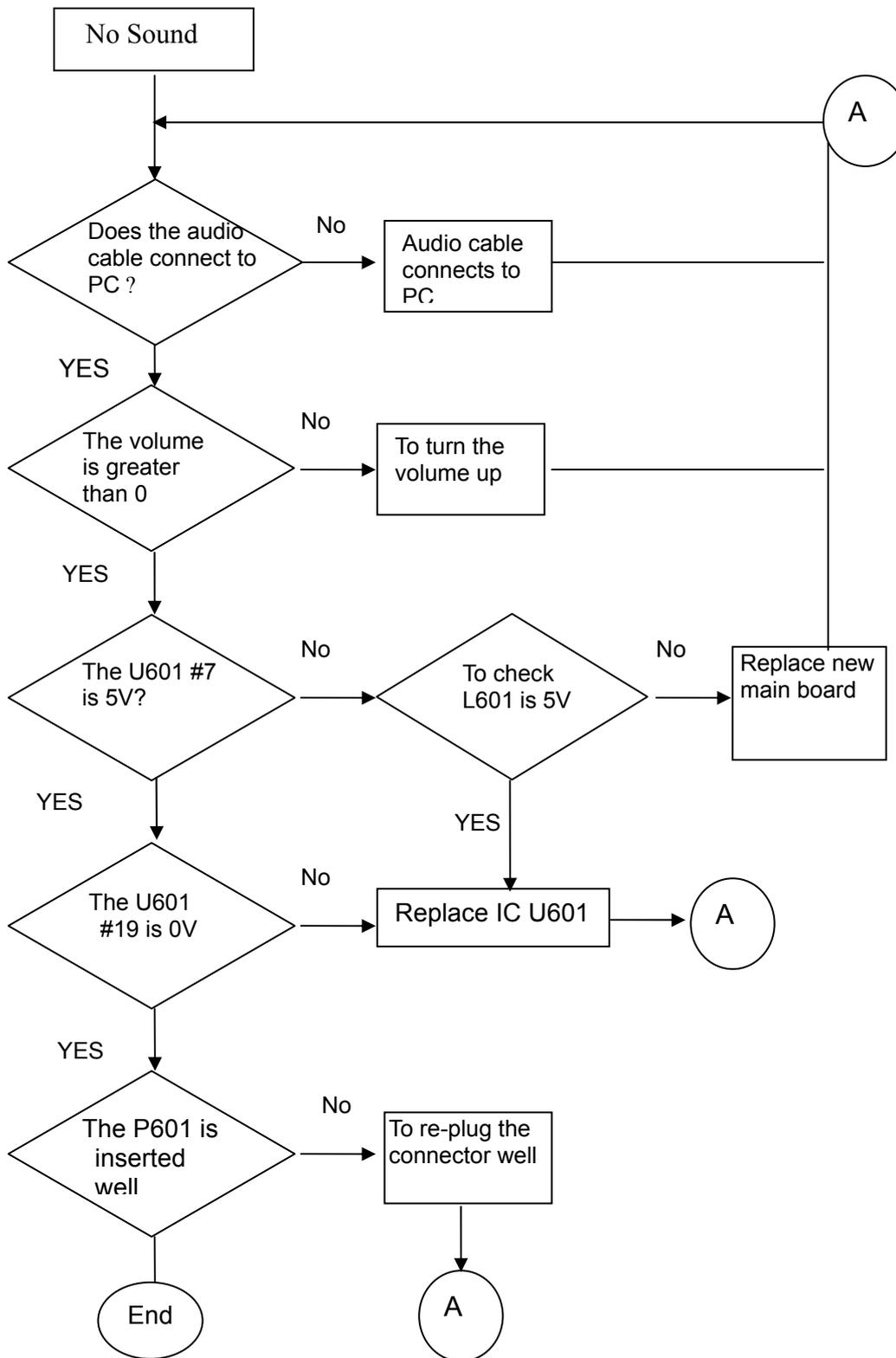
3. Put the cushions on the monitor. (Figure 3)
4. Place the monitor into the carton and then put all the accessories into the box. & seal the carton with tape. (Figure 4)



# 6. Troubleshooting Flow Chart

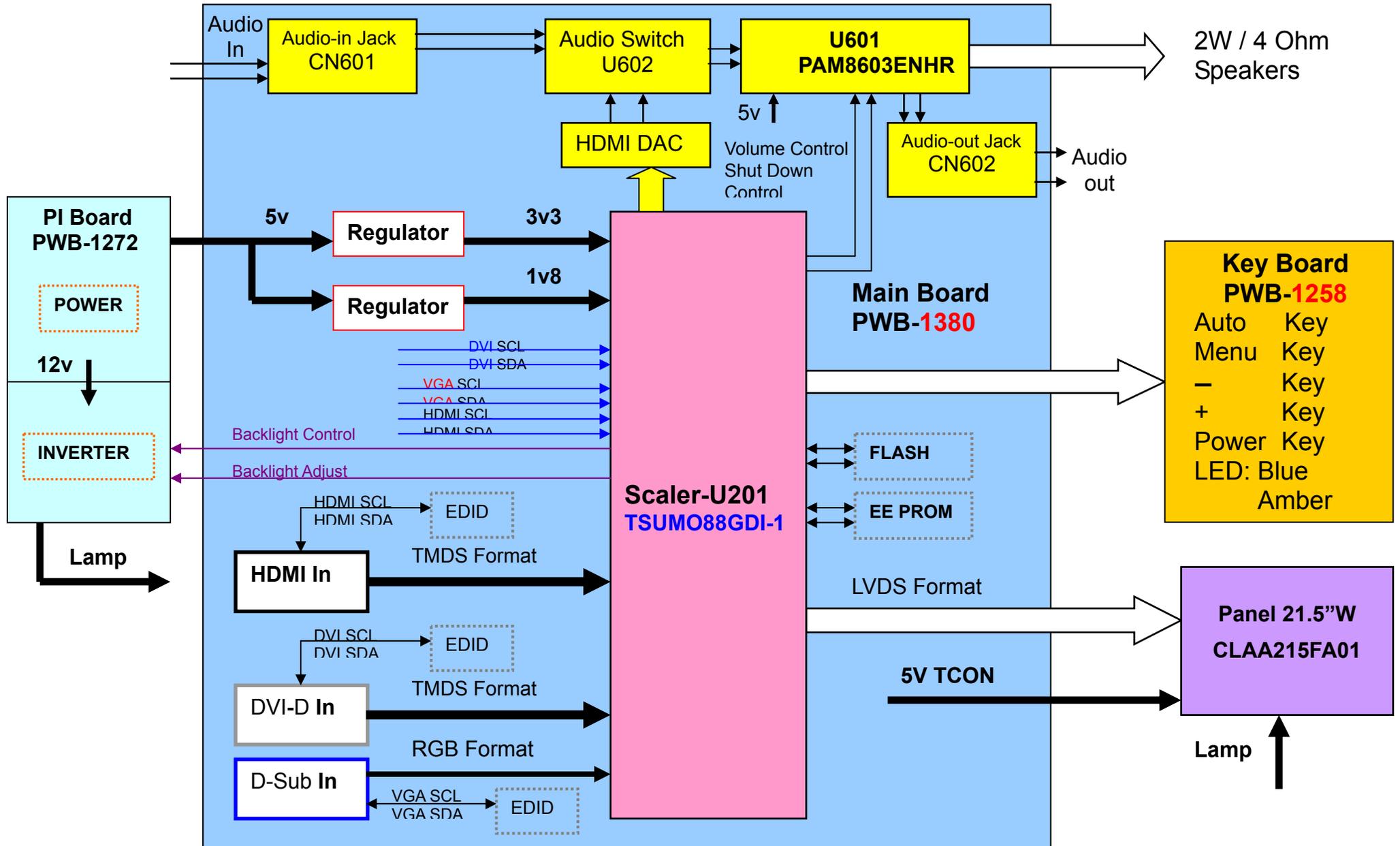




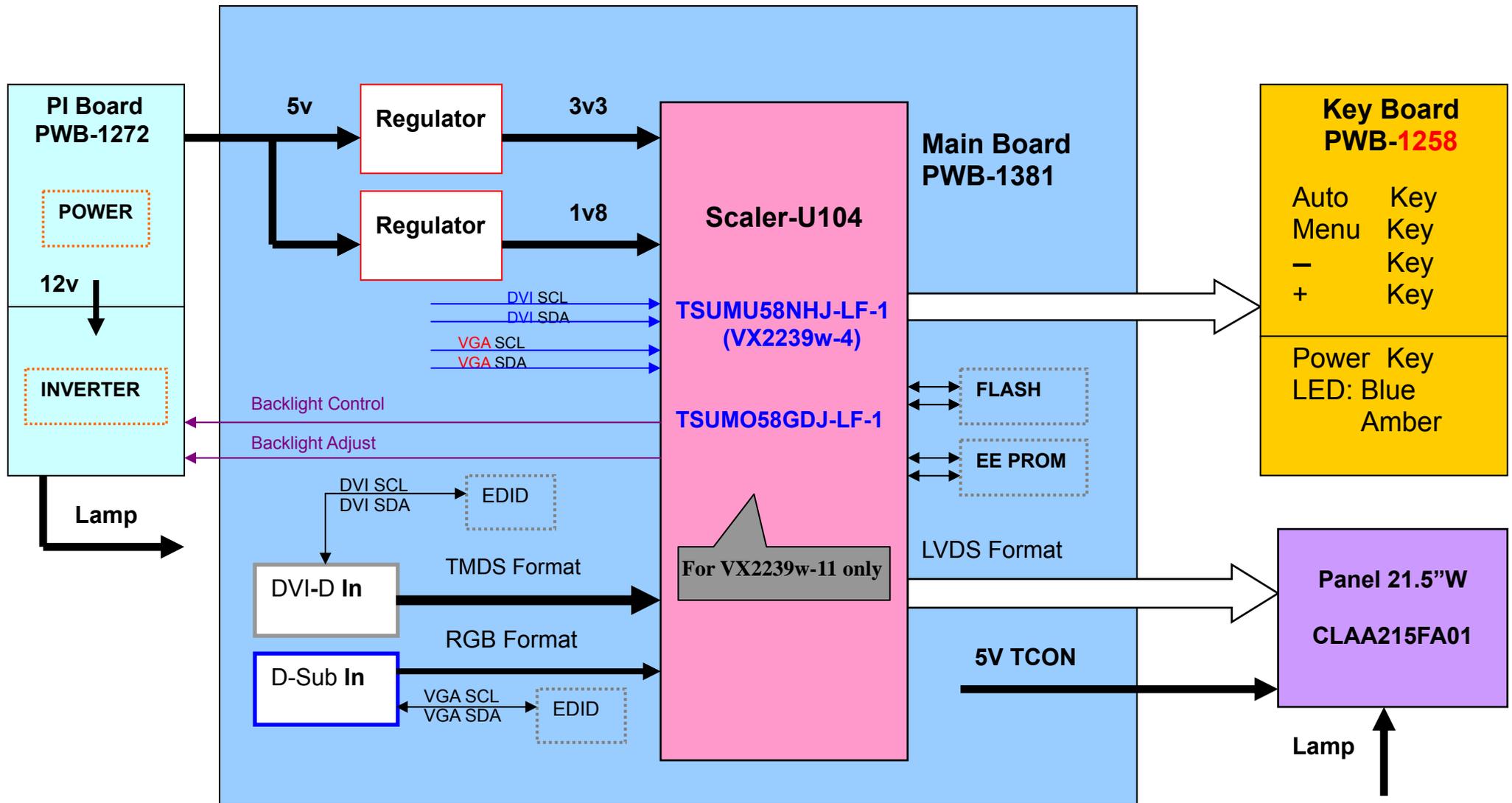


# 7. Block Diagram

## 7-1. VX2239wm

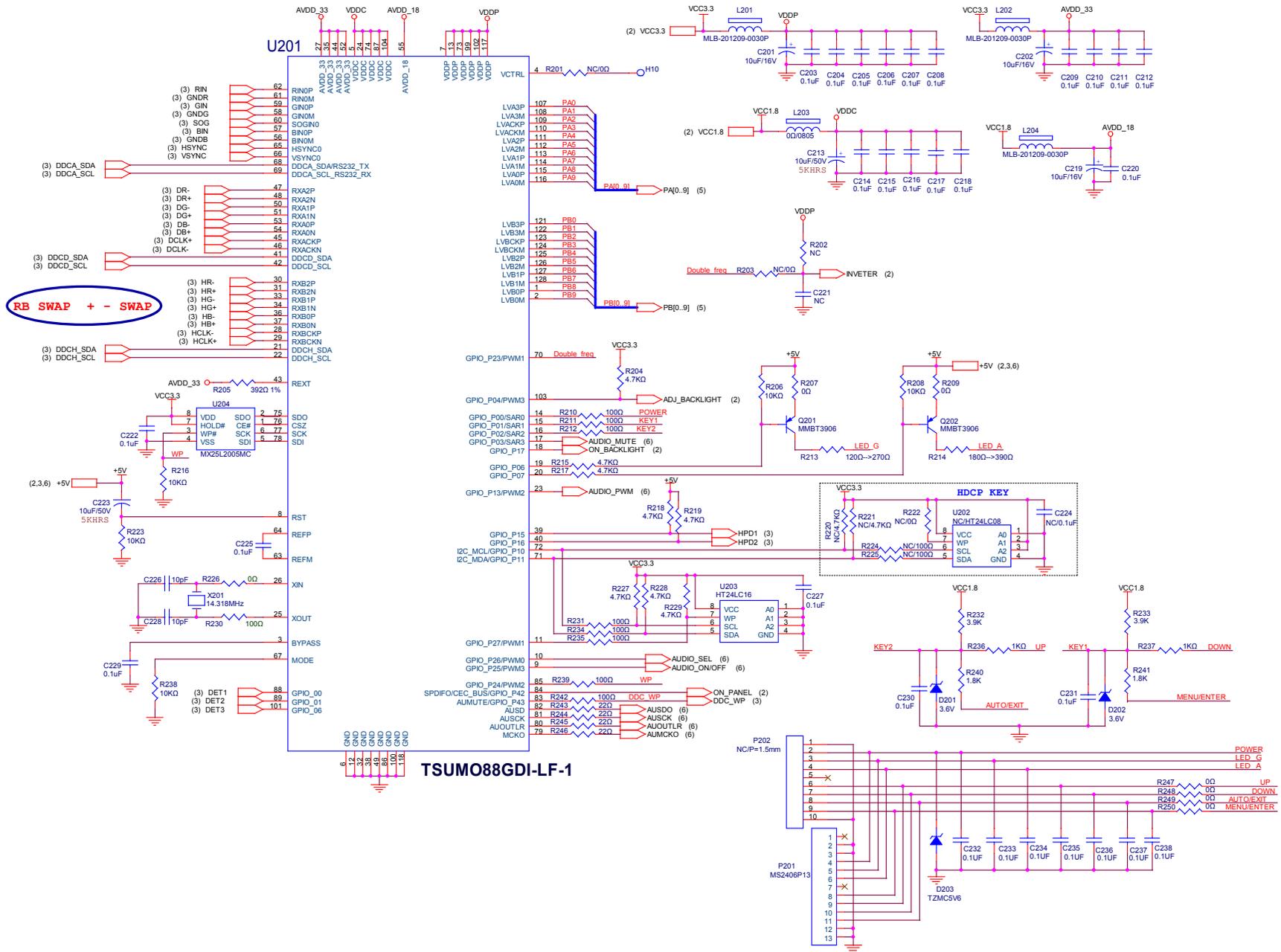


7-2. VX2239w-4 & VX2239w-11



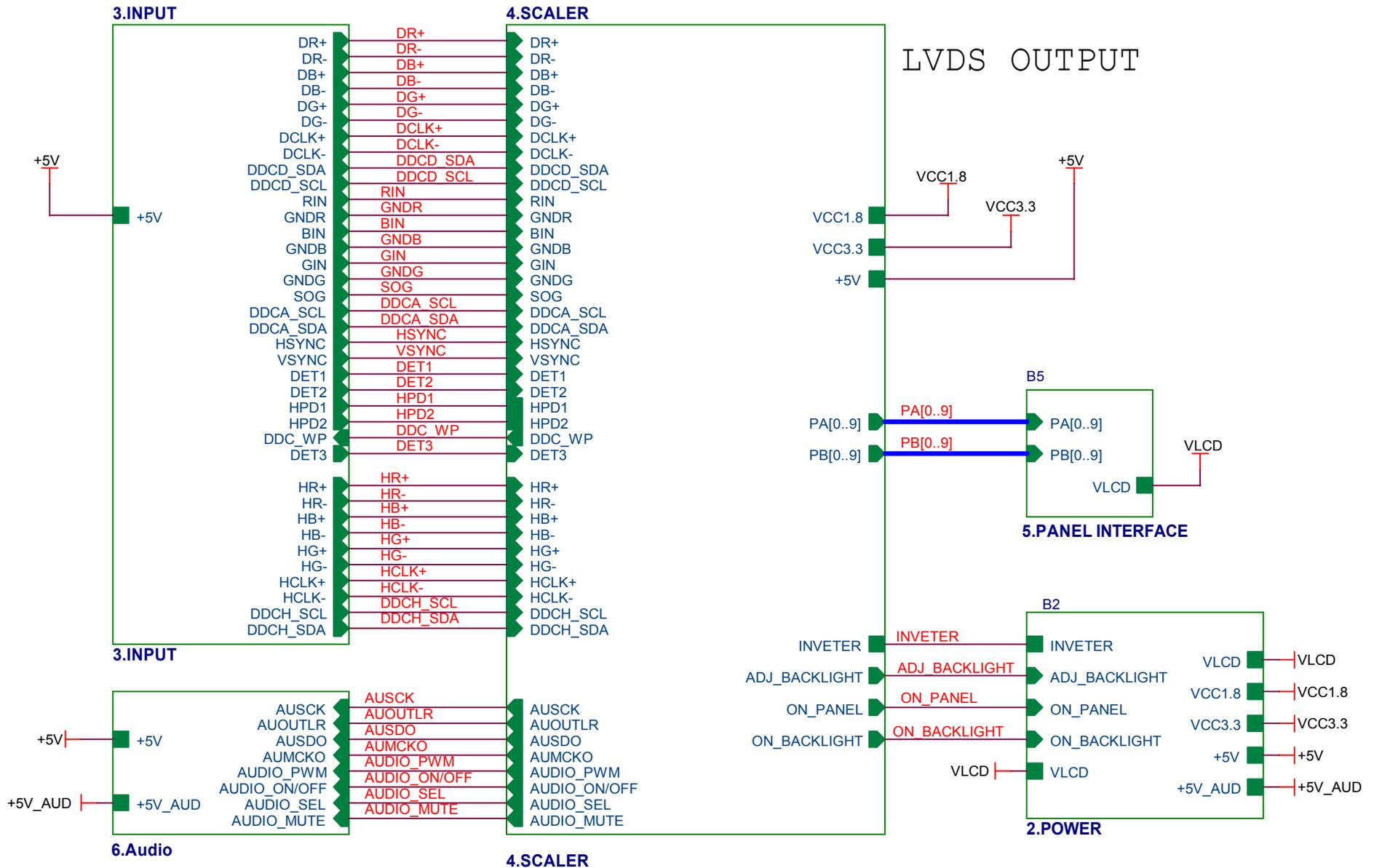
# 8. Schematic Diagrams

SCALER

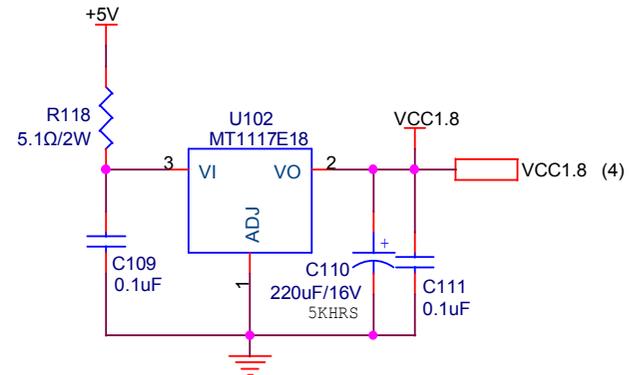
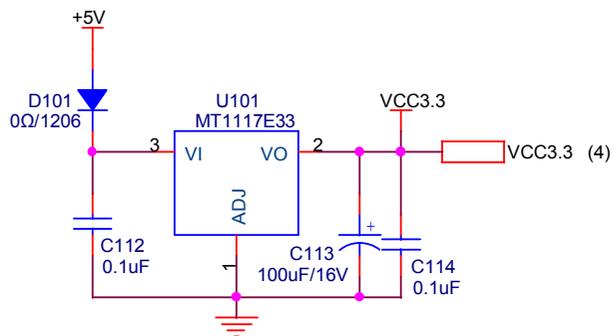
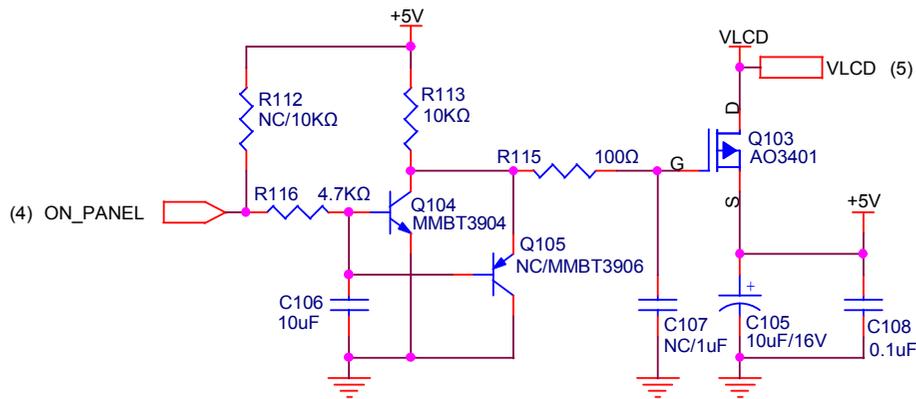
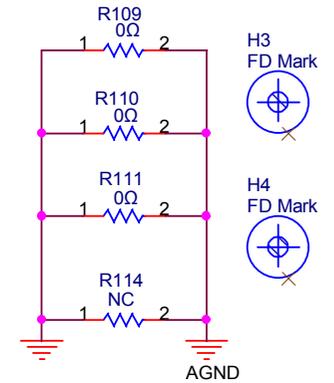
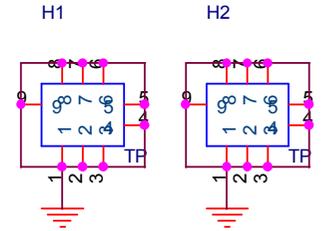
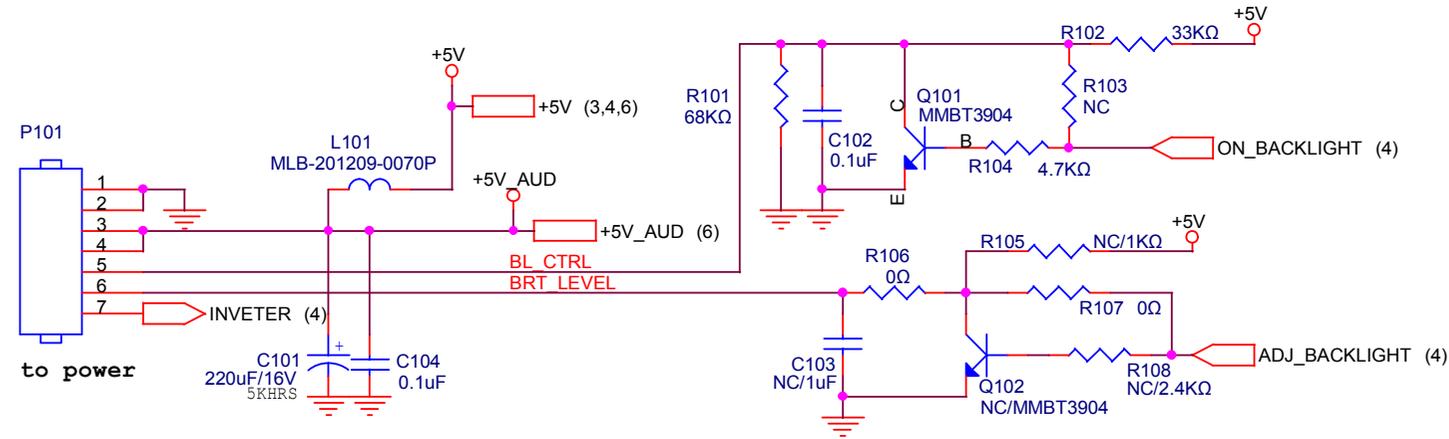


**BLOCK DIAGRAM**

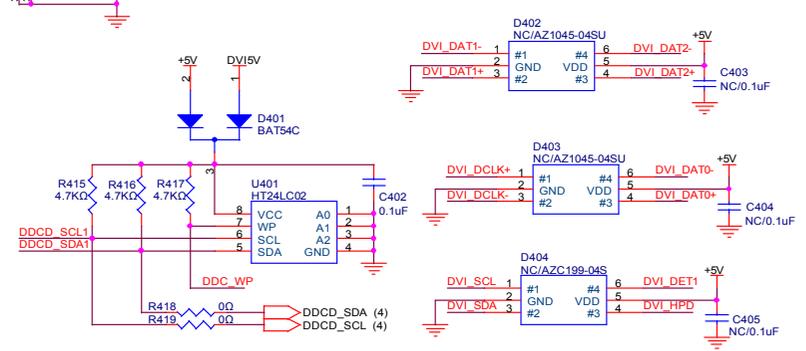
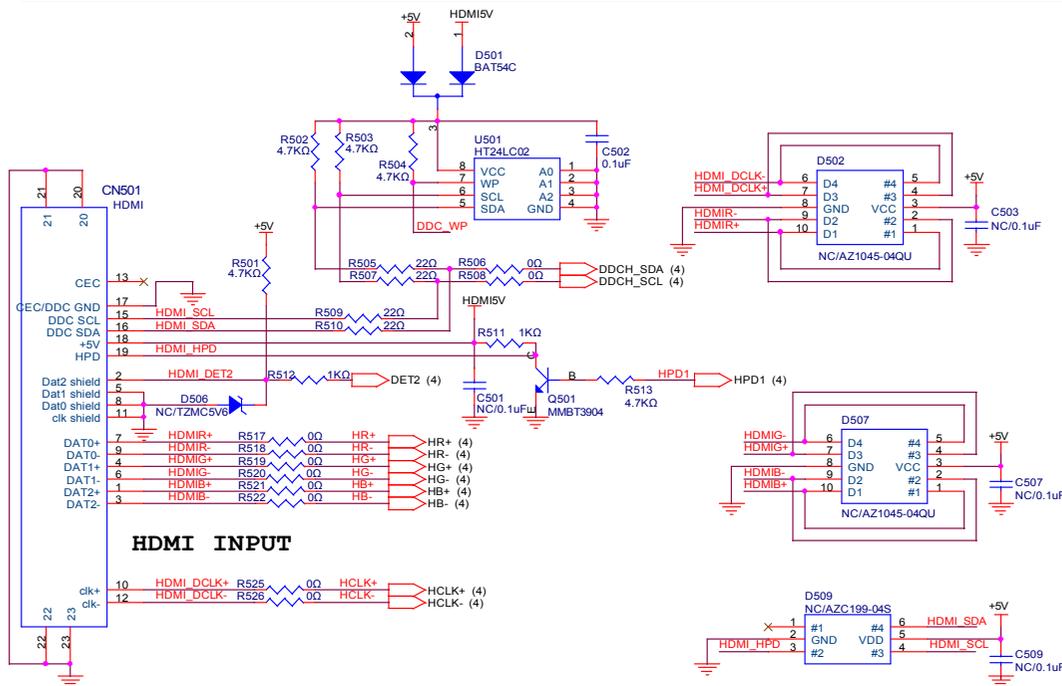
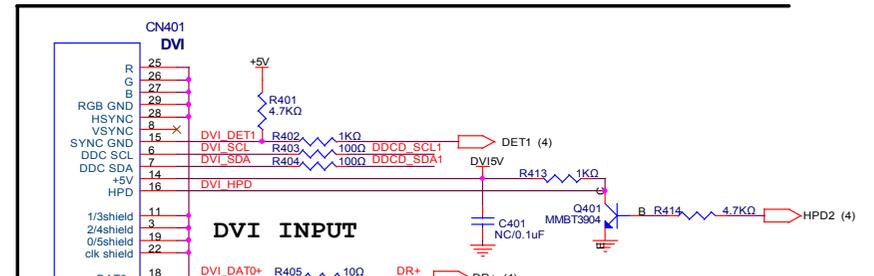
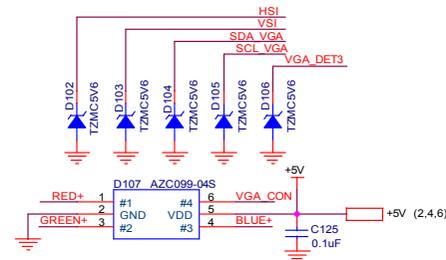
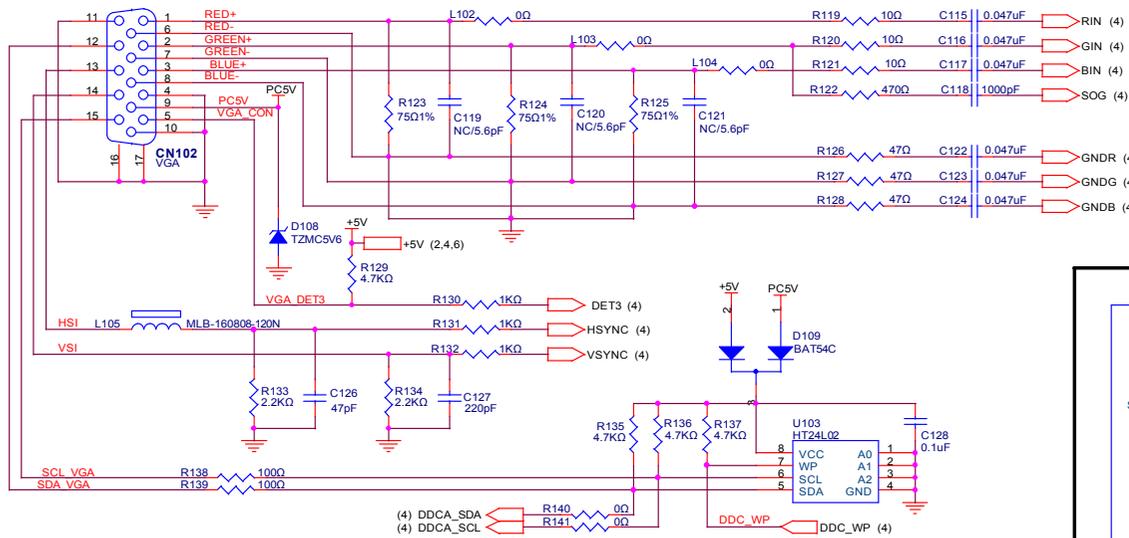
**XGA/SXGA/UXGA**



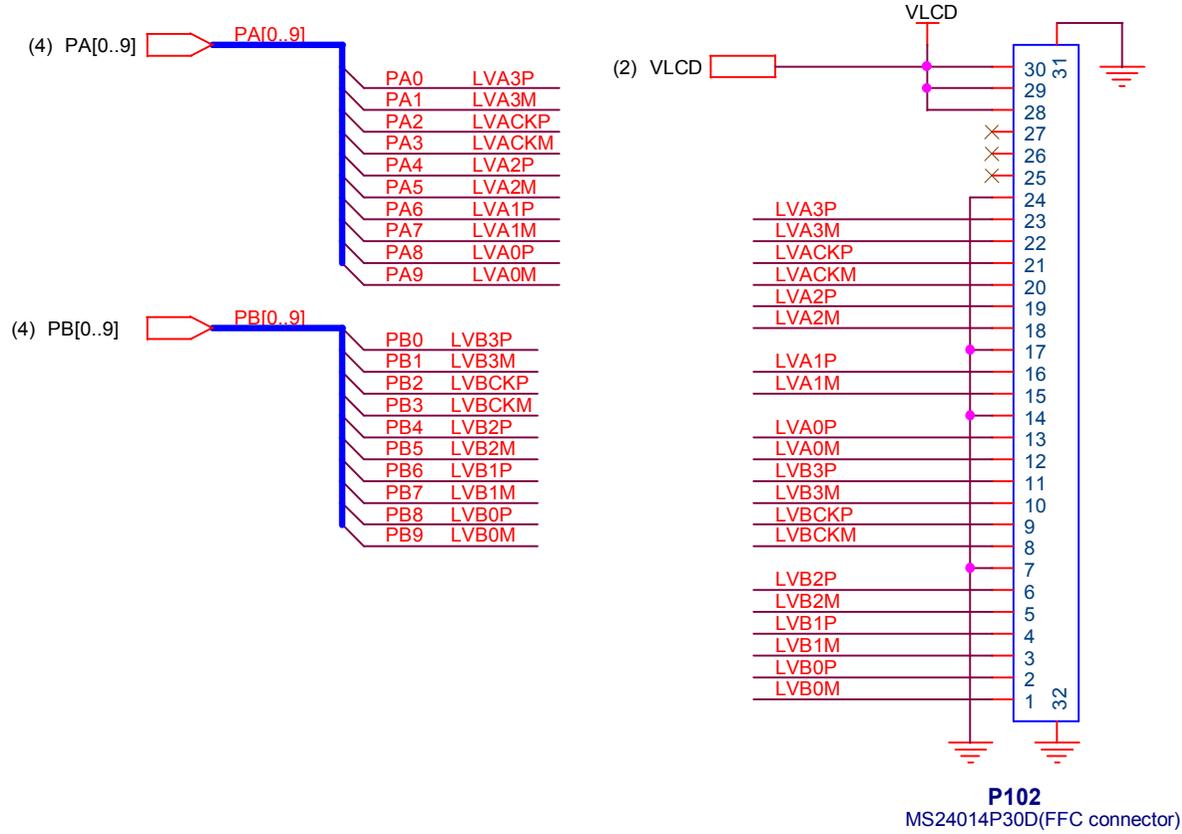
**POWER**



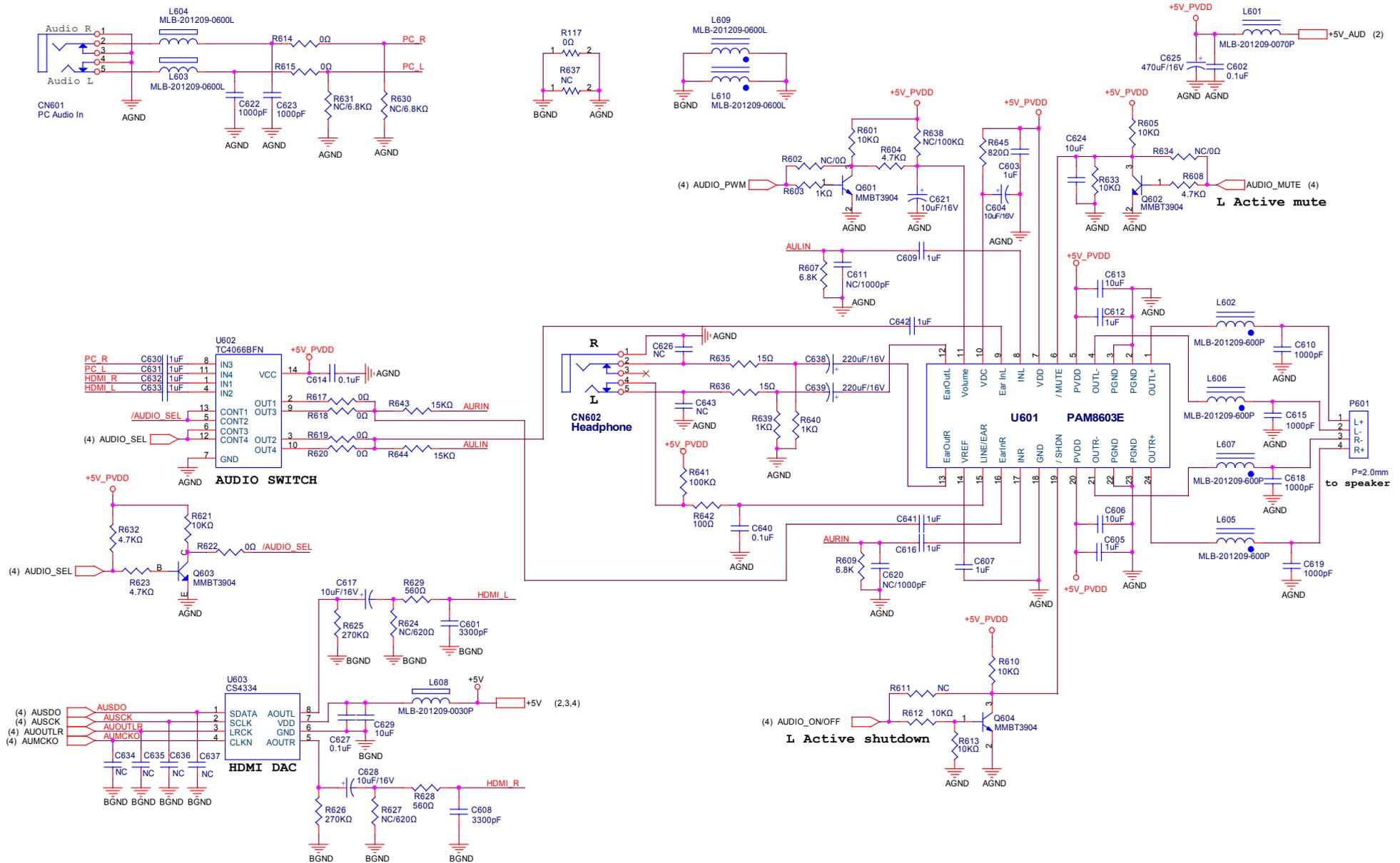
INPUT



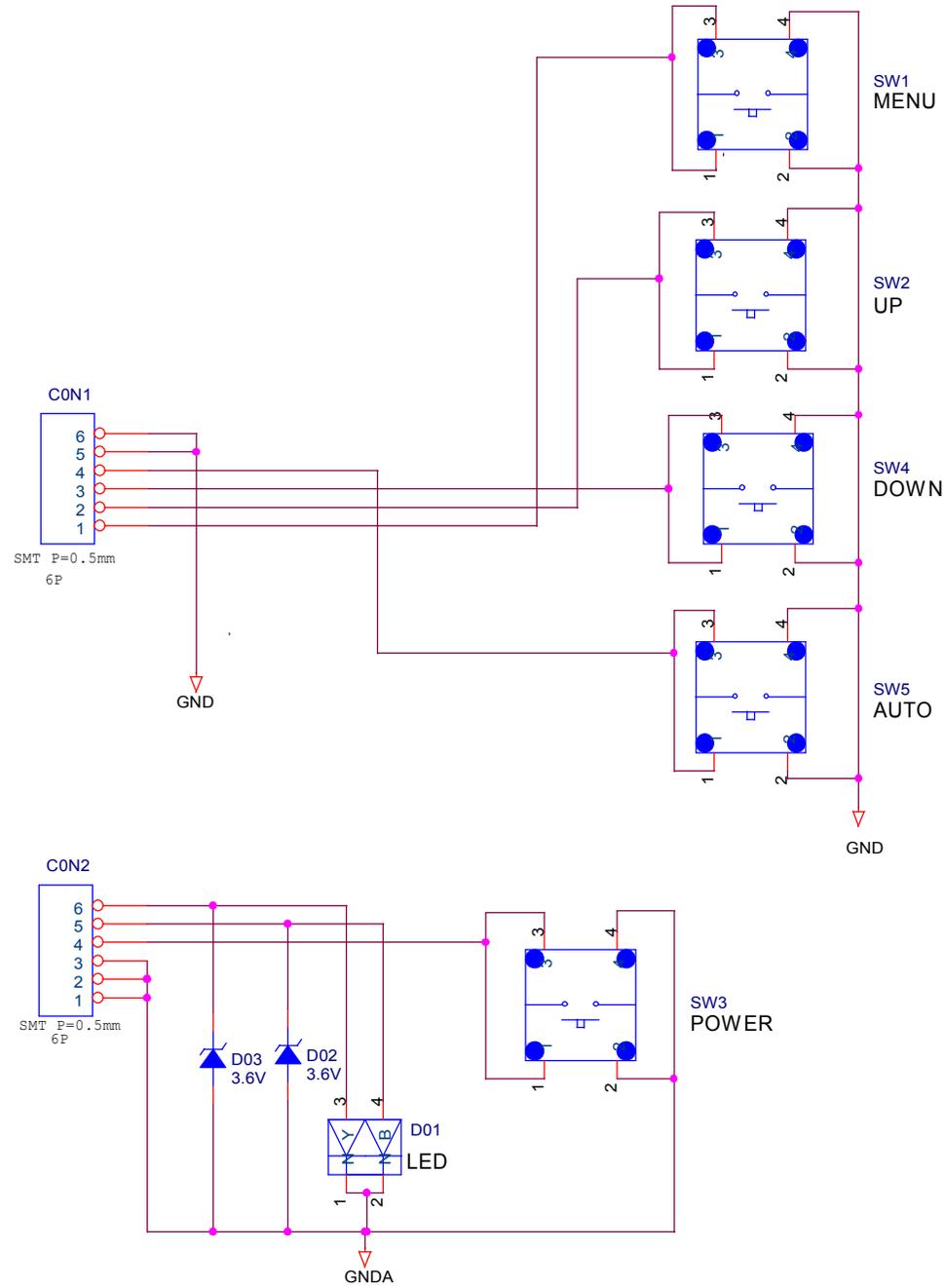
# PANEL INTERFACE



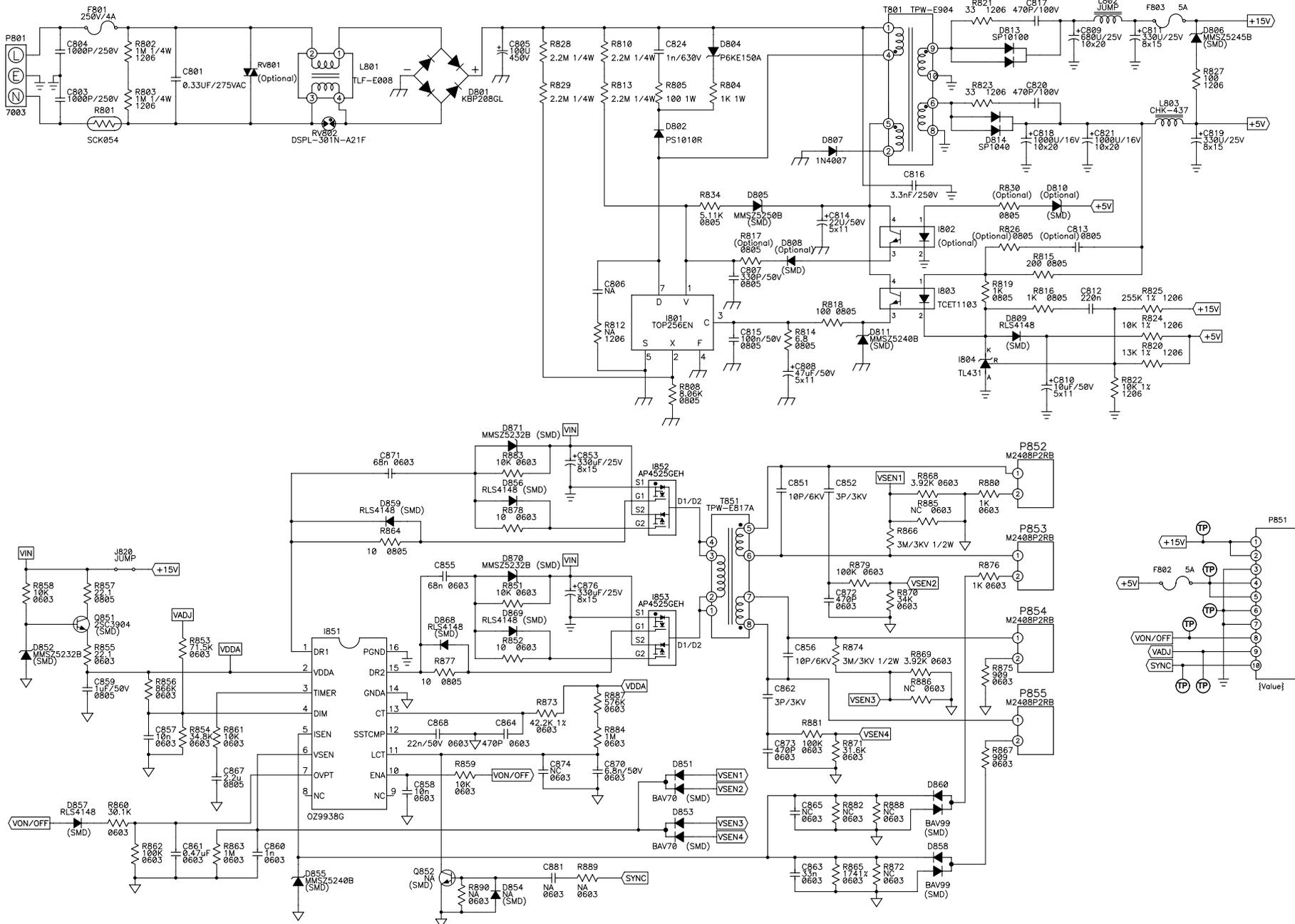
**AUDIO**



PWB-1258-1 KEY & LED



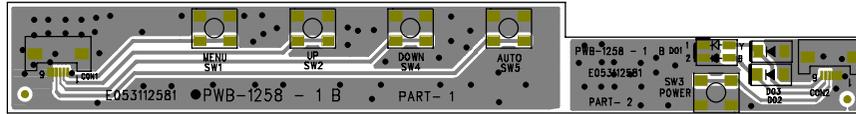
# Power board PWB-1272-02B



# 9. PCB Layout Diagrams

KEY PAD

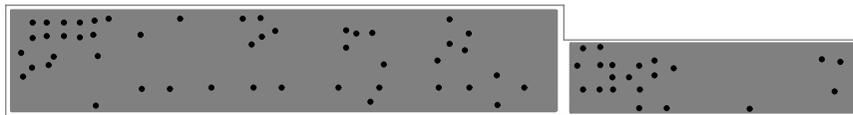
0.8mm FR4 PCB 2 LAYER 74 X14.55mm  
40 X 10 mm



PWB-1258-1B.pcb - Mon Jul 05 14:48:51 2010

LAYER	L1 TOP SILKSCREEN TOP		
PCB NO	PWB-1258-1B	REV	
FILE NO		REMARK	2010/01/26

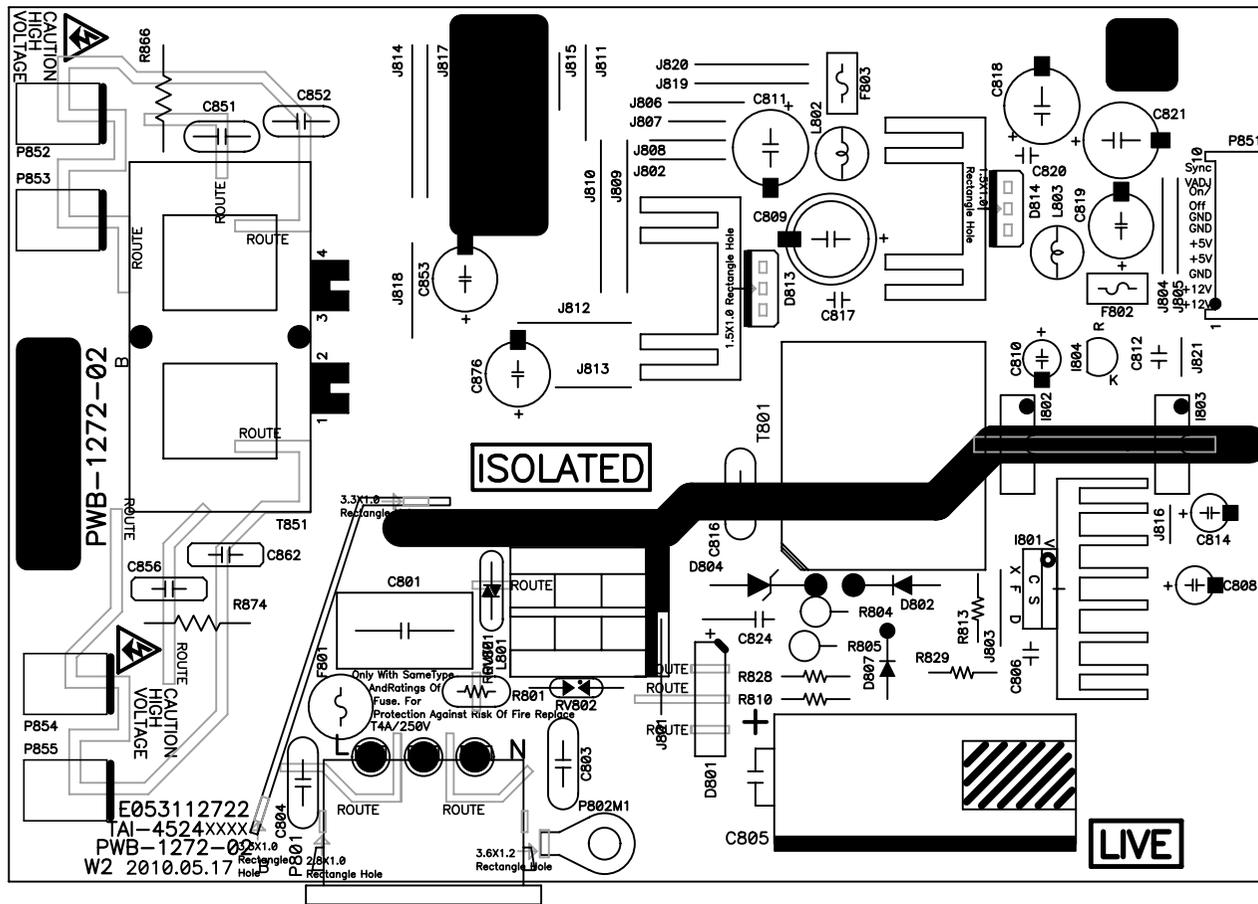
0.8mm FR4 PCB 2 LAYER 74 X14.55mm  
40 X 10 mm



PWB-1258-1B.pcb - Mon Jul 05 14:49:33 2010

LAYER	L2 BOTTOM SOLDER MASK		
PCB NO	PWB-1258-1B	REV	
FILE NO		REMARK	2010/01/26

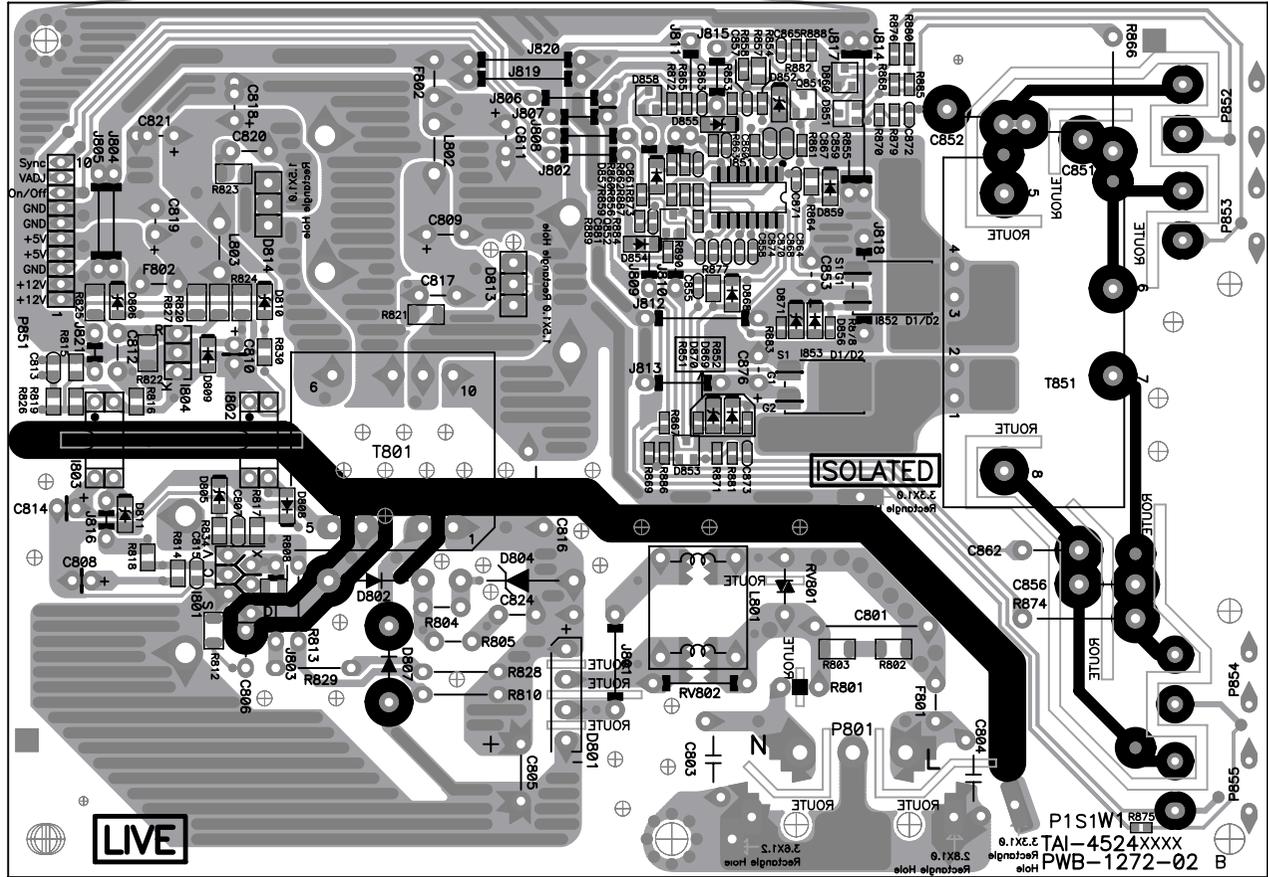
Power board PWB-1272-02B



PWB-1272-02B Drill Symbol Table

Hole Dia (mm)	Symbol	Quantity
0.80	+	8
0.90	⊗	18
1.00	⊕	139
1.01(1.5X1.0 Rectangle Hole)	⊥	6
1.02(3.3X1.0 Rectangle Hole)	⊗	2
1.03(2.8X1.0 Rectangle Hole)	⊕	2
1.04(3.6X1.2 Rectangle Hole)	⊥	1
1.10	⊕	18
1.20	⊕	14
1.40	⊕	4
1.80	⊕	3
2.00	⊕	30
2.60	⊕	9
3.20	⊕	3
3.25	⊕	2
4.00	⊕	5
4.30	⊕	1

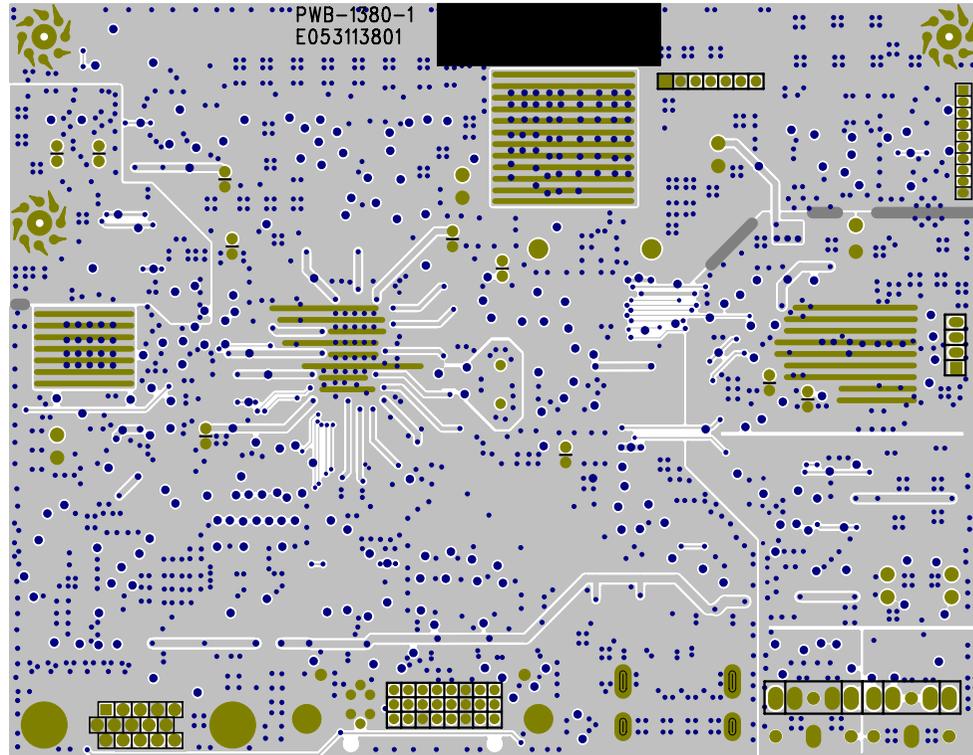
Quantity	Symbol	Hole Dia (mm)	PWB-1272-02B Drill Symbol Table
1		4.30	1.04(3.8X1.3 Rectangle Hole)
2		4.00	1.03(3.8X1.0 Rectangle Hole)
2		3.25	1.02(3.7X1.0 Rectangle Hole)
3		3.20	1.01(3.5X1.0 Rectangle Hole)
9		2.80	1.00(3.3X1.0 Rectangle Hole)
30		2.00	0.90
3		1.80	0.80
4		1.40	
14		1.20	
18		1.10	
1		1.04(3.8X1.3 Rectangle Hole)	
1		1.03(3.8X1.0 Rectangle Hole)	
2		1.02(3.7X1.0 Rectangle Hole)	
2		1.01(3.5X1.0 Rectangle Hole)	
6		1.00(3.3X1.0 Rectangle Hole)	
130		0.90	
18		0.80	
8		0.80	



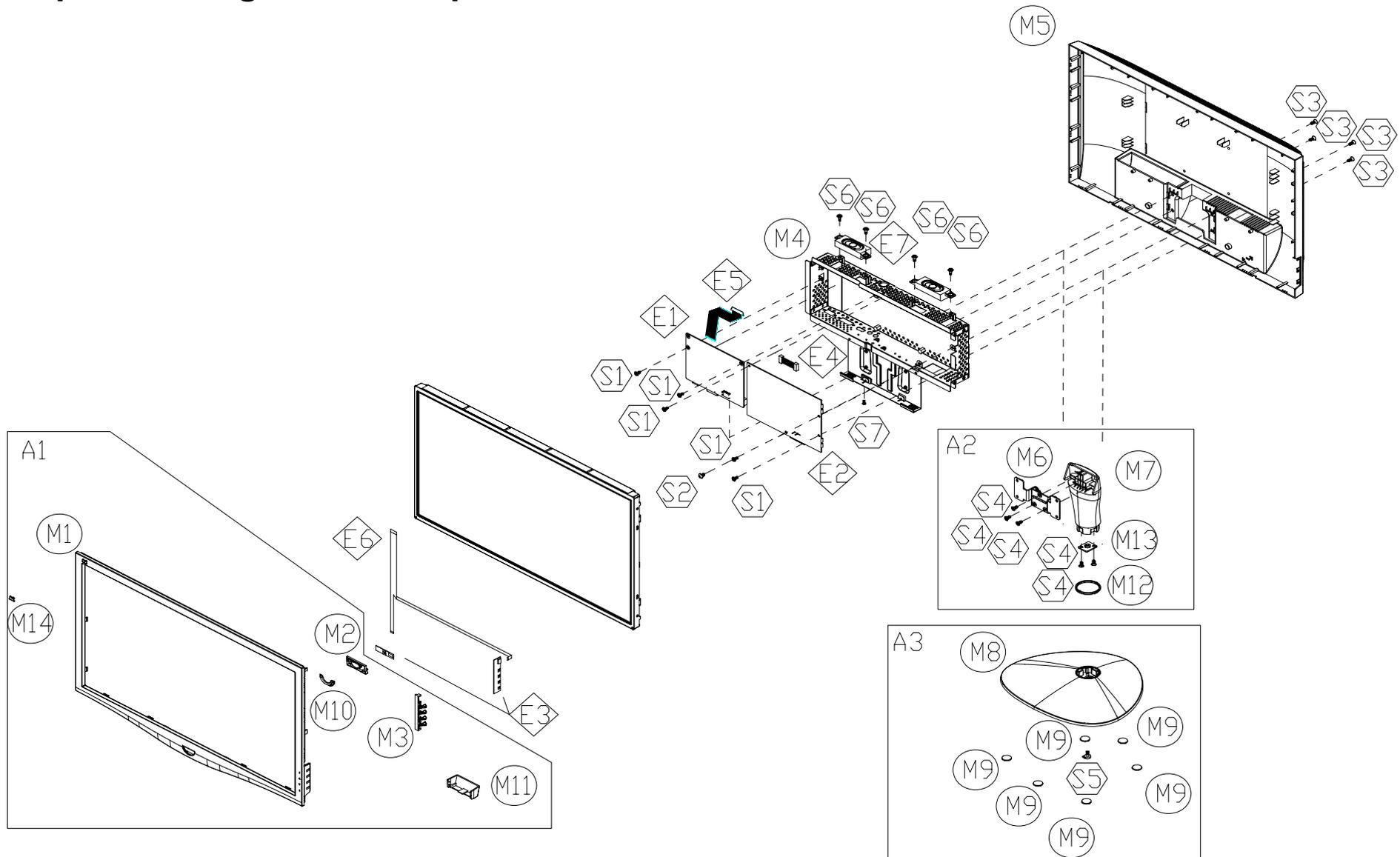


V-CUT X 3 FR4 1.6mm  
HDMI impedance 100 + \ - 10ohm  
130 X 100 mm (X1) 260 X210 mm (X4)

TATUNG 02-252525-2491  
Date:2010\08\10  
BOT SILK  
BOTTOM MASK  
PWB-1380-1



# 10. Exploded Diagram and Exploded Parts List

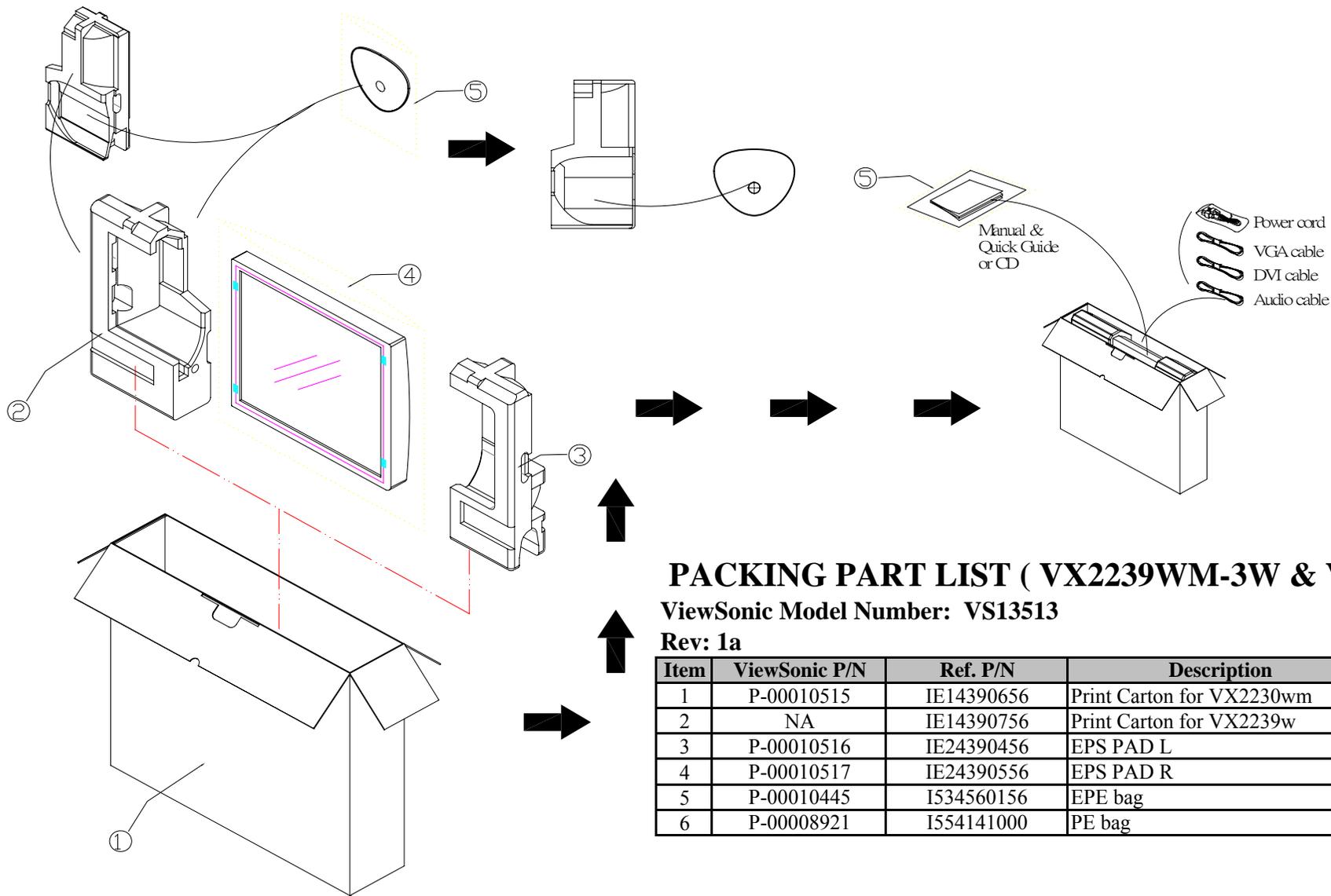


## EXPLODED PARTS LIST( VX2239WM-3W & VX2239WM-3CN )

ViewSonic Model Number: VS13513

Rev: 1a

Item	ViewSonic P/N	Ref. P/N	Description	Location	Q'ty
M1	C-00010449	EF41134601	FRONT COVER		1
M2	C-00010459	EF42859401	POWER BOTTOM		1
M3	C-00010460	E642859400	FUNCTION KEY		1
M4	NA	EF47705300	MAIN BRACKET		1
M5	C-00010450	E641123011	BACK COVER		1
M6	HW-00009382	EF43801910	HINGE		1
M7	NA	EF41433600	NECK		1
M8	NA	EF41433700	BASE		1
M9	M-00008662	EF42025416	RUBBER FOOT		6
M10	C-00010458	EF42385101	POWER BOTTOM RING		1
M11	C-00010457	EF42385300	POWER BOTTOM COVER		1
M12	NA	EF42385201	NECK RING		1
M13	NA	EF47705400	BASE BRACKET		1
M14	M-00008547	E642472909	BIRD LOGO		1
S1	NA	MA36160652	PRWS M3.0x06 S-ZN-Cr3+		5
S2	NA	MA60251152	PZS+L M4x08 S-Zn-Cr3+		1
S3	NA	MZ04261416	PFS M4x10 S-Zn-B Cr3+		4
S4	NA	MZ34251652	BFB M4.0x12 S-Cr3+		5
S5	NA	MA90056006	HAND DRIVE SCREW		1
S6	NA	MA90056200	PRWS+SM3x3		4
S7	NA	MZ01170612	PP M3.0X06 S-ZN-Cr3+		1
A1	C-00010448	5095672805	Front Cover Assembly		1
A2	C-00010451	5095672807	Neck Assembly		1
A3	PL-00008901	5095855792	Base Assembly		1
E1	B-00010547	5097710900	ASSEMBLY,PCB-MAIN		1
E2	B-00010548	5097707623	ASSEMBLY,PCB-POWER		1
E3	NA	5097703502	ASSEMBLY,PCB-FUNCTION KEY&LED		1
E4	CB-00009400	E057410073	Wire Ass'y W10/7P Conn.		1
E5	CB-00009617/CB-00009618	E784630568 / E784630569	Flexible Flet Cable		1
E6	CB-00008932	E784613500	FFC 13P/6/6		1
E7	E-00010280/E-00010281	E055109040 / E055109050	Speaker BOX Ass'y		1



## PACKING PART LIST ( VX2239WM-3W & VX2239WM-3CN )

ViewSonic Model Number: VS13513

Rev: 1a

Item	ViewSonic P/N	Ref. P/N	Description		Q'ty
1	P-00010515	IE14390656	Print Carton for VX2230wm	1P01	1
2	NA	IE14390756	Print Carton for VX2239w		
3	P-00010516	IE24390456	EPS PAD L	1P02	1
4	P-00010517	IE24390556	EPS PAD R	1P03	1
5	P-00010445	I534560156	EPE bag	1P04	1
6	P-00008921	I554141000	PE bag	1P05	2

# 11. Recommended Spare Parts List

## RECOMMENDED SPARE PARTS LIST (VX2239WM-3W & VX2239WM-3CN)

ViewSonic Model Number: VS13513

Rev: 1a

Serial No. Prefix: S4T (VX2239WM-3) / S4X (VX2239WM-3CN)

Item	Category	Part Name	Description	ECR/ECN	ViewSonic P/N	Ref. P/N	Ref. NO	Compatibility
1		Power Cord	POWER CORD (USA)		A-00008294	E056706107		1
2		Power Cord	POWER CORD (China)		A-00008374	E056706089		1
3		Power Cord	POWER CORD (EU & Korea)		A-00008375	E056706217		1
4		Power Cord	POWER CORD (UK & Singapore)		A-00008376	E056706081		1
5		Power Cord	POWER CORD (INDIA 1)		A-00008822	E056705030		1
6	Accessories:	Power Cord	POWER CORD (TW)		A-00008378	E056705002		1
7	[Adapter, Battery,	Power Cord	POWER CORD (AUS & NZ)		A-00008379	E056702017		1
8	Remote Controller,	Audio Cable	Wire Ass'y Audio Cable (RA)		CB-00009610	E057301510		1
9	Power Cord,	Audio Cable	Wire Ass'y Audio Cable (RB)		CB-00009611	E057301511		2
10	External Cables,	Audio Cable	Wire Ass'y Audio Cable (RC)		CB-00009612	E057301513		3
11	Mouse, Keyboard]	Audio Cable	Wire Ass'y Audio Cable (RD)		CB-00009522	E057301514		4
12		Audio Cable	Wire Ass'y Audio Cable (RE)		CB-00009613	E057301515		5
13		Audio Cable	Wire Ass'y Audio Cable (RF)		CB-00009614	E057301516		6
14		Signal Cable	Wire Ass'y VGA Signal Cable		CB-00008646	E057315515		1
15		Signal Cable	DVI Signal Cable (RA)		CB-00009615	E057324512 (RA)		1
16		Signal Cable	DVI Signal Cable BizLink (RB)		CB-00009616	E057324517 (RB)		2
17	PC Board Assembly:	Main Board	ASSEMBLY.PCB-MAIN		B-00010547	5097710900		1
18	[All boards or	Power Board	ASSEMBLY.PCB-POWER		B-00010548	5097707623		1
19	PCBA]	Key Pad	ASSEMBLY.PCB-FUNCTION KEY		B-00010549	5098801282		1
20		LED Board	ASSEMBLY.PCB-LED		B-00010550	5098801283		1
21		Front Bezel	ASSEMBLY.FRONT COVER		C-00010448	5095672805		1
22		Front Bezel	FRONT COVER		C-00010449	EF41134601		1
23	Cabinets:	Back Cover	BACK COVER		C-00010450	E641123011		1
24	[Front Bezel, All	Stand Assembly	ASSEMBLY.NECK		C-00010451	5095672807		1
25	Covers, Base/Stand	Bottom Cover	Power Bottom Ring		C-00010458	EF42385101		1
26	Assembly]	Bottom Cover	Power Bottom		C-00010459	EF42859401		1
27		Bottom Cover	FUNCTION KEY		C-00010460	E642859400		1
28		Bottom Cover	Power Bottom Cover		C-00010457	EF42385300		1
29	Hardware: [Screw,	Hinge	HINGE		HW-00009382	EF43801910		1
30	Bracket, Hinge]	Flat Cable	Flexible Flat Cable 30P ASKA (RA)		CB-00009617	E784630568		1
31		Flat Cable	Flexible Flat Cable 30P CviLux (RB)		CB-00009618	E784630569		2
32	Cables: [All internal	Wire	FFC 13P/6/6		CB-00008932	E784613500		1
33	Cables/wires]	Wire	Wire Ass'y W10/7P Conn		CB-00009400	E057410073		1
34		Quick Start Guide (QSG)	Quick Setup Guide (China only)		DC-00010533	E030045078		1
35		Quick Start Guide (QSG)	Quick Setup Guide (China only)		DC-00010534	E030045080		1
36		Quick Start Guide (QSG)	SRS installation guide		DC-00010535	E030045083		1
37	Documentation:	Quick Start Guide (QSG)	Base installation		DC-00010536	E030045085		1
38	[Quick Start Guide,	Quick Start Guide (QSG)	SERVICE INSERT (US only)		DC-00009232	E030045021		1
39	CD Rom,	User's Guide (CD ROM)	HF User's Manual CD ROM		DC-00010537	E230045081		1
40	Label/Sticker]	Guarant / Warranty Card	Warranty Card (China only)		DC-00010538	E030240031		1
41		Label / Sticker	POP LABEL		DC-00010539	E230406141		1
42		Label / Sticker	VSC CHINA 40 MONTHS WARRANTY S (China only)		DC-00010540	E230409058		1
43		Label / Sticker	CHINA ENERGY LABEL (China only)		DC-00010541	E230409034		1
44	Electronic	Panel	HF TFT LCD Panel Module CLAA215FA01 含基000 ZBD>85% (RA)		E-00010076	EZ51253310		1
45	Components: [LCD	Panel	HF TFT LCD Panel Module CLAA215FA01 含基011 ZBD>85% (RB)		E-00010077	EZ51253311		2
46	Panel, Speaker, and	Speaker	Speaker BOX Ass'y Mei Shan (RA)		E-00010280	E055109040		1
47	all Electronic	Speaker	Speaker BOX Ass'y SYD (RB)		E-00010281	E055109050		2
48	Miscellaneous:	Logo	VSC BIRD LOGO		M-00008547	E64242909		1
49	[Switch, Fan, Rubber	Rubber Foot	RUBBER FOOT		M-00008662	EF42025416		1
50		Carton	CARTON		P-00010515	IE14390656		1
51	Packing Material:	Foam	EPS PAD-L		P-00010516	IE24390456		1
52	[Carton, Box, Foam,	Foam	EPS PAD-R		P-00010517	IE24390556		1
53	Bags]	Plastic Bag	EPE BAG		P-00010445	I534560156		1
54		Plastic Bag	PE BAG		P-00008921	I554141000		1
55	Plastics: [Pedestal,	Pedestal	ASSEMBLY.BASE		PL-00008901	5095855792		1
	stand/neck, Plate,							
	Button, etc.]							

Remark 1: Above listed items are examples, supplier can expand the rows to add more necessary items.

Remark 2: All revised RSPLs with newly added items or any change made should be highlighted and correlated with the ECR/ECN approved by ViewSonic Corporation. This is to eliminate repeated cross checks

Notice: 1. For some special parts, some photos for identification purpose may be asked by request

2. For all internal cables, there must be some wordings on the "Description" column about where the cable is used (connecting to which two parts)

3. All internal cables/wires should be put in the "Cables" category

4. All external cables should be put in the "Accessories" category

5. Parts relationship (Main/Second source or 1/2/3/4) should be added in the "Compatibility" column

6. If any part for certain product isn't listed in the form, supplier/PE can add it themselves and keep the part name unified.

## BOM LIST (VX2239WM-3W & VX2239WM-3CN)

ViewSonic Model Number: VS13513

Rev. 1a

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
1	NA	EB16039902	HF CAP.,ELEC. LOW ESR 105C Su16V 220.00UFM * 6.3X11	C101		1
2	NA	EB16041302	HF CAP.ELEC.LOW ESR 105C LELON16V 220.00UFM 6.3x11	C101		1
3	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C102		1
4	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C102		1
5	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C104		1
6	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C104		1
7	NA	EB14040702	HF CAP.,ELEC.(105C) LELON25V 10.00UFM * 4X7	C105		1
8	NA	EB14038402	HF CAP.,ELEC. 105C Suscon16V 10.00UFM * 4X7 L=3.5mm	C105		1
9	NA	EB14038202	HF CAP.,ELEC.(105C) LELON16V 10.00UFM * 4X7	C105		1
10	NA	EB14040802	HF CAP.,ELEC. 105C Su'scon16V 10.00UFM 4x7	C105		1
11	NA	EB30028291	HF CAPACITOR,MONOLITHIC SMD REX5R DC 10V 10.00UFK T 0805	C106		1
12	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C108		1
13	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C108		1
14	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C109		1
15	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C109		1
16	NA	EB16039902	HF CAP.,ELEC. LOW ESR 105C Su16V 220.00UFM * 6.3X11	C110		1
17	NA	EB16041302	HF CAP.ELEC.LOW ESR 105C LELON16V 220.00UFM 6.3x11	C110		1
18	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C111		1
19	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C111		1
20	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C112		1
21	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C112		1
22	NA	EB14038302	HF CAP.,ELEC.(105C) LELON16V 100.00UFM * 6.3X7	C113		1
23	NA	EB14040302	HF CAP.,ELEC. 105C Su'scon16V 100.00UFM * 6.3X11	C113		1
24	NA	EB16043402	HF CAP.,ELEC. LOW ESR SusconCE04CH 16V 100.00UFM * 6.3x11	C113		1
25	NA	EB16043502	HF CAP.,ELEC. LOW ESR TeapoCE04CH 16V 100.00UFM * 6.3x11	C113		1
26	NA	EB14040402	HF CAP.,ELEC. 105C Teapo16V 100.00UFM * 6.3X11	C113		1
27	NA	EB14041002	HF CAP.,ELEC.(105C) LELON16V 100.00UFM * 6.3X11	C113		1
28	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C114		1
29	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C114		1
30	NA	EB30647391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V47000.00pFK T 0603	C115		1
31	NA	EB30012491	HF CAPACITOR,MONOLITHIC SMD REX7R 25V 47000.000PFK T 0603	C115		1
32	NA	EB30647391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V47000.00pFK T 0603	C116		1
33	NA	EB30012491	HF CAPACITOR,MONOLITHIC SMD REX7R 25V 47000.000PFK T 0603	C116		1
34	NA	EB30647391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V47000.00pFK T 0603	C117		1
35	NA	EB30012491	HF CAPACITOR,MONOLITHIC SMD REX7R 25V 47000.000PFK T 0603	C117		1
36	NA	EB30610291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 1000.00PF K 0603	C118		1
37	NA	EB30647391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V47000.00pFK T 0603	C122		1
38	NA	EB30012491	HF CAPACITOR,MONOLITHIC SMD REX7R 25V 47000.000PFK T 0603	C122		1
39	NA	EB30647391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V47000.00pFK T 0603	C123		1
40	NA	EB30012491	HF CAPACITOR,MONOLITHIC SMD REX7R 25V 47000.000PFK T 0603	C123		1
41	NA	EB30647391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V47000.00pFK T 0603	C124		1
42	NA	EB30012491	HF CAPACITOR,MONOLITHIC SMD REX7R 25V 47000.000PFK T 0603	C124		1
43	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C125		1
44	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C125		1
45	NA	EB40647091	HF CAPACITOR,MONOLITHIC SMD RENPO 50V 47.00PFJ T 0603	C126		1
46	NA	EB40622191	HF CAPACITOR,MOLITHIC SMD REELNPO 50V 220.00PFJ T 0603	C127		1
47	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C128		1
48	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C128		1
49	NA	EB14040702	HF CAP.,ELEC.(105C) LELON25V 10.00UFM * 4X7	C201		1
50	NA	EB14038402	HF CAP.,ELEC. 105C Suscon16V 10.00UFM * 4X7 L=3.5mm	C201		1
51	NA	EB14038202	HF CAP.,ELEC.(105C) LELON16V 10.00UFM * 4X7	C201		1
52	NA	EB14040802	HF CAP.,ELEC. 105C Su'scon16V 10.00UFM 4x7	C201		1
53	NA	EB14040702	HF CAP.,ELEC.(105C) LELON25V 10.00UFM * 4X7	C202		1
54	NA	EB14038402	HF CAP.,ELEC. 105C Suscon16V 10.00UFM * 4X7 L=3.5mm	C202		1
55	NA	EB14038202	HF CAP.,ELEC.(105C) LELON16V 10.00UFM * 4X7	C202		1
56	NA	EB14040802	HF CAP.,ELEC. 105C Su'scon16V 10.00UFM 4x7	C202		1
57	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C203		1
58	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C203		1
59	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C204		1
60	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C204		1
61	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C205		1
62	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C205		1
63	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C206		1
64	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C206		1
65	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C207		1
66	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C207		1
67	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C208		1
68	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C208		1
69	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C209		1
70	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C209		1
71	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C210		1
72	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C210		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
73	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C211		1
74	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C211		1
75	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C212		1
76	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C212		1
77	NA	EB16039702	HF CAP.,ELEC. LOW ESR SusconCE04CH 50V 10.00UFM * 5x11	C213		1
78	NA	E216022102	CAP.,ELEC. LOW ESR 105C KYCE04CH 50V 10.00UFM * 5X11	C213		1
79	NA	EB16041702	HF CAP.,ELEC. LOW ESR 105C50V 10.00UFM T 5X11 P=2.5mm	C213		1
80	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C214		1
81	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C214		1
82	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C215		1
83	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C215		1
84	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C216		1
85	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C216		1
86	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C217		1
87	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C217		1
88	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C218		1
89	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C218		1
90	NA	EB14040702	HF CAP.,ELEC.(105C) LELON25V 10.00UFM * 4X7	C219		1
91	NA	EB14038402	HF CAP.,ELEC. 105C Suscon16V 10.00UFM * 4X7 L=3.5mm	C219		1
92	NA	EB14038202	HF CAP.,ELEC.(105C) LELON16V 10.00UFM * 4X7	C219		1
93	NA	EB14040802	HF CAP.,ELEC. 105C Su'scon16V 10.00UFM 4x7	C219		1
94	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C220		1
95	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C220		1
96	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C222		1
97	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C222		1
98	NA	EB16039702	HF CAP.,ELEC. LOW ESR SusconCE04CH 50V 10.00UFM * 5x11	C223		1
99	NA	E216022102	CAP.,ELEC. LOW ESR 105C KYCE04CH 50V 10.00UFM * 5X11	C223		1
100	NA	EB16041702	HF CAP.,ELEC. LOW ESR 105C50V 10.00UFM T 5X11 P=2.5mm	C223		1
101	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C225		1
102	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C225		1
103	NA	EB40610091	HF CAPACITOR,MONOLITHIC SHD RENPO 50V 10.00PFJ T 0603	C226		1
104	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C227		1
105	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C227		1
106	NA	EB40610091	HF CAPACITOR,MONOLITHIC SHD RENPO 50V 10.00PFJ T 0603	C228		1
107	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C229		1
108	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C229		1
109	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C230		1
110	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C230		1
111	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C231		1
112	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C231		1
113	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C232		1
114	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C232		1
115	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C233		1
116	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C233		1
117	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C234		1
118	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C234		1
119	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C235		1
120	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C235		1
121	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C236		1
122	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C236		1
123	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C237		1
124	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C237		1
125	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C238		1
126	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C238		1
127	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C402		1
128	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C402		1
129	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C502		1
130	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C502		1
131	NA	EB30633291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 3300.00PFK T 0603	C601		1
132	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C602		1
133	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C602		1
134	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C603		1
135	NA	EB14040702	HF CAP.,ELEC.(105C) LELON25V 10.00UFM * 4X7	C604		1
136	NA	EB14038402	HF CAP.,ELEC. 105C Suscon16V 10.00UFM * 4X7 L=3.5mm	C604		1
137	NA	EB14038202	HF CAP.,ELEC.(105C) LELON16V 10.00UFM * 4X7	C604		1
138	NA	EB14040802	HF CAP.,ELEC. 105C Su'scon16V 10.00UFM 4x7	C604		1
139	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C605		1
140	NA	EB30028291	HF CAPACITOR,MONOLITHIC SMD REX5R DC 10V 10.00UFK T 0805	C606		1
141	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C607		1
142	NA	EB30633291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 3300.00PFK T 0603	C608		1
143	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C609		1
144	NA	EB30610291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 1000.00PF K 0603	C610		1
145	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C612		1
146	NA	EB30028291	HF CAPACITOR,MONOLITHIC SMD REX5R DC 10V 10.00UFK T 0805	C613		1
147	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C614		1
148	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C614		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
149	NA	EB30610291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 1000.00PF K 0603	C615		1
150	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C616		1
151	NA	EB14040702	HF CAP,ELEC.(105C) LELON25V 10.00UFM * 4X7	C617		1
152	NA	EB14038402	HF CAP.,ELEC. 105C Suscon16V 10.00UFM * 4X7 L=3.5mm	C617		1
153	NA	EB14038202	HF CAP,ELEC.(105C) LELON16V 10.00UFM * 4X7	C617		1
154	NA	EB14040802	HF CAP.,ELEC. 105C Su'scon16V 10.00UFM 4x7	C617		1
155	NA	EB30610291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 1000.00PF K 0603	C618		1
156	NA	EB30610291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 1000.00PF K 0603	C619		1
157	NA	EB14040702	HF CAP,ELEC.(105C) LELON25V 10.00UFM * 4X7	C621		1
158	NA	EB14038402	HF CAP.,ELEC. 105C Suscon16V 10.00UFM * 4X7 L=3.5mm	C621		1
159	NA	EB14038202	HF CAP,ELEC.(105C) LELON16V 10.00UFM * 4X7	C621		1
160	NA	EB14040802	HF CAP.,ELEC. 105C Su'scon16V 10.00UFM 4x7	C621		1
161	NA	EB30610291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 1000.00PF K 0603	C622		1
162	NA	EB30610291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 1000.00PF K 0603	C623		1
163	NA	EB30028291	HF CAPACITOR,MONOLITHIC SMD REX5R DC 10V 10.00UFK T 0805	C624		1
164	NA	EB14036502	HF CAP.,ELEC.(105C) SUSCONCE04W 16V 470.00UFM * 8x11.5	C625		1
165	NA	E214026402	CAP.,ELECTROLYTIC(105C) KMGCE04W 16V 470.00UFM * 8x11.5 P	C625		1
166	NA	EB14040502	HF CAP.,ELEC. 105C Teapo16V 470.00UFM * 8X11	C625		1
167	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C627		1
168	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C627		1
169	NA	EB14040702	HF CAP,ELEC.(105C) LELON25V 10.00UFM * 4X7	C628		1
170	NA	EB14038402	HF CAP.,ELEC. 105C Suscon16V 10.00UFM * 4X7 L=3.5mm	C628		1
171	NA	EB14038202	HF CAP,ELEC.(105C) LELON16V 10.00UFM * 4X7	C628		1
172	NA	EB14040802	HF CAP.,ELEC. 105C Su'scon16V 10.00UFM 4x7	C628		1
173	NA	EB30028291	HF CAPACITOR,MONOLITHIC SMD REX5R DC 10V 10.00UFK T 0805	C629		1
174	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C630		1
175	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C631		1
176	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C632		1
177	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C633		1
178	NA	EB16039902	HF CAP.,ELEC. LOW ESR 105C Su16V 220.00UFM * 6.3X11	C638		1
179	NA	EB16041302	HF CAP,ELEC.LOW ESR 105C LELON16V 220.00UFM 6.3x11	C638		1
180	NA	EB16039902	HF CAP.,ELEC. LOW ESR 105C Su16V 220.00UFM * 6.3X11	C639		1
181	NA	EB16041302	HF CAP,ELEC.LOW ESR 105C LELON16V 220.00UFM 6.3x11	C639		1
182	NA	EB30003391	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.10UFZ T 0603	C640		1
183	NA	EB50610491	HF CAPACITOR,MONOLITHIC SMD REY5V DC 50V 0.10UFZ T 0603	C640		1
184	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C641		1
185	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C642		1
186	NA	EB30008891	HF CAPACITOR,MONOLITHIC SMD REY5V DC 16V 1.00UFZ T 0603	C643		1
187	NA	E782401036	CONNECTOR(D-SUB FEMALE)TEKCON15P,3ROW,G/F,R/A,DIP,ZINC	CN102		1
188	NA	E782401029	CONNECTOR(D-SUB FEMALE PC99)TE15P,3ROW,G/F,R/A,DIP	CN102		1
189	NA	E782401030	CONN(D-SUB SHORT BODY REC.PC99)15P,3ROW,G/F,R/A,DIP	CN102		1
190	NA	E782401051	CONN.(D-SUB FEMALE DIP)TEKCON15P,3ROW,G/F,R/A,ZINC	CN102		1
191	NA	E782401035	CONNECTOR(DVI-D FEMALE)TEKCON24P,R/A,G/F,IVORY_DIP,SHIELD	CN401		1
192	NA	E782401037	CONNECTOR(DVI-D FEMALE)SINGATR24P,R/A,G/F,IVORY_DIP,SHIELD	CN401		1
193	NA	E782401042	CONN.(DVI-D FEMALE) WATA24P,R/A,G/F,IVORY_DIP,SHIELD	CN401		1
194	NA	E782401047	CONN(DVI-D FEMALE DIP)ALEXTRON24P,R/A,G/F,IVORY,W/SHIELD=S	CN401		1
195	NA	E782401050	CONN(DVI-D FEMALE DIP)BIZLINK24P,H=4.95mm,R/A,Au G/F	CN401		1
196	NA	E782400078	CONN.(HDMI JACK)TEKCON19P,P=0.5mm,R/A,G/F,SMD(W/FLAG	CN501		1
197	NA	E782400062	CONNECTOR(HDMI JACK)TEKCON19P,P=0.5mm,R/A,G/F,SMD(W/FLAG	CN501		1
198	NA	E782400084	CONN.(HDMI JACK SMD)FREEPORT19P,P=0.5mm,R/A,15U",(W/FLAGE)	CN501		1
199	NA	E782405001	CONNECTOR(PHONE JACK)5P,3.5mm,R/A,DIP,GREEN PC99	CN601		1
200	NA	E782405072	CONN.(PHONE JACK DIP)ALEXTRON15P,3.5mm,R/A,DIP,GREEN	CN601		1
201	NA	E782405049	CONNECTOR(PHONE JACK)TEKCON5P,3.5mm-L,R/A,DIP,BLUE	CN602		1
202	NA	E782405055	CONNECTOR(PHONE JACK)SINGATRON5P,3.5mm,R/A,DIP,BLUE	CN602		1
203	NA	E782405080	CONN.(PHONE JACK DIP)TEKCON5P,3.5mm-L,R/A,BLUE	CN602		1
204	NA	EA38600009	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 0.00 J T	D101		1
205	NA	F615011553	DIODE ZENER SMD ROHMRLZ5.6B 5.45V-5.73V 20mA LL-34	D102		1
206	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D102		1
207	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D102		1
208	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D102		1
209	NA	F615011553	DIODE ZENER SMD ROHMRLZ5.6B 5.45V-5.73V 20mA LL-34	D103		1
210	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D103		1
211	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D103		1
212	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D103		1
213	NA	F615011553	DIODE ZENER SMD ROHMRLZ5.6B 5.45V-5.73V 20mA LL-34	D104		1
214	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D104		1
215	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D104		1
216	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D104		1
217	NA	F615011553	DIODE ZENER SMD ROHMRLZ5.6B 5.45V-5.73V 20mA LL-34	D105		1
218	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D105		1
219	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D105		1
220	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D105		1
221	NA	F615011553	DIODE ZENER SMD ROHMRLZ5.6B 5.45V-5.73V 20mA LL-34	D106		1
222	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D106		1
223	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D106		1
224	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D106		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
225	NA	F615091000	DIO.ESD PROTECT ARRAY AMAZINGAZC099-04S SOT23-6L	D107		1
226	NA	F615011553	DIODE ZENER SMD ROHMRLZ5.6B 5.45V-5.73V 20mA LL-34	D108		1
227	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D108		1
228	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D108		1
229	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D108		1
230	NA	F611020011	DIODE Schottky SMD PANJITBAT54C SOT-23	D109		1
231	NA	F611010011	DIODE Schottky SMD SeCoSBAT54C Dual 30V,0.2A SOT-23	D109		1
232	NA	F611012352	DIODE RECTIFIER SMD DIIBAT54C-F 30V,0.2A SOT-23 REEL	D109		1
233	NA	F615020041	DIODE ZENER SMD REEL PANJITMMSZ5227B 3.6V SOD-123	D201		1
234	NA	F615010091	DIODE ZENER SeCoSBZT52C3V6 SOD123	D201		1
235	NA	F615026346	DIODE ZENER LIZCDZ55B3V6 1206 3.6V 0.5W	D201		1
236	NA	F615020041	DIODE ZENER SMD REEL PANJITMMSZ5227B 3.6V SOD-123	D202		1
237	NA	F615010091	DIODE ZENER SeCoSBZT52C3V6 SOD123	D202		1
238	NA	F615026346	DIODE ZENER LIZCDZ55B3V6 1206 3.6V 0.5W	D202		1
239	NA	F615011553	DIODE ZENER SMD ROHMRLZ5.6B 5.45V-5.73V 20mA LL-34	D203		1
240	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D203		1
241	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D203		1
242	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D203		1
243	NA	F611020011	DIODE Schottky SMD PANJITBAT54C SOT-23	D401		1
244	NA	F611010011	DIODE Schottky SMD SeCoSBAT54C Dual 30V,0.2A SOT-23	D401		1
245	NA	F611012352	DIODE RECTIFIER SMD DIIBAT54C-F 30V,0.2A SOT-23 REEL	D401		1
246	NA	F611020011	DIODE Schottky SMD PANJITBAT54C SOT-23	D501		1
247	NA	F611010011	DIODE Schottky SMD SeCoSBAT54C Dual 30V,0.2A SOT-23	D501		1
248	NA	F611012352	DIODE RECTIFIER SMD DIIBAT54C-F 30V,0.2A SOT-23 REEL	D501		1
249	NA	E062122982	Core Ferrite Bead Chip MagLayMLB-321611-0070P-N170 ohm	L101		1
250	NA	EZ62150315	HF CORE FERRITE BEAD 0805 MAGLMLB-201209-0070P-N8 70ohm 4A	L101		1
251	NA	EZ62158301	HF CORE FERRITE BEAD 0805 ARLIAMC2012Q700NT 70ohm 3A	L101		1
252	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	L102		1
253	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	L103		1
254	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	L104		1
255	NA	EZ62132313	HF Core Ferrite Bead 0603 MagLMLB-160808-0120B-N3 120 ohm	L105		1
256	NA	EZ62157204	HF CORE FERRITE BEAD ARLITECHAMC1608Q121NT 120ohm 2.5A 0603	L105		1
257	NA	EZ62133028	HF CORE,FERRITE BEAD 0805 MAGLMLB-201209-0030P-N1 30ohm 6A	L201		1
258	NA	EZ62157302	HF CORE FERRITE BEAD ARLITECHAMC2012Q300NT 30ohm 3A 0805	L201		1
259	NA	EZ62133028	HF CORE,FERRITE BEAD 0805 MAGLMLB-201209-0030P-N1 30ohm 6A	L202		1
260	NA	EZ62157302	HF CORE FERRITE BEAD ARLITECHAMC2012Q300NT 30ohm 3A 0805	L202		1
261	NA	EA37600009	HF RESISTOR, THICK FILM CHIP 08RMC 1/8W 0.00 J T	L203		1
262	NA	EZ62133028	HF CORE,FERRITE BEAD 0805 MAGLMLB-201209-0030P-N1 30ohm 6A	L204		1
263	NA	EZ62157302	HF CORE FERRITE BEAD ARLITECHAMC2012Q300NT 30ohm 3A 0805	L204		1
264	NA	E062122982	Core Ferrite Bead Chip MagLayMLB-321611-0070P-N170 ohm	L601		1
265	NA	EZ62150315	HF CORE FERRITE BEAD 0805 MAGLMLB-201209-0070P-N8 70ohm 4A	L601		1
266	NA	EZ62158301	HF CORE FERRITE BEAD 0805 ARLIAMC2012Q700NT 70ohm 3A	L601		1
267	NA	EZ62133009	HF CORE FERRITE BEAD 0805 MAGLMLB-201209-0600P-N1 600-OHM 2A	L602		1
268	NA	EZ62157303	HF CORE FERRITE BEAD ARLITECHAMC2012Q601NT 600ohm 2A 0805	L602		1
269	NA	EZ62133011	HF Core Ferrite Bead 0805 MagLMLB-201209-0600L-N2 600 ohm 0.	L603		1
270	NA	EZ62157303	HF CORE FERRITE BEAD ARLITECHAMC2012Q601NT 600ohm 2A 0805	L603		1
271	NA	E062133011	Core Ferrite Bead MagLayersMLB-201209-0600L-N2 600 ohm	L604		1
272	NA	EZ62157303	HF CORE FERRITE BEAD ARLITECHAMC2012Q601NT 600ohm 2A 0805	L604		1
273	NA	EZ62133009	HF CORE FERRITE BEAD 0805 MAGLMLB-201209-0600P-N1 600-OHM 2A	L605		1
274	NA	EZ62157303	HF CORE FERRITE BEAD ARLITECHAMC2012Q601NT 600ohm 2A 0805	L605		1
275	NA	EZ62133009	HF CORE FERRITE BEAD 0805 MAGLMLB-201209-0600P-N1 600-OHM 2A	L606		1
276	NA	EZ62157303	HF CORE FERRITE BEAD ARLITECHAMC2012Q601NT 600ohm 2A 0805	L606		1
277	NA	EZ62133009	HF CORE FERRITE BEAD 0805 MAGLMLB-201209-0600P-N1 600-OHM 2A	L607		1
278	NA	EZ62157303	HF CORE FERRITE BEAD ARLITECHAMC2012Q601NT 600ohm 2A 0805	L607		1
279	NA	EZ62133028	HF CORE,FERRITE BEAD 0805 MAGLMLB-201209-0030P-N1 30ohm 6A	L608		1
280	NA	EZ62157302	HF CORE FERRITE BEAD ARLITECHAMC2012Q300NT 30ohm 3A 0805	L608		1
281	NA	EZ62133011	HF Core Ferrite Bead 0805 MagLMLB-201209-0600L-N2 600 ohm 0.	L609		1
282	NA	EZ62157303	HF CORE FERRITE BEAD ARLITECHAMC2012Q601NT 600ohm 2A 0805	L609		1
283	NA	E062133011	Core Ferrite Bead MagLayersMLB-201209-0600L-N2 600 ohm	L610		1
284	NA	EZ62157303	HF CORE FERRITE BEAD ARLITECHAMC2012Q601NT 600ohm 2A 0805	L610		1
285	NA	EG82511022	HF CONN.(BOX HEADER DIP)7P,P=2.0mm-I,VT,TIN	P101		1
286	NA	EG82975300	HF CONN.(FPC/FPC B0TTOM)30P,P=1.0mm-I,SMD,R/A,LOCK	P102		1
287	NA	E782975005	CONN.(FPC/FPC SMD)CVILUX30P,P=1.0mm,H=2.2mm,R/A,TIN,LO	P102		1
288	NA	E782952010	CONN.(FPC/FPC VT)STM13P,P=0.5mm-I,SMD,TIN,LOCK	P201		1
289	NA	EG82511016	HF CONN.(BOX HEADER DIP)4P,P=2.0mm-I,V/T,TIN	P601		1
290	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q101		1
291	NA	F622020011	TR NPN SMD PANJITMMBT3904 40V 0.2A SOT-23	Q101		1
292	NA	F622002257	TR NPN SMD ZOWIEMMBT3904 SOT-23 40V 0.2A	Q101		1
293	NA	F622002259	TR NPN SMD DIIMMBT3904-7-F SOT-23 40V 0.2A	Q101		1
294	NA	F621015356	TR NPN HF KECKN3904S(Pb-Free) SOT-23 60V 0.	Q101		1
295	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q101		1
296	NA	F623003056	TR PNP SMD LRCLMBT3904LT1G SOT-23 40V 200mA	Q101		1
297	NA	F626021102	TR MOSFET P-CH ANPECAPM2305BAC-TRG SOT-23-3	Q103		1
298	NA	F626030023	TR FET MOS P-CH SMD SECOSSMG3401-30V -4.2A SC-59	Q103		1
299	NA	F626030024	TR FET MOS P-CH SMD (HF) UTCUT3401G-AE3-R -30V -4.2A	Q103		1
300	NA	F626002859	TR MOSFET P-CHANNEL AOSAO3401 SOT-23	Q103		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
301	NA	F626002860	TR MOSFET P-CHANNEL AOSAO3407 SOT-23 P-CH	Q103		1
302	NA	F626002853	TR MOSFET P-CHANNEL AOSAO3401L SOT-23 P-CH	Q103		1
303	NA	F626002856	TR MOSFET P-CHANNEL AOSAO3407L SOT-23 P-CH	Q103		1
304	NA	FF26001301	HF TR FET MOS P-CH SMD UBIQQM2401K -20V,-4A SOT-23	Q103		1
305	NA	FF26001302	HF TR FET MOS P-CH SMD MATRIXMT3401 -30V,-4A SOT-23	Q103		1
306	NA	FF26001300	HF TR FET MOS P-CH SMD NIKO-SP5103EMG -30V,-4.5A SOT-23	Q103		1
307	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q104		1
308	NA	F622020011	TR NPN SMD PANJITMMBT3904 40V 0.2A SOT-23	Q104		1
309	NA	F622002257	TR NPN SMD ZOWIEMMBT3904 SOT-23 40V 0.2A	Q104		1
310	NA	F622002259	TR NPN SMD DIIMMBT3904-7-F SOT-23 40V 0.2A	Q104		1
311	NA	F621015356	TR NPN HF KECKN3904S(Pb-Free) SOT-23 60V 0.	Q104		1
312	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q104		1
313	NA	F623003056	TR PNP SMD LRCLMBT3904LT1G SOT-23 40V 200mA	Q104		1
314	NA	F623010011	TR PNP SMD SeCoSMMBT3906 SOT-23 -0.2A -50V	Q201		1
315	NA	F623020011	TR PNP SMD PANJITMMBT3906 -40V -0.2A SOT-23	Q201		1
316	NA	F623003051	TR PNP SMD DIIMMBT3906-7-F SOT-23 40V 0.2A	Q201		1
317	NA	F623002956	TR PNP SMD ZOWIEMMBT3906, SOT-23 40V 0.2A	Q201		1
318	NA	F623003053	TR PNP SMD PhilipsPMBT3906 SOT-23 -40V-200mA	Q201		1
319	NA	F623003055	TR PNP SMD LRCLMBT3906LT1G SOT-23 -40V-200mA	Q201		1
320	NA	F623010011	TR PNP SMD SeCoSMMBT3906 SOT-23 -0.2A -50V	Q202		1
321	NA	F623020011	TR PNP SMD PANJITMMBT3906 -40V -0.2A SOT-23	Q202		1
322	NA	F623003051	TR PNP SMD DIIMMBT3906-7-F SOT-23 40V 0.2A	Q202		1
323	NA	F623002956	TR PNP SMD ZOWIEMMBT3906, SOT-23 40V 0.2A	Q202		1
324	NA	F623003053	TR PNP SMD PhilipsPMBT3906 SOT-23 -40V-200mA	Q202		1
325	NA	F623003055	TR PNP SMD LRCLMBT3906LT1G SOT-23 -40V-200mA	Q202		1
326	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q401		1
327	NA	F622020011	TR NPN SMD PANJITMMBT3904 40V 0.2A SOT-23	Q401		1
328	NA	F622002257	TR NPN SMD ZOWIEMMBT3904 SOT-23 40V 0.2A	Q401		1
329	NA	F622002259	TR NPN SMD DIIMMBT3904-7-F SOT-23 40V 0.2A	Q401		1
330	NA	F621015356	TR NPN HF KECKN3904S(Pb-Free) SOT-23 60V 0.	Q401		1
331	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q401		1
332	NA	F623003056	TR PNP SMD LRCLMBT3904LT1G SOT-23 40V 200mA	Q401		1
333	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q501		1
334	NA	F622020011	TR NPN SMD PANJITMMBT3904 40V 0.2A SOT-23	Q501		1
335	NA	F622002257	TR NPN SMD ZOWIEMMBT3904 SOT-23 40V 0.2A	Q501		1
336	NA	F622002259	TR NPN SMD DIIMMBT3904-7-F SOT-23 40V 0.2A	Q501		1
337	NA	F621015356	TR NPN HF KECKN3904S(Pb-Free) SOT-23 60V 0.	Q501		1
338	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q501		1
339	NA	F623003056	TR PNP SMD LRCLMBT3904LT1G SOT-23 40V 200mA	Q501		1
340	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q601		1
341	NA	F622020011	TR NPN SMD PANJITMMBT3904 40V 0.2A SOT-23	Q601		1
342	NA	F622002257	TR NPN SMD ZOWIEMMBT3904 SOT-23 40V 0.2A	Q601		1
343	NA	F622002259	TR NPN SMD DIIMMBT3904-7-F SOT-23 40V 0.2A	Q601		1
344	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q601		1
345	NA	F623003056	TR PNP SMD LRCLMBT3904LT1G SOT-23 40V 200mA	Q601		1
346	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q602		1
347	NA	F622020011	TR NPN SMD PANJITMMBT3904 40V 0.2A SOT-23	Q602		1
348	NA	F622002257	TR NPN SMD ZOWIEMMBT3904 SOT-23 40V 0.2A	Q602		1
349	NA	F622002259	TR NPN SMD DIIMMBT3904-7-F SOT-23 40V 0.2A	Q602		1
350	NA	F621015356	TR NPN HF KECKN3904S(Pb-Free) SOT-23 60V 0.	Q602		1
351	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q602		1
352	NA	F623003056	TR PNP SMD LRCLMBT3904LT1G SOT-23 40V 200mA	Q602		1
353	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q603		1
354	NA	F622020011	TR NPN SMD PANJITMMBT3904 40V 0.2A SOT-23	Q603		1
355	NA	F622002257	TR NPN SMD ZOWIEMMBT3904 SOT-23 40V 0.2A	Q603		1
356	NA	F622002259	TR NPN SMD DIIMMBT3904-7-F SOT-23 40V 0.2A	Q603		1
357	NA	F621015356	TR NPN HF KECKN3904S(Pb-Free) SOT-23 60V 0.	Q603		1
358	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q603		1
359	NA	F623003056	TR PNP SMD LRCLMBT3904LT1G SOT-23 40V 200mA	Q603		1
360	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q604		1
361	NA	F622020011	TR NPN SMD PANJITMMBT3904 40V 0.2A SOT-23	Q604		1
362	NA	F622002257	TR NPN SMD ZOWIEMMBT3904 SOT-23 40V 0.2A	Q604		1
363	NA	F622002259	TR NPN SMD DIIMMBT3904-7-F SOT-23 40V 0.2A	Q604		1
364	NA	F621015356	TR NPN HF KECKN3904S(Pb-Free) SOT-23 60V 0.	Q604		1
365	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q604		1
366	NA	F623003056	TR PNP SMD LRCLMBT3904LT1G SOT-23 40V 200mA	Q604		1
367	NA	EA34668309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 68.00KJ T	R101		1
368	NA	EA34633309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 33.00K J T	R102		1
369	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R104		1
370	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R106		1
371	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R107		1
372	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R109		1
373	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R110		1
374	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R111		1
375	NA	EA34610309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00K J T	R113		1
376	NA	EA34610109	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 100.00 J T	R115		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
377	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R116		1
378	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R117		1
379	NA	EA30451903	HF RESISTOR,METAL OXIDE FILM,MRS B 2WS 5.1 ohm J SL	R118		1
380	NA	EA34610009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 J T	R119		1
381	NA	EA34610009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 J T	R120		1
382	NA	EA34610009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 J T	R121		1
383	NA	EA34647109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 470.00 J T	R122		1
384	NA	EA34275099	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 75.00 F T	R123		1
385	NA	EA34275099	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 75.00 F T	R124		1
386	NA	EA34275099	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 75.00 F T	R125		1
387	NA	EA34647009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 47.00 J T	R126		1
388	NA	EA34647009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 47.00 J T	R127		1
389	NA	EA34647009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 47.00 J T	R128		1
390	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R129		1
391	NA	EA34610209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00K J T	R130		1
392	NA	EA34610209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00K J T	R131		1
393	NA	EA34610209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00K J T	R132		1
394	NA	EA34622209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 2.20K J T	R133		1
395	NA	EA34622209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 2.20K J T	R134		1
396	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R135		1
397	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R136		1
398	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R137		1
399	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R138		1
400	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R139		1
401	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R140		1
402	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R141		1
403	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R204		1
404	NA	EA34239209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 392.00 F T	R205		1
405	NA	EA34610309	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K J T	R206		1
406	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R207		1
407	NA	EA34610309	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K J T	R208		1
408	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R209		1
409	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R210		1
410	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R211		1
411	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R212		1
412	NA	EA34627109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 270.00 J T	R213		1
413	NA	EA34639109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 390.00 J T	R214		1
414	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R215		1
415	NA	EA34610309	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K J T	R216		1
416	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R217		1
417	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R218		1
418	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R219		1
419	NA	EA34610309	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K J T	R223		1
420	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R226		1
421	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R227		1
422	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R228		1
423	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R229		1
424	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R230		1
425	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R231		1
426	NA	EA34639209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 3.90K J T	R232		1
427	NA	EA34639209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 3.90K J T	R233		1
428	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R234		1
429	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R235		1
430	NA	EA34610209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00K J T	R236		1
431	NA	EA34610209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00K J T	R237		1
432	NA	EA34610309	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K J T	R238		1
433	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R239		1
434	NA	EA34618209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.80K J T	R240		1
435	NA	EA34618209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.80K J T	R241		1
436	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R242		1
437	NA	EA34622009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 22.00 J T	R243		1
438	NA	EA34622009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 22.00 J T	R244		1
439	NA	EA34622009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 22.00 J T	R245		1
440	NA	EA34622009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 22.00 J T	R246		1
441	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R247		1
442	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R248		1
443	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R249		1
444	NA	EA34600009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 0.00 J T	R250		1
445	NA	EA34647209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 4.70K J T	R401		1
446	NA	EA34610209	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00K J T	R402		1
447	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R403		1
448	NA	EA34610109	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00 J T	R404		1
449	NA	EA34610009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 J T	R405		1
450	NA	EA34610009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 J T	R406		1
451	NA	EA34610009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 J T	R407		1
452	NA	EA34610009	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 J T	R408		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
453	NA	EA34610009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00 J T	R409		1
454	NA	EA34610009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00 J T	R410		1
455	NA	EA34610009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00 J T	R411		1
456	NA	EA34610009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00 J T	R412		1
457	NA	EA34610209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 1.00K J T	R413		1
458	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R414		1
459	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R415		1
460	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R416		1
461	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R417		1
462	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R418		1
463	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R419		1
464	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R501		1
465	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R502		1
466	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R503		1
467	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R504		1
468	NA	EA34622009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 22.00 J T	R505		1
469	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R506		1
470	NA	EA34622009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 22.00 J T	R507		1
471	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R508		1
472	NA	EA34622009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 22.00 J T	R509		1
473	NA	EA34622009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 22.00 J T	R510		1
474	NA	EA34610209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 1.00K J T	R511		1
475	NA	EA34610209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 1.00K J T	R512		1
476	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R513		1
477	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R517		1
478	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R518		1
479	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R519		1
480	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R520		1
481	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R521		1
482	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R522		1
483	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R525		1
484	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R526		1
485	NA	EA34610309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00K J T	R601		1
486	NA	EA34610209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 1.00K J T	R603		1
487	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R604		1
488	NA	EA34610309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00K J T	R605		1
489	NA	EA34668209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 6.80K J T	R607		1
490	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R608		1
491	NA	EA34668209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 6.80K J T	R609		1
492	NA	EA34610309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00K J T	R610		1
493	NA	EA34610309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00K J T	R612		1
494	NA	EA34610309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00K J T	R613		1
495	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R614		1
496	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R615		1
497	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R617		1
498	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R618		1
499	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R619		1
500	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R620		1
501	NA	EA34610309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00K J T	R621		1
502	NA	EA34600009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 0.00 J T	R622		1
503	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R623		1
504	NA	EA34627409	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 270.00KJ T	R625		1
505	NA	EA34627409	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 270.00KJ T	R626		1
506	NA	EA34656109	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 560.00 J T	R628		1
507	NA	EA34656109	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 560.00 J T	R629		1
508	NA	EA34647209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 4.70K J T	R632		1
509	NA	EA34610309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 10.00K J T	R633		1
510	NA	EA34615009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 15.00 J T	R635		1
511	NA	EA34615009	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 15.00 J T	R636		1
512	NA	EA34610209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 1.00K J T	R639		1
513	NA	EA34610209	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 1.00K J T	R640		1
514	NA	EA34610409	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 100.00K J T	R641		1
515	NA	EA34610109	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 100.00 J T	R642		1
516	NA	EA34615309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 15.00K J T	R643		1
517	NA	EA34615309	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 15.00K J T	R644		1
518	NA	EA34682109	HF RESISTOR, THICK FILM CHIP 06RMC 1/10W 820.00 J T	R645		1
519	NA	FF40000101	HF IC, LDO VOLTAGE REGULATOR MT1117-3.3A 3.3V 1A SOT-223	U101		1
520	NA	F640036101	IC, VOLTAGE REGULATOR AXELiteAX1117AE33A SOT223-3L 1A	U101		1
521	NA	F640010160	IC, VOLTAGE REGULATOR ANPECAPL1117-33VC-TRL SOT-223 3PIN	U101		1
522	NA	F640010150	IC, VOLTAGE REGULATOR DIODESAP1117E33L-13 SOT-223-3L	U101		1
523	NA	FF40000103	HF IC, LDO VOLTAGE REGULATOR LSP1117E33AG 3.3V 1A SOT-22	U101		1
524	NA	FF40000100	HF IC, LDO VOLTAGE REGULATOR MT1117-1.8A 1.8V 1A SOT-223	U102		1
525	NA	F640036100	IC, VOLTAGE REGULATOR AXELiteAX1117AE18A SOT223-3L 1A	U102		1
526	NA	F640010185	HF IC, VOLTAGE REGULATOR 1A AAPL1117-18VC-TRG SOT-223	U102		1
527	NA	F640010183	IC, VOLTAGE REGULATOR 1A ANPEAPL1117A-18VE-TRL SOT-223	U102		1
528	NA	F640031014	IC, VOLTAGE REGULATOR DIODESAP1117E18L-13 SOT-223-3L	U102		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
529	NA	FF4000102	HF IC,LDO VOLTAGE REGULATORLSP117E18AG 1.8V 1A SOT-223-3	U102		1
530	NA	F647054250	IC, MEMORY CMOS EEPROM HOLTEKHT24LC02 SOP-8	U103		1
531	NA	F647051862	IC, MEMORY EEPROM CATALYSTCAT24C02WI-GT3 SOIC-8	U103		1
532	NA	F647005555	IC, MEMORY EEPROM 2K ROHMBR24L02F-W SOP-8 SMD	U103		1
533	NA	E053113801	PCB, Main Board PWB-1380-01 130x100mm* 1pcs FR4	U1380		1
534	NA	F647012797	IC LSI SCALER MSTARTSUMO88GDI-LF-1 POPF-128	U201		1
535	NA	F647054251	IC, MEMORY CMOS EEPROM HOLTEKHT24LC16 SOP-8	U203		1
536	NA	F647026357	IC, MEMORY EEPROM CATALYSTCAT24C16WI-GT3 SOIC-8	U203		1
537	NA	F647043177	IC, SPI FLASH MEMORY 2Mb MXICMX25L2005MC-12G SOP-8	U204		1
538	NA	F647011557	IC, Serial Flash Memory PMCPm25LV020-100SCE SOIC-8 (8S)	U204		1
539	NA	F647026866	IC, CMOS FLASH MEMORY 2Mbit SSSST25LF020A-33-4C-SAE SOIC-8	U204		1
540	NA	F647054250	IC, MEMORY CMOS EEPROM HOLTEKHT24LC02 SOP-8	U401		1
541	NA	F647051862	IC, MEMORY EEPROM CATALYSTCAT24C02WI-GT3 SOIC-8	U401		1
542	NA	F647005555	IC, MEMORY EEPROM 2K ROHMBR24L02F-W SOP-8 SMD	U401		1
543	NA	F647054250	IC, MEMORY CMOS EEPROM HOLTEKHT24LC02 SOP-8	U501		1
544	NA	F647051862	IC, MEMORY EEPROM CATALYSTCAT24C02WI-GT3 SOIC-8	U501		1
545	NA	F647005555	IC, MEMORY EEPROM 2K ROHMBR24L02F-W SOP-8 SMD	U501		1
546	NA	F644036863	IC AUDIO POWER AMPLIFIER PAMPAM8603ENHR SSOP24	U601		1
547	NA	F645011150	IC, DIGITAL CMOS TSBTUM088GDI-LF-1 POPF-128	U602		1
548	NA	F644037553	IC, LINEAR ANALOG SWITCHING TISN74LV4066ADR SOIC-14P	U602		1
549	NA	F645017467	IC, DIGITAL CMOS SWITCH STHCF4066M013TR SOIC-14P	U602		1
550	NA	F645017468	IC, DIGITAL CMOS SWITCH UTCU74HC4066G SOP-14	U602		1
551	NA	F647004475	IC, LSI D/A Converter CIRRUSCS4334-KSZ, SOIC8	U603		1
552	NA	FF99106505	HF CRYSTAL UNIT H.ELE14.31818MHZ CF:20PF,+/-30PPM AT	X201		1
553	NA	FF99106506	HF CRYSTAL UNIT HC-49SA HOSONI14.31818MHZ CF:20PF,+/-30PPM	X201		1
554	NA	F699106012	CRYSTAL UNIT HC-49/US Quartz 14.31818MHZ 20PF 30PPM HC-49/U	X201		1
555	NA	FF99106247	HF CRYSTAL UNIT HC-49S FUJIC14.31818MHZ CL=20PF +/-30PPM	X201		1
556	NA	E782972016	CONNECTOR(FPC/FFC BOTTOM)STM6P,P=0.5mm-L,TIN,SMD,LOCK	CON1		1
557	NA	E782972008	CONNECTOR(FPC/FFC BOTTOM)6P,P=0.5mm-L,TIN,SMD,LOCK	CON1		1
558	NA	EZ54500053	HF SWITCH(TACT SMT)CONTACT4P,12V/50mA,200+/-50gf,H=0.55m	SW01		1
559	NA	EZ54500053	HF SWITCH(TACT SMT)CONTACT4P,12V/50mA,200+/-50gf,H=0.55m	SW02		1
560	NA	EZ54500053	HF SWITCH(TACT SMT)CONTACT4P,12V/50mA,200+/-50gf,H=0.55m	SW04		1
561	NA	EZ54500053	HF SWITCH(TACT SMT)CONTACT4P,12V/50mA,200+/-50gf,H=0.55m	SW05		1
562	NA	E053112581	PCB, KEY BOARD FR-4PWB-1258-01 108X15mm T=0.8mm	U1258		1
563	NA	E782972016	CONNECTOR(FPC/FFC BOTTOM)STM6P,P=0.5mm-L,TIN,SMD,LOCK	CON2		1
564	NA	E782972008	CONNECTOR(FPC/FFC BOTTOM)6P,P=0.5mm-L,TIN,SMD,LOCK	CON2		1
565	NA	F618030026	DIODE LED SMD PARAL-155LYQBWT	D001		1
566	NA	F618030024	DIODE LED A/B HARVATEKHT-155UY/NB SMD 1210	D001		1
567	NA	F615020041	DIODE ZENER SMD REEL PANJITMMSZ5227B 3.6V SOD-123	D002		1
568	NA	F615010091	DIODE ZENER SeCoSBZT52C3V6 SOD123	D002		1
569	NA	F615026346	DIODE ZENER LIZCDZ55B3V6 1206 3.6V 0.5W	D002		1
570	NA	F615020041	DIODE ZENER SMD REEL PANJITMMSZ5227B 3.6V SOD-123	D003		1
571	NA	F615010091	DIODE ZENER SeCoSBZT52C3V6 SOD123	D003		1
572	NA	F615026346	DIODE ZENER LIZCDZ55B3V6 1206 3.6V 0.5W	D003		1
573	NA	EZ54500053	HF SWITCH(TACT SMT)CONTACT4P,12V/50mA,200+/-50gf,H=0.55m	SW03		1
574	NA	E270116001	CAPACITOR,METALLIZED ETRX2 AC275V 0.33uFK P=15MM	C801		1
575	NA	E270114001	CAPACITOR,METALLIZED Shiny SpX1 AC300V 0.33UF P=15MM	C801		1
576	NA	E230108301	CAPACITOR,CERAMIC(CD) P=10MMY1 AC 250V 1000.00PFM *(TDK)	C803		1
577	NA	E230108401	CAPACITOR,CERAMIC(AH) P=10MMY1 AC250V 1000.00PFM *(Pan-Ov)	C803		1
578	NA	E230108501	CAPACITOR,CERAMIC(NS-A) P=10MMY1 AC 250V 1000.00PFM *(Mats)	C803		1
579	NA	E230108301	CAPACITOR,CERAMIC(CD) P=10MMY1 AC 250V 1000.00PFM *(TDK)	C804		1
580	NA	E230108401	CAPACITOR,CERAMIC(AH) P=10MMY1 AC250V 1000.00PFM *(Pan-Ov)	C804		1
581	NA	E230108501	CAPACITOR,CERAMIC(NS-A) P=10MMY1 AC 250V 1000.00PFM *(Mats)	C804		1
582	NA	EB14040204	HF CAP.,ELEC. (105C) LelonCE04W 450V 100.00UFM 18x35.5	C805		1
583	NA	E249903591	Cap Ceramic Shiny Space1KV 68pFJ P=5MM	C806		1
584	NA	EB30833191	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 330.00PFK T 0805	C807		1
585	NA	EB16042491	HF CAP.,ELEC. LOW ESR 105C50V 47.00UFM T 6.3x11mm P=2	C808		1
586	NA	E216021992	CAP.,ELEC. LOW ESR 105C Che50V 47.00UFM T 6.3x11mm P=2	C808		1
587	NA	E216021902	CAP.,ELEC. LOW ESR 105C KYCE04CH 50V 47.00UFM * 6.3X11	C808		1
588	NA	EB16040991	HF CAP.,ELEC. LOW ESR 105C25V 680.00UFM T 10x20mm P=5.0	C809		1
589	NA	E216031091	CAP.,ELEC. LOW ESR 105C KYCE04CH 25V 680.00UFM * 10x20	C809		1
590	NA	EB16039702	HF CAP.,ELEC. LOW ESR SusconCE04CH 50V 10.00UFM * 5x11	C810		1
591	NA	E216022102	CAP.,ELEC. LOW ESR 105C KYCE04CH 50V 10.00UFM * 5X11	C810		1
592	NA	E216046191	CAP.,ELEC. LOW ESR 105C Chemi50V 10.00UFM T 5X11 P=2.5mm	C810		1
593	NA	EB16041791	HF CAP.,ELEC. LOW ESR 105C50V 10.00UFM T 5X11 P=2.5mm	C810		1
594	NA	EB16040491	HF CAP.,ELEC. LOW ESR 105C RZW25V 330.00UFM T 8x15 P=3.5mm	C811		1
595	NA	E216032791	CAP.,ELEC. LOW ESR 105C KYCE04CH 25V 330.00UFM * 8x15mm	C811		1
596	NA	E216040402	CAP.,ELEC. LOW ESR 105C Le25V 330.00UFM 8x15 P=3.5mm	C811		1
597	NA	E275122491	CAPACITOR,METALLIZED EPCOS63V 0.22uFJ T P=5MM	C812		1
598	NA	E216046291	CAP.,ELEC. LOW ESR 105C Chemi50V 22.00UFM T 5x11 P=2.5mm	C814		1
599	NA	EB16041891	HF CAP.,ELEC. LOW ESR 105C50V 22.00UFM T 5X11 P=2.5mm	C814		1
600	NA	E216030602	CAP.,ELEC. LOW ESR 105C KYCE04CH 50V 22.00UFM * 5x11	C814		1
601	NA	EB30007391	HF CAPACITOR,MONOLITHIC SMD REX7R 25V 0.1uFK 0805	C815		1
602	NA	E230109101	CAPACITOR,CERAMIC (CD) P=10MMY1 AC 250V 3300.00PFM * TDK	C816		1
603	NA	E230109001	CAPACITOR,CERAMIC (AH) P=10MMY1 AC 250V 3300PFM * Pan Over	C816		1
604	NA	E231006991	CAPACITOR,MONOLITHIC SHINY SP200V 470.00PFK T P=5.08 mm	C817		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
605	NA	E231007091	CAPACITOR,MONOLITHIC SHINY SP100V 470.00pFK T P=5.08 mm	C817		1
606	NA	E216026491	CAP.,ELEC. LOW ESR 105C KYCEO4CH 16V 1000.00UFM * 10x20	C818		1
607	NA	E216040391	CAP.,ELEC. LOW ESR LelonCEO4CH 16V 1000.00UFM T 10x20	C818		1
608	NA	EB16040491	HF CAP.,ELEC. LOW ESR 105C RZW25V 330.00UFM T 8x15 P=3.5mm	C819		1
609	NA	E216032791	CAP.,ELEC. LOW ESR 105C KYCEO4CH 25V 330.00UFM * 8x15mm	C819		1
610	NA	E216040402	CAP.,ELEC. LOW ESR 105C Le25V 330.00UFM 8x15 P=3.5mm	C819		1
611	NA	E231006991	CAPACITOR,MONOLITHIC SHINY SP200V 470.00pFK T P=5.08 mm	C820		1
612	NA	E231007091	CAPACITOR,MONOLITHIC SHINY SP100V 470.00pFK T P=5.08 mm	C820		1
613	NA	E216026491	CAP.,ELEC. LOW ESR 105C KYCEO4CH 16V 1000.00UFM * 10x20	C821		1
614	NA	E216040391	CAP.,ELEC. LOW ESR LelonCEO4CH 16V 1000.00UFM T 10x20	C821		1
615	NA	E224610291	CAPACITOR,POLYESTER EUROPTDC 630V 0.001uFJ T P=5MM	C824		1
616	NA	E249902301	CAPACITOR,CERAMIC P=7.5MM TDKSL DC 6KV 10.00PFJ *	C851		1
617	NA	E249903001	CAPACITOR,CERAMIC P=7.5MM TDKSL DC 3KV 3.00PFC	C852		1
618	NA	E249902701	CAPACITOR,CERAMIC P=7.5MM TDKSL DC 6KV 3.00PFC *	C852		1
619	NA	EB16040491	HF CAP.,ELEC. LOW ESR 105C RZW25V 330.00UFM T 8x15 P=3.5mm	C853		1
620	NA	E216032791	CAP.,ELEC. LOW ESR 105C KYCEO4CH 25V 330.00UFM * 8x15mm	C853		1
621	NA	E216040402	CAP.,ELEC. LOW ESR 105C Le25V 330.00UFM 8x15 P=3.5mm	C853		1
622	NA	EB30668391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V 6800.00PFK T 0603	C855		1
623	NA	E249902301	CAPACITOR,CERAMIC P=7.5MM TDKSL DC 6KV 10.00PFJ *	C856		1
624	NA	EB30013091	HF CAPACITOR,MONOLITHIC SMD REX7R DC 25V 0.01UFK T 0603	C858		1
625	NA	EB30610391	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 10000.00PFK T 0603	C858		1
626	NA	EB30011191	HF CAPACITOR,MONOLITHIC SMD REX7R DC 16V 1.00UFK T 0805	C859		1
627	NA	EB30610291	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 1000.00PF K 0603	C860		1
628	NA	EB30008791	HF CAPACITOR,MONOLITHIC SMD REY5V 25V 0.47UFZ T 0603	C861		1
629	NA	EB30012991	HF CAPACITOR,MONOLITHIC SMD REY5V 16V 0.47UFZ T 0603	C861		1
630	NA	E249903001	CAPACITOR,CERAMIC P=7.5MM TDKSL DC 3KV 3.00PFC	C862		1
631	NA	E249902701	CAPACITOR,CERAMIC P=7.5MM TDKSL DC 6KV 3.00PFC *	C862		1
632	NA	EB30633391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V 0.033uPFK T 0603	C863		1
633	NA	EB40647192	HF CAPACITOR,MONOLITHIC SMD RENPO 50V 470.00PFJ T 0603	C864		1
634	NA	EB30024591	HF CAPACITOR,MONOLITHIC SMD REX7R DC 16V 2.2UFK T 0805	C867		1
635	NA	EB30622391	HF CAPACITOR,MONOLITHIC SMD REX7R 50V 0.022uFK T 0603	C868		1
636	NA	EB30668291	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V 6800.00PFK T 0603	C870		1
637	NA	EB30668391	HF CAPACITOR,MONOLITHIC SMD REX7R DC 50V 6800.00PFK T 0603	C871		1
638	NA	EB40647191	HF CAPACITOR,MONOLITHIC SMD RENPO 50V 470.00PFJ T 0603	C872		1
639	NA	EB40647191	HF CAPACITOR,MONOLITHIC SMD RENPO 50V 470.00PFJ T 0603	C873		1
640	NA	EA34224939	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 249.00K F T	C874		1
641	NA	EB16040491	HF CAP.,ELEC. LOW ESR 105C RZW25V 330.00UFM T 8x15 P=3.5mm	C876		1
642	NA	E216032791	CAP.,ELEC. LOW ESR 105C KYCEO4CH 25V 330.00UFM * 8x15mm	C876		1
643	NA	E216040402	CAP.,ELEC. LOW ESR 105C Le25V 330.00UFM 8x15 P=3.5mm	C876		1
644	NA	F611024860	DIO.BRIDGE RECTIFIER LITEONKBP208GL 800V/4A KBP DIP-4P	D801		1
645	NA	F615095002	DIODE,BRIDGES SHINDENGENUD4KB80 800V/4A 4P	D801		1
646	NA	F611024865	DIODE,BRIDGE RECTIFIER LITEONKBP408G 800V/4A KBP	D801		1
647	NA	F611006861	DIODE RECTIFIER DI PANJITPS1010R 1000V/1A,DO-41	D802		1
648	NA	F611010815	DIODE,HIGH EFFICIENCY RECTIFIEFR107 1000V/1A DO-41	D802		1
649	NA	F615026844	DIODE TVS SUPPRESSOR SECOSP6KE180A DO-15 171V-189V	D804		1
650	NA	F615026953	DIODE TVS SUPPRESSOR PANJITP6KE180A DO-15 171V-189V	D804		1
651	NA	F615026954	DIODE TVS SUPPRESSOR TSCP6KE180A DO-15 171V-189V	D804		1
652	NA	F615020010	DIODE ZENER SMD REEL PANJITMMSZ5250A 20V 500mW SOD-123	D805		1
653	NA	F615020009	DIODE ZENER SMD REEL PANJITMMSZ5250B 20V 500mW SOD-123	D805		1
654	NA	F615026348	DIODE ZENER LIZCDZ55B20 1206 20V 0.5W	D805		1
655	NA	F615025155	DIODE ZENER SMD REEL PANJITMMSZ5245B 14.25-15.75V SOD-123	D806		1
656	NA	F615025161	DIODE ZENER SMD REEL DIODESMMSZ5245B-7-F 15V SOD-123	D806		1
657	NA	F611006861	DIODE RECTIFIER DI PANJITPS1010R 1000V/1A,DO-41	D807		1
658	NA	F611010815	DIODE,HIGH EFFICIENCY RECTIFIEFR107 1000V/1A DO-41	D807		1
659	NA	F613030019	DIODE SWITCHING SMD ShaveLL4148WP,100V 500mA CHIP 1206	D809		1
660	NA	F613003753	DIODE SWITCHING SMD PANJITN4148W 75V 150mA SMD	D809		1
661	NA	F613010043	DIODE SWITCHING SMD LITEONLS4148W 100V/300mA 1206	D809		1
662	NA	F613003759	DIODE SWITCHING SMD LIZCD4148WP 75V 150mA 1206	D809		1
663	NA	F613003758	DIODE SWITCHING SMD CTCCT4148WP 75V 150mA 1206	D809		1
664	NA	F611010509	DIO.SCHOTTKY RECTIFIER PANJITSB10100FCT 100V/10A ITO-220AB	D813		1
665	NA	F611010419	DIODE SCHOTTKY RECTIFIER SECOSBR10100F 100V/10A,ITO-220	D813		1
666	NA	F611010409	DIODE SCHOTTKY RECTIFIER SecosSP10100 100V/10A ITO-220	D813		1
667	NA	F611041002	DIODE, SCHOTTKY BARRIER KECMBRF10100CT T0-220IS	D813		1
668	NA	F611010213	DIODE SCHOTTKY RECTIFIER LITMBRF10100CT,ITO-220AB 100V/10	D813		1
669	NA	E646402209	HEAT SINK L:24 W:13 H:18L17PCAG	D813M		1
670	NA	M134161152	SCREW,PZS M3x8 Cr3+PZS M3x8 S TYPE Cr3+	D813N		1
671	NA	F611010412	DIODE SCHOTTKY RECTIFIER SECSP1040 40V/10A ITO-220	D814		1
672	NA	F611010511	DIODE SCHOTTKY RECTIFIER PASB1040FCT 40V/10A ITO-220AB	D814		1
673	NA	F611010519	DIODE SCHOTTKY RECTIFIER LITSBF1045CT 40V/10A ITO-220AB	D814		1
674	NA	F613000557	DIO.SW.DUAL SMD PANJITBAV70 SOT-23 75V 150mA	D851		1
675	NA	F613000556	DIODE DUAL SWITCH DIODESBAV70-7-F SOT-23 75V 150mA	D851		1
676	NA	F611090032	DIODE SWITCHING KECKDS184RTK/P,SOT23	D851		1
677	NA	F613000765	DIODE FAST SWITCHING SMD LRCLBAV70LT1G 75V 200mA SOT-23	D851		1
678	NA	F613000763	DIODE FAST SWITCHING SMD LITLSBAV70 70V 200mA SOT-23	D851		1
679	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D852		1
680	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D852		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
681	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D852		1
682	NA	F613000557	DIO.SW.DUAL SMD PANJITBAV70 SOT-23 75V 150mA	D853		1
683	NA	F613000556	DIODE DUAL SWITCH DIODESBAV70-7-F SOT-23 75V 150mA	D853		1
684	NA	F611090032	DIODE SWITCHING KECKDS184RTK/P_SOT23	D853		1
685	NA	F613000765	DIODE FAST SWITCHING SMD LRCLBAV70LT1G 75V 200mA SOT-23	D853		1
686	NA	F613000763	DIODE FAST SWITCHING SMD LITLSBAV70 70V 200mA SOT-23	D853		1
687	NA	F613030019	DIODE SWITCHING SMD ShawelLL4148WP,100V 500mA CHIP 1206	D856		1
688	NA	F613003753	DIODE SWITCHING SMD PANJITIN4148W 75V 150mA SMD	D856		1
689	NA	F613010043	DIODE SWITCHING SMD LITEONLS4148W 100V/300mA 1206	D856		1
690	NA	F613003759	DIODE SWITCHING SMD LIZCD4148WP 75V 150mA 1206	D856		1
691	NA	F613003758	DIODE SWITCHING SMD CTCCT4148WP 75V 150mA 1206	D856		1
692	NA	F613030019	DIODE SWITCHING SMD ShawelLL4148WP,100V 500mA CHIP 1206	D857		1
693	NA	F613003753	DIODE SWITCHING SMD PANJITIN4148W 75V 150mA SMD	D857		1
694	NA	F613010043	DIODE SWITCHING SMD LITEONLS4148W 100V/300mA 1206	D857		1
695	NA	F613003759	DIODE SWITCHING SMD LIZCD4148WP 75V 150mA 1206	D857		1
696	NA	F613003758	DIODE SWITCHING SMD CTCCT4148WP 75V 150mA 1206	D857		1
697	NA	F613000759	DIODE SWITCHING SMD SECOSBAV99 70V 215MA DUAL SOT-23	D858		1
698	NA	F613000554	DIODE SWITCHING PANJITBAV99 75V,0.15A SOT-23 REEL	D858		1
699	NA	F613000760	DIODE SWITCHING SMD NXPBAV99 SOT-23 100V 215mA	D858		1
700	NA	F613000766	DIODE FAST SWITCHING SMD LRCLBAV99LT1G 70V 215mA SOT-23	D858		1
701	NA	F613000764	DIODE FAST SWITCHING SMD LITLSBAV99 70V 200mA SOT-23	D858		1
702	NA	F613030019	DIODE SWITCHING SMD ShawelLL4148WP,100V 500mA CHIP 1206	D859		1
703	NA	F613003753	DIODE SWITCHING SMD PANJITIN4148W 75V 150mA SMD	D859		1
704	NA	F613010043	DIODE SWITCHING SMD LITEONLS4148W 100V/300mA 1206	D859		1
705	NA	F613003759	DIODE SWITCHING SMD LIZCD4148WP 75V 150mA 1206	D859		1
706	NA	F613003758	DIODE SWITCHING SMD CTCCT4148WP 75V 150mA 1206	D859		1
707	NA	F613000759	DIODE SWITCHING SMD SECOSBAV99 70V 215MA DUAL SOT-23	D860		1
708	NA	F613000554	DIODE SWITCHING PANJITBAV99 75V,0.15A SOT-23 REEL	D860		1
709	NA	F613000760	DIODE SWITCHING SMD NXPBAV99 SOT-23 100V 215mA	D860		1
710	NA	F613000766	DIODE FAST SWITCHING SMD LRCLBAV99LT1G 70V 215mA SOT-23	D860		1
711	NA	F613000764	DIODE FAST SWITCHING SMD LITLSBAV99 70V 200mA SOT-23	D860		1
712	NA	F613030019	DIODE SWITCHING SMD ShawelLL4148WP,100V 500mA CHIP 1206	D868		1
713	NA	F613003753	DIODE SWITCHING SMD PANJITIN4148W 75V 150mA SMD	D868		1
714	NA	F613010043	DIODE SWITCHING SMD LITEONLS4148W 100V/300mA 1206	D868		1
715	NA	F613003759	DIODE SWITCHING SMD LIZCD4148WP 75V 150mA 1206	D868		1
716	NA	F613003758	DIODE SWITCHING SMD CTCCT4148WP 75V 150mA 1206	D868		1
717	NA	F613030019	DIODE SWITCHING SMD ShawelLL4148WP,100V 500mA CHIP 1206	D869		1
718	NA	F613003753	DIODE SWITCHING SMD PANJITIN4148W 75V 150mA SMD	D869		1
719	NA	F613010043	DIODE SWITCHING SMD LITEONLS4148W 100V/300mA 1206	D869		1
720	NA	F613003759	DIODE SWITCHING SMD LIZCD4148WP 75V 150mA 1206	D869		1
721	NA	F613003758	DIODE SWITCHING SMD CTCCT4148WP 75V 150mA 1206	D869		1
722	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D870		1
723	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D870		1
724	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D870		1
725	NA	F615020031	DIODE ZENER SMD REEL PANJITMMSZ5232B 5.6V 500mW SOD-123	D871		1
726	NA	F615010051	DIODE ZENER SeCoSMMSZ5232B SOD123	D871		1
727	NA	F615026347	DIODE ZENER LIZCDZ55B5V6 1206 5.6V 0.5W	D871		1
728	NA	EZ54440094	HF Time Delay Fuse BELRST 4 250V 4A	F801		1
729	NA	EZ54440093	HF Time Delay Fuse BUSSMANNSS-5-4A 250V 4A	F801		1
730	NA	EZ54450096	HF Time Delay Fuse BELRST 5 250V 5A	F802		1
731	NA	EZ54450095	HF Time Delay Fuse BUSSMANNSS-5-5A 250V 5A	F802		1
732	NA	EZ54450096	HF Time Delay Fuse BELRST 5 250V 5A	F803		1
733	NA	EZ54450095	HF Time Delay Fuse BUSSMANNSS-5-5A 250V 5A	F803		1
734	NA	F644009256	IC INTEGRATED OFFI-LINE SWITCHTOP256EN eSIP-7C	I801		1
735	NA	E646441201	HEAT SINKALUMINUM 6063	I801M		1
736	NA	M134161152	SCREW,PZS M3x8 Cr3+PZS M3x8 S TYPE Cr3+	I801N		1
737	NA	E646528700	TRANSISTOR COVERNYLON 66 UL94-VO-30%GF	I801P		1
738	NA	F642003102	IC PHOTO COUPLER VISHAYTCET1103-E3 4PIN	I803		1
739	NA	F642002910	IC PHOTO COUPLER TSBTLP421F(D4-GR) DIP-4 Pb-Free	I803		1
740	NA	F642002908	IC PHOTO COUPLER SHARPPC123Y22FZ0F DIP-4	I803		1
741	NA	F642002912	IC PHOTO COUPLER LITEONLTV-817MB-V DIP-4	I803		1
742	NA	F642002909	IC PHOTO COUPLER COSMOK1010-3B DIP-4	I803		1
743	NA	F642002913	IC PHOTO COUPLER TOSHIBATLP781F(D4-GR,F) DIP-4	I803		1
744	NA	F640341007	IC VOLTAGE REGULATOR BCDAS431AZTR-E1 40V TO-92	I804		1
745	NA	F640004102	IC,VOLTAGE REGULATOR SECOSTL431-E TO-92	I804		1
746	NA	F640004200	IC,VOLTAGE REGULATOR AMEAME431BAJATA25Z TO92-3	I804		1
747	NA	F646000661	IC Digital PWM CONTROL O2MICROOZ9938GN-B SOIC-16	I851		1
748	NA	F626030059	TR,N&P-CH POWER MOSFET APECAP4525GEH TO-252-4L	I852		1
749	NA	F626180016	TR,(N AND P-Channel) MOSFET SaSTU407DH TO-252-4L	I852		1
750	NA	F626030059	TR,N&P-CH POWER MOSFET APECAP4525GEH TO-252-4L	I853		1
751	NA	F626180016	TR,(N AND P-Channel) MOSFET SaSTU407DH TO-252-4L	I853		1
752	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J801		0.015
753	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J802		0.02
754	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J803		0.015
755	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J804		0.015
756	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J805		0.015

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
757	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J806		0.02
758	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J807		0.0075
759	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J808		0.02
760	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J809		0.02
761	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J810		0.02
762	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J811		0.015
763	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J812		0.0075
764	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J813		0.02
765	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J814		0.02
766	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J815		0.0075
767	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J816		0.02
768	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J817		0.02
769	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J818		0.015
770	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J819		0.015
771	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J820		0.015
772	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	J821		0.02
773	NA	E061133033	Coil Filter JSIJS09LF02(TLF-E008) 12mH 18.5	L801		1
774	NA	E061133042	Coil Filter YAO SHENGY503520005 (TLF-E008)	L801		1
775	NA	F119201001	Solder Tin Soft Copper Wire7TCU-5 OD:0.6mm	L802		0.0075
776	NA	E062178007	Coil Choke JSIJS09CH04 (CHK-437) 0.8mm x 8	L803		1
777	NA	E062178008	Coil Choke YAO SHENGY503510004 (CHK-437) 0.8mm x 8	L803		1
778	NA	E782792008	CONNECTOR(AC SOCKET)TECX3P,UL/VDE,15A/250V,MALE	P801		1
779	NA	E782792007	CONNECTOR(AC SOCKET)I-SHENG3P,UL/VDE,15A/250V,FEMALE	P801		1
780	NA	E648007300	GROUND TERMINAL08x12.5x0.3t	P802M		1
781	NA	E782510013	CONNECTOR(BOX HEADER DIP)JWT10P,P=2.0mm-L,R/A,TIN	P851		1
782	NA	E782510087	CONNECTOR(BOX HEADER DIP)STM2P,P=3.5MM-L,R/A,TIN	P852		1
783	NA	E782510093	CONNECTOR(BOX HEADER DIP)JWT2P,P=3.5MM-L,R/A,TIN	P852		1
784	NA	E782510087	CONNECTOR(BOX HEADER DIP)STM2P,P=3.5MM-L,R/A,TIN	P853		1
785	NA	E782510093	CONNECTOR(BOX HEADER DIP)JWT2P,P=3.5MM-L,R/A,TIN	P853		1
786	NA	E782510087	CONNECTOR(BOX HEADER DIP)STM2P,P=3.5MM-L,R/A,TIN	P854		1
787	NA	E782510093	CONNECTOR(BOX HEADER DIP)JWT2P,P=3.5MM-L,R/A,TIN	P854		1
788	NA	E782510087	CONNECTOR(BOX HEADER DIP)STM2P,P=3.5MM-L,R/A,TIN	P855		1
789	NA	E782510093	CONNECTOR(BOX HEADER DIP)JWT2P,P=3.5MM-L,R/A,TIN	P855		1
790	NA	F621015356	TR NPN HF KECKN3904S(Pb-Free) SOT-23 60V 0.	Q851		1
791	NA	F622010011	TR NPN SMD SeCoSMMBT3904 0.2A 60V SOT-23	Q851		1
792	NA	F623003054	TR PNP SMD PhilipsPMBT3904 SOT-23 40V 200mA	Q851		1
793	NA	E101111305	THERMISTOR NTC SCK054 THINKING4A 5 ohm SCK10054MMY502	R801		1
794	NA	EA38110049	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 1.00M F T	R802		1
795	NA	EA38110049	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 1.00M F T	R803		1
796	NA	EA30310206	HF RESISTOR,METAL OXIDE FILM,MRS 08 B 1W 1.00K J	R804		1
797	NA	EA30310190	HF RESISTOR,METAL OXIDE FILMRS 08 B 1WS 100.00 J T=52mm	R805		1
798	NA	EA37280619	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 8.06K F T	R808		1
799	NA	EA30822590	HF RESISTOR,METAL OXIDE FILMRS 08 B 1/4W 2.20M J T=52mm	R810		1
800	NA	EA38110009	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 100.00 F T	R812		1
801	NA	EA30822590	HF RESISTOR,METAL OXIDE FILMRS 08 B 1/4W 2.20M J T=52mm	R813		1
802	NA	EA37668909	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 6.80 J T	R814		1
803	NA	EA37220009	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 200.00 F T	R815		1
804	NA	EA37210019	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 1.00K F T	R816		1
805	NA	EA37210009	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 100.00 F T	R818		1
806	NA	EA37210019	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 1.00K F T	R819		1
807	NA	EA38114029	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 14.0K F T	R820		1
808	NA	EA38133099	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 33.00 F T	R821		1
809	NA	EA38110029	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 10.00K F T	R822		1
810	NA	EA38133099	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 33.00 F T	R823		1
811	NA	EA38110029	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 10.00K F T	R824		1
812	NA	EA38125539	HF RESISTOR,THICK FILM CHIP 12RMC 1/4W 255K F T	R825		1
813	NA	EA38110099	HF RESISTOR,THECK FILM CHIP 12RMC 1/8W 10.00 F T	R827		1
814	NA	EA30822590	HF RESISTOR,METAL OXIDE FILMRS 08 B 1/4W 2.20M J T=52mm	R828		1
815	NA	EA30822590	HF RESISTOR,METAL OXIDE FILMRS 08 B 1/4W 2.20M J T=52mm	R829		1
816	NA	EA37251119	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 5.11K F T	R834		1
817	NA	EA34210029	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K F T	R851		1
818	NA	EA34210099	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 F T	R852		1
819	NA	EA34224929	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 24.90K F T	R853		1
820	NA	EA34224939	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 249.00K F T	R854		1
821	NA	EA34222199	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 22.10 F T	R855		1
822	NA	EA37222199	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 22.10 F T	R857		1
823	NA	EA34210029	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K F T	R858		1
824	NA	EA34210029	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K F T	R859		1
825	NA	EA34230129	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 30.10K F T	R860		1
826	NA	EA34210029	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K F T	R861		1
827	NA	EA34210039	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00K F T	R862		1
828	NA	EA34210049	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00M F T	R863		1
829	NA	EA37210099	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 10.00 F T	R864		1
830	NA	EA34217409	HF RESISTOR THICK FILM CHIP 06RMC 1/10W 174.0 F T	R865		1
831	NA	EA36005517	HF RESISTOR,HIGH VOLT KOA1/2W 2.5KV 3M J(RCR50+type)	R866		1
832	NA	EA36005518	HF RESISTOR,HIGH VOLT QUEENHV 1/2-T52-3.0MRJ 1/2W 3Mohm	R866		1

Item	ViewSonic P/N	P/N	Description	Location	Universal	Q'ty
833	NA	EA34290909	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 909.00F T	R867		1
834	NA	EA34239219	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 3.92K F T	R868		1
835	NA	EA34239219	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 3.92K F T	R869		1
836	NA	EA34234029	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 34.00K F T	R870		1
837	NA	EA34231629	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 31.6KF T	R871		1
838	NA	EA34242229	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 42.20K F T	R873		1
839	NA	EA36005517	HF RESISTOR,HIGH VOLT KOA1/2W 2.5KV 3M J(RCR50+type)	R874		1
840	NA	EA36005518	HF RESISTOR,HIGH VOLT QUEENHV 1/2-T52-3.0MRJ 1/2W 3Mohm	R874		1
841	NA	EA34290909	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 909.00F T	R875		1
842	NA	EA34210019	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00K F T	R876		1
843	NA	EA37210099	HF RESISTOR,THICK FILM CHIP 08RMC 1/8W 10.00 F T	R877		1
844	NA	EA34210099	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00 F T	R878		1
845	NA	EA34210039	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00K F T	R879		1
846	NA	EA34210019	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00K F T	R880		1
847	NA	EA34210039	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 100.00K F T	R881		1
848	NA	EA34210029	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 10.00K F T	R883		1
849	NA	EA34210049	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 1.00M F T	R884		1
850	NA	EA34257639	HF RESISTOR,THICK FILM CHIP 06RMC 1/10W 576.00K F T	R887		1
851	NA	E101117104	VARISTOR THINKINGTVR10561KFCA3Y AC350V/DC560V(1	RV801		1
852	NA	E061381111	Transformer Power JSITPW-E904 (JS09SW17 )	T801		1
853	NA	E061381603	Transformer Power YAO SHENTPW-E904 (YS03560014 )	T801		1
854	NA	E061381643	Transformer DARFONTPW-E817A(TK.4303Z.101)	T851		1
855	NA	E061381309	Inverter Transformer TAIWAN THTPW-E817A(TLT-2720) EEL-22	T851		1
856	NA	E053112722	PCB,POWER BOARDPW-B1272-02B 167X115mm CAM-1	U801		1
857	NA	E030519018	SWITCH POWER SUPPLY LABELTAI-4524	V801		1
858	NA	E036200041	SCREWL=5.6mm	CN102A		2
859	NA	E036200041	SCREWL=5.6mm	CN401A		2
860	CB-00009400	E057410073	Wire Ass'y W10/7P Conn.UL1007#24 L=85+-5mm A2001H02-1	P101A		1
861	CB-00009617	E784630568	Flexible Flet Cable 30P ASKA1.0x30x138mm B 6/12.5,(4/3) L=	P102A		1
862	CB-00009618	E784630569	Flexible Flet Cable 30P CviLux1.0x30x138mm B 6/12.5,(4/3) L=	P102A		1
863	CB-00008932	E784613500	FFC 13P/6/60.5x12x504mm P 13P/6/6 6/6,3/3	P201A		1
864	E-00010280	E055109040	Speaker BOX Ass'y Mei Shan2W 4 ohm 57*23*14 with cable	SPEAKR		1
865	E-00010281	E055109050	Speaker BOX Ass'y SYD2W 4 ohm 57*23*14 LCH:220mm RC	SPEAKR		1
866	C-00010449	EF41134601	Front CoverVSC Calico DUAL, HDMI, AUDIO	6F01		1
867	M-00008547	E642472909	VSC BIRD LOGO8.0MMx11.0MM	6F01M		1
868	DC-00010539	EZ30406141	POP LABEL95.0mmx28.0mm	6F01N		1
869	NA	EF42024706	RUBBER PAD 20 x 6 x 2.6mm(不含背膠厚)	6F01Q		2
870	C-00010458	EF42385101	Power Bottom RingVSC Calico, Electroplate	6F02		1
871	C-00010459	EF42859401	Power BottomVSC Calico, Painting Laser cut	6F03		1
872	NA	EF42473119	PET	6F03M		1
873	C-00010460	E642859400	FUNCTION KEYABS 94HB TEXTURE MT-11010	6F04		1
874	C-00010457	EF42385300	Power Bottom CoverVSC Calico, No Paint	6F05		1
875	C-00010450	E641123011	BACK COVERVSC Calico, Dual, HDMI, AUDIO	6B01		1
876	NA	E642468900	HI POT LABEL7 x 7 (MM)	6B01M		1
877	NA	EF47705400	Base BracketL22 VSC Calico	5S02		1
878	NA	MZ34251652	SCREW BFB M4X12 S-Cr3+BFB M4.0x12 S-Cr3+	5S02M		2
879	HW-00009382	EF43801910	HingeL22, VSC Calico	5V01		1
880	NA	MZ34251652	SCREW BFB M4X12 S-Cr3+BFB M4.0x12 S-Cr3+	5V01M		3
881	NA	EF41433600	NeckVSC Calico, No Paint	6V02		1
882	NA	M134161182	SCREW,PZP M3.0x08 S-ZN-Cr3+PZP M3.0X08 P TYPE S-ZN-Cr3+	6V02M		1
883	NA	EF42385201	Neck RingVSC Calico, Electroplate	6V03		1
884	NA	EF41433700	BaseVSC Calico, No Paint	6V01		1
885	M-00008662	EF42025416	RUBBER FOOTD=15mm H=1.6mm(含背膠厚)	6V01M		6
886	NA	MA90056006	SCREW MS HAND DRIVE M5x10 NiMS C cheese M5x10 Ni	6V01N		1
887	NA	EF47705300	Main BracketVSC Calico, Dual, HDMI, AUDIO	5S01		1
888	NA	MZ04261416	(HF) SCREW PFS M4x10 S-Zn-B Cr(HF) PFS M4x10 S-Zn-B Cr3+	5S01M		4
889	NA	EF46525416	PANEL PROTECTIVE MYLAR495mmx290mmx0.075mm,PET	6F01Q		1
890	NA	MA90056200	SCREW TS CROSS RUD HEAD PRWS+STS C CLR M3x3 4x5 PRWS+S	SP01M		4
891	NA	MA36160652	SCREW PRWS M3.0x06 S-ZN-Cr3+PRWS M3.0x06 S-TITE S-ZN-Cr3+	U1380M		2
892	NA	MZ01170612	SCREW.ISO PP M3.0X06 S-ZN-Cr3+C PAN M3.0X6 MS ZN-Cr3+	U1380N		1
893	NA	MA36160652	SCREW PRWS M3.0x06 S-ZN-Cr3+PRWS M3.0x06 S-TITE S-ZN-Cr3+	U801M		4
894	NA	MA60251152	(HF) SCREW,TOOTH LOCK-EXT M4X8HF PZS+L M4x08 S-Zn-Cr3+	U801N		1
895	NA	EF42024750	RUBBER PAD 10 x 10 x 7mm(不含背膠厚)	V901M		4
896	P-00010515	IE14390656	CARTON VX2239WmE575x113x451Hmm ABS16.0kg	1P01		1
897	P-00010516	IE24390456	EPS-L L22HCFV213x107x434 Hmm SG0.018	1P02		1
898	P-00010517	IE24390556	EPS-R L22HCFV213x107x434 Hmm SG0.018	1P03		1
899	P-00010445	I534560156	EPE BAG580x400 T=05	1P04		1
900	P-00008921	I554141000	PE BAG0.04x 350x 250	1P05		2
901	NA	E030409109	BLANK CARTON LABEL76x 124mm	9P01		1

# \* *Reader's Response* \*

Dear Readers:

Thank you in advance for your feedback on our Service Manual, which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic Corporation.

## Assessment

**A.** What do you think about the content of this Service Manual?

<i>Unit</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
<b>1. Precautions and Safety Notices</b>				
<b>2. Specification</b>				
<b>3. Front Panel Function Control Description</b>				
<b>4. Circuit Description</b>				
<b>5. Adjustment Procedure</b>				
<b>6. Troubleshooting Flow Chart</b>				
<b>7. Block Diagrams</b>				
<b>8. Schematic Diagrams</b>				
<b>9. PCB Layout Diagrams</b>				
<b>10. Exploded Diagram and Exploded Parts List</b>				
<b>11. Recommended Spare Parts List</b>				

**B.** Are you satisfied with this Service Manual?

<i>Item</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
<b>1. Service Manual Content</b>				
<b>2. Service Manual Layout</b>				
<b>3. The form and listing</b>				

**C.** Do you have any other opinions or suggestions regarding this service manual?

### Reader's basic data:

<b>Name:</b>		<b>Title:</b>	
<b>Company:</b>			
<b>Add:</b>			
<b>Tel:</b>		<b>Fax:</b>	
<b>E-mail:</b>			

**After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-839-7943.**