



User Manual 17" FHD 1080p LCD

751

RKD-DS-17-WHDE www.kvmswitchtech.com

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, fire 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, fire, 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 fluctuation or failure.
 - ☐ Use of supplies or parts not meeting our specifications.
 - 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.

Contents

Part. 1	> RKD-DS-17-WHDE	
1.1	Package Content	P.1
1.2	Structure Diagram & Dimension	P.1 - 2
1.3	Installation	P.3 - 5
1.4	Connection	P.6 - 7
Part. 2	> Specifications / OSD	
2.1	Product Specifications	P.8 - 9
2.2	Keyboard / Mouse Specifications	P.10 - 12
2.3	On-screen Display Operation (OSD)	P.13 - 14
< Part. 3	> Options	
3.1	3G / HD / SD- SDI Broadcast-grade input	P.15
3.2	HDMI, S-Video + BNC & Audio	P.16

3.3 48V, 24V or 12VDC power

P.17

Contents

< Part. 4 > KVM Integration

Matrix	Local	Remote		8-port	16-port	32-port
DB-15 KVM	1	1	1	-MIP813	-MIP1613	
	1	1	2	-MIP824	-MIP1624	
	1	1	0	-M802	-M1602	
	1	2	0	-M803	-M1603	
	1	3	0	-M804	-M1604	-

Combo	Local	Remote		8-port	16-port	32-port
DB-15 KVM	1	0	1	-IP802	-IP1602	
	1	1	0	-802	-1602	
	1	0	0	-S801	-S1601	-

DVI-D	Local	Remote		12-port	-	
KVM	1	0	0	-1201D	-	-

PS/2	Local	Remote		8-port	-	
DB-15 KVM	1	0	0	-801	-	-

Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has 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

ACaution:

- 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 finish.
- 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 microfiber 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 microfiber cloth.

Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.

- 3 Gently wipe the surface. Use as little pressure as possible.
- 4 Wait until your monitor is completely dry before plugging it in and powering it up.

< 1.1 > Package Content

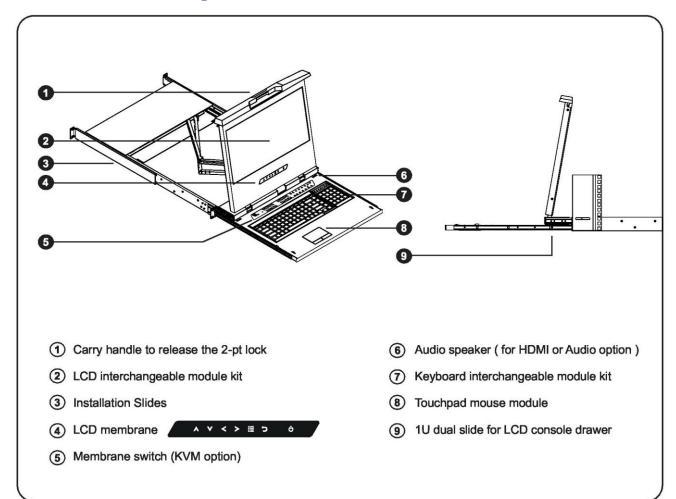


RKD-DS-17-WHDE unit X 1

- KVM-CX-6 6ft DVI-D console cable X 1
 (Alternative : KVM-CB-6 6ft VGA console cable)
- Power cord X 1
- M6 screw, cage nut & cup washer X 8

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



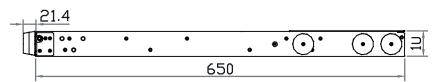
< 1.2 > Dimension

Front View

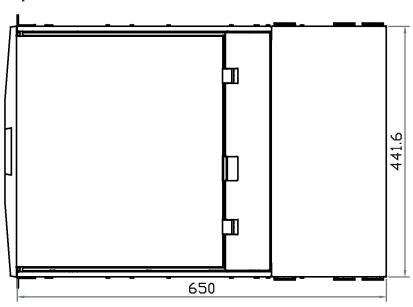


Side View

UNIT : mm 1mm = 0.03937 inch



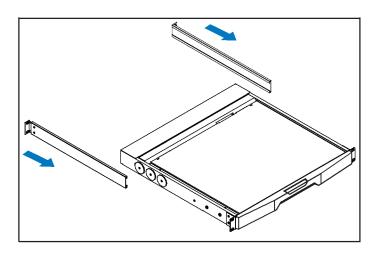
Top View



Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
RKD-DS-17-WHDE	441.6 x 650 x 44 mm	595 x 860 x 140 mm	11.9 kg	17.9 kg
	17.4 x 25.6 x 1.73"	23.4 x 33.9 x 5.5"	26.2 lb	39.4 lb

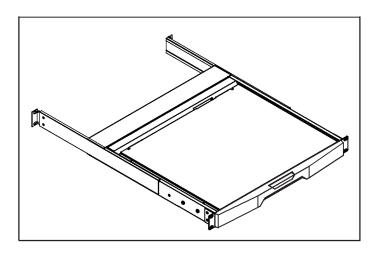


The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, HDMI, AV, audio & DC power.



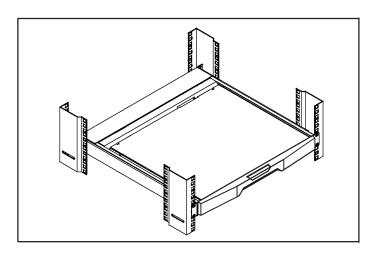
Step 1

■ 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 3

Complete the installation

■ Fix the LCD console drawer into the rack.



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

< 1.3 > Installation - How to Use the Dual Slides



■ Press the handle button and gently slide out the drawer.



■ Flip up the LCD to a suitable angle.



■ Operate the LCD console drawer.



■ Flip down the front panel.



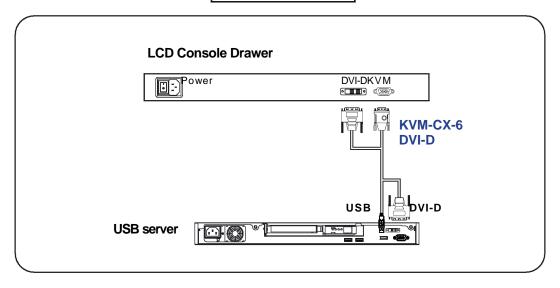
■ Press the handle button and gently push back the drawer into the rack.



Return the LCD console drawer to park position.

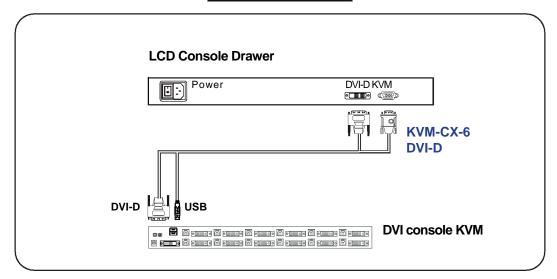
< 1.4 > Connection to

USB Server via KVM-CX-6



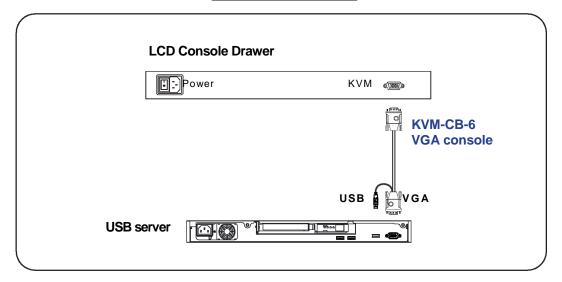
< 1.4 > Connection to external KVM

via KVM-CX-6

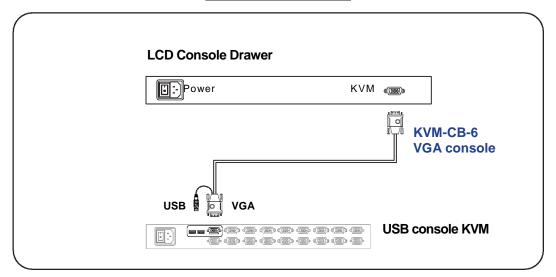




Caution: The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting 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. The company is not responsible for damage caused in this way.



< 1.4 > Connection to external KVM via KVM-CB-6





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. The company is not responsible for damage caused in this way.

< 2.1 > Product Specifications

Panel Size (diagonal)	17.3-inch Widescreen TFT color LCD
Display pixel (dots x lines)	1920 x 1080
Brightness (typ.)	300
Contrast Ratio (typ.)	600:1
Color	1.07 Billion, 10-bit
Viewing Angle (L/R/U/D)	89/89/89
Response Time (ms)	35
Dot pitch (mm)	0.199
Display Area (mm)	381.9H x 214.8V
Surface treatment	Anti-glare, Hard-coating
Surface hardness	3H
Backlight Type	LED
MTBF (hrs)	20,000

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	34W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

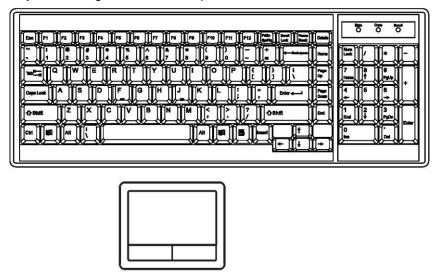
Environmental	Operating	Temperature	0 to 50°C degree	
Conditions		Humidity	20~90%, non-condensing	
Storage		Temperature	-5 to 60°C degree	
		Humidity	5~90%, non-condensing	
		Shock	10G acceleration (11ms duration)	
		Vibration	5~500Hz 1G RMS random	

Physical Specification	Product (W x D x H)	441.6 x 650 x 44 mm 17.4 x 25.6 x 1.73 inch
	Packing (W x D x H)	595 x 860 x 140 mm
		23.4 x 33.9 x 5.5 inch
	Net Weight	11.9 kgs / 26.2 lbs
	Gross Weight	17.9 kgs / 39.4 lbs

Applicable	DVI-D / VGA Input	PC Signal	1920 x 1080 x 60Hz
Format			1360 x 768 x 60Hz
			1280 x 1024 x 60 /
			75Hz 1280 x 960 x
			60Hz 1280 x 768 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

< 2.2 > Keyboard / Mouse Specifications

Ge G keyboard integrated with touchpad



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

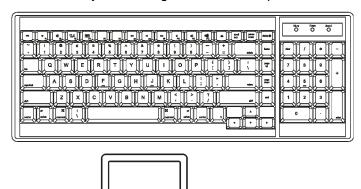
Supporting layouts

America



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

Me MAC keyboard integrated with touchpad



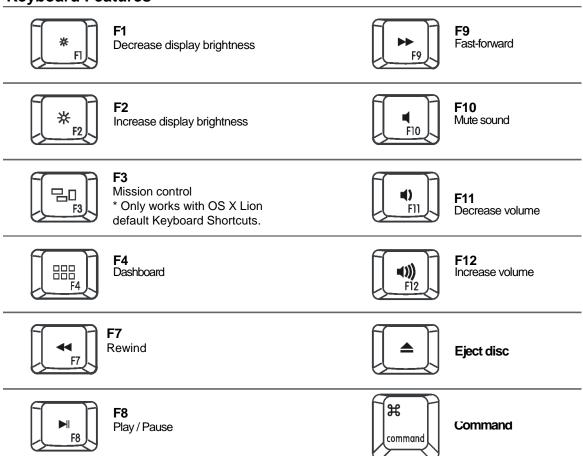
Supporting layouts

America



How to Use "MAC" Keyboard

Keyboard Features



< 2.2 > SUN Keyboard / Mouse Options

Se S keyboard integrated with touchpad



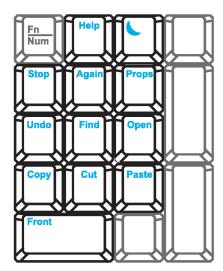


S keyboard integrated with touchpad / trackball



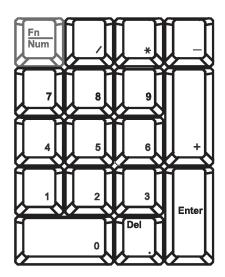
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

How to Use "S" Keyboard



Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode



Num LED in Green mode

Key pad behaves as a normal key pad mode

Audio / Display Keys

* Please ask your supplier for full details



F9

Audio : Mute Display : Degauss



F11

Audio : Decrease volume Display : Decrease contrast



F12

Audio : Increase volume Display : Increase contrast



Membrane Switch	Function	
Ф	Turn the monitor on or off	
	Display the OSD menu Act as an Enter key to select screen setting options	
	Scroll through menu options and adjust the displayed control	
Ð	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** (b) touch button will flash 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** (1)).

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

Picture

Picture mode: Standard / Vivid / Soft / User mode to choose Adjust background black level of the screen image Brightness:

Contrast: Adjust the difference between the image background

(black level) and the foreground (white level)

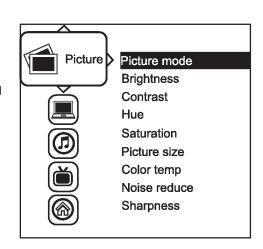
Hue: Adjust the screen hue value

Saturation: Adjust the saturation of the image color

Picture size: Adjust the image size

Color temp: Standard / Cool / Warm / User to choose

Noise reduce: Reduce the noise of the image Sharpness: Adjust the image from weak to sharp



< 2.3 > On-screen Display Operation (OSD)

2 PC

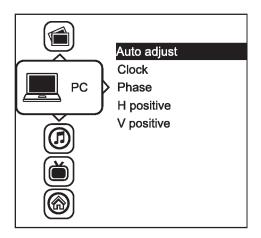
Auto adjust: Automatically adjust sizes, centers and Þne tunes the

video signal to eliminate waviness and distortion.

Clock : Adjust the clock value

Phase : Adjust the phase value

H. Position : Align the screen image left or rightV. Position : Align the screen image up or down



3 Audio

Audio mode: Movie / Voice / Normal / Music mode to choose

Volume : Adjust the volume of sound

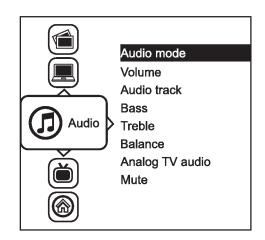
Bass : Set the value of bass sound

Treble : Set the value of treble sound

Balance: Set the balance value of treble and bass sound

Analog TV audio: Set the value of analog TV audio sound

Mute: Turn off the surrounding sound



4 MISC

Language : Select the language in which the OSD menu is

displayed - English

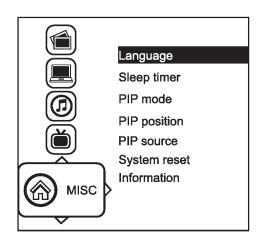
Sleep timer: Set the off time

PIP mode : Adjust picture in picture setting

PIP position : Enter into PIP position

PIP source : Enter into the Sub source and sound source System reset : Return the adjustment back to factory setting

Information: Select for Help



< Part 3 >

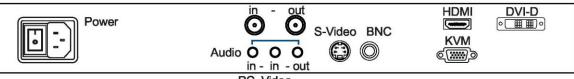
< 3.1 > Options : 3G / HD / SD-SDI input RKD-DS-17-WHDE



Austin Hughes' SDI input is an ideal solution for the broadcast-grade video and high resolution CCTV market.

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

SDI



PC Video

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	SMPTE 299M / 272M-C	

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

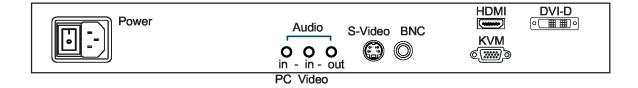
Compatible Audio Format	3G-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	HD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	SD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized / Asynchronized Video

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

< 3.2 > Options:

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

For dual slide 1U / 2U LCD console drawer, the user can only select one of the above four options.





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
Efficiency	84%	85%	85%

DC power



* * *

Option excludes 1 x power cord and 1 x AC power adapter

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