

# RALOY

## User Manual



## RNX119

**1U LCD Console Drawer**

**Options :**

- » AV / DVI-D / HDMI / Audio
- » Full Range of Integrated KVMs
- » DC power



**REACH**

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# Safety Notice

## **Please read the following before using your Raloy unit:**

- 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 people 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 the unit 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 the unit from potentially 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.

# 1 Product Overview

## 1-1 Package Content



### 1 x RNX119 Rackmount Console

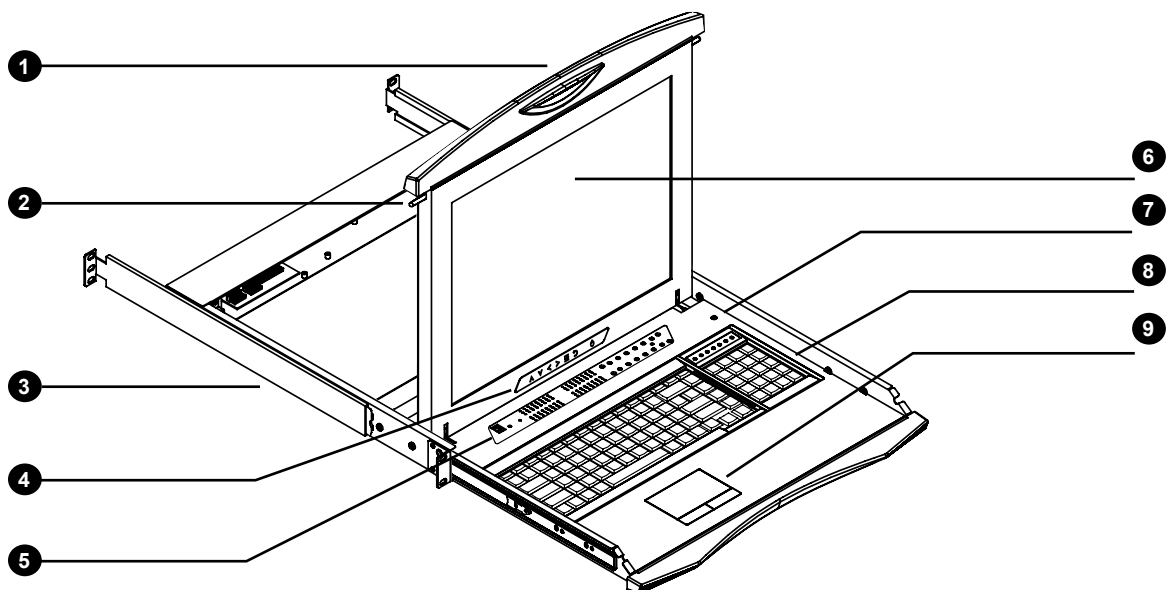
1 x CE-6 6ft Combo KVM cable

1 x Power cord

8 x M6 screw, cage nut & cup washer

*The above package content is only for the single console models. Options such as KVM, HDMI, DVI-D, AV, audio & DC power may cause package contents to change.*

## 1-2 Structure Diagram



① Carry handle to release the 2-pt lock

② 2-point lock

③ Installation Slides

④ LCD membrane

⑤ Membrane switch (KVM option)

⑥ LCD interchangeable module kit

⑦ Micro switch for screen auto power off

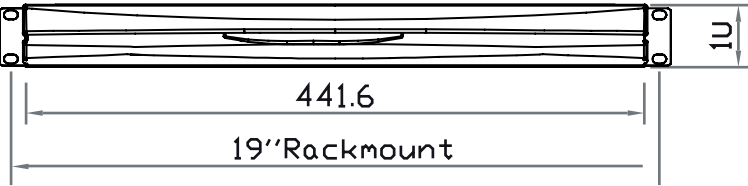
⑧ Keyboard interchangeable module kit

⑨ Mouse interchangeable module kit

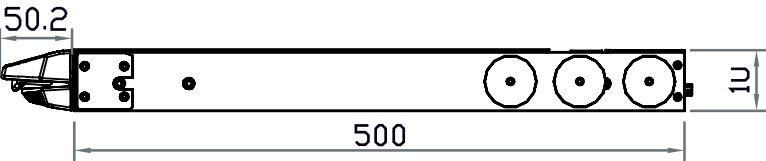
# 1-3 Dimensions & Weight

UNIT : mm  
1mm = 0.03937 inch

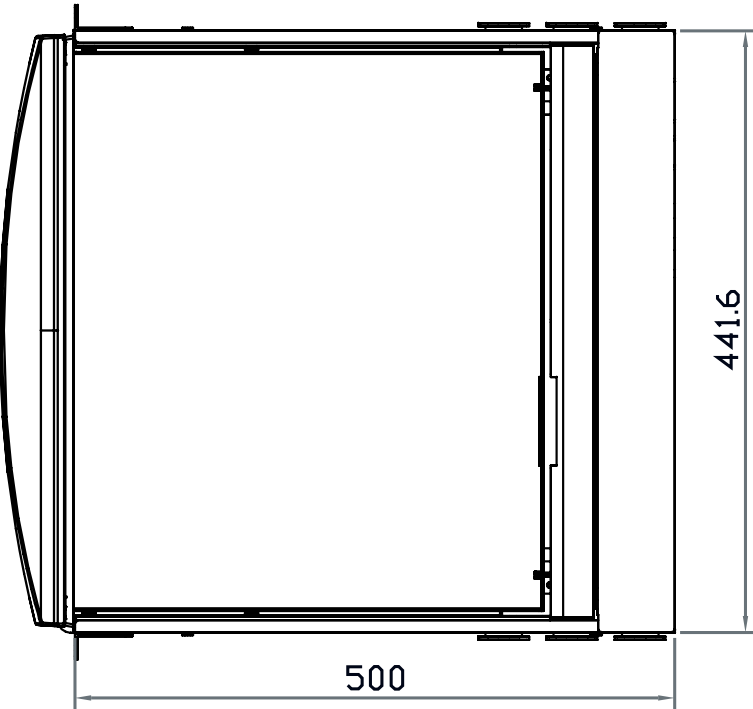
Front View




Side View



Top View



Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RNX119 Series	441.6 x 500 x 44 mm 17.4 x 19.7 x 1.73"	590 x 768 x 140 mm 23.2 x 30.2 x 5.5"	12.5 kg 27.5 lb	17 kg 37.4 lb

 The weight listed is only for the single console drawer. Weight will vary depending on additional accessories & options such as Integrated KVM, HDMI, DVI-D, AV, audio & DC power.

# 2 Installation

## 2-1 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.

## 2-2 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.

## 2-3 How To Clean Your LCD Monitor



### **Caution. Read this before cleaning:**

- 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**

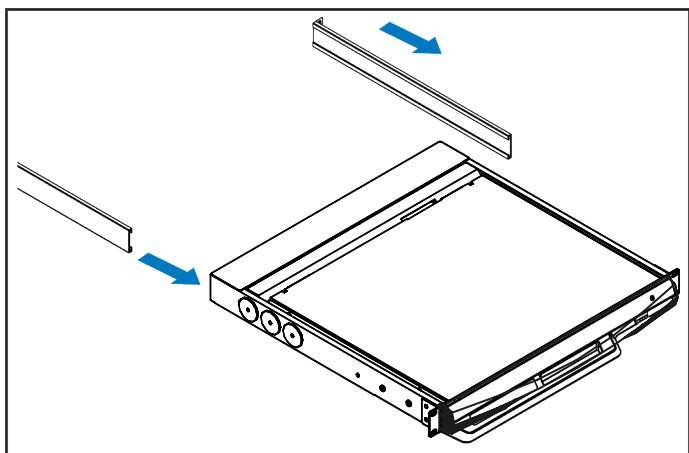
To remove tough marks and smudges, please follow these steps :

1. Disconnect the power cord.
2. Spray a small amount of non-abrasive cleanser on a microfiber cloth.
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.



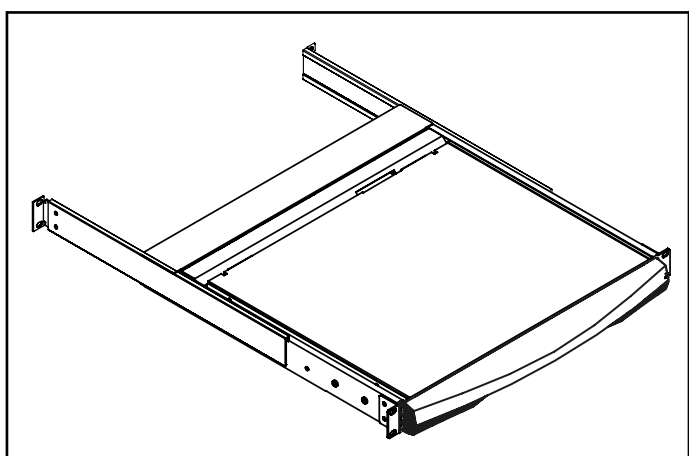
**Caution :** Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.

## 2-4 How To Install



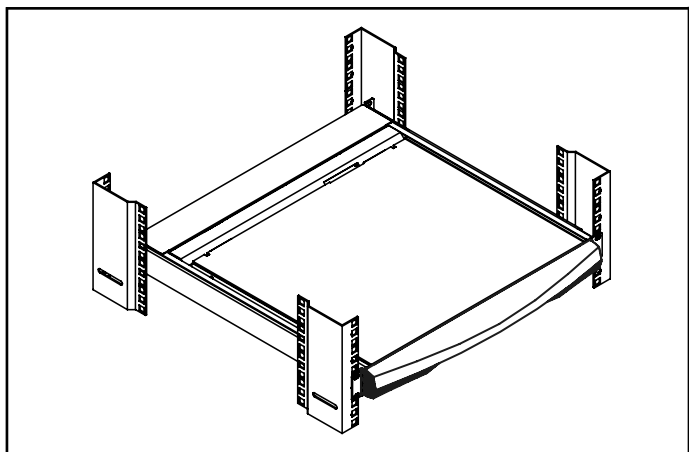
### Step 1

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



### Step 2

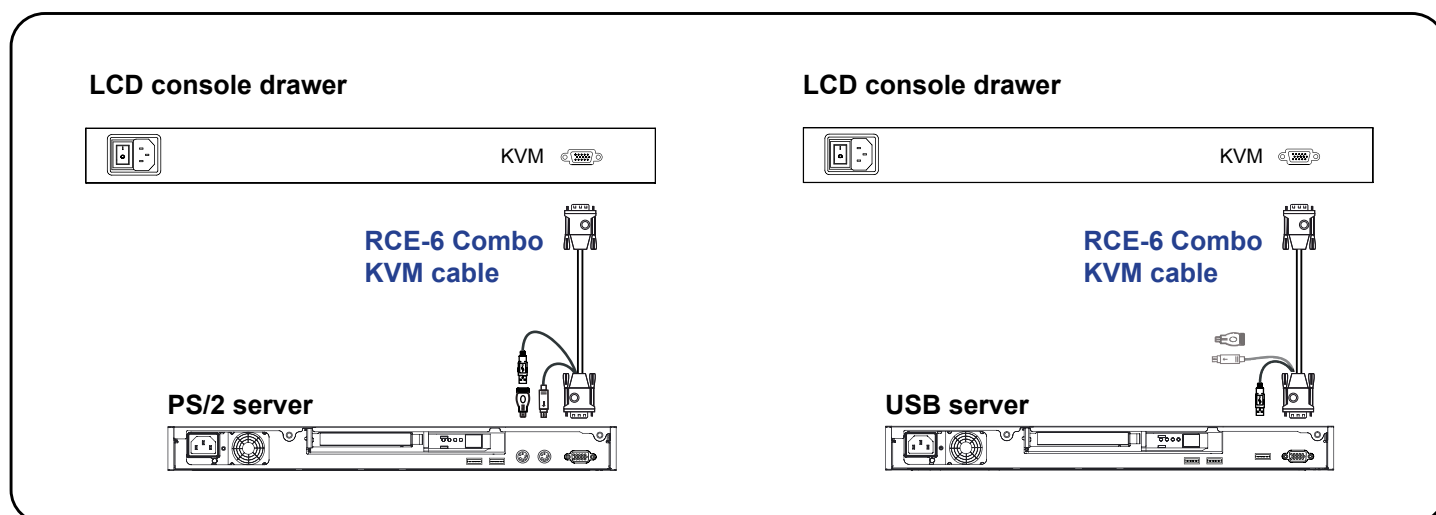
- Measure the depth of the front and rear mounting rails.
- Align each rear mounting bracket to a suitable length.



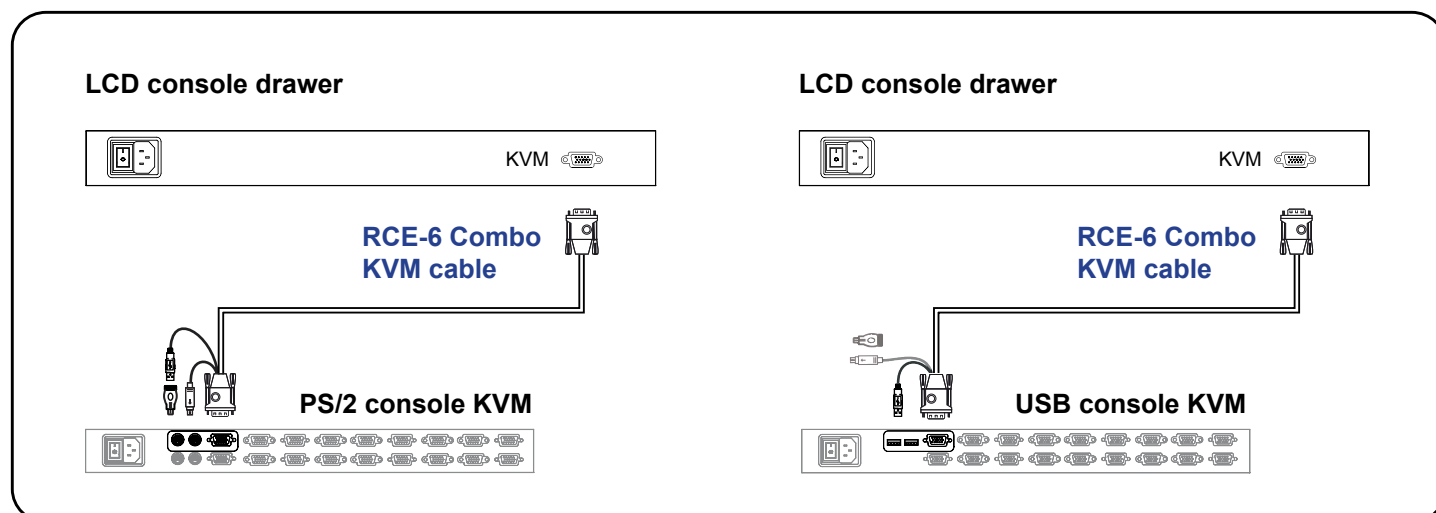
### Step 3

- Fix the LCD console drawer into the rack using the included M6 screws, cage nuts & cup washers

## 2-5 Connecting to a PS/2 or USB Server



## 2-6 Connecting to an External KVM Switch



**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.



# 3 Basic Operation

## 3-1 Opening the Drawer



### Step 1

- Pull the tab on the front handle and gently slide out the drawer.



### Step 2

- Flip up the LCD to a suitable angle.



### Step 3

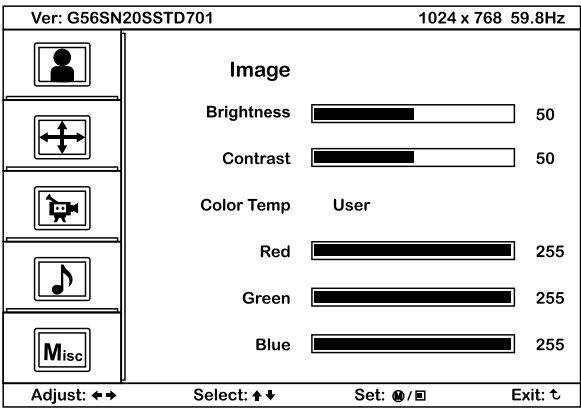
- Operate the LCD console drawer.

### 3-2 On-screen Display Operation (OSD)



Membrane Switch	Function
	Turn the monitor on or off
	Display the OSD menu. Press Enter key to select screen
	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

- Note:** All LED touch buttons in WHITE light.  
The LED of Power touch button will flash continuously when there is no signal input.
1. All LED touch buttons turn off after 10 minutes of idle status (except the Power .
  2. Light up all membrane buttons, please press any button for 1-2 seconds (except the Power .



#### OSD Configuration Page

	<b>Image:</b> for the brightness, contrast, color temp, red, green, and blue
	<b>Geometry:</b> for the auto adjust, H position, V position, phase and clock
	<b>Video:</b> for the colour, tint, sharpness, noise reduction, DCDi and TV Setup
	<b>Audio:</b> for volume, bass, treble, balance, AVL and mute
	<b>Misc:</b> for the language, OSD position, graphic mode, ratio, reset and timer

# 4 Product Specifications

## 4-1 Specifications Table

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

Video Connectivity	Digital	HDMI 1.1, CEA-861-D
		DVI-D, TMDS single link
	Analog	Analog 0.7Vp-p
		NTSC & PAL
		NTSC & PAL
	Plug & Play	VESA EDID structure 1.3
	Synchronization	Separate, Composite & SOG

Audio Connectivity	Audio Input	3.5mm stereo jack
		30kΩ / 750mV
	Audio Output	3.5mm stereo jack
		30kΩ / 2.8V
	Speaker Output	2 x 2W

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

Power	Power Supply	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	25W or less
		4W or less
		1W or less

Regulatory	Safety	cUL, FCC & CE certified
	Environmental	RoHS2 & REACH compliant

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

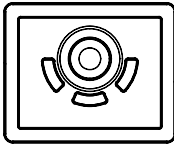
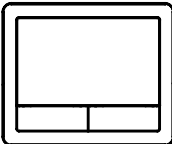
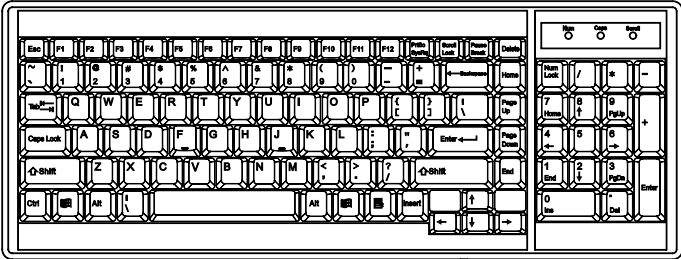
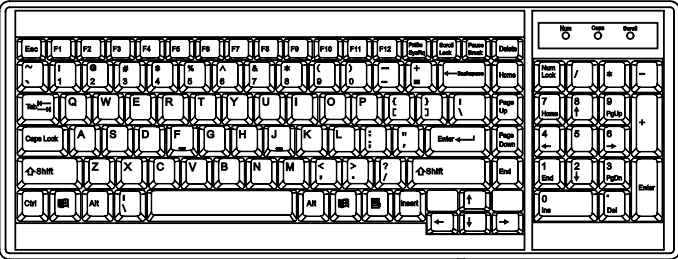
<b>Physical Specification</b>	<b>Product ( W x D x H )</b>	441.6 x 500 x 44 mm 17.4 x 19.7 x 1.73 inch
	<b>Packing ( W x D x H )</b>	590 x 768 x 140 mm 23.2 x 30.2 x 5.5 inch
	<b>Net Weight</b>	12.5 kgs / 27.5 lbs
	<b>Gross Weight</b>	17 kgs / 37.4 lbs

<b>Applicable Format</b>	<b>VGA Input</b>	<b>PC Signal</b>	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

# 4-2 Keyboard / Mouse Specifications

**Ge** G keyboard integrated with touchpad

**Gb** G keyboard integrated with trackball



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

EMEA



United Kingdom



Germany



France



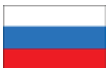
Spain



Norway



Italy



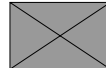
Russia



Switzerland



Netherlands



Portugal

Asia



China



Japan



Korea



Arabia




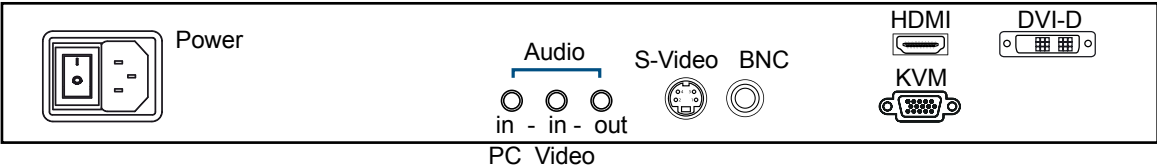
Turkey

# 5 Product Options

## 5-1 Port Options

- **HDMI** (HDMI 1.1, CEA-861-D)
- **DVI-D** (DVI-D TMDS single link)
- **AV** (S-Video + Composite, BNC)
- **Audio** (3.5mm audio jacks for audio in & out, and 2W + 2WW Speakers)

- 
- Either HDMI or DVI-D can be selected.
  - For the above options, casing depth will be extended from 500mm ( 19.7" ) to 570mm ( 22.4" )



## 5-2 DC Power Options

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









### DC Power



### For DC power option :

- Option excludes 1 x power cord and 1 x AC power adapter.
- Casing depth will be extended from 500mm ( 19.7" ) to 570mm ( 22.4" )

# 6 Integrated KVM Options

<b>IP Enabled KVM Switches</b> <ul style="list-style-type: none"><li>■ CATx Style </li><li>■ Basic Cabled Style </li></ul>	<b>Data Sheet</b>
	<a href="http://www.Raloy.com/support/downloads.html">www.Raloy.com/support/downloads.html</a>
	<b>Product Manual</b>
	<a href="http://www.Raloy.com/support/downloads.html">www.Raloy.com/support/downloads.html</a>
<b>High Density CATx KVMs</b> <ul style="list-style-type: none"><li>■ Multi-User Matrix </li><li>■ Single User </li></ul>	<b>Data Sheet</b>
	<a href="http://www.Raloy.com/support/downloads.html">www.Raloy.com/support/downloads.html</a>
	<b>Product Manual</b>
	<a href="http://www.Raloy.com/support/downloads.html">www.Raloy.com/support/downloads.html</a>
<b>Basic Cabled Style KVMs</b> <ul style="list-style-type: none"><li>■ Multi-User Matrix </li><li>■ Single User </li></ul>	<b>Data Sheet</b>
	<a href="http://www.Raloy.com/support/downloads.html">www.Raloy.com/support/downloads.html</a>
	<b>Product Manual</b>
	<a href="http://www.Raloy.com/support/downloads.html">www.Raloy.com/support/downloads.html</a>
<b>Specialty KVMs</b> <ul style="list-style-type: none"><li>■ DVI-D + Audio </li><li>■ With USB Hub </li></ul>	<b>Data Sheet</b>
	<a href="http://www.Raloy.com/support/downloads.html">www.Raloy.com/support/downloads.html</a>
	<b>Product Manual</b>
	<a href="http://www.Raloy.com/support/downloads.html">www.Raloy.com/support/downloads.html</a>

# 7 Important Information

## Warranty Information

### I. Raloy Limited Warranty

Raloy Customer Support warrants to the original retail purchaser that this product is and will be free from defects in materials and workmanship for a period of twenty-four (24) months from date of purchase. During the warranty period, the purchaser must promptly contact Raloy Tech Support for assistance to report a unit failure.

### II. Warranty Period

1. The standard warranty period is 24 months commencing from the date of your Raloy invoice.
2. For Touch Screen and High Brightness LCD custom units, the standard warranty period is 15 months commencing from the date of your Raloy invoice.
3. Warranty will be void if any of these cases apply: physical damages by accident, natural disaster, neglect, misuse or improper use of the equipment.

### III. Product Return Procedure

Please see the Raloy website at [www.raloy.com/support/raloy-product-warranty.html](http://www.raloy.com/support/raloy-product-warranty.html) for detailed product return information.

### IV. Raloy Extended Warranty

Raloy also provides the option to extend your warranty service up to 60 Months, please contact our sales at [sales@raloy.com](mailto:sales@raloy.com) for more warranty service and upgrade details.

### Disclaimer of Warranty

EXCEPT AS SPECIFICALLY PROVIDED ABOVE AND TO THE MAXIMUM EXTENT ALLOWED BY LAW, RALOY DISCLAIMS ALL WARRANTIES AND CONDITIONS WHETHER EXPRESSED, IMPLIED, OR STATUTORY AS TO ANY MATTER WHATSOEVER INCLUDING, WITHOUT LIMITATION, TITLE, NON-INFRINGEMENT, CONDITION, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR OR INTENDED PURPOSE. EXCEPT AS EXPRESSLY PROVIDED ABOVE AND TO THE MAXIMUM EXTENT ALLOWED BY LAW, RALOY SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION, LOSS OF PROFIT, LOSS OF BUSINESS, LOSS OF INFORMATION, FINANCIAL LOSS, PERSONAL INJURY, LOSS OF PRIVACY OR NEGLIGENCE) WHICH MAY BE CAUSED BY OR RELATED TO, DIRECTLY OR INDIRECTLY, THE USE OF A PRODUCT OR SERVICE, THE INABILITY TO USE A PRODUCT OR SERVICE, INADEQUACY OF A PRODUCT OR SERVICE FOR ANY PURPOSE OR USE THEREOF OR BY ANY DEFECT OR DEFICIENCY THEREIN EVEN IF RALOY OR AN AUTHORIZED RALOY RESELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES.

Visit [www.Raloy.com](http://www.Raloy.com) for full warranty information.



## 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.

## Legal Information

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.

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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