



User Manual



ERW Series

1U Widescreen LCD Console Drawer

Options Available:

- SDI
- HDMI / BNC / Audio
- Full Range KVM
- DC Power

€ C€

Designed/Manufactured by Austin Hughes and Distributed by Eclipse Rackmount, Inc.

Legal Information

First English printing, October 2002

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

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

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fre or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:

	☐ Accident, misuse, neglect, f re, water, lightning, or other acts of nature, unauthorized product modification, or
	failure to follow instructions supplied with the product.
	☐ Repair or attempted repair by anyone not authorized by us.
	□ Any damage of the product due to shipment.
	☐ Removal or installation of the product.
	☐ Causes external to the product, such as electric power f uctuation or failure.
	☐ Use of supplies or parts not meeting our specifications.
Γ	□ Normal wear and tear.

Any other causes which does not relate to a product defect.
 Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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	Package Contents Structure Diagram & Dimensions Installation Connection Specifications / OSD Product Specifications Keyboard / Mouse Specifications On-Screen Display Operation (OSD) Options 3G / HD / SD-SDI Broadcast-grade input HDMI, S-Video + BNC & Audio

Contents

< Part. 4 > Integrated KVM

Part Numbers Ending In:

Matrix	Local	Remote	IP .	8-port	16-port	32-port
Cat6 KVM	1	1	1	-	16-Cat6-M3X-IP	32-Cat6-M3X-IP
	1	1	2	-	16-Cat6-M4X-2IP	32-Cat6-M4X-2IP
	1	1	0	-	16-Cat6-M2X	32-Cat6-M2X
	1	2	0	-	16-Cat6-M3X	32-Cat6-M3X
	1	3	0	-	16-Cat6-M4X	32-Cat6-M4X

Part Numbers Ending In:

Combo	Local	Remote	IP	8-port	16-port	32-port
Cat6 KVM	1	0	1	8-Cat6-IP	16-Cat6-IP	32-Cat6-IP
	1	1	0	8-Cat6-2X	16-Cat6-2X	32-Cat6-2X
	1	0	0	8-Cat6	16-Cat6	32-Cat6

Part Numbers Ending In:

Matrix (IIII)	Local	Remote	IP .	8-port	16-port	32-port
DB-15 KVM	1	1	1	8-M3X-IP	16-M3X-IP	-
	1	1	2	8-M4X-2IP	16-M4X-2IP	-
	1	1	0	8-M2X	16-M2X	-
	1	2	0	8-M3X	16-M3X	-
	1	3	0	8-M4X	16-M4X	-

Part Numbers Ending In:

Combo	Local	Remote	IP .	8-port	16-port	32-port
DB-15 KVM	1	0	1	8-IP	16-IP	-
	1	1	0	8-2X	16-2X	-
	1	0	0	8-USB	16-USB	-

Part Numbers Ending In:

DVI-D	o ⊞	Local	Remote	IP	12-port	-	-
KVM		1	0	0	12-DVI	-	-

Part Numbers Ending In:

USB Hub	Local	Remote	IP .	8-port	16-port	32-port
DB-15 KVM	1	0	1	8-IP-H	16-IP-H	-
	1	1	0	8-2X-H	16-2X-H	-
	1	0	0	8-USB-H	16-USB-H	-

Part Numbers Ending In:

PS/2		Local	Remote	IP	8-port	-	-
DB-15 KVM	حرييين	1	0	0	8-PS2	-	-

Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

How To Clean Your LCD Monitor



Caution :

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the f nish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

Cleaning Your Monitor

To clean your LCD safely, please follow these steps:

- ① Disconnect the power cord.
- ② Gently wipe the surface using a clean, dry microf ber cloth. Use as little pressure as possible.

Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps:

- ① Disconnect the power cord.
- 2 Spray a small amount of non-abrasive cleanser on a microf ber cloth.
- Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microf ber cloth f rst, not directly on the parts you are cleaning.
- Gently wipe the surface. Use as little pressure as possible.
- Wait until your monitor is completely dry before plugging it in and powering it up.

< Part 1 >

< 1.1 > Package Contents



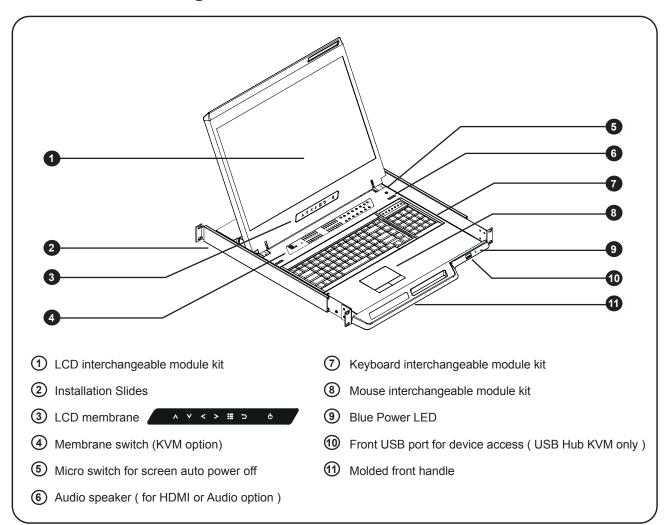
ERW-19 unit X 1

- CAX-6 6ft DVI-D console cable X 1
 (Alternative : CAU-6 6ft VGA console cable)
- Power cord X 1
- M6 screw, cage nut & cup washer X8



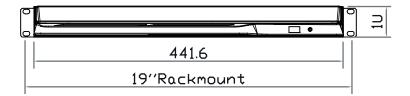
The above package content is only for the single console models. It varies with options such as KVM, SDI, HDMI, AV, audio & DC power.

< 1.2 > Structure Diagram



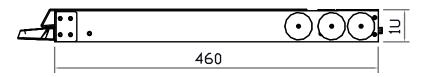
< 1.2 > Dimensions ERW-19

Front View

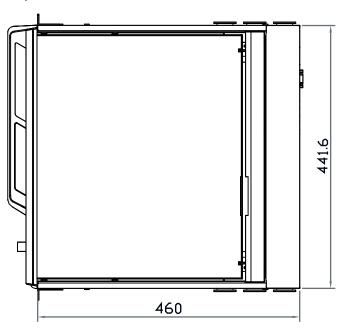


Side View

UNIT : mm 1mm = 0.03937 inch



Top View

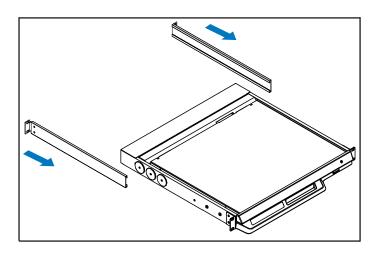


Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
ERW-19	441.6 x 460 x 44 mm	590 x 823 x 140 mm	11.5 kg	16.3 kg
	17.4 x 18.1 x 1.73"	23.2 x 32.4 x 5.5"	25 lb	36 lb



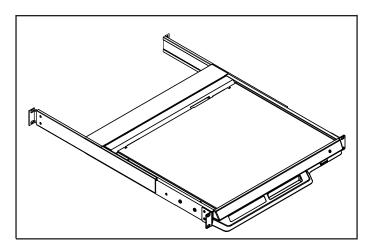
The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, HDMI, AV, audio & DC power.

< 1.3 > Installation - How to install Installation Slides



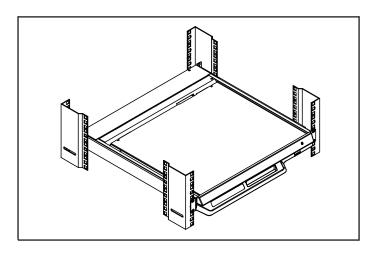
Step 1

■ Insert the left and right rear mounting brackets into the LCD console drawer.



Step 2

- Measure the depth of the front and rear mounting rails.
- Align each rear mounting bracket to a suitable length.



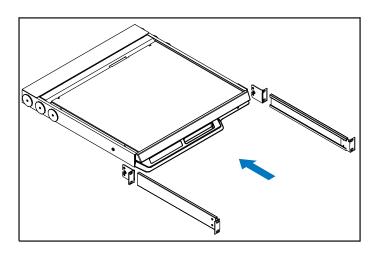
Step

Complete the installation

■ Fix the display drawer into the rack.

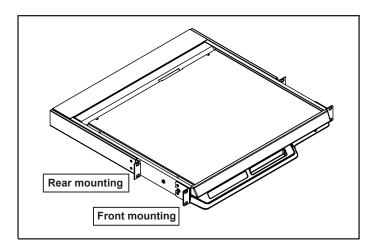


M6 screw, cage nut & cup washer x 8 are provided.



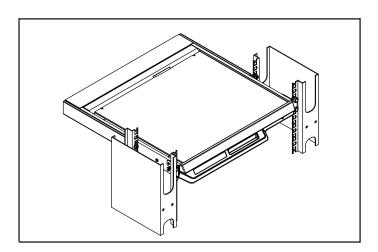
Step 1

- Release front mounting ears before applying 2 post r ack brackets.
- Insert rear mounting brackets into the LCD console
 - * Requires Part #: MB-751-12



Step 2

■ Align each rear mounting bracket to a suitable length.



Step

Complete the installation

■ Fix the LCD console drawer into the 2 post rack.



M6 screw, cage nut & cup washer x 8 are not provided.

< 1.3 > Installation - Using the Drawer



■ Hold the handle and slide out the drawer.



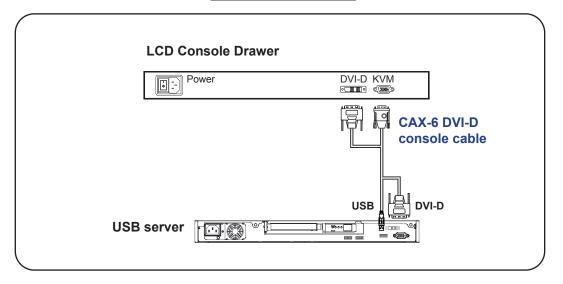
■ Lift the LCD to a suitable angle.



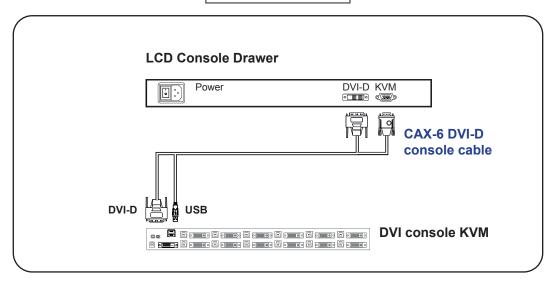
■ Operate the LCD console drawer.

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< 1.4 > Connection to USB Server via CAX-6 cable



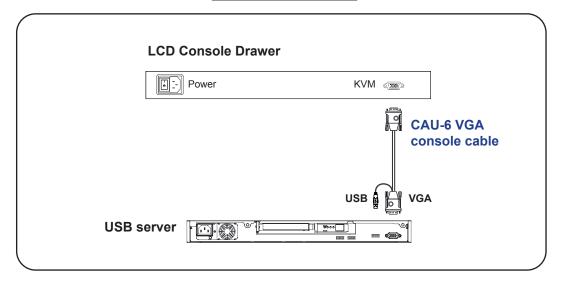
< 1.4 > Connection to External KVM via CAX-6 cable



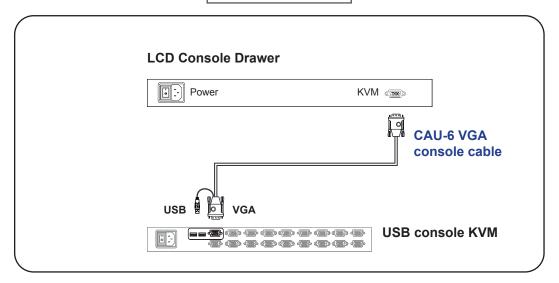


Caution: The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting to connect anything to the LCD console drawer , we suggest turning off the power to all devices. Apply power to connected devices again only after the LCD console drawer is receiving power. ERI is not responsible for damage caused in this way

< 1.4 > Connection to USB Server via CAU-6 cable



< 1.4 > Connection to External KVM via CAU-6 cable





Caution: The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting to connect anything to the LCD console drawer , we suggest turning off the power to all devices. Apply power to connected devices again only after the LCD console drawer is receiving power. ERI is not responsible for damage caused in this way

< 2.1 > Product Specifications

LCD	Manufacturer	SAMSUNG
Panel	Panel Size (diagonal)	19-inch Widescreen TFT color LCD
	Display pixel (dots x lines)	1440 x 900
	Brightness (typ.)	250
	Contrast Ratio (typ.)	1000:1
	Color	16.7 M
	Viewing Angle (L/R/U/D)	80/80/80
	Response Time (ms)	5
	Dot pitch (mm)	0.2835
	Display Area (mm)	408.24H x 255.15V
	Surface treatment	Haze 25%, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	30,000

Video	Digital	HDMI	HDMI 1.1, CEA-861-D
Connectivity		DVI	DVI-D, TMDS single link
	Analog	VGA	Analog 0.7Vp-p
		Composite (BNC)	NTSC & PAL
		S-Video (4-pin)	NTSC & PAL
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

Audio	Audio Input	Connector	3.5mm stereo jack
Connectivity		Impedance / Power level	30kΩ / 750mV
	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level	30kΩ / 2.8V
	Speaker Output	Power	2 x 2W

^{*}When the audio output is connected, speaker output is OFF

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen display ON	25W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

Regulatory Safety Approval	cUL, FCC & CE
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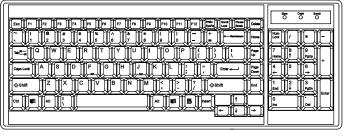
Environmental	Operating	Temperature 0 to 50°C degree	
Conditions		Humidity	20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

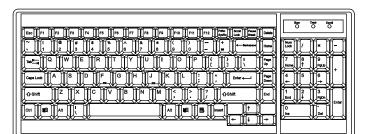
Physical	Product (WxDxH)	441.6 x 460 x 44 mm
Specification		17.4 x 18.1 x 1.73 inch
	Packing (WxDxH)	590 x 823 x 140 mm
		23.2 x 32.4 x 5.5 inch
	Net Weight	11.5 kgs / 25 lbs
	Gross Weight	16.3 kgs / 36 lbs

Applicable	DVI-D / VGA Input	PC Signal	1440 x 900 x 60Hz
Format			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 760 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz

Gn

G keyboard integrated with touch pad





G keyboard integrated with track ball





Key force	55 ± 5g	
Travelling distance	3 ± 0.3mm	
Switch life	> 10 million life cycle time	
Software support	MS Windows 7 / 2008 / 2003 / 2000 / XP / ME / 98 / DOC Linux / Mac	

Gb

Supporting layouts

America



America	United States				
	United Kingdom	Germany	France	Spain	Norway
EMEA	Italy	Russia	Switzerland	Netherlands	Portugal
Asia	* China	Japan	Korea	Arabia	C ⋆ Turkey

< 2.3 > On-Screen Display Operation (OSD)



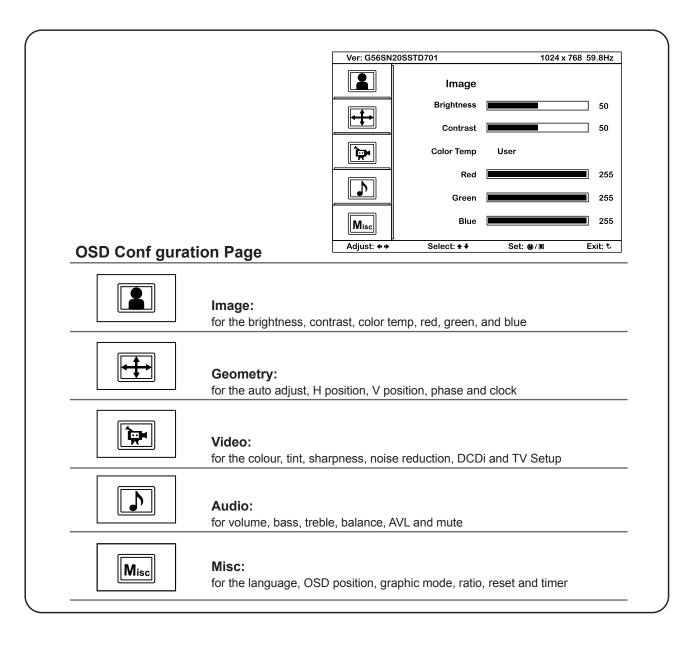
Membrane Switch	Function
	Turn the monitor on or off
	Display the OSD menu Act as an Enter key to select screen setting options
$\wedge $	Scroll through menu options and adjust the displayed control
	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu

Remark : All LED touch buttons in WHITE light.

The LED of **Power** touch button will f ash continuously when there is no signal input.

1 All the LED touch buttons will automatically turn off after 10 minutes of idle status (except the **Power** (b)).

2 Light up all membrane buttons, please press any button for 1 - 2 seconds (except the **Power** 🖔).



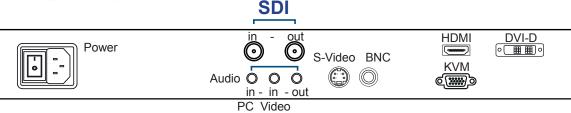
< 3.1 > Options : 3G / HD / SD-SDI input



The SDI input is an ideal solution for the broadcastgrade video and high resolution CCTV market.

SMPTE 299M / 272M-C

Designed for use with CyberV iew Full HD 1080p and ultra high resolution 1920 x 1200 LCD displays, the board provides a SDI input module without using additional space or power and it comes standard with a 2-year warranty.



*** For SDI option, casing depth will be changed from 460mm (18.1") to 530mm (20.9")

INPUT	3G-SDI IN	BNC x 1 / 0.8Vp-p (75 ohm)
	3G-SDI OUT	BNC x 1 / Active through, equalized & relocked
Standard Compliance	Video	SMPTE 425M / 274M / 296M / 125M
		ITU-R BT.656

Audio

Compatible Video Format	3G-SDI	1080p 1080p 1080i 720p	@60 / 50Hz, 4:2:2 @30 / 25 / 24Hz, 4:4:4 @60 / 50Hz, 4:4:4 @60 / 50Hz, 4:4:4
	HD-SDI	1080p 1080i 720p	@30 / 25 / 24Hz, 4:2:2 @60 / 50Hz, 4:2:2 @60 / 50Hz, 4:2:2
	SD-SDI	480i	@60Hz, 4:2:2
	ITU-R BT.656	576i	@50Hz, 4:2:2

3G-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
HD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
SD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized / Asynchronized Video
	HD-SDI

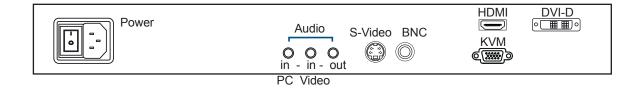
Max. Transmission Distance 75 ohm coaxial cable	3G-SDI	150m at 2.97Gb/s
	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

< 3.2 > Options : ERW-19

- HDMI (HDMI 1.1, CEA-861-D)
- BNC (S-Video + Composite, BNC)
- Audio (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)



- (1) Either HDMI or DVI-D can be selected.
- (2) For the above options, casing depth will be extended from 460mm (18.1") to 530mm (20.9")



< 3.3 > Options : DC Power



Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Ef Z ciency	84%	85%	85%

DC power



*** For DC power option:

- (1) Option excludes 1 x power cord and 1 x AC power adapter.
- (2) Casing depth will be extended from 460mm (18.1") to 530mm (20.9")

