Quick Start Guide
RM-KB-LCD17HD
Rackmount LCD Keyboard

A Front View

C Rack Mounting

Phillips head M4x6mm

Phillips head M4x6mm

D Installation

DVI-D, VGA, or HDMI

RM-KB-LCD17HD Rear View

DVI-D

KVM SWITCH OR COMPUTER NOT SUPPLIED

E Operation

B Rear View

I-00721   Rev -
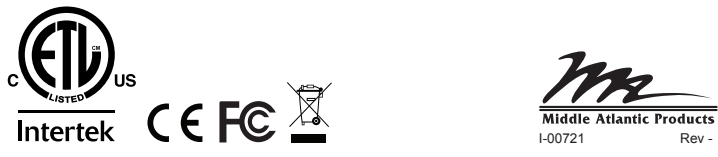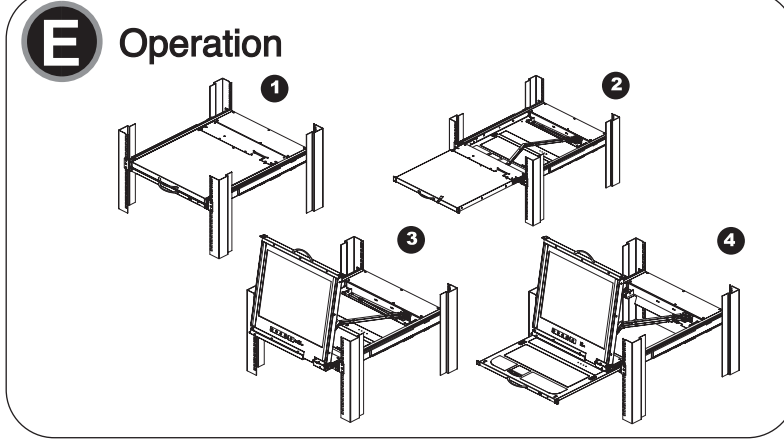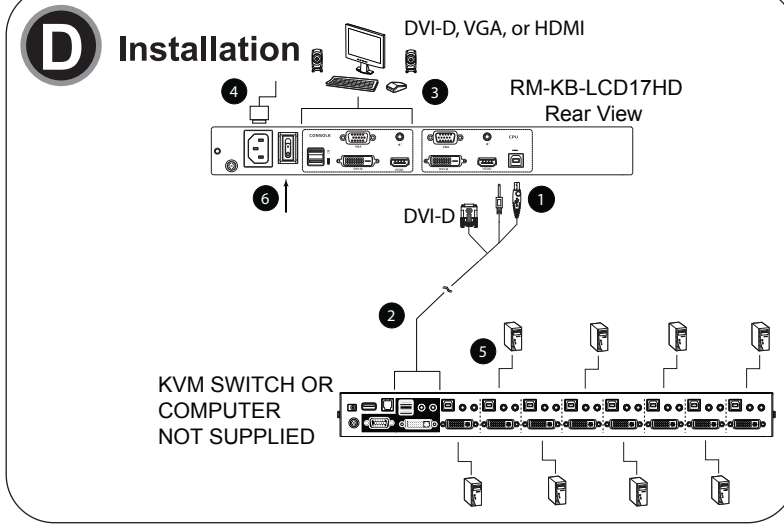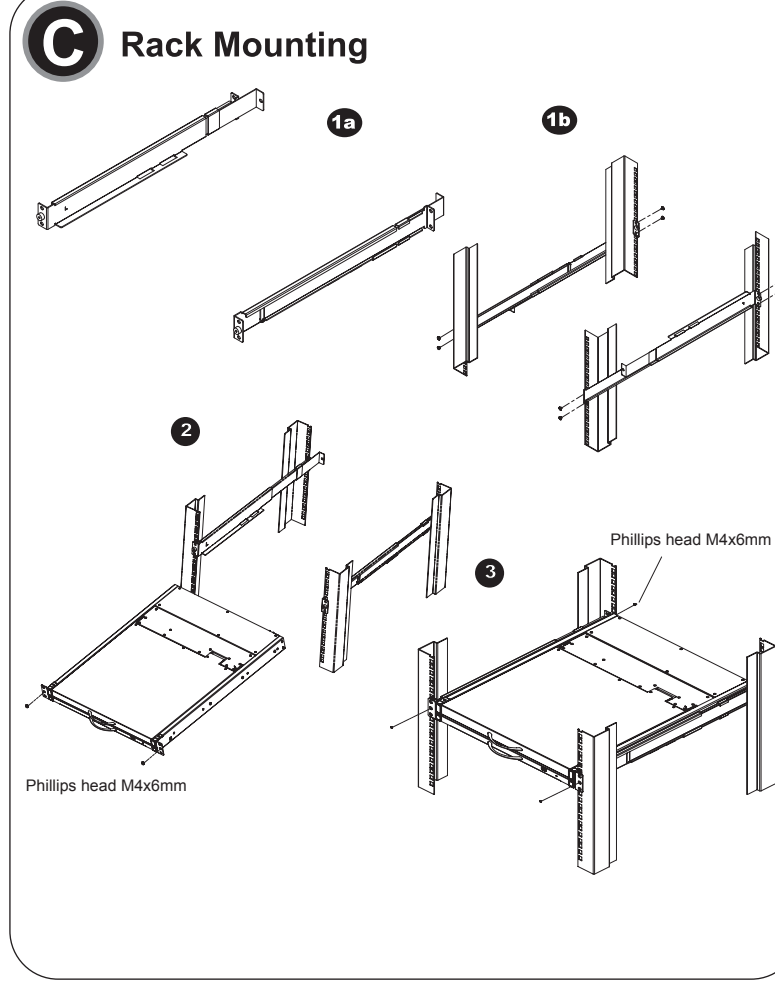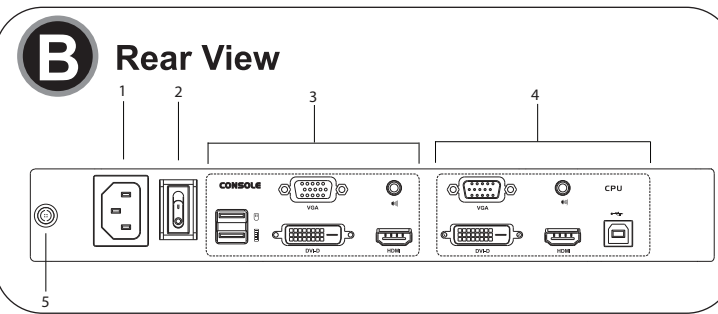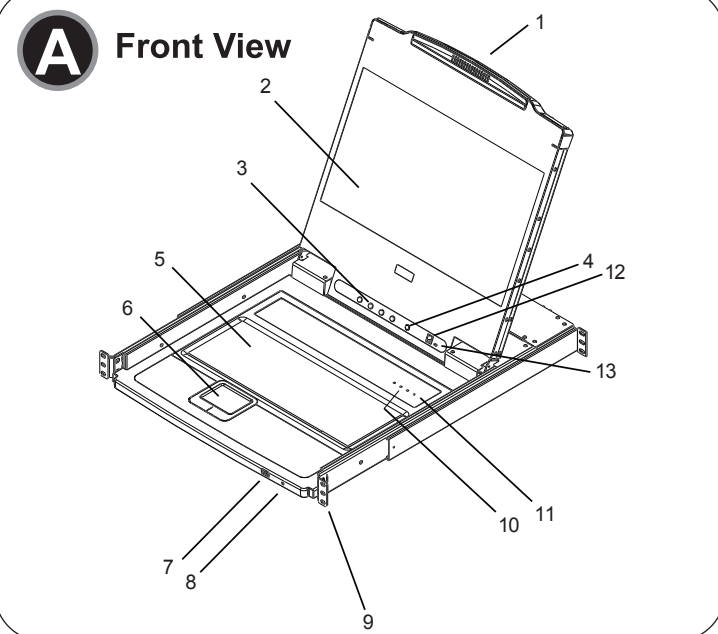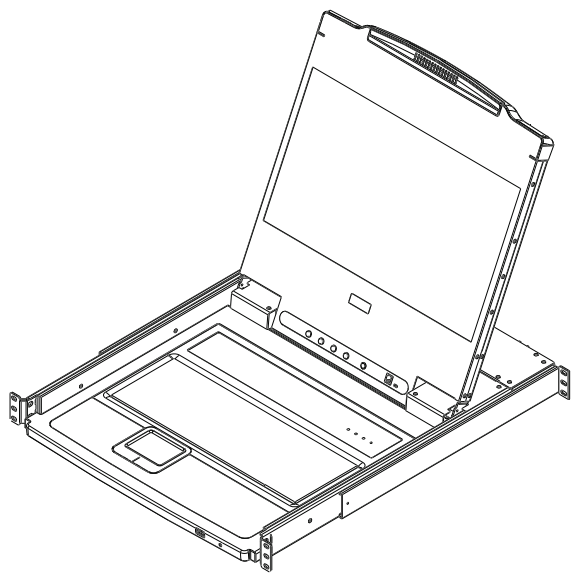

Package Contents

1   RM-KB-LCD17HD Rackmount LCD Keyboard with Standard Rack Mount Kit
1   Custom USB DVI KVM Cable Set
1   Power Cord
1   Firmware Upgrade Cable
1   User Instructions*

Requirements

LCD Console

- The integrated LCD monitor's maximum resolution is 1920 x 1080 @60Hz. Make sure that none of the resolution settings of the connected computers exceed the LCD monitor's maximum resolution.

External Console

- A VGA, SVGA, MultiSync, DVI, or HDMI monitor capable of displaying the highest resolution provided by any computer in the installation.

- USB keyboard and mouse

Hardware Review
Front View A

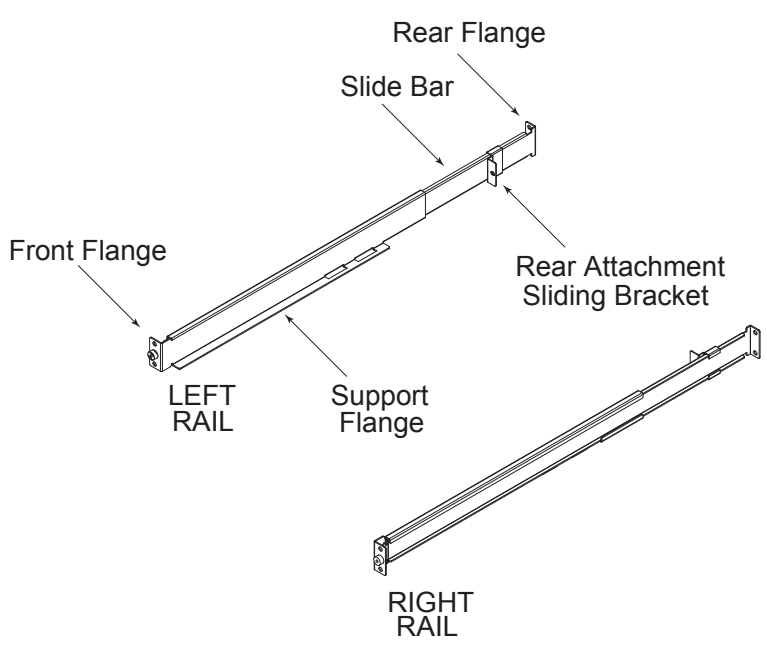| No.	Component	Description
1	Upper Handle	Pull to slide the LCD module out; push to slide it in. See *Operating Precautions*, page 13, for details on sliding the console in and out
2	LCD Module	After sliding the LCD module out, flip up the cover to access the LCD display.
3	LCD Controls	The buttons to control the position and picture settings of the LCD display are located here. See page 14, for details.
4	LCD On / Off Button	Push this button to turn the LCD monitor on and off. The button lights when the LCD monitor is off. **Note:** The light indicates that only the monitor is off, not the attached KVM switch.
5	Keyboard Module	Standard 105-key keyboard
6	Touchpad	Standard mouse touchpad
7	USB Port	The USB port is available to connect a USB peripheral device (flash drive, CD-ROM drive, etc.) to the console, or a USB mouse for users who prefer to use an external mouse.
8	Power LED	Lights (green) to indicate that the unit is receiving power.
9	Rack Mounting Tabs	Rack mounting tabs are located at each corner of the unit.
10	Lock LEDs	The Num Lock, Caps Lock, Scroll Lock LEDs are located here.
11	Reset Switch	Located to the right of the Lock LEDs. Press this recessed switch in with a thin object to perform a system reset.
12	Firmware Upgrade Port	The firmware upgrade cable that transfers the firmware upgrade data from the administrator's computer plugs into this RJ-11 connector.
13	Firmware Upgrade Switch	During normal operation and while performing a firmware upgrade, this switch should be in the NORMAL position. If a firmware upgrade operation does not complete successfully, this switch is used to perform a firmware upgrade recovery.

Rear View B

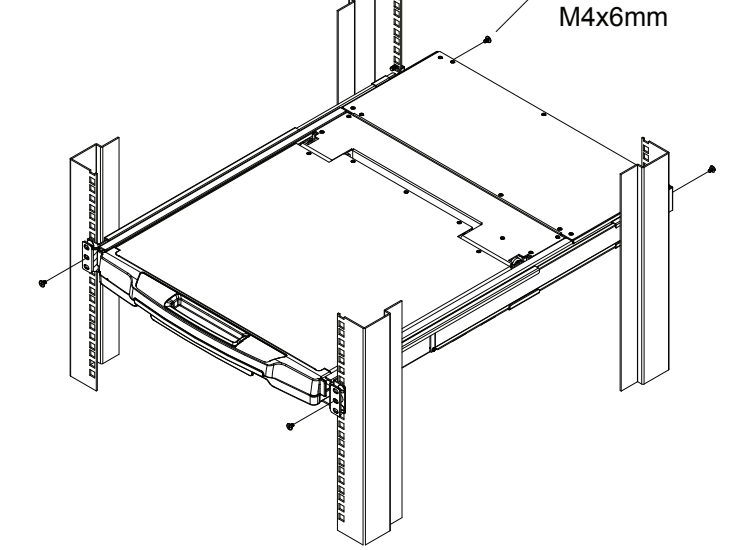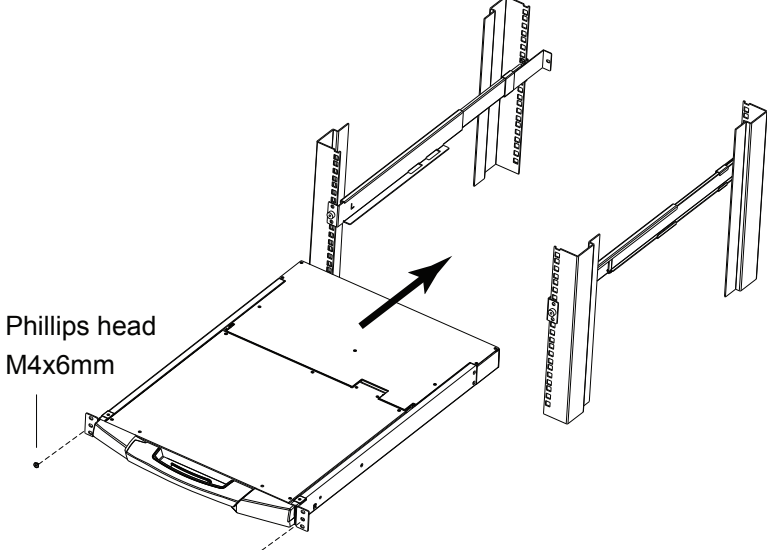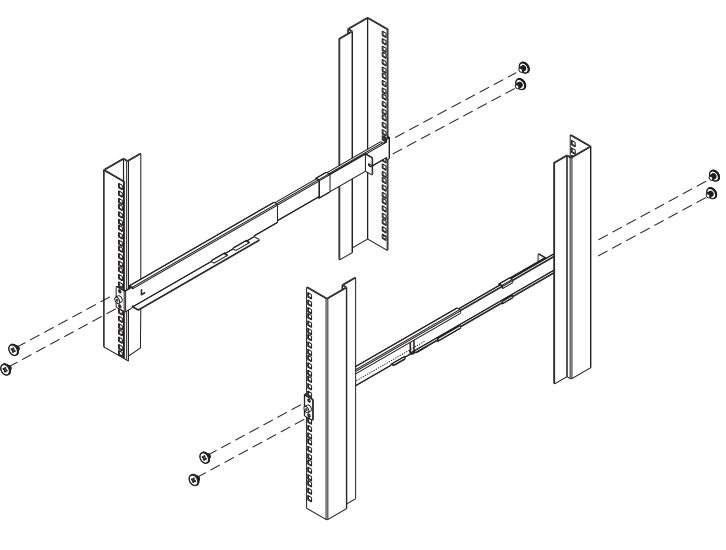| No.	Component	Description
1	Power Socket	This is a standard 3 prong AC power socket. The power cord from an AC source plugs in here.
2	Power Switch	This is a standard rocker switch that powers the RM-KB-LCD17HD on and off.
3	External Console Section	For flexibility and convenience, the RM-KB-LCD17HD supports an independent, external, KVM console. The external console's USB keyboard and mouse, DVI, VGA, or HDMI monitor, and audio cables plug in here.
4	KVM Port Section	The custom KVM cable supplied with the package for linking the RM-KB-LCD17HD to a computer or switch plugs in here. An additional HDMI and VGA port are provided.
5	Grounding Terminal	The grounding wire (used to ground the unit) attaches here.

Hardware Installation
Rack Mounting C

1. Loosen ground screw prior to mounting. When unit is fully installed, tighten ground screw.

2. Attach the left and right mounting rails to the inside of the rack. The flange that supports the unit will be to the inside.

Rear Flange

Slide Bar

Front Flange

Rear Attachment Sliding Bracket

LEFT RAIL

Support Flange

RIGHT RAIL

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a) Screw the front flanges to the rack first.

b) Slide the bars with the rear flanges toward the rack until the flanges make contact with the rack, then screw the rear flanges to the rack.

3. Slide the RM-KB-LCD17HD onto the support flanges. Use the screws supplied with this package to loosely attach the front of the RM-KB-LCD17HD to the front of the rack (only tighten the screws part way).

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4. Slide the rear attachment sliding brackets along the slide bars until they contact the rear of the RM-KB-LCD17HD, then use the screws supplied with this package to attach the bars to the rear of the RM-KB-LCD17HD (tighten the screws all the way).

5. Slide the RM-KB-LCD17HD open and closed a couple of times to be sure that it is properly aligned and operating smoothly.

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6. After determining that the RM-KB-LCD17HD is lined up and operating correctly, finish by fully tightening the front attachment screws inserted in Step 3.

Installation D

Refer to the example installation diagram as you perform the following steps:

1. Plug the USB; then DVI, VGA, or HDMI, and audio connectors of a KVM cable (either supplied with the unit, or purchased separately, see *Operating Systems*, page 3) into the CPU port on the rear of the RM-KB-LCD17HD.

    Note: The RM-KB-LCD17HD supports speakers only. It does not support a microphone. Connect the KVM cable's speaker jack (green) to the RM-KB-LCD17HD's audio port.

2. Plug the keyboard, monitor, mouse and audio connectors of the KVM cable into their respective ports in the Console Section of a KVM switch or computer.

3. If you are installing an external console, plug your keyboard, monitor, mouse and speakers into their respective ports in the Console Section of the RM-KB-LCD17HD.

    Note: The RM-KB-LCD17HD supports a DVI, VGA or HDMI external console monitor, but only one video signal (DVI-D, VGA, or HDMI) can be displayed at a time. The DVI monitor will display a DVI-D signal only.

4. Plug the RM-KB-LCD17HD's power cord into the RM-KB-LCD17HD's power socket and into a power source.

5. Power up your KVM installation.

6. Turn on the power to LCD Console.

Note: Input source must match output source.

Hot Plugging

The RM-KB-LCD17HD supports *hot plugging* – components can be removed and added to the console by unplugging their cables from the ports without the need to shut down the RM-KB-LCD17HD.

Powering Off and Restarting

If it becomes necessary to Power Off the RM-KB-LCD17HD (to upgrade the firmware, for example), simply turn off the power to the unit using the rear panel power switch. To restart the RM-KB-LCD17HD, turn the rear panel power switch back on.

Port ID Numbering & Port Selection

Port ID numbering and Port Selection follow the method used by the KVM switch connected to the RM-KB-LCD17HD. Consult your KVM switch's User Manual for details.

Hotkeys

Console selection is accomplished with the following hotkey combinations:

Combination	Action	Beeps	LEDs
[Ctrl] [Alt] [Shift] [P] [C] [Enter]	To select normal mode (pc, etc.).	2	None
[Ctrl] [Alt] [Shift] [M] [A] [C] [Enter]	To select Mac	2	None
[Ctrl] [Alt] [Shift] [S] [U] [N] [Enter]	To select SUN	2	None
[Ctrl] [Alt] [Shift] [u] [p] [g] [r] [a] [d] [e] [Enter]	Activates the Firmware Upgrade Mode. **Note:** this Hotkey sequence only works when the Firmware Upgrade Recovery Switch is in the **Normal** position.	None	3 Flashing when upgrade is in process
[Ctrl] [Alt] [Shift] [L] [Enter]	Enable Local (LCD) console; Disable 2nd console or external console video.	2	None
[Ctrl] [Alt] [Shift] [R] [Enter]	Enable 2nd console, or external console video; Disable Local (LCD) console to enable second console audio.	2	None
[Ctrl] [Alt] [Shift] [L] [R] [Enter] or [Ctrl] [Alt] [Shift] [R] [L] [Enter]	Enable both consoles (default). No HDMI Audio on second console.	2	None

Note: 1. Press the keys in sequence – one key at a time. First **[Ctrl]**, then **[Alt]**, then **[Shift]**, etc.

2. Console selections are not saved. If the RM-KB-LCD17HD is powered off, it reverts to the default setting of both consoles enabled when it is powered on again.

3. Either side of the keyboard can be used to invoke **[Shift] [Ctrl] [Alt]** hotkeys.

4. If the KVM switch connected to the RM-KB-LCD17HD uses the **[Ctrl] [Alt] [Shift]** combination to invoke its hotkey mode, you won't be able to access any of its hotkey operations because the RM-KB-LCD17HD will capture the combination for console selection first.