

dedicated KVM switch and rackmount screen technology

User Manual 17" / 19" LCD



751

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.
 - $\hfill\square$ 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.
 - $\hfill\square$ Use of supplies or parts not meeting our specifications.
 - \Box Normal wear and tear.
 - $\hfill\square$ 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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< Part 1 > < 1.1 > Package Content

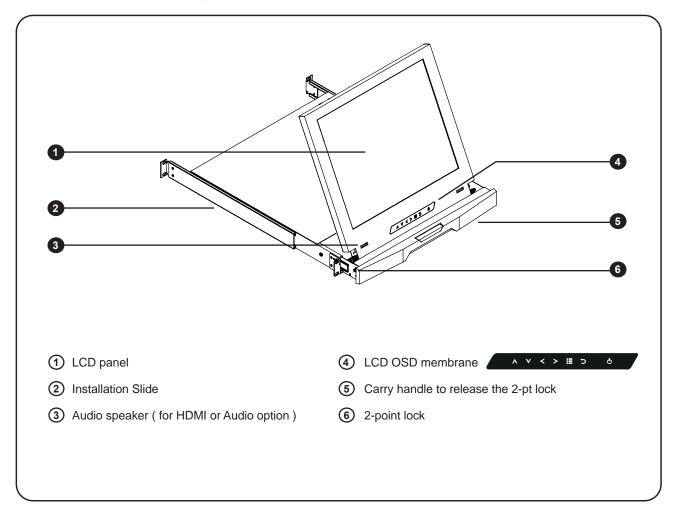


RMD-152-17 or -19 unit X 1

- 6ft VGA cable X1
- Power cord X1
- M6 screw, cage nut & cup washer X8

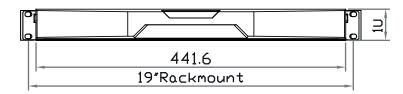
The above package content is only for the pure model (VGA and DVI-D only). It varies with options such as HDMI, AV, audio, touchscreen & DC power.

< 1.2 > Structure Diagram

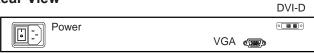


< 1.2 > Dimension

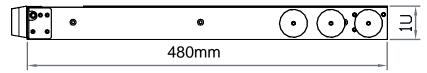
Front View



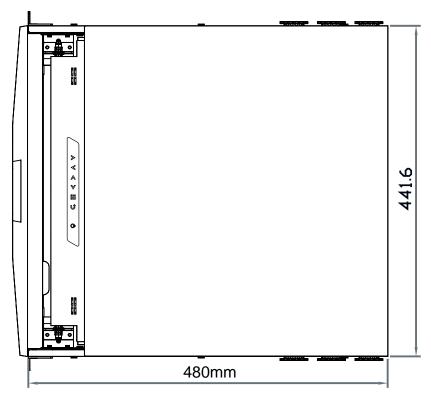
Rear View



Side View



Top View



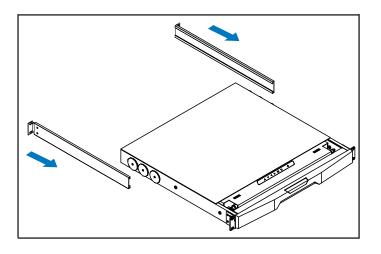
Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
RMD-152-17	441.6 x 480 x 44 mm	588 x 758 x 120 mm	10.5 kg	16.5 kg
	17.4 x 18.9 x 1.73"	23.1 x 29.8 x 4.7"	23.1 lb	36.3 lb
RMD-152-19	441.6 x 480 x 44 mm	588 x 758 x 120 mm	12.5 kg	18.5 kg
	17.4 x 18.9 x 1.73"	23.1 x 29.8 x 4.7"	27.5 lb	40.7 lb

The weight is only for the pure models. It varies with accessories & options such as HDMI, AV, audio, touchscreen & DC power.

UNIT : mm

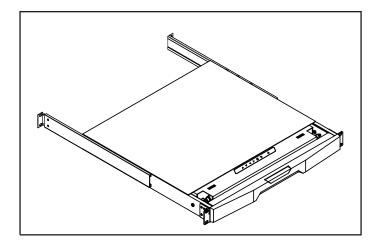
1mm = 0.03937 inch

< 1.3 > Installation - How to install Installation Slides



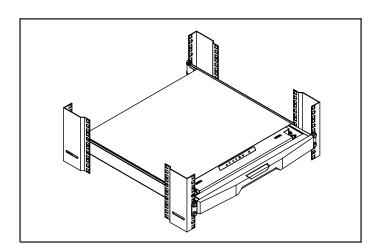


Insert the left and right rear mounting brackets into the display drawer.



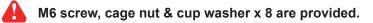


- Measure the depth of the front and rear mounting rails.
- Align each rear mounting bracket to a suitable length.



Step **3** Complete the installation

Fix the display drawer into the rack.



< Part 2 >

< 2.1 > Product Specifications

LCD		RMD-152-17	RMD-152-19
Panel	Manufacturer	VNO	VNO
	Panel Size (diagonal)	17-inch TFT color LCD	19-inch TFT color LCD
	Display pixel (dots x lines)	1280 x 1024	1280 x 1024
	Brightness (typ.)	250	250
	Contrast Ratio (typ.)	1000:1	1000:1
	Color	16.7 M	16.7 M
	Viewing Angle (L/R/U/D)	85/85/80/80	85/85/80/80
	Response Time (ms)	5	5
	Dot pitch (mm)	0.264	0.294
	Display Area (mm)	337.92H x 270.33V	376.32H x 301.06V
	Surface treatment	Haze 25%, I	Hard-coating
	Surface hardness	3H	3H
	Backlight Type	LED	LED
	MTBF (hrs)	30,000	30,000

Video	Digital	HDMI	HDMI 1.2, CEA-86D
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	Dual Stereo Speaker	2W x 2

*When the audio output is connected, speaker output is OFF

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

Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

Environmental	Operating	Temperature	0 to 55°C degree
Conditions		Humidity 20~90%, non-condensing	20~90%, non-condensing
		Altitude	16,000 ft
	Storage / Non-operating	Temperature	-20 to 60°C degree
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

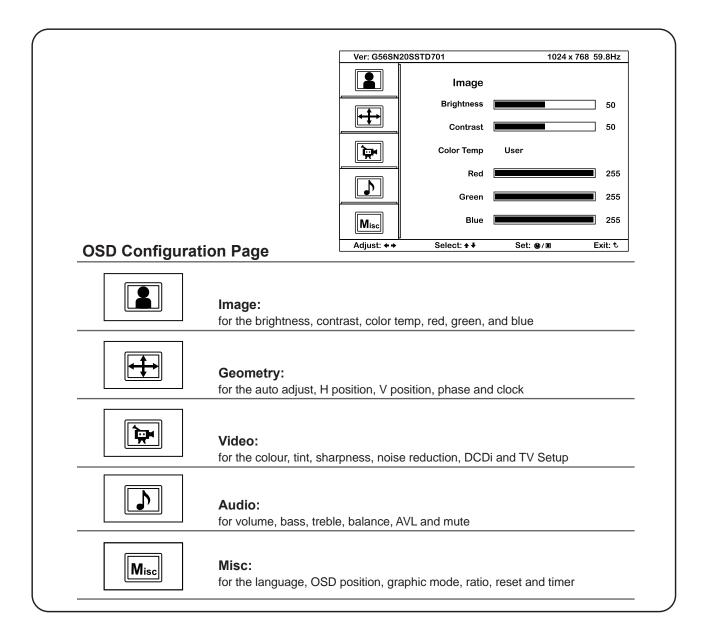
Physical		RMD-152-17	RMD-152-19
Specification	Product (W x D x H)	441.6 x 500 x 44 mm	441.6 x 500 x 44 mm
		17.4 x 19.7 x 1.73 inch	17.4 x 19.7 x 1.73 inch
	Packing (W x D x H)	588 x 758 x 120 mm	588 x 758 x 120 mm
		23.1 x 29.8 x 4.7 inch	23.1 x 29.8 x 4.7 inch
	Net Weight	10.5 kgs / 23.1 lbs	12.5 kgs / 27.5 lbs
	Gross Weight	16.5 kgs / 36.3 lbs	18.5 kgs / 40.7 lbs

Applicable	DVI-D / VGA Input	PC Signal	1280 x 1024 x 60 / 75Hz
Format			1280 x60 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
	HDMI Input		720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz
		PC Signal	Same as VGA
		Video Signal	720p : 50 / 60Hz
			480p : 60Hz
			576p : 50Hz
		Audio Signal	2ch Linear PCM (32 / 44.1 / 48 KHz)

< 2.3 > On-screen Display Operation (OSD)

Membrane Switch	Function			
Ċ	Turn the monitor on or off			
	Display the OSD menu Act as an Enter key to select screen setting options			
$\mathbb{A} \ \mathbb{V} \ \mathbb{A} \ \mathbb{P}$	Scroll through menu options and adjust the displayed control			
Ć	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu			
mark : All LED touch buttons in ¹ The LED of Power (b) to	WHITE light. buch button will flash continuously when there is no signal input.			

< 2.3 > On-screen Display Operation (OSD)



< Part 3 > < 3.1 > Options :

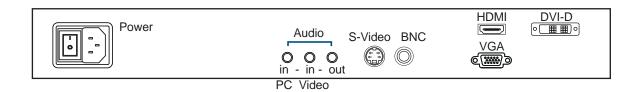
- HDMI (HDMI 1.2, CEA-861-D
- AV (S-Video + Composite, BNC)
- Audio (Built-in Dual Stereo Speakers, 2W x 2) (3.5mm audio jacks for audio in & out)

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- (1) Either HDMI or DVI-D can be selected.
- (2) In some circumstances, if the user connects the LCD to PC via HDMI port for video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.

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(3) For the above options, casing depth will be extended from 500mm (19.7") to 570mm (22.4")



< 3.2 > Options : Touchscreen & driver



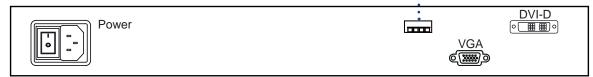
17" / 19" USB Touchscreen Specification

Model	17"	19"	17"	19"	
	TRB e-Resistive		TCB e-Capacitive		
Technology	5-Wire Resistive		Capacitive		
Touch Point	Single		Single		
Method	Stylus or Finger		Finger		
Activation Force	≤ 50g / St	ylus=R0.8	≤ 50g		
Durability	35 million touches		300 million touches		
Response Time	15 ms		20 ms		
Optical Transmittance	80% ± 3%		93% ±2%		
Surface Hardness	ЗН		9Н		
Haze	8% ± 3%		7%		
Glass	1.4 ±0.2 mm	3.2 ±0.2 mm	2.8 mm ±10%	2.8 mm ±10%	
Connector	USB Type A		USB Type A		
Compatibility	Windows 7 / X	P / Vista, Linux	Windows 7 / XP / Vista, Linux		

■ USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disc

- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully

USB Touchscreen



For touchscreen option, casing depth will be extended from 480mm (18.9") to 570mm (22.4")

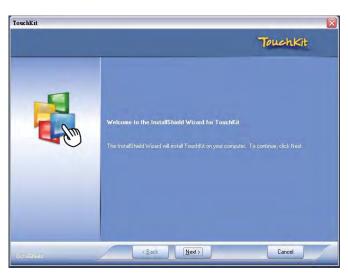
Please follow the below steps to setup the touch screen:-

- Step 1. Run the bundled CD disc or download the driver from the link below : http://www.eeti.com.tw/drivers_Win.html
- Step 2. Double click the Setup.exe

Please do the initial calibration

after the first setup

- Step 3. Follow the installation instruction to finish the setup
- Step 4. After installation, run the TouchKit program & the "4 point calibration"

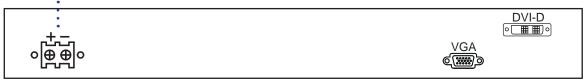


< 3.3 > Options : DC Power



Model	12V	24V	48V	125V	250V
Input rating					
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current					
- No load	50 mA	50 mA	50 mA	35 mA	10 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
Output rating					
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A	12.5A
Efficiency	84%	85%	85%	91%	86%

DC power



- ******* For DC power option :
 - (1) If the unit with LCD, earthing may be required 🔒
 - (2) DC option excludes AC power adapter and power cord.
 - (3) Casing depth will be extended from 500mm (19.7") to 570mm (22.4")

The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

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