Service Manual

ViewSonic PJD6531w

Model No. VS12476 DLP Projector

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Revision History

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1 System Introduction

1.1 Technical Specification

Display system	Single 0.65" DLP panel		
Resolution	WXGA (1280 x 800)		
Zoom	1.2X		
F/No.	2.55		
Focal length	21 - 25.6mm		
Screen size	40" – 150"		
Lamp	230W		
Input terminal	D-Sub 15-pin x 2, S-VIDEO x 1, VIDEO x 1, Audio signal input		
	(3.5 mm stereo mini jack) x 2, HDMI x 1		
Output terminal	D-Sub 15 pin x 1, Audio signal output (3.5 mm stereo mini jack) x		
	1, 12-Vdc trigger output x 1		
Control terminal	RS-232 x 1, USB x 1, LAN x 1		
Speaker	5 watt x 2		
Video compatibility	NTSC, NTSC 4.43		
	PAL, PAL-N, PAL M		
	SECAM, HDTV (480p, 576p, 720p, 1080i/p), Composite video		
Scanning frequency			
Horizontal frequency	31 - 80 KHz		
Vertical frequency	50 - 120 Hz		
Environment	Operating:		
	Temperature: 0°C to 40°C		
	Humidity: 30%-85%		
	Storage:		
	Temperature: -20°C to 60°C		
	Humidity: 30%-85%		
Power requirement	AC 100-240 V, 50 - 60 Hz, 3.7A		
Power consumption	290 W		
Dimension (W x D x H)	279.5 x 218 x 105 mm (11.0 x 8.6 x 4.1 inches)		
Weight	2.7 kg (6lb)		
Note: Design and Specifications are subject to change without prior notice.			

1.2 Location of features, Controls, and I/O

A. Projector overview

Front View



- 1. Lens cap
- 2. Elevator button
- 3. Lens cap strap
- 4. Projection lens
- 5. Front IR remote control sensor
- 6. Ventilation holes (intake)

- 8. Speaker 9.Focus ring 10.Zoom ring
- 11.Control panel
- 12.Lamp cover

Real View



- 1. Connection ports
- 3. Kensington lock
- 5. Ventilation holes (exhaust)

- 2. AC power socket
- 4. Rear IR remote control sensor
- 6. Security bar

Bottom View



- 1. Ceiling mount (M4*6)
- 2. Tilt-adjustment feet

B. Button function and LED indicator



LED

- 1. **OPower** (Power LED indicator)
- 2. Temp (Temperature LED indicator)
- 3. Lamp (Lamp LED indicator)

Button function

4. **W**/**Keystone**

Manually correct distorted images resulting from an angled projection.

5. Four directional buttons

Use four directional buttons to select items or make adjustments to your selection.

6

6. Enter

Enter to sub-menu and confirm the menu selection.

7. Source

Manually select an input source.

8. Menu/EXIT

Display or exit the on-screen display menus.

9. **()Power**

Turn the projector on or off.

C. Connection ports



1. LAN

For network control.

2. USB

This connector is for firmware update and mouse function support.

3. VIDEO

Connect composite video output from video equipment to this jack.

4. S-VIDEO

Connect S-Video output from video equipment to this jack.

5. MONITOR OUT

Connect to a computer display, etc.

6. AUDIO OUT

Connect to a speaker or other audio input equipment.

7. COMPUTER IN 1

Connect image input signal (analog RGB or component) to this jack.

8. **RS-232**

When operating the projector via a computer, connect this to the controlling computer 's RS-232 port.

9. COMPUTER IN 2

Connect image input signal (analog RGB or component) to this jack.

10. 12V OUT

12V DC out

11. AUDIO IN

Connect an audio output from video equipment to this jack. The upper AUDIO IN is Audio 1, and the lower one is Audio 2. When Audio 1 is turned on, Audio 2 will turn off automatically and vice versa.

D. Remote Control

- POWER
 Turn the projector on or off.
- VGA1 Select analog RGB signal from COMPUTER IN 1 terminal.
- Source Manually select an input source.
- Enter Confirmed selections.
- Keystone+ / -Adjust image distortion caused by tilting the projector.
- ViewM Switch in between high brightness performance or Accuracy color performance.

Freeze

Press "Freeze" to pause the screen image. Press again to cancel the freeze function.

8 Mouse

Switch between OSD control and Mouse control (Apply to Navigation buttons, Enter/Mouse Left Click, and Exit/Mouse Right Click buttons).

Laser Laser

Aim the remote at the viewing screen, press and hold this button to activate the laser pointer.

VGA2 Select analog RGB signal from

COMPUTER IN 2 terminal.

- Video Select video signal from video
 - equipment.
- Auto
 - Resynchronize the projector to the input signal from a computer. This function is available for computer mode only.
- MENU Display on-screen display menus.



Four directional buttons Use four directional buttons to select items or make adjustment to your selection.

Exit

Exit OSD Menu.

Magnify
 Magnify

Zoom in and out the images.

Volume + / -

Adjust the volume level.

1 Mute

Cut off the sound temporarily. Press again to cancel the Mute function.

Light

Enable backlit functions of the remote control's buttons.

Blank Blank

Cut off the screen temporarily. Press again to cancel the Blank Screen function.

1.3 PJD6531w Lamp Specification

Product Scope

The product is a lamp system consisting of a short arc burner within a reflector and electronic lamp driver.

Type lamp	P-VIP 230/0.8 E20.8 open type	
	Identcode : A 598 09C	
Type driver	PT VIP O3 MID(230W)-UNISHAPE	
	Identcode : A581 152 (lock type,Gen5,VC) or	
	A581 146 (lock type,Gen5,VC,DL) or	
	A584 924(lock type,Gen5,VC,HF)	

The lamp must be operated with the OSRAM lamp driver only.

Initial Characteristics

	<u>nominal</u>	tolerance
Input Voltage	380V DC	320400V DC
Standby(non-operating)		120400V DC
Max. input voltage ripple	30V _{pp} @ 100-120Hz	
Max. input current ripple	1Arms@40-300kHz	
Input Wattage	max.260W@230W lamp wattage)
Input Wattage standby operation	1,7W type@380V DC	
Output Wattage		
nominal	230W	±3% ⁷
DIM mode	1 90W	±3% ⁶
controlled by UART	190W230W in step with o	f 1/128 of nominal power
Output current limitation	4.0A(RMS)	±5%
Ignition pulse	typ.2.6kVpeak symm.	2.43.5 kVpeak
Ignition Phase Duration	typ.3.5s	max.6 s
Enable-Disable-Enable Cycle	15 s minimum	
Acoustic sound pressure level	typical acoustic sound pressure	level 36 dB(A),maximum
	38dB(A) at 25cm measuring dista	ance; measured in ste ady
	state lamp operation ⁸	
Acoustic sound power level	typical acous tic sound power leve	el 32 dB(A) acc. to EN ISO
	3744; measured in steady state la	amp operation ⁷
Switch-off lamp voltage	140V	±5V
Cooling method	forced air cooling at \geq 1.5 m/s min	nimum
Thermal Protection	Tc1 switch point 90 $^\circ\!C$	±5 ℃
Safety Protections	The lamp connections are not ma	ins isolated, The lamp
	can be switched on via the Start (Control Input signal(SCI).

A Flag Output signal indicates if the lamp has lit rightly. The Start Control Input and the Flag Output are mains isolated. short circuit +output / - output for max. 10s No protection for output short to GND IEC6 0950, UL60950

Output Protection

Safety Standards

Note:

⁷ Measured at real lamp load. Deviations will occur on all kind of artificial loads (e.g. resistor)

⁸ Measured with RGB waveform. The noise deviation from customer generated UNISHAPE waveforms should be controlled by the official approval process.

Attention for handling

- Do not touch the lamp until it has cooled completely, because the lamp is very hot during operation and immediately after turned off.
- The lamp has to be fixed firmly to the base or socket.
- Turn off the power supply during maintenance.
- Do not hold the lamp except outer surface of the reflector.
- Wear protective gloves and eyeglasses when handling the lamp.
- Any unusual shock or vibration to the lamp should be avoided.
- The lamp contains the mercury. It's breakage might cause mercury to flow out of the reflector. Please manage provision at the customer's product.
- Do not pull the lead wire and plug by more than 24.5N.
- Please be careful of handling the lamp because it is made of glass.
- Please notice for keeping or handling the lamp, because there is a projection of this lamp with reflector ahead.
- Do not touch the bulb and the mirror area of the reflector.

Attention for use

- Do not close or cover the lamp with any flammable stuff.
- During operation, the lamp is under extremely high p ressure. Please manage provision at the customer's product to prevent fragments of bulb and mercury from flowing out of it. If the lamp bursts in case of an emergency, the sound will be occurred.
- Lamp operation should be with the specified lamp driver and the system ONLY.
- Do not look at the lamp directly during operations.
- Do not expose your skin directly. We recommend to you to put on something for protection for your skin. For example, long sleeve shirt, gloves, glassed and so on.
- Do not modify the lamp and never use a lamp that has been modified.
- Any unusual shock or vibration to the lamp should be avoided during operation.
- Do not use any broken lamps.
- Dispose of used lamps according to your local instruction.

- Do not turn on the lamp while the system is o pened.
- The lamp contains mercury. If the lamp bursts during operation ventilate the area sufficiently to avoid inhaling harmful mercury fumes.
- Use the lead below 200 [°]C to prevent a deterioration of cladding clad of the fluorocarbon resin.
- The lead wire insulation clad shouldn't touch the reflector.
- Exchange the lamp that has already passed the life time immediately.

1.4 PJD6531w System Block Diagram



2 Firmware Upgraded Flow

The following sections list the required software, hardware, and procedures to upgrade your ViewSonic projector firmware.

WARNING

During the firmware download, do not disconnect the USB cable, shut down your computer nor turn off your projector. This will corrupt the flash memory, and you may have to send in your projector to recover the flash memory.

1. Hardware and Software

- Computer Window® XP or later
- USB Type A to Type B Cable
- Power Cord
- DLP Composer Lite[™] v9.2





Set Projector in firmware update mode

- 1. Push Enter bottom + Power Button then plug in Power cord (the lamp and Temp indicator will show flashing)
- 2. Plug USB cable to PC (or laptop)
- 3. Execute composer lite software for firmware update

2. Software Installation Procedures (DLP Composer[™] Lite v9.2)

- 1. Double-click [DLP Composer Lite v9.2 Setup.exe].
- 2. Click **[Next]** to continue the installation.
- 3. On the [License Agreement] screen, scroll down to the bottom, select [I accept and agree to be bound by all the terms and conditions of this License Agreement], and click [Next] to continue.

	Inse Agreement You must agree with the license agreement below to proceed.
	country or on any such list and Licensee will not use or transfer the Licensed Materials for a use in any sensitive nuclear, chemical or biological weapons, or missile technology end- uses unless authorized by the U.S. Government by regulation or specific license.
5.4	Entire Agreement, etc. The terms and conditions of this Agreement, merge and supersede all prior and contemporaneous agreements, understandings, negotiations and discussions concerning the subject matter hereof. No amendments or modifications to this Agreement shall be effective unless in writing and signed by the authorized representatives of both parties. These terms and conditions will preval notwithstanding any different, conflicting or additional terms and conditions that may appear on any purchase order, acknowledgment or other writing not expressly incorporated into this Agreement. Licensee hereby warrants and represents that all authorizations and other applicable consents required empowering you to enter into this Agreement have been obtained.
6	accept and agree to be bound by all the terms and conditions of this License Agreement.
C	I do not accept the terms and conditions of this License Agreement.

4. On the Select [Installation Type] screen, select [ALL] and click [Next] to continue the installation.

5. When the installation is finished, click [Finish] and reboot the computer.



6. A shortcut to DLP Composer[™] Lite v9.2 is created on the desktop.



3. USB Driver Installation

1. After the DLP Composer[™] Lite v9.2 has been installed, choose "Install DLP Device USB Driver" under Start\All Programs\DLP Composer[™] Lite 9.2 on your computer.



2. Follow the instructions given on the screen below.



3. Copy the file "FlashDeviceParameters.txt" into the "C:\ Program Files\ DLP Composer Lite 9.2" folder.

4. Firmware Updating Procedures

- 1. Connect the Type B USB connector from the projector to the computer with Type A.
- 2. Double-click [DLP Composer™ Lite 9.2].



- 3. Select [Edit]/ [Preferences] on the top menu bar. For [Communications], select USB as the Projector Interface.
- 4. Under **[USB Device Identification]**, verify that the USB Vendor ID and product code are **Vendor 0x451** and **Product 0x2000**.

Library Output - Memory / Log Output - Font / Speed Communications Flash Loader	Communications Projector Interface OIDC (using Resulted Port)	0
	 ○ I2C (using I2B from http://www.doctools.com) ○ I2C (using I2B from http://www.doctools.com) ○ genial Port ○ U2E 	
	USB Device Identification Yendor: 0x451 Configure Pgofuet: 0x2000	

5. Click [OK] to proceed.

- Del Composer(TM) Este File Este Lev Mindes Help Elish Londer BLI Composer Lib Projector Control Field Lowler Eask Image Fde flashing · Drowes Options Partial Image Download (tastest: only updates changed sectors) 1. Click [Browse] and Complete Image Download (slowest: develoads entire image) Skip Boot Loader Areas 2015 30 select [*.img] 2. Put checkmark next to C Sector Range Download [Skip Boot Loader Area] , VALUE SETTING is 32KB States Interface: Parallel port 1 (base address: 0x378) (Use EditoPreferences to configure the communication interface) 3. Click [Reset Bus] to confirm Pleady to download flash mage. the USB connection is ok. Image Data (her) Crecksus (hes) Stat Expected Fermet Site Siat Hater Bu ht. > Tools Projector Cowled Redo Londo NUM - 171 4. Click [Start Download]
- 6. Under the [DLP Composer Lite] screen, select [Flash Loader]. The Flash Loader screen appears.

- 7. Click [Browse] and select the firmware [xxxxxxx.img] file to update your projector.
- 8. Make sure [Skip Boot Loader Area] is checked, and its value is [32KB].
- 9. Press and hold the Enter and Power buttons simultaneously on the projector keypad and then plug in the power cord on the projector until the projector Temp LED and Lamp LED are lit up. This indicates that the projector is in the firmware download mode.

- 10. Click [Reset Bus] to reset and verify good USB connection.
- 11. Click [Start Download].

12. On the warning dialog box message below, click [Yes] to continue.

DLP Composer(TM) Lite	1_	JN
File Edit View Window Help		
] 36 HE 76 8 ₩		_
Project × □ DLP Composer/Lite Projector Control Flash Loader DLP Composer ↓ DLP Composer ↓ DLP Composer ↓ DLP Composer ↓ DLP Composer	Pach Loader Options Elash Image File: D-VChun cong/my job/FW/WIEWSDNIC FW操 Prowse V Skip Boot Loader Area: 32 KB Enter range of Image Data to be updated fin Hext TM ming: If you continue, the contents of flash memory will be replaced by the contents to flash memory will be replaced by the contents e Islah image file. Also, the download will take several minutes and cannot be interrupted. you want to continue? 建立 查包	
▶ Tools	Image Data (hex) Checksum (hex) Start: 0x00008000 Expected: 0x/21F3AB10 Size: 0x003F8000 Returned:	
Projector Control Flash Loader USE	Errors	
For Help, press F1	NUM	- 10

- 13. The projector will restart to indicate the completion of the firmware update process.
- 14. Disconnect the USB cable and power cord from the projector. Reconnect the power cord and power on the projector.
- 15. Press **Menu** on the projector keypad, scroll down and select **Factory Default**. Then, select **Yes** and press **Enter**.

3 Machine Disassembly and Replacement

3.1 Tools

Item	Photo
Long Nose Nipper	
Hex Sleeves 5mm	
Screw Bit(+):107 Screw Bit(+):101 Screw Bit(+):102	
Anti-static wrist strap	Real Provide American Ame American American Am American American A
Anti-static wrist gloves	and the second sec

3.2 Disassembly Procedure

Warning

- Put on the Static Electricity Ring when starting for repair.
- Repair Environment suggest in Clean -room class 10000. Do not remove Optical Engine or DMD panel outside the clean room. Please return the optical engine to supplier if your repair condition can not meet the requirement.
- While screwing or unscrewing screws, please keep the screwdriver straight. Keeping screwdriver inclined will damage the screw holes.
- Please turn off the power before replacing any parts.
- Please wait for the projector lamp cooling down and turn off the power before changing it. Never touch or hit the lamp module when replacing the lamp.
- When you replace the projector lamp, never touch the new lamp with your bare hands. The invisible residue left by the oil on your hands may shorten the lamp life. Use lint-free gloves or finger cots are recommended.

Step	Figure	Description
1		Press the power button to
		shutdown the projector and
		disconnect the power cord.
		If the lamp is hot, please do
		not start any procedure until
		the projector lamp cools
		down.
		Flip the projector and
		remove the lens cover.
2		1. Flip the projector on the
		table.
	J1635-3670-00	2. Remove the screws
		J1635-A491-00*6 and
		J1635-3670-00*1 on the
		Bottom cover as shown.
	J1635-A491-00*6	
3		Rotate the Focus Ring by
		forward sequence to take it
		off from the unit.



Step	Figure	Description
7	J1635-B853-OA*5	 Remove the five screws on the Main Board. Remove the metal sheet of Main Board. Note: The Back IR wire is connected to Main Board through the hole on metal sheet.
8		Remove the two Fan Modules.
9		 Show you what the connector should be. Remove all wires. Remove the Main Board.





Step	Figure	Description
15		 Loosen the two screws on the OE Fan. Remove the Fan. Loosen the four screws on DMD Board. Remove the heat sink and DMD Board.
16	J1635-D559-00*2 J1635-B730-0A*4	 Loosen the two screws on the Zoom Ring. Remove the Zoom Ring. Loosen the four screws on the Lens. Remove the Lens carefully.
17	J1635-3620-0A Lens Housing J1635-3620-0A*4	 Loosen the one screw and remove the Lens Housing. Loosen the screws on the Power Board and then remove the Power module from Bottom Cover.

Step	Figure	Description
18	Ulegation of the second	1. Remove Speaker Module. 2. Loosen the screws and remove front and back IR.

3.3 Assembly FAN Module

Step	Figure	Description
1		Assemble FAN2(J2394-0101-01):
	FAN Sponge*2	1. Paste the FAN PAD
		(P4E38-1070-00) on the middle of
		it.
		2. Paste the FAN Sponge*2
		(P4R38-1530-00) on the top and
	FAN PAD	bottom of it as picture shown.
2		Assemble FAN1(J2394-0101-00):
		Paste the FAN Sponge*2
	0.)	(P4R38-1530-00) on the two edges
	FAN Sponge*2	of it as picture shown.

3.4 Disassembly Lamp Module

As the projector operates over time, the brightness of the projector lamp gradually decreases and the lamp becomes more susceptible to breakage. We recommend replacing the lamp if a warning message is displayed. Do not attempt to replace the lamp yourself. Contact the gualified service personnel for replacement.

Step	Figure		Description
1	Note: Turn on the projector. If the lamp does not turn on after	1.	Turn off the projector.
	the warm-up period, please reinstall the lamp.	2.	If the projector is
			installed in a ceiling
			mount, remove it.
		3.	Unplug the power
			cord.
		4.	Loosen the screw in
			the side of the lamp
			cover and remove the
			cover.
		5.	Remove the screws
	the		from the lamp
			module, raise the
			handle, and lift out the
			module.
		6.	Insert the new lamp
			module into the
			projector and tighten
			the screws.
		7.	Replace the lamp
			cover and tighten the
			screw.
		8.	Turn on the projector.
			If the lamp does not
			turn on after the
			warm-up period, try
			reinstalling the lamp.
		9.	Reset the lamp hour.
			Refer to the "Setting"
			menu.

4 Troubleshooting and Verifying the Repair

This chapter provides technicians with electronic background how to maintain the product. Moreover, you can get the appropriate operation to solve some complicated problems of component repairing and professional problems.

4.1 Troubleshooting

Warning

- Do not directly look into the lens to avoid eyesight damages.
- The projector is equipped with ventilation holes (intake) and ventilation holes (exhaust). Do not block or place anything near these slots, or internal heat build -up may occur, causing picture degradation or damage to the projector.

Confirm Software and hardware

(1) Confirm FW version and lamp hours

How to enter Engineering Mode?

-Open the Main menu and move the color bar to "setting" item, and then press right button to enter sub-menu. Move down the color bar to "Lamp Hours" item, press the direction keypad following the actions below:

Right once, left twice, right three times, left four times ; Then you will enter the Engineering Mode.)

Note: This FW version is just for reference.

(2) Confirm LED indicator

LED Type	Color	Status	Meaning	
Power LED	Blue	Solid		
Lamp LED	Off	Off	The projector is in standby mode.	
Temp LED	Off	Off		
Power LED	Blue	Solid		
Lamp LED	Off	Off	Powering up	
Temp LED	Off	Off		
Power LED	Blue	Solid		
Lamp LED	Off	Off	Normal operation	
Temp LED	Off	Off		
Power LED	Blue	Flash		
Lamp LED	Off	Off	Power-down	
Temp LED	Off	Off		
Power LED	Blue	Solid(Full brightness)		
Lamp LED	Red	Solid	The projector system has some problems with its	
Temp LED	Red	Flash	ians, so the projector cannot start up.	
Power LED	Blue	Solid(Full brightness)	The laws is in good condition and is prejecting at	
Lamp LED	Off	Off	The lamp is in good condition and is projecting at	
Temp LED	Off	Off		
Power LED	Blue	Solid(Full brightness)	The lamp has reached its end of life and must be	
Lamp LED	Off	Solid	changed soon. The lamp will continue to operate until it fails. Change the lamp. If the lamp is off,	
Temp LED	Off	Solid	then the ballast will become malfunction.	
Power LED	Blue	Flash(Full brightness)	The projector is shutting and the fan motor is cooling the lamp for shutdown. Do not unplug the	
Lamp LED	Red	Solid	power cord or turn the power off before the Lamp LED changes to flashing. The fan motor will turn	
Temp LED	Red	Solid	off when the lamp has cooled.	
Power LED	Blue	Solid(Full brightness)	Tomporature is too high. The lamp will turn off	
Lamp LED	Red	Flash	The fan motor is cooling the lamp	
Temp LED	Red	Off	I he fan motor is cooling the lamp.	
Power LED	Off	Off	The lamp ignition failed. If temperature is the high	
Lamp LED	amp LED Red Solid		the fans will cool the lamp	
Temp LED) Red Solid			

Note: Swapping modules that may be defective with others known to be good is generally an ideal way to find the module responsible for the problem. A failure symptom is rarely caused by more than one module, so you will not usually need to replace more than one to correct a particular failure. Whatever main board, ballast, IR board, power board, lamp module or optical engine are all suitable to check by swapping modules.

Power Source Troubleshooting:





Signal Troubleshooting







Operation Function Troubleshooting



4.2 Verifying the Repair

After repairing projector (Dissembling and assembling projector), Repair center should verify the quality of repaired unit.

(1) Check Logo

Check Logo is correct after power on the projector.



(2) Signal test (Each I/O can function normally)

Connect all connector to the jacks one after the other to check whether each channel can

Monitor In (VGA)
Standard Pattern generator (Ex. Quantum data)
1024*768 60Hz
Video
Standard Pattern generator (Ex. Quantum data) or DVD player
NTSC
S-Video
Standard Pattern generator or DVD player
480i

I/O port	USB
Test Equipment	PC and Remote controller
Test method	1. Connect PC (laptop) VGA output to projector.
	Set PC (laptop) output signal to projector
	2. Connect projector USB to PC.
	Press remote controller page up/down to scroll presentation file up and
	down (ex Microsoft office series)

I/O port	Audio input
Test Equipment	Connect audio input to audio output of DVD player
Signal format	480i

I/O port	НОМІ
Test Equipment	HDMI source device
Signal format	480p

(3) Operation test

Buttons operation

Button description	Test criteria
Power button	 Mechanical motion (Up & Down) should be free from getting stuck when pressing the button Press "power" button and projector will switch on
Menu	 Mechanical motion (Up & Down) should be free from gettin g stuck when pressing the button. Press Menu button can make projector function normally.
4-way button	 Mechanical motion (Up & Down) should be free from getting stuck when pressing the 4-way button. Press 4-way button can be used to scroll through OSD (On- Screen Display) menus and make adjustments.
Source	 Mechanical motion (Up & Down) should be free from getting stuck when pressing the button Press Source button manually selects an input source

Foot adjuster operation

Foot adjuster.	Test criteria
Foot adjuster button	Foot adjusters should stretch downward smoothly by pressing the foot
	adjuster buttons on the two sides

Zoom ring and Focus ring

	0
Ring	Test criteria
Zoom ring	Mechanical motion of rotating Zoom ring to the end of right and left by
	hand should be free from getting stuck.
Focus ring	The feeling of rotating Focus ring to the end of right and left by hand
	should free from seizing

(4) Image Quality

Projected image size: 60 inches (diagonal length) Zoom ring: Adjust zoom ring to wide (Maximum projection size)

VGA

I/O port	Monitor In (VGA)		
Test Equipment	Standard Pattern generator (Ex. Quantum data)		
Signal format	1024*768 60Hz		
Projected image size	60" in diagonal length		

Test Pattern	Test criteria
ANSI Brightness	ANSI Brightness Apparent color strip, bend and streak corner on the projected image are not allowable.

					Extreme Gray-Scale
4				28 32	0 represents full black, 255 represents full white.
239	241 243	245	247 249	251 253	Distinguishing the gray from black at the value of 32 and the gray from white at the value of 239 easily are acceptable.
		I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I			 Circular Geometry, Cross hatch and Dots 1. The four lines of outer frame should not only be existent but also distinguishable. 2. The dots in the square should be distinguishable.
Add Ford. Size: 9 pixels When in the course of hur policial backs which have of the earth, the separate God entitle them, a decent	999 SO 3A 1	rre people to dissolve the source among the powers Nature and of Nature's dires that they should	Avail Fore Size: 0 pixels: 6.8 points When in the course of home events potical abrais which have connected of the earth, the separate and equal at Odd entitle them, a decent respect to	s theorem recessary for one people to dissolve the them with another; and to assume among the powers tation to which the Laws of Nature and of Nature's te optimes of manufer which the	Scaled Text (Resolution) 1. Rotate Zoom ring to wide mode
The course of human series in the segment of the series of the series of the series of the series in the segment of the series o				 (Maximum projected image) 2. Fix projector to set diagonal length of projected image to 60". 3. Adjust focus ring to make resolution of 4 corners and center are balanced. 	
assume along the powers of the earth, the separate and equal station to which the Laws of Nature and of Nature's God entite them, a decent respect to the options of maninal requires that they should eclare the course which impell then to the separation. We hold bese that to be selectived, that all men are created equal, that they are endowed by their Creator with certain Arial Fort. Size: 12 pixels 9.0 points When in the course of human endowers of the earth, the separate another, and to assume among the powers of the earth, the separate and equal station to which the Laws of Nature and of Nature's God entitle them, a decent respect to the options of mankind requires that they should declare the courses of mankind requires that they should declare the course of mankind requires that another, and to assume among the powers of the earth, the separate and equal station to which the Laws of Nature and of Nature's God entitle them, a decent respect to the options of mankind requires that they should declare the courses which impel them to the separation.				 Check the characters should be recognized easily. Rotate Zoom ring to tele mode (Minimum projected image) Adjust focus ring to make resolution of 	
Arial Font Size: 13 pixels 98 points When in the course of human events it becomes necessary for one people to dissolve the political bands which have connected them with another, and to assume among the powers of the earth, the separate and equal station to which the Laws of Nature's God entitle them, a decent respect to the polinons of Nature's God entitle them, a decent respect to the causes which impel markind requires that they should declare the causes which impel				4 corners and center are balanced.7. Check the characters should be recognized easily.	



- 1. The intervals of center thin white and black bars should be distinct.
- 2. The squares around the small circle in the center show the transition of full

S-Video

I/O port	S-Video		
Test Equipment	Standard Pattern generator (Ex. Quantum data)&DVD player		
Signal format	480i		
Criteria	No apparent color deviation on the projected image		

Video

I/O port	Video		
Test Equipment	Standard Pattern generator (Ex. Quantum data)&DVD player		
Criteria No apparent color deviation on the projected image			

HDMI

I/O port	НДМІ		
Test Equipment	HDMI source device		
Signal format	480p		
Criteria	No apparent color deviation on the projected image nor abnormal voice.		

(5) Resolution

I/O port	VGA
Test Equipment	PC
Test Method	 Rotate Zoom ring to wide mode (Maximum projected image) Fix projector to set diagonal length of projected image to 60". Adjust focus ring to make resolution of 4 corners and center are balanced. Check he characters should be recognized easily.
	5. Rotate Zoom ring to tele mode (Minimum projected image)

There for the two stands of parts of the second standard	and of set (h_{1},h_{2}) have a set of a point of the set of th	6.	Adjust focus ring to make resolution of 4 corners and center are balanced.
empirison the problem is been which have associated there will send by our to associate service that the sense which is a subsection of the send they out to associate service the sense which is a subsection of a space distribu- fier takes of future and of future to be provided to the sense associate of models as possible they should be able to be able to the takes of the sense of the sense of the sense of the sense based of the sense of the first the sense is the sense which takes it would be gravity. We different takes the sense of the sense or standard sense is that the sense of the sense takes will be sense to the sense of the sense of the sense of the sense takes will be sense to the sense of the sense of the sense takes will be sense to the sense of the sense takes the sense of the sense takes the sense of the sense takes the sense of the sense takes the sense of the sense takes the sense takes the sense takes the sense takes the sense of the sense takes the sense takes the sense takes the sense takes the sense takes the sense takes the sense takes the sense takes the sense takes takes the sense takes the sense takes the sense takes takes the sense takes takes the sense takes takes the sense takes takes the sense takes the sense takes takes takes the sense takes takes takes takes takes the sense takes	Sporter for profiles I have back have accessed there will surface, and to another principal the present of the stark. The back principal count particular the starts of the starts of the stark is back to be a start of the start distribu- tion of the starts of the stark is been principal to the starts of the spinness of manual requires the first Back to be a start start of the spinness of manual requires the starts of the starts of the starts of the starts of the start of the start of the start of the start of the starts from to the start of the start of the start of the start of the starts of the starts of the start of the start of the start of the start of the starts of the starts of the start of the starts of the start of the start of the start of the start of	7.	Check the characters should be recognized easily.
Awarford. Size: 11 points: -8.2 points: What hole course of have revering the content points and points and strateging the points when which have no contential trans with your operations which the points are not have read of the points. Only motifiering, which the points which the same of have read of the points and the points and the points in the points of motions read in the therm of points which the points and the points are not points and the point of the points of the point of the points of the means the points of the points of the points of the point of the points of the the points of the points of the points of the point of the points o	Avail for the effect above all parents Markowski and power and human events at account reconstancy for one parents the solutions for policities and works were constanted from the solutions, we and the fact that the solution of the solution of the solution of the enders the cases of these and of the solution (sole welfs these, a solution standard and the cases of these and of the solution (sole welfs these, a solution standard the parents of the solution of the solution (sole welfs these as sole welfs the reget them to the requestion , the solutions shall be to be cased with the mean them are cased on case. That they we can account by the To data the the solutions on the solution of the case.		
Avera First Titter 12 panels 18 pointits. When in the source of human renots X becomes necessary for one perpent to Boscher Margolica Aller with which have connected them with another, will be assume among the powers of the early. The segments and early aller to assume among the powers of the early. The segments and early aller to be assume and the powers of the early for early the horn, a development to be ophistical of mathematical regions that these should be also the mathematical the segments that	Avoid Flatt Table 12 points: 8.6 points: When in the course of human weeks Electrones necessary for one points in theorem the political data which have course-dipt hern with another, and is ansume simong the govern of the early. The segmeths and early allocations which the Lase inflatives and of initialized and points allocate expects to be option of manifold regimes that they through occurs the courses the home 30 min the respiration.		
And First Stor. 13 pixels: 3.5 points. When in the course of hypera events & becomes necessary for one peright of kolone the politic data shoth have somewised them with worther, and its assume among the powers of the anth- the aspecta and evapit shots the worth the Law of charava and of Nature's Out worther that the shoth the Law of charava and of Nature's Out worther that they should decise the causes which repair menking respects that the shoth the law of charavars which repair	Anal Fast Size 13 pixels 9.6 points When the routes of luman metric 8 becomes measuring for one jenging to 60x0e has policit a lands which have accounted them wich another, and to accurs among the powers of the set is expected and equal attoint to short the Lawer Chine and of failures God write here, a decent respect to the feetback marked regimes that they should direct the parameter which equil		

(6) Front and Rear infrared sensor

Device	Front and Rear infrared	
Test Equipment	Remote controller	
Test method	1. Cover front sensor and operate remote controller to test rear	
	sensor	
	2. Cover rear sensor and operate remote controller to test front	
	sensor	

(7) Brightness measurements

Test items	Brightness measurements	
Test EquipmentChroma automatic system (The alternative is CL -200)		
Test method	Measure 9 points	
Criteria	Marketing spec 20% off	

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(8) Cosmetic standard for repaired projector

Follow cosmetic standard for repair center.

5 Connector Information

This section provides each connector location on boards and function of each board. They will be useful for your detecting the defective boards.

5.1 Main Board



Connector	Description
No 1	Front IR
No 2	Connect to RS232 Board(RS232 signal)
No 3	Connect to RS232 Board(Audio signal)

5.2 The backside of Main Board



Connector	Description
No 4	Front Speaker
No 5	Color Wheel control
No 6	Color Wheel Sensor
No 7	Ignite signal connected to Ballast
No 8	Lamp FAN(FAN3)
No 9	Thermal sensor
No 10	Safety switch
No 11	Main Board Power Supply
No 12	FAN2
No 13	FAN1
No 14	Back IR
No 15	Back Speaker
No 16	Keypad control

5.3 Ballast Board



Connector	Description
No 1	Lamp power supply
No 2	Ignite signal connected to Main board
No 3	High Voltage Power supply

5.4 Power Board



Connector	Description
No 1	380V output for Ballast
No 2	12V output for RS232 Board
No 3	12V/5V output for Main Board

6 FRU (Field Replaceable Unit) List

Introduction

This section is a list of all the FRU removal. Following the FRU table of contents is an enlarged view of the entire projector, which shows the primary FRUs in the projector.

When working on the projector, use appropriate anti-static precautions such as anti-static mats, wrist straps and grounded work surfaces. Failure to do this can destroy static-sensitive components and make the product inoperable.

6.1 Mechanical Drawing



EXPLODED PARTS LIST (PJD6531w)

ViewSonic Model Number: VS12476

Rev: 1a

Item	ViewSonic P/N	Ref. P/N	Description	Q'ty
1	C-00010149	P6V84-4500	Top Cover	1
2	C-00009638	P4E34-4650-00	Lens Cover	1
3	n/a	P4T84-4530	IO Cover	1
4	C-00009630	P4R84-4520	Lamp Cover	1
5	C-00009635	P4R34-4600-00	Filter Cover	1
6	PL-00008833	P4R34-4570-00	Lens Housing	1
7	RLC-049	P4T84-2400	Lamp Module	1
8	E-00010054	P6V84-2200	Optical Engine	1
9	B-00010218	P6V84-7100	Main Board	1
10	B-00009750	P4S47-6101	RS232 Board	1
11	B-00009703	P4D47-6100	DMD Board	1
12	B-00008158	P3747-5101	FIR Board	1
13	B-00009700	P4R47-5101	BIR Board	1
14	B-00009753	P4T84-9000	Ballast	1
15	E-00009557	P4T84-0001	Front Speaker	1
16	E-00009558	P4T84-0002	Back Speaker	1
17	M-00008342	J2394-0101-01	Fan2	1
18	M-00008212	J2394-0101-00	Fan1	1
19	B-00009752	P4S84-8100	Power Board	1
20	C-00009632	P4R84-4510	Bottom Cover	1
21	M-00008344	P4E38-1570-00	Rear Foot	1

6.2 Packing drawing







PACKING PART LIST (PJD6531w)

ViewSonic Model Number: VS12476

Rev: 1a

Item	ViewSonic P/N	Ref. P/N	Description	Q'ty
1	n/a	P1638-5007-00	LB	1
2	n/a	P2838-5001-00	WARNING LB	1
3	n/a	P1638-5010-00	LB	1
4	n/a	J4238-R815-01	SERIAL LB	1
5	n/a	P6V38-5000-00	UL LB	1
6	n/a	P1238-R504-00	LB	1
7	n/a	J4039-0018-00	EPE BAG	1
8	P-00009685	P4R39-7000-00	EPE	1
9&20	P-00010191	P6V39-6000-00	CARTON	1
10	n/a	J4039-R128-01	DESICCANT	1
11	M-00008389	P8339-6900-00	PAD	1
12	n/a	P6V39-4800-00	3D-INSERT SHEET	1
13	n/a	P6V39-4801-00	INSERT SHEET	1
14	DC-00009956	P4R39-A001-01	CD-ROM (for LAN Software)	1
15	DC-00010294	P6V39-4000-00	QG	1
16	DC-00010295	P6V39-A000-00	CD-ROM	1
17	n/a	P4T39-3000-00	POUCH	1
18	P-00008410	J4039-R157-01	PE.BAG	1
19	P-00008794	J4039-R184-01	PE.BAG	1
21	n/a	J4238-5006-00	LB	1

7 Maintenance

The projector needs proper maintenance. You should keep the lens clean as dust, dirt or spots will project on the screen and diminish image q uality. If any other parts need replacing, contact your dealer or qualified service personnel. When cleaning any part of the projector, always switch off and unplug the projector first.

Warning:

Never open any of the covers on the projector. Dangerous electrical voltages inside the projector can cause severe injury. Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

Cleaning the Lens

Gently wipe the lens with lens cleaning paper. Do not touch the lens with your hands.

Cleaning the Projector Housing

Gently wipe with a soft cloth. If dirt and stains are not easily removed, use a soft cloth damped with water, or water and neutral detergent, and wipe dry with a soft, dry cloth.

Cleaning the Filter Cover

The filter cover, which is located at the side of the projector, should be cleaned after every 100 hours of use. If it is not cleaned periodically, it can become clogged with dust and prevent the projector from being ventilated properly. This can cause over heating and damage the projector. To clean the filter cover:

1. Switch the projector off and unplug the AC power cord from the wall socket.

2. Remove the filter cover as the illustration shown.

3. Clean the filter cover.

- To clean the filter cover, you are advised to use a small vacuum cleaner designed for computers and other office equipment.
- If the filter cover is torn, replace it.
- 4. Replace the filter cover.
- 5. Attach the filter cover.
- 6. Plug the power back into the projector.



8 Network Control

This feature provides the ability to remotely control and manage the projector through the network.

Preparation:

- 1. Connect one end of the internet cable to the LAN connector on projector.
- 2. Connect the other end of the internet cable to an available RJ-45 connector on your computer.
- 3. Turn on your projector and computer.

There are two ways to connect to the network control:

A. Auto IP address setting (DHCP : Yes):

- 1. Enable DHCP from the projector OSD, under Network Config.
- When DHCP is enabled, IP Address, Subnet Mask and Gateway information will get from DHCP server automatically.

	<u></u>
Ø2 DHCP	d Yes ₽
Group Name	abc
Projector Name	abc
IP Address	169 . 254 . 1 . 1
Subnet Mask	255 . 255 . 0 . 0
Gateway	0.0.0
MAC Address	abc
Network Restart	ل ا
The second se	

- 2. Start browser in PC and specify following URL, then click "Go" button.
- URL: http:// (Projector IP address)/
- For example, if projector IP address is 169.254.1.1, specify URL: http://169.254.1.1/.



1. If connection succeeds, the login screen is displayed. Enter your User name and Password and click "OK". Below are the factory default settings for administrator, user and passwords.

Item	User name	Password
Administrator	Admin	<blank></blank>
User	User	<blank></blank>

B. Manual IP address setting (DHCP: No):

- 1. Set IP Address and Subnet Mask under Net work Config.
- IP Address: Numerical address to identify network computers.
- Subnet Mask: A numeric value to define the number of bits used for a network address of a divided network (or subnet) in an IP Address.
- Gateway: A server (or router) to communicate a cross networks (subnets) that are divided by Subnet Mask.

Netwo	rk Config
32 DHCP	A No Þ
Group Name	abc
Projector Name	abc
IP Address	169 . 254 . 1 . 1
Subnet Mask	255 . 255 . 0 . 0
Gateway	
MAC Address	abc
Network Restart	ц
	-
▲ ► Adjust	Enter Confirm
🔺 🔻 Select	MENU Exit

2. From your computer, go to **Start > Settings > Network and Dial -up Connections > Local Area Connection** and right click to select **Properties**.

📴 Network and Dial-up Connection	s	
File Edit View Favorites Tools	Advanced	Help
⇔Bark × ⇒ × 💼 🛛 🎯 Search -	🛀 Folders 🛛 🔇	劉隆陽大の田・
Address 💼 Network and Dial-up Conne	ections	
Network and Dial-up Connections	Make New Connection	Local Area Compatible Disable Status
Local Area Connection		Create Shortout
Type: LAN Connection		Delete Rename
Status: Enabled		Properties
SIS 900-Based PCI Fast Ethernet Adapter		

3. Select "Intel Protocol (TCP/IP)" and click "Properties".

Local Area Connection Properties	? ×
General	
Connect using:	
SiS 900-Based PCI Fast Ethernet Adapter	
Configur	•
Components checked are used by this connection	
🗹 📃 Client for Microsoft Networks	
File and Printer Sharing for Microsoft Networks	
	-11
Install Uninstall Properties	
Description	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	
Show icon in taskbar when connected	
OK Can	cel

- 4. Set your PC's IP address, and click **OK**.
- Click "Use the following IP address"
- The network address portion included in the IP address set into your PC should be common with projector's one.
- In this case, projector has "169.254.1.1" IP address, specify "169.254.1.xxx" for PC's IP address. Select from 1 to 254 for "xxx" except 2 for PC.

Internet Protocol (TCP/IP) Propertie	5 <u>? x</u>
General	,
You can get IP settings assigned auton this capability. Otherwise, you need to a the appropriate IP settings.	natically if your network supports ask your network administrator for
C Obtain an IP address automatical	ly
• Use the following IP address:	
IP address:	169.254.1.10
Subnet mask:	255.255.0.0
Default galeway:	· · ·
C Obtain DNS server address autor	natically
Use the following DNS server add	tesses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK. Cancel

5. Start browser in PC and specify following URL, then click "Go" button.

- URL: http://(Projector IP address)/
- For example, if projector IP address is 169.254.1.1, specify URL:http://169.254.1.1/.



6. If connection succeeds, the login screen is displayed. Enter your User name and Password and click "OK". Below are the factory default settings for administrator, user and passwo rds.

Item	User name	Password
Administrator	Admin	<blank></blank>
User	User	<blank></blank>

Control the projector via a web browser

Login

If the administrator and user passwords are disabled, it will directly go into the status page.

status	control	aliet	achedul
letwork Setti	ng		
Network		Password .	
DHCP Enable:	O ON @ OFF	Administrator	O ON O OFF
IP Address :	169.254.1.1	New Password ;	_
Subnet Mask	253 253 253 0	Confirm Password.	
Getway:	192168.0.1		Submit
DNS Server :	168.951.1	liser	
Group Name	TEIT	New Password 1	CONCOLL
Projector Name :	MCHPBOARD	Confirm Password.	
	Submit		Submit

		G	۵ 🔎 🖍 🍂 🔛 🕼 🌢 ا ک		
stotus	centrol	network	alert	schedule	
Status					
IP Address:	169.254.1.1				
MAC Address	00:04:a3:00:00:00				
Projector Name :					
System Status .	Power Off				
Input Status :	1				
Lamp Hours:	UDEFI				
Filter Hours	UDEFI				
System Temperature :					
Projector Status :					
F/W Version :	v0.1a				
Data (mm/dd/yy) :	01/01/00				

If the Administrator & User passwords are enabled, select your User Name and enter password to login.

Authority on the network control of Administrator & User:

Item	Description	Administrator	User
Status	Show current projector status and network configuration settings.	v	v
Control	Control the projector via network.	v	v
Network Setting	Network configuration & Password setup.	v	х
Alert	Show and setup Alert configurations.	v	х
Schedule	Show and setup Scheduling configurations.	V	v

Status

U I 40 🐼 🔊 🔅			r's 1. 1. 9	
status	centrol	network alert schedul		
Status				
IP Address:	169.254.1.1			
MAC Addases:	00:04 a3 00:00.00			
Projector Name :				
System Status :	Power Off			
Input Status :	1			
Lamp Hours:	UDEFI			
Filter Hours :	UDEFI			
System Temperaturs :				
Projector Status :				
F/W Version	V0.1a			
Data (mm@d/yy) :	01/01/00			

All screen images in this manual are shown when you login with the Administrator ID. The image will differ if you login with User ID.

ltem	Description
IP Address	Show current IP address.
MAC Address	Show current MAC Address.
Projector Name	Show projector name.
System Status	Show if projector is Powered ON or Standby.
Input Status	Show current input source.
Lamp Hours	Show lamp used hours on current projector.
Filter Hours	Show filter used hours on current projector.
System Temperature	Show system temperature.
Projector Status	Show current projector status, either function normally or error
	found.
F/W Version	Show projector's F/W version
Date(mm/dd/yy)	Show date set on current projector.
Time	Show time set on current projector *.

Remark:

*If the power has not been supplied for over 36 hours, date and time will be reset.

Control

status		U I 🕪 🐼 🙈 👬 🖍 🖍		
	emtrol netwo	ek alert schedule		
Control				
BASIC		Picture .		
Power Switch		Brichtness		
Input Source:	COMPUTERI	Contrast		
Date	2002 🗸 5 👻 29 👻	Color Temperature: High		
Time:	0 🗸 0 🗸 Sılınık	Keystone.		
Volume:		Picture Mode PC 🔗		
Mute:	OFF	Aspect Ratio: FILL ALL 🛛 💌		
		Freeze. OFF 🔗		
Video Image		Computer Image		
Calor:	- +	Frequency.		
Tint	- +	Tracking:		
Sharpness:	- +	H Position:		
		V Position: +		
Setting		Option		
Menu Position:	Tap Left 💌	ViewMatch: OFF		
Projection:	Front-Deek 🗸	White Intensity		
Auto Source:	001 🖌	Gamma +		
ECO Mode:	OFF	Singal Type: RCB 💙		
High Altitude:	OFF	Filter Mode: OFF		
OSD Timeout	3 🛩	Power Saving. NO 💌		
Language:	English	Start UP Screen. ViewSonic 💙		
Factory Default	NO 💌	Closed Caption: OFF 🛛 🗸		
	- 17 - 17 - 17 - 17 - 17 - 17 - 17 - 17	Blank Screen: OFF 🗸		

ltem	Description
Basic	
Power Switch	Power On or Power Off the projector via network.
Input Source	Select input source.
Date	Show date set on current projector.
Time	Show time set on current projector*.
Volume	Adjusts the volume setting. (0 - 20)
Mute	Enable or disable the mute function.
Picture	
Brightness	Adjusts the brightness setting. (0 - 100)
Contrast	Adjusts the contrast setting. (0 - 100)
Color Temperature	Selects the color temperature setting.
Keystone	Adjusts the keystone setting. (-40 - +40)
Picture Mode	Selects the picture mode setting.
Aspect Ratio	Selects the aspect ratio setting.
Freeze	Enable or disable the freeze function.
Video Image	
Color	Adjusts the color setting.

Tint	Adjusts the tint setting. (0 - 100)
Sharpness	Adjusts the sharpness setting. (0 - 31)
Computer Image	
Frequency	Adjusts the frequency. (-50 - +50)
Tracking	Adjusts the tracking. (0 - 31)
H Position	Adjusts the horizontal position. (-10 - +10)
V Position	Adjusts the vertical position. (-10 - +10)
Setting	
Menu Position	Adjusts the menu position.
Projection	Selects the projection setting.
Auto Source	Enable or disable the auto source function.
ECO mode	Enable or disable the ECO function.
High Altitude	Enable or disable the high altitude function.
OSD Timeout	Selects the OSD timeout setting.
Language	Selects preferred OSD language.
Factory Default	Enable or Disable factory default.
Option	
ViewMatch	Selects ViewMatch setting.
White Intensity	Adjusts white intensity setting.
Gamma	Adjusts gamma setting.
Signal Type	Selects signal type setting.
Filter Mode	Selects filter mode setting.
Power Saving	Selects power saving setting.
Start Up Screen	Selects start-up screen setting.
Closed Caption	Selects closed caption setting.
Blank Screen	Selects blank screen setting.

Remark:

"If the power has not been supplied for over 36 hours, date and time will be reset.

Network Setting

status	control	etwork alort	schedule
etwork Settir	na		
Network		Password	
DHCP Enable:	O ON O DEF	Administrator	O ON OOFF
IP Address ;	169 254 1 1	New Password :	
Subnet Mask	255.255.255.0	Confirm Password	
Gebway.	192.168.0.1		Submit
DNS Server :	168.95.1.1		
Group Name :	TEST	User New Password	O ON OOFF
Projector Name :	MCHPBOARD	Confirm Password	
	Cubanit	our mini r da word.	

ltem	Description
Network	
DHCP	Assign an IP address to the projector from the DHCP server
	automatically or manually.
IP Address	Setup IP address when DHCP is disable.
Subnet Mask	Setup subnet mask when DHCP is disable.
Gateway	Setup gateway when DHCP is disable.
DNS Server	Setup DNS server address when DHCP is disable.
Group Name	Create projector group. (Max length: 6 characters)
Projector Name	Create projector naming of the current projector. (Max length: 15
	characters)
Password	
Administrator	Enable or disable administrative password function.
New Password	Setup administrative password. (Max length: 4 characters)
Confirm Password	Re-enter administrative password.
User	Enable or disable user password function.
New Password	Setup user password. (Max length: 4 characters)
Confirm Password	Re-enter user password.
OF 1 80 1 101 10	

60

Click "Submit" button to save the settings.

Alert

		الربي 🖊 🙏 🎲 🔕 🗶 🚺 🖊 🖉		
status	control net	work aler	t schedule	
lert				
Email Setting		Alert Cond	lition	
To :	jomestété@hotmail.com		Fan Lock	
CC.	jomeschao@gmail.com		Over Temerature	
Subject	TEST123		Lamp Fail	
From	jomes@wfe.com.tw		Lamp Time Alert	
			Schedule Execution Error	
Server	60.248.43.19	V	Filter Time Alert	
User Name	jomes		Submit	
Password	*****		To Orall B.F.	

ltem	Description
Email Setting	
То	Setup the mail alert attendee. (Max length: 40 characters)
Cc	Setup the backup mail alert attendee. (Max length: 40 characters)
Subject	Setup the subject of the alert e-mail. (Max length: 30 characters)
From	Setup the sender e-mail address. (Max length: 40 characters)
Server	To enter the SMTP server (Mail server) name of the company. For example: mail.viewsonic.com (Max length: 30 characters)
User Name	Enter user name of the sender's e-mail account. (Max length: 20 characters)
Password	Enter password of the sender's e-mail account. (Max length: 14 characters)
Alert Condition	
Fan Lock	The cooling fan is not operating.
Over Temperature	The projector internal is over heated.
Lamp Fail	The lamp does not light up.
Lamp Time Alert	Lamp is approaching the end of its useful life in full power
	operation.
	Replacement is suggested.
Schedule Execution Error	Schedule Execution Error.
Filter Time Alert	Filter is approaching the end of its useful life.
	Replacement is suggested.

Click "Submit" button to save the settings, then click "Issue Test Mail" to send a test mail to check whether all settings and functions are correct.

Schedule

The schedule function is divided into two scheduling categories, as shown below: Weekly Schedule: defines the date of each week will execute the command.

	ViewSo	wSonic Network control					
-	status	control	20.5	twork	alert	schedale	
Sun	day 💌	Power Dn Time D v D v (Power Off Time D v D v	RGBI	Ádá			
		Dower ON	Power OFF	Input Source	Cancel		
NO.	Week	POWELON			enneal		
NO.	Week Fri	18:17	16:15	1	cancer		
ND. 1 2	Week Fr	18:17	16:15	1	cancel		
ND. 1 2 3	Week Fn	18:17	16:15	1	cancel cancel		
ND. 1 2 3 4	Week Fn	18:17	16:15	1	cancel cancel cancel		
ND. 1 2 3 4 5	Week Fr	18:17	16:15	1 	cancel cancel cancel cancel		

Click "Add" button to create new schedule. To delete schedule, click "Cancel". Specific Day: defines the month and day that will execute the command.

	status	control	network	alert schodule	
Sel	hedule				
00					
	Specific Day	Weekly Day			
1					
	Power On Time				
	Power On Time 2009 🐱 / 5 🛛 👻 / 29	🗸 at D 💉 : D 🖌	R0B1	✓ Submit	
	°ower On Time 2009 ♥ / 5 ♥ / 29 Pawer Off Time	🗸 at D 💉 : U 🗸	ROBI	Submit	
	Power On Time 2009 ♥ / 5 ♥ / 29 Power Off Time 2009 ♥ / 5 ♥ / 29	🕶 at 0 💌 : 0 💌	ROBI	V Submit	
No.	2009 ♥ / 5 ♥ / 29 2009 ♥ / 5 ♥ / 29 2009 ♥ / 5 ♥ / 29 Power On	e at 0 e : 0 e	RCB1	Cancel	
No.	2009 ≪ / 5 ≪ / 29 2009 ≪ / 5 ≪ / 29 2009 ≪ / 5 ≪ / 29 2009 ≪ / 5 ≪ / 29		R3B1	Sofimit Cancel Submit	
No. 1	2009 ⊂ 01 Time 2009 ⊂ 1 5 ⊂ 1 29 2009 ⊂ 1 5 ⊂ 1 29 2009 ⊂ 1 5 ⊂ 1 29 Power On	v at 0 v : 0 v Prover Off	RDB1	Svimit Cancel Srimit Svimit	
F No. 1 2 3	2009 On Time 2009 Of 5 0 29 2009 Off Time 2009 0 1 5 0 1 29 Power On	v at 0 v 1 v	ROBI	Sutunit Cancel Sutunit Sutunit Sutunit	
No. 1 2 3	2009 © 1 5 € 1 22 2009 © 1 5 € 1 22 2009 © 1 5 € 1 22 2009 © 1 5 € 1 22 Power On	at 0 at 0 and 0 an	RDB1	Caricel Submit Submit Submit Submit	
No. 1 2 3 4 5	2009 On Time 2009 Of 5 of 20 2009 Of 5 of 7 2009 Of 7 Power On	A at 0 A B A A A A A A A A A A A A A A A A A	RDB1	Carnel Submit Submit Submit Submit	

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Click "Submit" button to create new schedule. To delete schedule, click "Cancel".

Tips for solving web page problems:

If your web page is not running smoothly, please follow below steps to set the browser. 1. Go to Tools > General and click "Settings".



2. Click "Every visit to the page" and "OK".



3. Click "OK" to exit "Internet Properties".



9 Recommended Spare Parts List

em Category	Part Name	Description	ECR/ECN ViewSonic P/N	Ref. P/N	Ref. NO Compatibili	y Location Universal nu	mber# Remark
2	LAMP Remote Controller	REMOTE CONTROL VIEWSONIC 02 VPD-X5400 WITHOUT/R ROHS	A-00008719	P4184-2400 18947-0292-02	Main Source Main Source	2	
3	Power Cord	POWER CORD (AUSTRALIA)_(SAA)YP-35/YC-12_YUNG LL ROHS	A-00008060	J2552-0053-00	Main Source	2	
4	Power Cord	POWER CORD(CHINA)YP-03/YC-12_YUNG LI_ROHS	A-00008056	J2552-0106-00	Main Source	2	
5 Accessories: [Adapter,	Power Cord	POWER CORD(EUROPE)_YP-22/YC-12_YUNG LI_ROHS	A-00008057	J2552-0107-00	Main Source	2	
6 Remote Controller,	Power Cord	POWER CORD (SOUTH AFRICA)YP-80/YC-12_YUNG LI_ROHS	A-00008233	J2552-0056-01	Main Source	e	
Power Cord, External	Power Cord	POWER CORD(UK)_TP-61/TC-12_TUNG LI_ROHS DOWER CORD(UK)_TP-61/TC-12_TUNG LI_ROHS	A-00008058	J2552-0108-00 J2552-0108-00	Main Source Main Source	2	
Cables]	Power Cord	POWER CORD (SA)_001(14) 21(51) 10(1)	A-00008585	12552-0263-00	Main Source		
0	RS232 Cable	DB9P TO DB9P CABLE_L1500_P35251A-05_PAN_ROHS	CB-00009062	J2552-0208-00	Main Source	2	
1	Signal Cable	RGB to component adapter, VGA-15P-6P CABLE_P4724-08_PAN_ROHS	CB-00008906	J2552-0212-00	Main Source	2	· · · · · · · · · · · · · · · · · · ·
12	Signal Cable	VGA-15P CABLE_P3842-06_PAN_ROHS	CB-00008710	J2552-0072-03	Main Source	e	
13	Soft Carrying Bag	POUCH, SPARE PARTS, VPD, X5600_ROHS	PJ-CASE-001	P4T84-6000	Main Source	2	
4	Main Board Bouwer Board	MAIN_DIP_PCB_ASY_SPARE PARIS_VPD-WS600_ROHS DOWER DOARD_SPARE APTS_VPD-WS600_ROHS DOWER DOARD_SPARE APTS_VPD_VS600_ROHS	B-00010218 B-00000752	P6V84-/100 P4S84 8100	Main Source Main Source	2	
6	Key Pad	KEYPAD DIP PCR ASY VPD-X5300 R0HS	B-00009732 B-00009699	P4S47-7100	Main Source		
7 868 14 11 14	IR Board	FIR_DIP_PCB_ASY_PD-X702_ROHS (Front)	B-00008158	P3747-5101	Main Source	e	
8 PC Board Assembly: [All	IR Board	BIR_DIP_PCB_ASY_P4R/VPD-X5400_ROHS (Back)	B-00009700	P4R47-5101	Main Source	2	
9	I/O Board	RS232 Board, RS232_DC_DIP_PCB_ASY_VPD-X5500_ROHS	B-00009750	P4S47-6101	Main Source	e	
20	Ballast	OSRAM-BALLAST-230W-SPARE PART_VPD-X5600_ROHS	B-00009753	P4T84-9000	Main Source	2	
1	DMD Board	DMD450 DIP_PCB_ASY_TPD-S5500_ROHS	B-00009703	P4D47-6100	Main Source	2	
4	Jamp Cover	UW SENSOR_DIF_FUB_AST_IPD-SS530_ROHS	B-0009837 C-0009630	P3E47-5100 P4R84-4520	Main Source Main Source		
4 Cablester (Decet 2	Top Cover	TOP COVER_SPARE PARTS_VPD-W5600_ROHS	C-00010149	P6V84-4500	Main Source	2	
25 All Comments: [Front Bezel,	Bottom Cover	BOTTOM COVER_SPARE PARTS_VDP-X5400_ROHS	C-00009632	P4R84-4510	Main Source	e	-
All Covers, Base	IO Cover	I/O COVER_SPARE PARTS_VPD-X5700_ROHS	C-00009786	P5B84-4530	Main Source	2	
27 Assembly	Filter Cover	FILTER COVER_VPD-X5400_00_NO PAINTING_ROHS	C-00009635	P4R34-4600-00	Main Source	2	
28	Lens Cover	LENS CAP_TPD-X5500_00_NO PAINTING_ROHS	C-00009638	P4E34-4650-00	Main Source	2	
29	Wire	FFC CABLE A20240C3344NB ENTERY 0.5PTICH 20PIN L240MM ROHS(top cover to main board) WIDE CON CON 1102002 326 MSV 4RIN 1 105MM 1571#28 ROHS(color mbach to main board)	CB-00009052	J2591-0122-00 J2505 0268 01	Main Source Main Source	2	
30	Wire	WIRE CON-CON_1102005-256_M5K_4PIN_L105MM_1571#22.ROHS(color wheel to main board) WIRE CON-CON_1102003-231_M5K_10PIN_2F8PIN_1115MM_1007#24_ROHS(color wheel to main board)	CB-00009138	12595-0368-01	Main Source		
12	Wire	WIRE CON-CON_1102003-98_MSK_2PIN_L140MM_1015#22_ROHS(nower baard to ballast)	CB-00008469	12595-0218-00	Main Source		
3	Wire	WIRE ASSY_CON-SW_1102003-202_MSK_ROHS(top cover to main board)	CB-00009055	J2595-0366-00	Main Source	2	
4 Cables: [All internal	Wire	WIRE CON-CON_1102003-203_MSK_4PIN_L115MM_1571#28_ROHS(IR to main board)	CB-00009056	J2595-0367-00	Main Source	2	
5 Cables/wires]	Wire	WIRE LAMP-BALA(VPD-X5400)_01800182R_AVERTRONICS_2PIN_L135MM_3239V#20_ROHS(Ballast to Lamp)	CB-00009097	J2595-0363-00	Main Source	2	
6	Wire	WIRE CON-MOTOR PROTECTOR_2PIN_L65MM_1332#24_ROHS(? 控??)	CB-00009058	J2595-0346-00	Main Source	e	
7	Wire	WIRE CON-CON_1102003-235_MSK_3PIN_L185MM_1571#28_ROHS(RS232 Board to main board)	CB-00009156	J2595-0371-01	Main Source	2	
0	Wire	WIRE CON-CON_1102005-206_MSK_5FIN_E55MM_1571#28_ROR5(Batast to main board) WIRE CON-CON_1102002-205_MSK_5FIN_E55MM_1571#28_ROR5(Batast to main board) BS222 hoard)	CB-00009060	12595-0370-00	Main Source		
0	Wire	WIRE CON-CON_1102005-234_MSK_9FIN_L120MM_1571#28_ROHS(RS23) Bard to main board)	CB-00009094	12595-0410-00	Main Source		
1	Qucik Start Guide (QSG)	QG_VIEWSONIC_VPD-W5600_GLOBAL_ROHS	DC-00010294	P6V39-4000-00	Main Source	2	
2 Documentation: [Quick	CD ROM	CD_ROM_VIEWSONIC_VPD-X5400_AP_CD_ROHS(for LAN Software)	DC-00009956	P4R39-A001-01	Main Source	2	
3 Start Guide, CD Rom;	User's Guide (CD ROM)	CD ROM_VIEWSONIC_VPD- W5600_GLOBAL_ROHS	DC-00010295	P6V39-A000-00	Main Source	e	
Label]	Label / Sticker	C/T LB_NO BRAND_GLOBAL_ROHS(for Taiwan)	DC-00008794	J4238-5069-00	Main Source	2	
3	Label / Sticker	CARTON LE_VIEW SONIC_PJS5/D_GLOBAL_ROHS(for China)	DC-00008672 E 00010054	PUN38-5013-00 R6V84-2200	Main Source Main Source	2	
7 Electronic Components:	Color Wheel	COLOR-WHEEL MODILE SPARE PARTS, VPD-W5600, ROHS	E-00010054	P6V84-2200	Main Source		
18 [Optical Engine, Speaker	Lens	LENS ASY SPARE PARTS VPD-W5600 ROHS	E-00010056	P6V84-6500	Main Source	2	
9 Color Wheel]	Speaker	SPEAKER_P40KCG08-3-7JS1_SPARE PARTS_FRONT_VPD-X5600_ROHS	E-00009557	P4T84-0001	Main Source	e	-
0	Speaker	SPEAKER_P40KCG08-3-7JS1_SPARE PARTS_BACK_VPD-X5600_ROHS	E-00009558	P4T84-0002	Main Source	2	
1	Screw	HEXAGON-HEAT-BOLT-4_MPD-S651_3M_ROHS	HW-00008066	82035-2520-00	Main Source	8	
52	Metal Frame	METAL DOME P4R_VPD-X5400_ROHS	HW-00008927	P4R38-1510-00	Main Source	2	the keypad board
2	Screw	SCREW_IT_5_IU_A_LD=5.5_DBLACK_NONE_KONS	HW-00008860	J1655-5670-00	Main Source		
5	Screw	SCREW-WASHER TP 2.4 D 1 D=32 NI NONE SUS ROHS	HW-00008001	J1635-3720-00	Main Source		
6 Hardware: Screw,	Screw	SCREW_M_2.5_A D=3_A0.8_BLACK_HEAT-TREATMENT_ROHS	HW-00008862	J1635-2250-00	Main Source	e	
87 Bracket, Hinge]	Screw	SCREW-WASHER_M_4_6_A_2.6_D=7_ZN_NONE_SUS_ROHS	HW-00008863	J1635-D420-0A	Main Source	2	
8	Screw	SCREW-WASHER_TP_3_6_D_2.6_D=5.4_ZN_NONE_SUS_ROHS	HW-00008864	J1635-3620-0A	Main Source	2	
9	Screw	SCREW-WASHERTP_3_10_D_7_D=5.3_NI_NONE_SUS_ROHS	HW-00008345	J1635-A491-00	Main Source	2	
0	Screw	SCREW+WASHER_M_3_6_D_2_D=5.3_ZN_NONE_SUS_ROHS	HW-00008865	J1635-B853-0A	Main Source	8	
2	Screw	SCREW_IP_18_5_E_0.5_D=4.5_BLACK_NONE_ROHS	HW-00008866	J1635-D559-00 11625-2404-00	Main Source Main Source	2	
3	Fan	Sentry_11_2_10_A_S9-F00(1=60M) NMB_R0HS	M-00008307	12394-0101-00	Main Source		
4	Fan	FAN 3110RL-04W-SS9-F03L=60MM) NMB ROHS	M-00008342	J2394-0101-01	Main Source	2	
5	Fan	FAN_BFB0512VHD-8L07(L=65MM)_DELTA_ROHS	M-00008343	J2394-0117-00	Main Source	e	-
6	Ring	FOCUS RING, RINGS-SPARE PARTS_VPD-W5600_ROHS	M-00008577	P6V84-4540	Main Source	2	
7 Miscellaneous: [Switch.	Ring	ZOOM RING TOP_VPD-W5600_99_FOR PAINTING_ROHS	M-00008578	P6V34-4550-99	Main Source	2	
Fan, Rubber Foot, Logol	SPONGE	FILTER SPONGE 2 P4R_VPD-X5400_ROHS	M-00008381	P4R38-1590-00	Main Source		
9	PAD	FILTER SPORGE PAR_VED-X5400_ROHS FAN PAD_TPD-X5500_POHS	M-00008382 M-00008200	P4E38-1580-00 P4E38-1070-00	Main Source Main Source		
1	Pad	PAD PREMIER PD-S650 GLOBAL ROHS	M-00008390	P8339-6900-00	Main Source		
2	SPONGE	FAN SPONGE P4R VPD-X5400 ROHS	M-00008393	P4R38-1530-00	Main Source		
3	Rubber Foot	FOOT-REAR_TPD-X5500_ROHS	M-00008344	P4E38-1570-00	Main Source	2	
4	Carton	CARTON_VIEWSONIC_VPD-W5600_GLOBAL_ROHS	P-00010191	P6V39-6000-00	Main Source	e	
5 Packing Material: [Box,	Foam	EPE_NO_VPD-X5400_FOR BODY_ROHS	P-00009685	P4R39-7000-00	Main Source	2	
6 Foam, Bags]	Plastic Bag	PE BAG_NO BRAND_298MM*190MM_ROHS	P-00008794	J4039-R184-01	Main Source		
Directions (Dedante), Direct	riasuc Bag	PE DAU_NU DRAND_ULUBAL_RUHS	P-00008410	J4039-K157-01	Main Sourc		
Lease and the second se	les -	LENS HOUSING VRD Y5400 00 NO BAINTING ROUS	DI 00008822	P4R34-4570-00	Main Source	. 1	1

RECOMMENDED SPARE PARTS LIST (P.ID6531w)

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 ECNECR approved by ViewSonic Corporation. This is to eliminate repeated cross checks of each item between this version and prior versions.

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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/verse sould be put in the "Accessories" category
4. All external cables should be put in the "Accessories" category
5. Parts estabolish plottine for a source of 20/44) 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.

Appendix A: RS-232 Command and Configuration

Baud Rate: 19200 Parity Bit: none

Data Bit: 8 Stop Bit: 1 Assign Port: COM1

Name	Operation type	CRS	Header	Command	Response
Dowor	ON	BE,EF,10,05,00	C6,FF	11,11,01,00,01,00	06
Power	OFF	BE,EF,03,06,00	DC,DB	69,00,00,00,00,00	06
	Computer				
	(Analog RGB)	BE,EF,03,19,00	19,29	01,47,05,CC,CC,00	06
	YCbCr	BE,EF,03,19,00	89,E8	01,47,05,CC,CC,00	06
Source	S-Video	BE,EF,03,19,00	E8,69	01,47,05,CC,CC,00	06
	Composite				
	Video	BE,EF,03,19,00	78,A8	01,47,05,CC,CC,00	06
	HDTV (Y-Pb-Pr)	BE,EF,03,19,00	DA,A8	01,47,05,CC,CC,00	06
	Menu	BE,EF,02,06,00	E9,D3	30,00,00,00,00,00	06
	Up	BE,EF,02,06,00	6D,D2	34,00,00,00,00,00	06
OSD	Down	BE,EF,02,06,00	0B,D2	32,00,00,00,00,00	06
	Left	BE,EF,02,06,00	DA,D3	33,00,00,00,00,00	06
	Right	BE,EF,02,06,00	38,D2	31,00,00,00,00,00	06
FCO	On	BE,EF,03,06,00	EF,DB	6A,00,00,00,00,00	06
	Off	BE,EF,03,06,00	3E,DA	6B,00,00,00,00,00	06
Auto On		BE,EF,03,06,00	89,DB	6C,00,00,00,00,00	06
Source	Off	BE,EF,03,06,00	58,DA	6D,00,00,00,00,00	06
	Source	BE,EF,02,06,00	57,D0	2E,00,00,00,00,00	06
Au	uto-Sync	BE,EF,02,06,00	86,D1	2F,00,00,00,00,00	06
Blank S	Screen(Video)	BE,EF,02,06,00	DF,DF	66,00,00,00,00,00	06
	Keystone	BE,EF,02,06,00	3D,DE	64,00,00,00,00,00	06
Keystone	Up	BE,EF,03,06,00	10,DB	65,00,00,00,00,00	06
	Down	BE,EF,03,06,00	23,DB	66,00,00,00,00,00	06
Volumo	Volume +	BE,EF,02,06,00	F1,DE	68,00,00,00,00,00	06
volume	Volume -	BE,EF,02,06,00	20,DF	69,00,00,00,00,00	06
	Image	BE,EF,03,06,00	F2,DA	67,00,00,00,00,00	06
Asp	pect Ratio	BE,EF,03,06,00	0D,DA	68,00,00,00,00,00	06
Fac	tory Reset	BE,EF,03,06,00	6B,DA	6E,00,00,00,00,00	06
La	mp Hour	BE,EF,03,06,00	BA,DB	6F,00,00,00,00,00	Lamp Hour
Firware Version		BE,EF,03,06,00	D5,D9	70,00,00,00,00,00	Version



D-Sub 9 pin

1	1 CD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

Wire List

C1	COLOR	C2			
1	Black	1			
2	Brown	3			
3	Red	2			
4	Orange	6			
5	Yellow	5			
6	Green	4			
7	Blue	8			
8	Purple	7			
9	White	9			
SHELL	DW	SHELL			

Appendix B: IR Control Code

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Key	Format	Byte1	Byte2	Byte3	Byte4
Power	NEC	83	F4	13	87
Source	NEC	83	F4	13	02
Up	NEC	83	F4	13	82
Down	NEC	83	F4	13	85
Left	NEC	83	F4	13	83
Right	NEC	83	F4	13	81
MENU	NEC	83	F4	13	84
Auto	NEC	83	F4	13	64
Mouse	NEC	83	F4	13	6B
ViewMatch	NEC	83	F4	13	63
Freeze	NEC	83	F4	13	80
Enter / Mouse Left	NEC	83	F4	13	8c
Exit / Mouse Right	NEC	83	F4	13	8d
KeyS+	NEC	83	F4	13	86
KeyS-	NEC	83	F4	13	8a
Digital Zoom+	NEC	83	F4	13	68
Digital Zoom-	NEC	83	F4	13	6a
Volume+	NEC	83	F4	13	88
Volume-	NEC	83	F4	13	89
Mute	NEC	83	F4	13	8b
Blank	NEC	83	F4	13	8f

Appendix C: How to reset the Lamp Hours

(1) Press "Menu" button to open the Main menu.

(2) Move color bar to "setting" item and then press right button to enter sub -menu.



(3) Move down the color bar to "Lamp Hours Reset" item.



(4) Press right button to enter sub-menu.



(5) Press left button to select "yes" to reset Lamp Hours.

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(6)Then the Lamp Hours would reset to 0 hours.

* 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.

<u>Assessment</u>

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

Unit	Excellent	Good	Fair	Bad
1 System Introduction				
2 Firmware Upgraded Flow				
3 Machine Disassembly and Replacement				
4 Troubleshooting and Verifying the Repair				
5 Connector Information				
6 FRU (Field Replaceable Unit) List				
7 Maintenance				
8 Network Control				
9 Recommended Spare Parts List				

B. Are you satisfied with this Service Manual?

Item	Excellent	Good	Fair	Bad
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

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

Reader's basic dada:

Name:	Title:
Company:	
Add:	
Tel:	Fax:
E-mail:	

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