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7U/ 8U Rackmount LCD Monitor

User Manual

LCDR7U17-03 / LCDR8U19-03

17" / 19" LCD

1. Table Of Content

2. Introduction

S Solutions is total compatible with Solaris. The LCD screen support SUN native 1152 x 900 & standard resolutions. SUN-compatible keyboard incorporates SUN system administration commands keys.

SP717 / SP819 series is a rackmount, 7U / 8U height, 17" / 19" LCD Monitor, with features such as Styled 6mm aluminium front panel, built in LCD OSD to provide effective assistant for an administrator to control SUN/ PC system.

3. Features

- 7U 17" or 8U 19" TFT LCD screen
- Standard color purple light grey.
- The screen direct support most SUN native resolution, including 1152 x 900 @ 66 or 76Hz
- Standard D-sub 15-pin VGA input connector
- 12V, 24V, 48V DC power supply options
- Lower power consumption
- Styled 6mm aluminium front panel.
- Side to side wide-angle viewing as CRT monitor.
- Rugged metal construction, black cladding is pre-treated and finished in powder coated paint
- Space-saving – Extra rack mounting space from the back of LCD Panel
- Built in On Screen Display controlled by integral membrane switches

4. Package Contents

LCD Monitor	1 Piece
User Manual	1 Piece
DC Power Adapter	1 Piece
Power Cord	1 Piece
Mounting kit	1 Set
High Quality 6 ft VGA Cable	1 Piece

Before Unpacking

It is very important to locate the LCD Monitor in a suitable environment.

- The surface for placing and fixing the LCD Monitor should be stable and level or mounted into a suitable cabinet.
- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Convenience for connecting the LCD Monitor to the related facilities should be well considers too.

Unpacking

The LCD Monitor comes with the standard parts shown as above. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

5. Optional Accessories

Others	
	Video Input
	12V / 24V / 48V DC Power Input

6. Peripheral Products

LCDK1020	8-Port USB KVM switch
LCDK1021	16-Port USB KVM switch
LCDK1090	16-Port USB two consoles KVM switch
LCDK1041	CAT.5 USB KVM extender
	1U SUN-compatible 104 key Keyboard

7. Important Safeguards

Please read all of these instructions carefully before you use the device.
Save this manual for future reference.

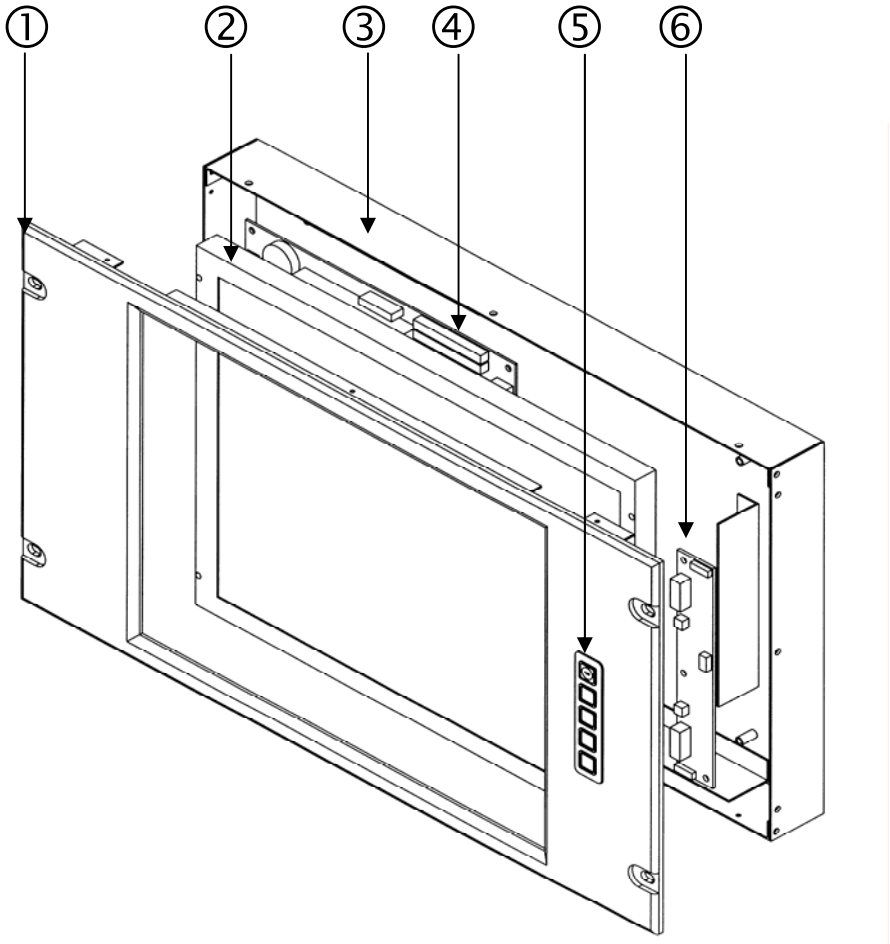
- Unplug the LCD Monitor from the power outlet before cleaning.
- Do not spray liquid cleaners or aerosol directly on the device. Wet a cloth with a neutral detergent (e.g. clean water) and squeeze it tight, then clean the screen slightly with it.
- Do not expose the LCD Monitor directly to rain, water, moisture or sunlight.
- Avoid pressure on the LCD screen to prevent permanent damage to the display.
- Do not attempt to service the device yourself. Improper operation may void your warranty. Refer all servicing to qualified service personnel.
- Safe storage environment of the LCD Monitor is ranging between –20^{o}C and 60^{o}C. Permanent damage could occur if the LCD Monitor is stored outside the safe range.
- Unplug the LCD Monitor immediately and call qualified service personnel under the following conditions:
  1. If the monitor has been exposed to rain, liquid or water.
  2. If the monitor has been dropped or the casing has been damaged.

What the warranty does not cover

1. Any product, on which the serial number has been defaced, modified or removed.
2. Damage, deterioration or malfunction resulting from:
   a) Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
   b) Repair or attempted repair by anyone not authorized by us.
   c) Any damage of the product due to shipment.
   d) Removal or installation of the product.
   e) Causes external to the product, such as electric power fluctuation or failure.
   f) Use of supplies or parts not meeting our specifications.
   g) Normal wear and tear.
   h) Any other causes which does not relate to a product defect.
3. Removal, installation, and set-up service charges.

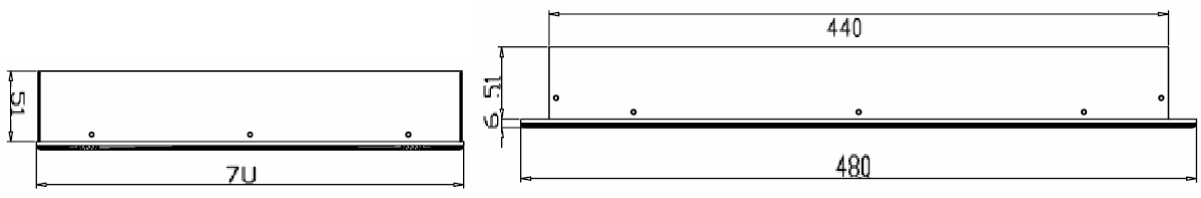
8. Structure Diagram

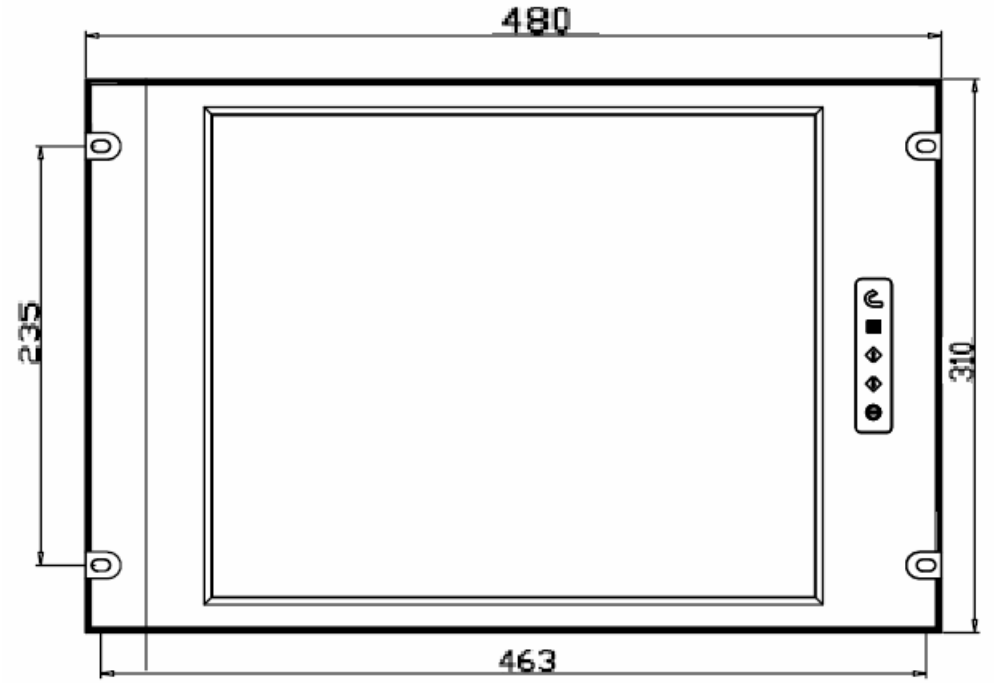
1. Aluminium front panel
2. Class A active matrix TFT LCD panel
3. Rear metal case
4. Analog to digital signal converter board
5. LCD Membrane
6. LCD inverter

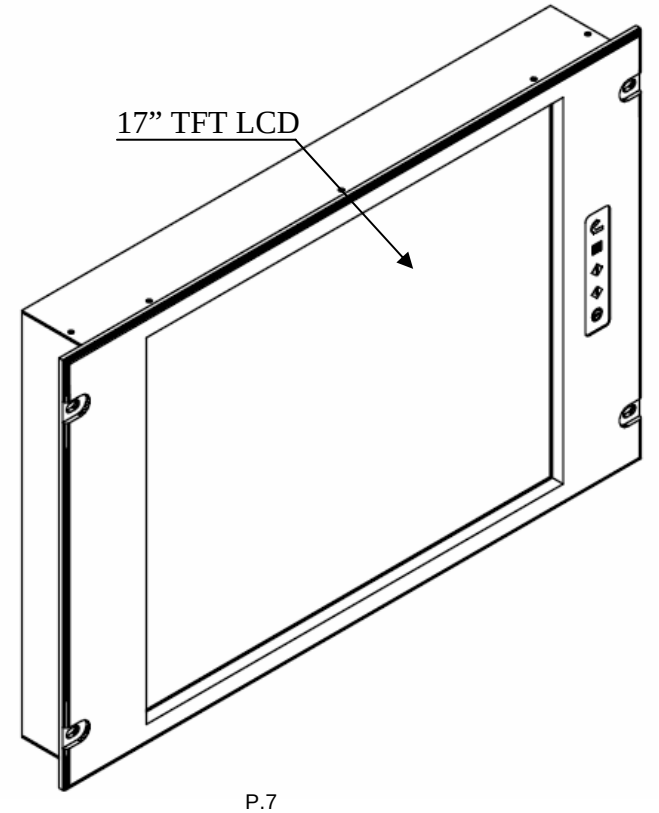


9. Dimension Diagram

LCDR7U17-03 7U 17” LCD Monitor

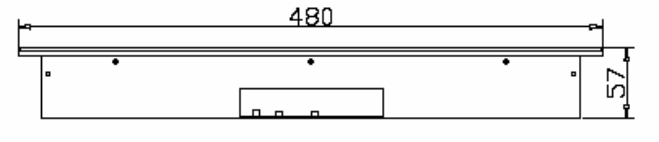


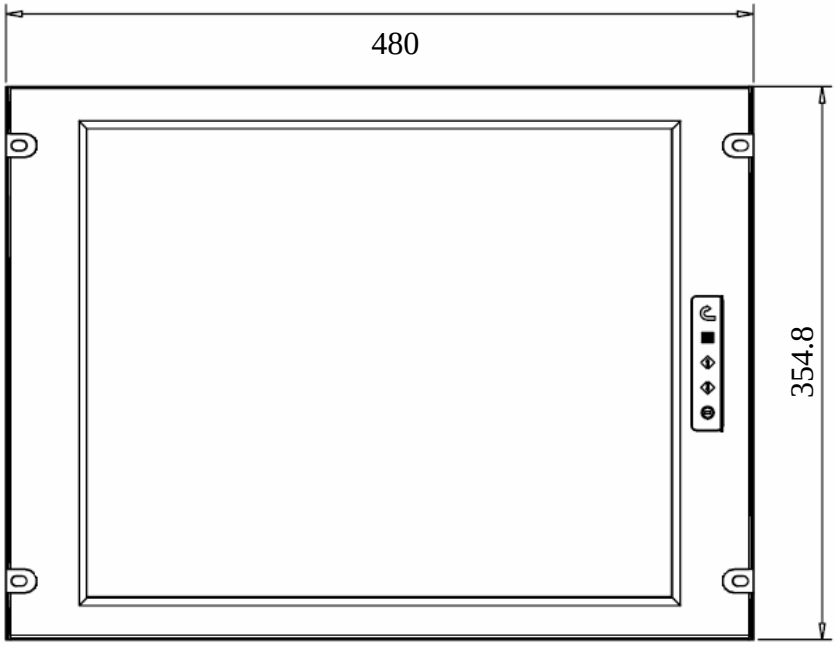


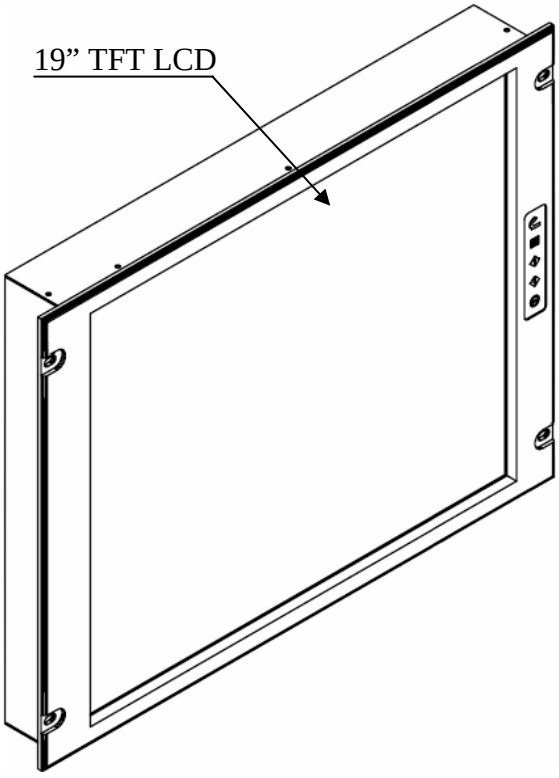


9. Dimension Diagram

LCDR8U19-03 8U 19” LCD Monitor



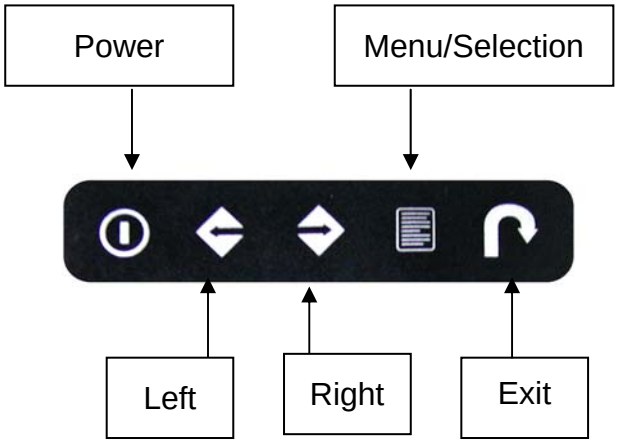




LCD Session

10. LCD OSD Menu Operation

LCD Membrane Diagram



Main Menu

Image

- To enter into the Brightness, Contrast, Sharpness, Saturation, Hue sub-menu

Geometry

- To enter into Auto Conflg., H. Position, V. Position, Clock, phase sub-menu

Function

- To enter into the OSD Position, OSD Zoom and Color Temp. sub-menu

System

- To enter into the Language, Time, Power OFF and Reset sub-menu.

10. LCD OSD Menu Operation

Image

Brightness

To adjust brightness level of the input signal

Use the ▼ button to select the function, then use ◀/▶ button to adjust from 0-100

Contrast

To adjust the contrast level of the input signal

Use the ▼ button to select the function, then use ◀/▶ button to adjust from 0-100

Sharpness

To adjust the sharpness level of the input signal

Use the ▼ button to select the function, then use ◀/▶ 'button to adjust from 0-35

Saturation

To adjust the saturation level of the input signal

Use the ▼ button to select the function, then use ◀/▶ 'button to adjust from 0-100

Hue

To adjust the Hue level of the input signal

Use the ▼ button to select the function, then use ◀/▶ button to adjust from (–19)-0-(+19)

10. LCD OSD Menu Operation

Geometry

Auto Conflg

To perform auto adjustment of the screen output.

Use the ▼ button to select the function, then use the ◀/▶ button to select “ Auto Conflg”

H. Position

To adjust Horizontal Position of the screen output.

Use the ▼ button to select the function, then use the ◀/▶ button to adjust “H. Position”

V. Position

To adjust Vertical Position of the screen output.

Use the ▼ button to select the function, then use the ◀/▶ button to adjust “ V. Position”

Clock

To adjust the width of the image

Use the ▼ button to select the function, then use the ◀/▶ button to adjust “Clock” .

Phase

To perform snow noise adjustment of the image.

Use the ▼ button to select the function, then use the ◀/▶ button to adjust “ Phase”

10. LCD OSD Menu Operation

Function

OSD Position

To perform OSD position selection of the screen

Use the ▼ button to select the function, then use the ◀/▶ button to select the digit for the OSD display region.

OSD Zoom

To perform OSD Zoom function of the OSD image

Use the ▼ button to select the function, then use the ◀/▶ button to on/off the OSD Zoom function

Color Temp.

To perform the Color Temperature selection of the image output

Use the ▼ button to select the function, then use the ◀/▶ ' button to select " Standard", "Cool", "Warm" and "User"

10. LCD OSD Menu Operation

System

Language

To perform Language selection of the function display

Use the ▼ button to select the function, then use the ◀/▶ button to select suitable display language “ English”, “Chinese (中文)”, “Deutsch”, “Francais”, “Espanol”, “Italiano” and “Japanese (日本語)”.

Time

To perform time setting of the system.

Use the ▼ button to select the function, then input the time setting and restore

Power OFF

To perform preset power off setting

Use the ▼ button to select the function, then input time setting and use ◀/▶ button to on/off the function.

Reset

To perform reset all stored parameters to factory preset mode

Use the ▼ button to select the function, then use ◀/▶ button activate the function.

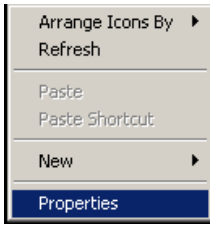
10. LCD Session

Resolution Settings

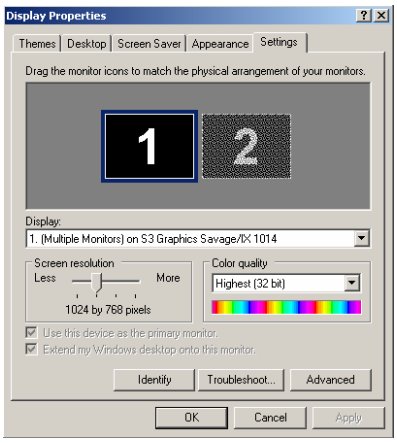
For Microsoft Windows

Step 1 – Press right click on the desktop

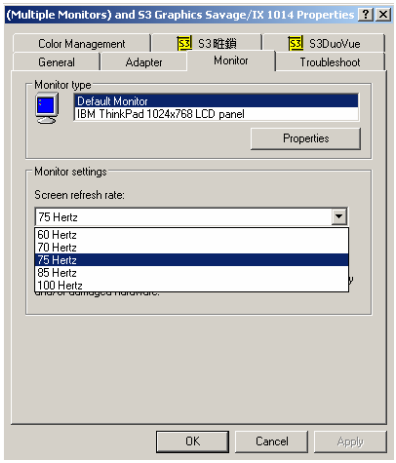
Step 2 – Choose “Properties”



Step 3 – Change the “Screen Resolution”



Step 4 – Change the “Screen refresh rate”



11. FAQ

1. **The recommended distance of VGA cable is 5 meters (maximum) without ghosting and degradation.**

   Normally, the cable length is based on driver capacity of your VGA card. If you need longer VGA cable, please use VGA extender to accomplish your applications.

2. **The recommended distance of PS/2 cable is 5 meters (maximum).**

   Normally, the cable length is based on driver capacity of your motherboard PS/2 port. If you need longer PS/2 cable, please use PS/2 extender to accomplish your applications.

3. Don't press any keys on the keyboard while the selected computer is booting up. Otherwise, it might cause the keyboard error or keyboard is not detected at PC side.

4. **The computer boot up fine, but keyboard doesn't work**

   - Make sure the keyboard works when directly plugged into the computer.
   - Try a different keyboard, but use only 101, 102 or 104-key keyboard.

5. **The Mouse is not detected during PC boot up.**

   - Make sure the mouse works when directly plugged into the computer.
   - Make sure the mouse is a true PS/2 mouse. A combo mouse will work just as long as it is set for PS/2 mode with the correct adapter. Please try a different mouse.
   - Avoiding moving the mouse or pressing the mouse buttons when switching ports.
   - Avoiding switching ports during shutting down the PC process.
   - When you switch one PC port to another PC port, the best scan time setting need to be set to 5 sec. or more. Normally, the VGA monitor change one resolution mode to another will take one or two seconds. So, the scan time is not recommended to below 5 seconds.

6. **The power switch is off, but the switch still works fine or power adapter is unplugged from the switch, but the switch still works fine.**

   KVM Switch unit draws the power source from power adapter and all PC's PS/2 port. Some PC's PS/2 port can support enough power for the switch, but some PC's PS/2 port (like laptop, notebook computer etc.) is unable to supply enough power for the switch. In order to make sure the system can work steadily, please do not set power switch to off state or remove the power adapter from the switch.

   Although the PCs connected to KVM Switch unit are able to support enough power to the stand alone switch, KVM Switch unit still needs a power adapter

11. FAQ

7. If you forget the “password” of the switch (default is 00000000), please contact your supplier.

8. CAT.5 Console Receiver power LED is not ON, to make sure power adapter is connected to KVM CAT.5 receiver.

9. **No video signal is displayed on the remote monitor.**

   - Please check all VGA cables & connecters whether CAT.5 cable & connector is loosed or disconnected. Also, please make sure VGA cable was attached to computer during boot up process.
   - Power adapter is not connected to receiver.

10. **Video signal is foggy or un-cleared on the screen.**

    Please check VGA connector, or the VGA resolution is too high for the length of cable being used. If the problem happened at VGA resolution, to shorten the CAT.5 cable length or reduce VGA resolution. It is highly recommended to use “optimal CAT.5 cable length “to get the best video quality and don’t waste unnecessary CAT5 cable. High VGA resolution is up to 1,280 x 1,024 and CAT.5 cable length could up to 500 feet approximately.

12. Technical Specifications

LCD

Item	Description	
LCD Screen Manufacturer	SAMSUNG	
LCD Origin	South Korea	
Panel	**17" TFT**	**19" TFT**
Resolution	1,280 x 1024	1,280 x 1,024
Brightness	300 cd/m^2	300 cd/m^2
Color	16.2 Million	16.7 Million
Contrast Ratio	700:1	700:1
Viewing Angle (H x V)	150° x 135°	150° x 135°
Display Area	337 x 270 mm	376 x 301 mm
Pixel Pitch	0.264 mm	0.294 mm
Response Time (Tr)	2ms	1.7ms
Response Time (Tf)	6ms	6.3ms
Back Light	4 x Cold Cathode Fluorescent Tube	
Horizontal Sync.	56.7 - 82.1 kHz	53.0 - 79.9 kHz
Vertical Sync.	55 - 77 Hz	50 - 75 Hz
Input Signal	Analog RGB 0.7Vp-p	
Power Management	VESA DPMS	
OSD Control	Brightness, Contract, Colour, Clock	
	H.Position, V.Position, Phase, Scaling	
	Auto Config., Input Select, Multi-Window	
	Clear EEPROM, OSD adjust	
Power Input	12V DC Adapter	
Video Input	15-pin D-Sub Connector	