User Manual   17" Ultra High Resolution LCD 1920 x 1200

RMD-151-X17
1U LCD Drawer

Options :
- SDI
- HDMI / Audio
- Touchscreen / DC power

FC CE

Contents

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 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.

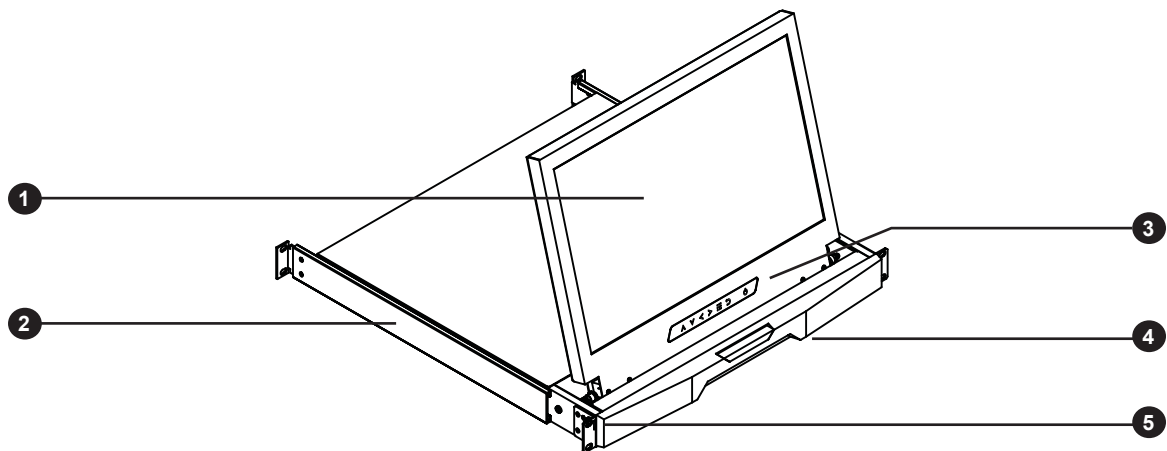**RMD-151-X17 X 1**

6ft VGA cable X 1

Power cord X 1

M6 screw, cage nut & cup washer X 8

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

< 1.2 > Structure Diagram

①	LCD panel	④	Carry handle to release the 2-pt lock
②	Installation Slide	⑤	2-point lock
③	LCD OSD membrane		

< 1.2 > Dimension

Front View

441.6

19"Rackmount

1U

Side View

1U
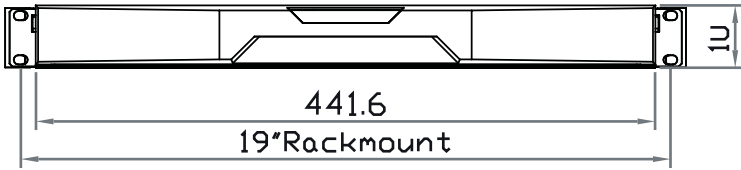
UNIT : mm
1mm = 0.03937 inch

Top View

441.6

460
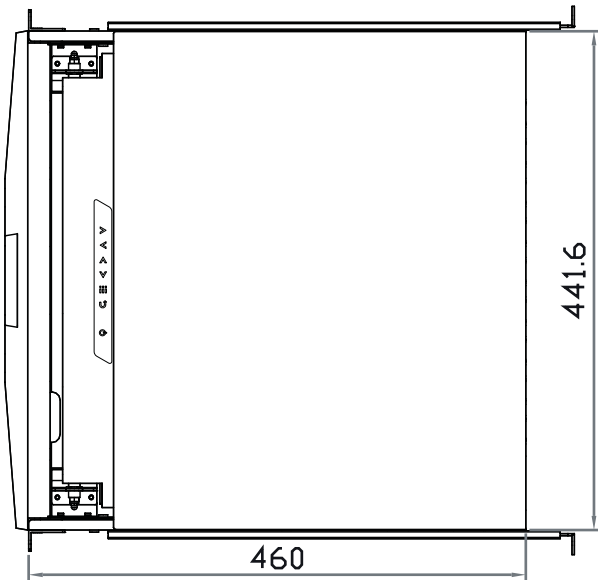
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RMD-151-X17	441.6 x 460 x 44 mm 17.4 x 18.1 x 1.73"	590 x 687 x 120 mm 23.2 x 27 x 4.7"	11 kg 24 lb	15 kg 33 lb

⚠ **The weight is only for the pure models. It varies with accessories & options such as SDI, HDMI, audio, touchscreen & DC power.**
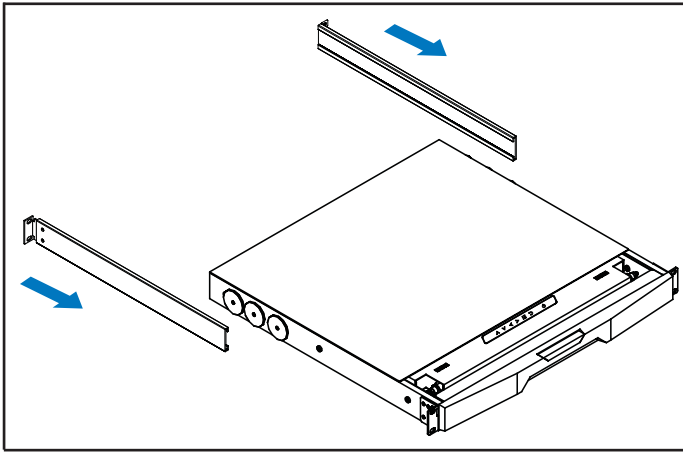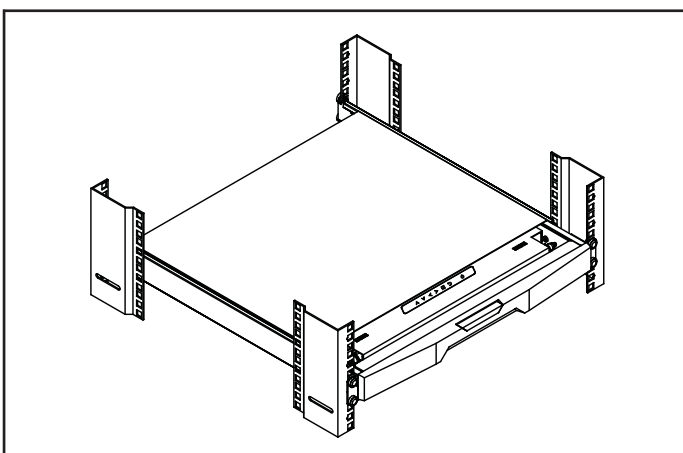
Step 1

■ Insert the left and right rear mounting bracket into the display drawer.
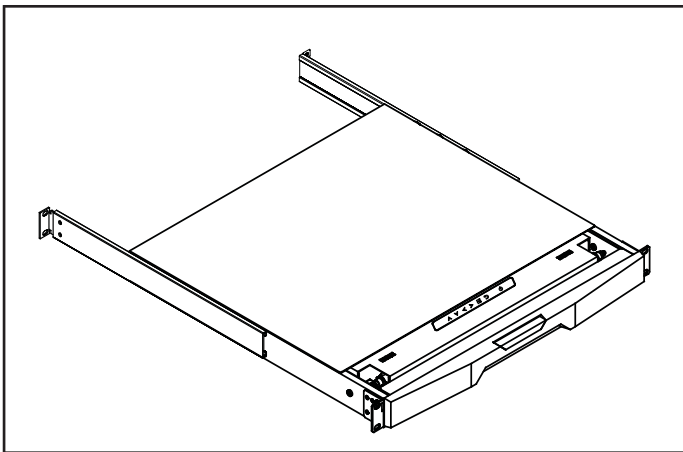
Step 2

■ 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 display drawer into the rack.

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

< Part 2 > Specifications / OSD
< 2.1 > Product Specifications

LCD Panel	Panel Size (diagonal)	16.2-inch Widescreen TFT color LCD
	Display pixel (dots x lines)	1920 x 1200
	Brightness (typ.)	300
	Contrast Ratio (typ.)	800:1
	Color	16.7 M, 8-bit
	Viewing Angle (L/R/U/D)	89/89/89/89
	Response Time (ms)	30
	Dot pitch (mm)	0.191
	Display Area (mm)	343.80H x 214.90V
	Surface treatment	Anti-glare, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	20,000

Video Connectivity	Digital	HDMI	HDMI 1.4, CEA-861-E
		DVI	DVI-D, TMDS single link
	Analog	VGA	Analog 0.7Vp-p
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

Audio Connectivity	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. 34W
		Power saving mode	Max. 4W
		Power button OFF	Max. 1W

Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant
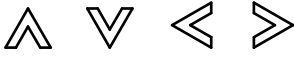
Environmental Conditions	Operating	Temperature	0 to 55°C degree
		Humidity	20~90%, non-condensing
		Altitude	16,000 ft
	Storage / Non-operating	Temperature	-20 to 60°C degree
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

Physical Specification	Product (W x D x H)	441.6 x 480 x 44 mm
		17.4 x 18.9 x 1.73 inch
	Packing (W x D x H)	588 x 758 x 120 mm
		23.1 x 29.8 x 4.7 inch
	Net Weight	11 kg / 24.2 lb
	Gross Weight	15 kg / 33 lb

Applicable Format	DVI-D / VGA Input	PC Signal	1920 x 1200 x 60Hz
			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
	HDMI Input	PC Signal	Same as VGA
		Video Signal	1080p　: 60Hz
			720p　　: 50 / 60Hz
			480p　　: 60Hz
			576p　　: 50Hz
		Audio Signal	2ch Linear PCM (32 / 44.1 / 48 KHz)

< 2.2 > 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
∧ ∨ ‹ ›	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

All LED touch buttons in **WHITE** light

① When the monitor is connected to power and first turn on, all LED touch buttons will light on in 6 - 8 seconds. The time is necessarily required for the monitor to load the software for its opeation. During this time period, no picture is displayed on the screen, the monitor will not respond to all touch buttons or remote control.

② When the monitor is turned off, locate the touch buttons in low ambient light conditions by pressing any touch buttons (except the **Power** ⏻) to light up all LED touch buttons for 2 seconds.

③ All the LED touch buttons will automatically turn off after 30 seconds of idle status (except the **Power** ⏻).

④ The LED of **Power** ⏻ touch button will flash continuously when there is no signal input.

① **Picture**

Picture mode : Standard / Vivid / Soft / User mode to choose

Brightness : Adjust background black level of the screen image

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

Picture
Picture mode
Brightness
Contrast
Hue
Saturation
Picture size
Color temp
Noise reduce
Sharpness

② PC

Auto adjust :	Automatically adjust sizes, centers and fine 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 right
V. Position :	Align the screen image up or down

PC

Auto adjust
Clock
Phase
H positive
V positive
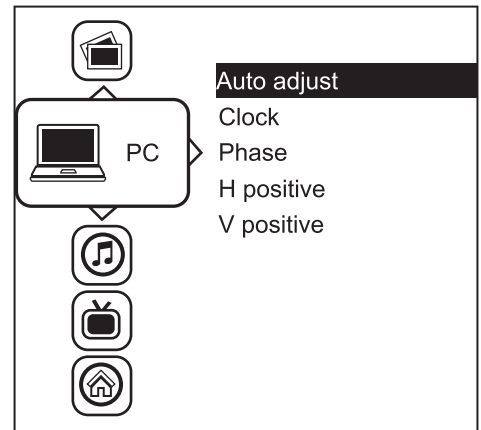
③ Audio

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

Audio

Audio mode
Volume
Audio track
Bass
Treble
Balance
Analog TV audio
Mute
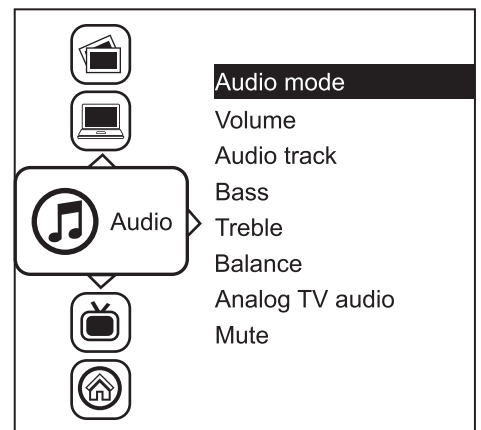
④ MISC

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

MISC

Language
Sleep timer
PIP mode
PIP position
PIP source
System reset
Information
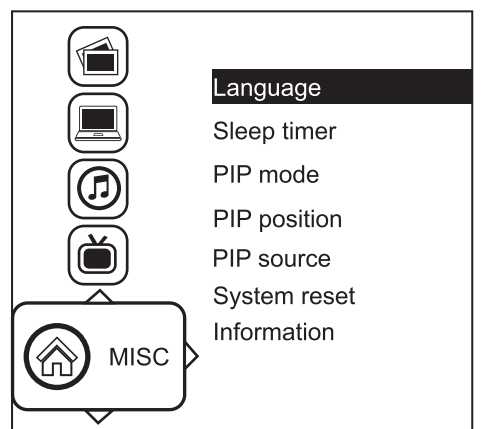
< Part 3 >

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

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

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

SDI

Audio   DVI-D   Power   HDMI

PC in   out   VGA   in   -   out

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	@60 / 50Hz, 4:2:2
		1080p	@30 / 25 / 24Hz, 4:4:4
		1080i	@60 / 50Hz, 4:4:4
		720p	@60 / 50Hz, 4:4:4
	HD-SDI	1080p	@30 / 25 / 24Hz, 4:2:2
		1080i	@60 / 50Hz, 4:2:2
		720p	@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
	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

< 3.2 > Options :

- HDMI
- Audio

HDMI : HDMI 1.1, CEA-861-D
Audio : 3.5mm audio jacks for audio in & out, and 2W + 2W speakers

< 3.3 > Options : Touchscreen & driver

X17" USB Touchscreen Specification

Model	TRB e-Resistive	TCB e-Capacitive
Technology	5-Wire Resistive	Capacitive
Touch Point	Single	Single
Method	Stylus or Finger	Finger
Activation Force	≤ 50g / Stylus=R0.8	≤ 50g
Durability	10 million touches	300 million touches
Response Time	15 ms	20 ms
Optical Transmittance	80% ± 3%	92% ±2%
Surface Hardness	3H	9H
Haze	8% ± 3%	7%
Glass	2.2 ±0.2 mm	2.8 mm ±10%
Connector	USB Type A	
Compatibility	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
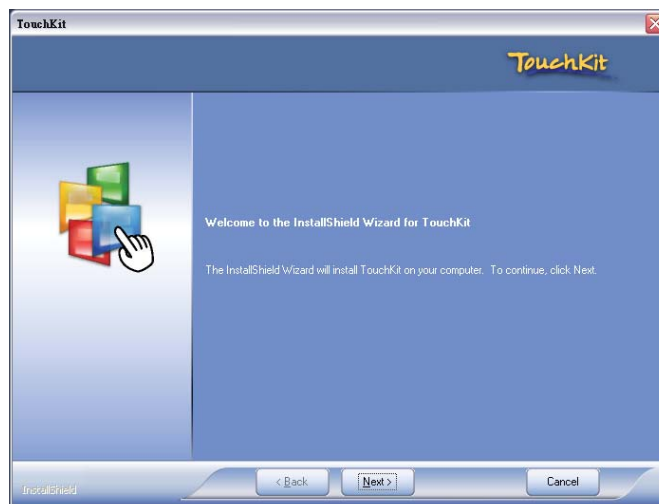
USB Touchscreen

DVI-D   Power

TRB & TCB Driver

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

Step 1. Run the bundled CD disc

Step 2. Double click the Setup.exe

Step 3. Follow the installation instruction to finish the setup

Step 4. After installation, run the TouchKit program & the "4 point calibration"

Please do the initial calibration
after the first setup

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

DVI-D

VGA

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