

Operating manual · English

**FCL Components SERVIS KVM Solution
Drawer Basic FD-1700AT Operating manual**

2024.02

FCC WARNING:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

High Safety Required Use

This Product is designed, developed and manufactured as contemplated for general use, including without limitation, general office use, personal use, household use, and ordinary industrial use, but is not designed, developed and manufactured as contemplated for use accompanying fatal risks or dangers that, unless extremely high safety is secured, could lead directly to death, personal injury, severe physical damage or other loss (hereinafter "High Safety Required Use"), including without limitation, reaction core control in nuclear power facilities, aircraft autopilot flight control, air traffic control, operation control in mass transport control systems, medical instruments for life support systems, missile launching control in weapon systems. You shall not use this Product without securing the sufficient safety required for the High Safety Required Use. If you wish to use this Product for High Safety Required Use, please consult with our sales person representatives in charge before such use.

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Preface

Congratulations on your purchase of the rack mountable Basic Drawer for a server (hereinafter referred to as "this product" or "this device").

Using this product will greatly improve the efficiency and functionality of the workspace around your racks. Space that was used in previous layouts can now be used for other components due to our compact sliding module design.

The 17-inch TFT monitor displays a resolution of 1280 by 1024 dots with 16,770,000 colors.

Also, it is equipped with a keyboard with a numeric keypad and 3-button pointing device.

Conventions

Symbols and terminology that are used in this manual are described below.



This symbol indicates the possibility of physical damage (such as damage to the drawer) or physical injury, which may result if by ignoring this symbol the drawer is operated incorrectly,



This symbol indicates supplemental information, comments or hints.

● Text that is preceded by a number (such as 1.) indicates that the operation must be done in the order indicated.

● Reference to important chapter titles and terminology are in brackets [].

Packing List

Make sure that the items in the following list are included in the shipping package.

- Main unit x 1
- Power cable holder x 1
- I/F Cable holder x 1
- PS/2 (KB) cable (1.8m) x 1
- PS/2 (MS) cable (1.8m) x 1
- USB cable (1.8m) x 1
- Monitor cable (1.8m) x 1
- User's Manual (this manual) x 1
- USB mask sheet x 1

We recommend keeping the box and packing materials that were used for the package at the time of purchase. They may be required when moving it to another location. If any item is missing from the package, contact your supplier or local FCL representative/engineer.

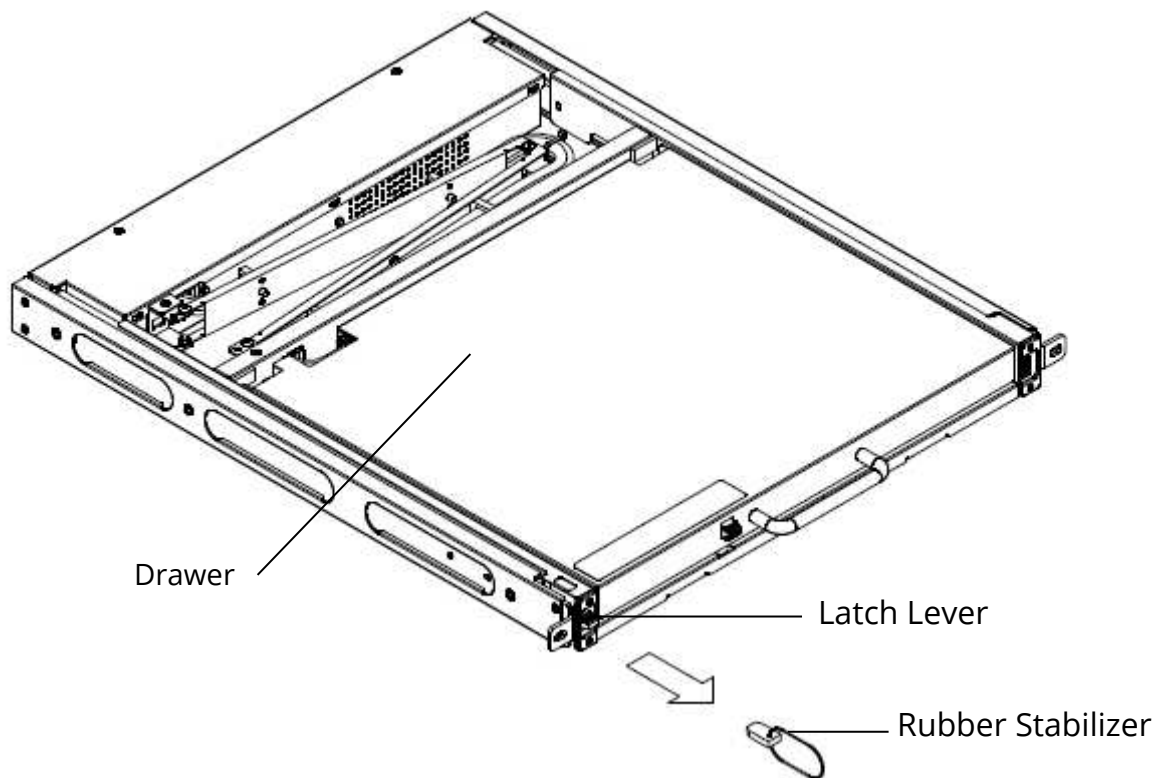
CAUTION

- Please note the safety information in [Important Notices].
- When taking this product out of the box, do not grip the monitor handle. Doing so may open the monitor causing the main part to fall.

1. Check the package that was delivered and whether the drawer has been damaged or not.
2. Remove the rubber stabilizer from the front left side of the drawer.

Point

The rubber stabilizer is inserted to prevent the drawer from sliding when installing the drawer in a rack or when moving the rack. Be sure to keep the rubber stabilizer after finishing the installation. It may need to be used again. Be sure to install the rubber stabilizer before installing the drawer in a rack or before moving the rack.



Removing the Rubber Stabilizer

Important Notices

This chapter contains cautions that must be taken when operating the drawer and information related to safety. Carefully read this chapter to use the drawer correctly.



Safety Safety Precautions

This device conforms to the safety regulations related to information processing equipment such as electronic office machines that are used in an office environment. If you have any questions, please contact your supplier or local FCL representative/engineer.

- To prevent extreme bumping or shaking when moving the device, use the original shipping container or a box similar to it. A squashed or broken box should not be used, as it may damage this device.
- During installation and before using this device, carefully read [Installation] and the section about environmental conditions in [Technical Specifications] in order to use this device correctly.
- Moving the device from a cold place to a warm place may cause condensation to occur. Before using this device, allow it to dry out completely and to reach the ambient temperature of the installation location.
- Make sure that the local power supply voltage is within the acceptable range of this device. Make sure that the local power supply voltage is within the acceptable range of the Console Drawer. (Refer to [Technical Specifications] and check the model plate on this device).
- The device's power cable is specially certified. The cable should be connected only to power outlets on the rack. Otherwise, an electric shock and/or short circuits may occur.
- Arrange the immediate area around the power socket of the device and the power outlet of the rack so that the plug can be quickly connected or removed.
- Lay all the cables so that they will not be damaged. Refer the relevant sections in [Installation] when connecting and removing cables.
- Do not connect or remove the data cables during thunderstorms.
- Be careful not to get any objects, such as necklaces or paperclips caught (or any liquids spilt) inside the device.
- In an emergency (such as when the chassis, a part or a cable is damaged, or when an object or liquid has gotten into the device), remove all the power cables as soon as possible and contact your supplier or local FCL representative/engineer.
- Only licensed engineers may repair the device. If an unlicensed user opens the device and makes incorrect repairs, it may cause an electric shock or fire.
- When the device is drawn out, be careful not to bump into it, as this may cause injury.
- It is recommended that you retract the device into the rack when not in use, or when handling other devices in the rack such as servers or peripherals.
- Using the keyboard when in poor health, or for extended periods of time should be avoided.
- Always hold the connector portion, and do not jerk the cables when removing them.
- Avoid operating this device with wet hands.
- Do not insert or remove connectors with wet hands.
- Do not place unnecessary items, such as a glass of water, on top of the device.
- Do not modify or repair the device.

- Only licensed personnel can dismantle, remove or replace parts, such as the power supply unit, which bear a warning mark (for example, a lightning bolt).
- Only the resolution and refresh rate specified in the monitor explanation in [Adjusting the Monitor] can be used. Contact your supplier or a FCL maintenance representative if you have any questions.
- To prevent interference, it is necessary to adequately insulate the data cables connected to peripheral equipment.
- To cut the power supply, unplug the power plug from the power outlet on the rack.
- Follow the instructions in the appropriate section in [Operation] when cleaning server.
- Keep this manual handy for reference with the device at all times. If you give the device to a third party, give them this manual also.
- Do not use the device as a stepladder or lean against it with it drawn out. Doing so may unbalance the rack, causing it to fall over.
- Some components of the device (such as LCD) have a limited service life. In cases of extended continuous use, these components will need early replacement.

- The estimated period for reliable use of the device (service life) is 5 years. Note) The above assumes a usage pattern of 8 hours a day, 200 hours a month, at an ambient temperature of 25°C. This service life (5 years) does not apply for some limited life components.

Disposal

A small amount of heavy metal (lead and chrome) is included in this product (PCB). Please cooperate in recycling when you dispose of this device. Please follow local, state, and federal laws when disposing of this product.

Moving This Device



When moving this device to a different location, use the box that was used for the package at the time of purchase, or another box to protect it from damage. Do not unpack the drawer until the move has been completed.

Installation



Please note the safety information in [Important Notices].

Installing the Guide Rail and the Drawer



Observe the specified environmental conditions when using this device (See [Technical Specifications] for more information). Avoid dust, humidity and extreme temperatures. Installation may require two or more people in some situations. Be careful not to pinch your fingers or hands between the guide rails and the drawer.

The explanations provided in this manual are based on model FP-G001 (NC14003-T591-R).

For details about installation of the other guide rails, refer to the installation guide provided with each guide rail.

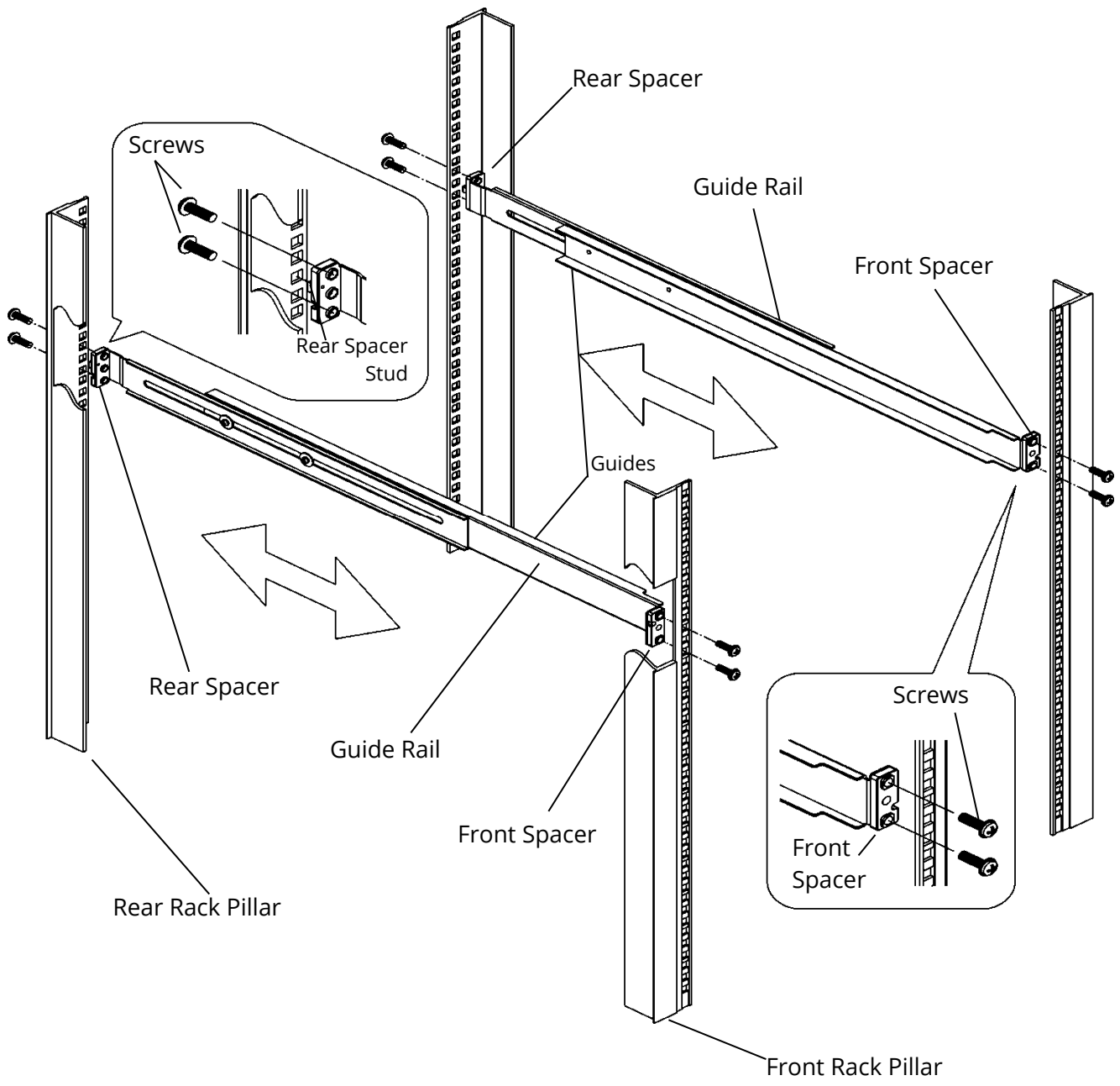
1. Insert the rear spacer studs of the guide rails into the holes in the rear rack pillars, and then extend the guide rail towards the inside of the front rack pillars. Use the installation screws to fix the pillars in the holes in the two locations at the top and bottom of the front spacer, and in the two locations at the top and bottom of the rear spacer.
(Install the left and right guide rails at the same height).

Point

Place the guide rails with the guide facing the front and on the inside, so that the drawer can be mounted on it.

Attach the guide rails on the inner part of the rack pillars.

See the "Installing the Guide Rails" diagram on page 10.



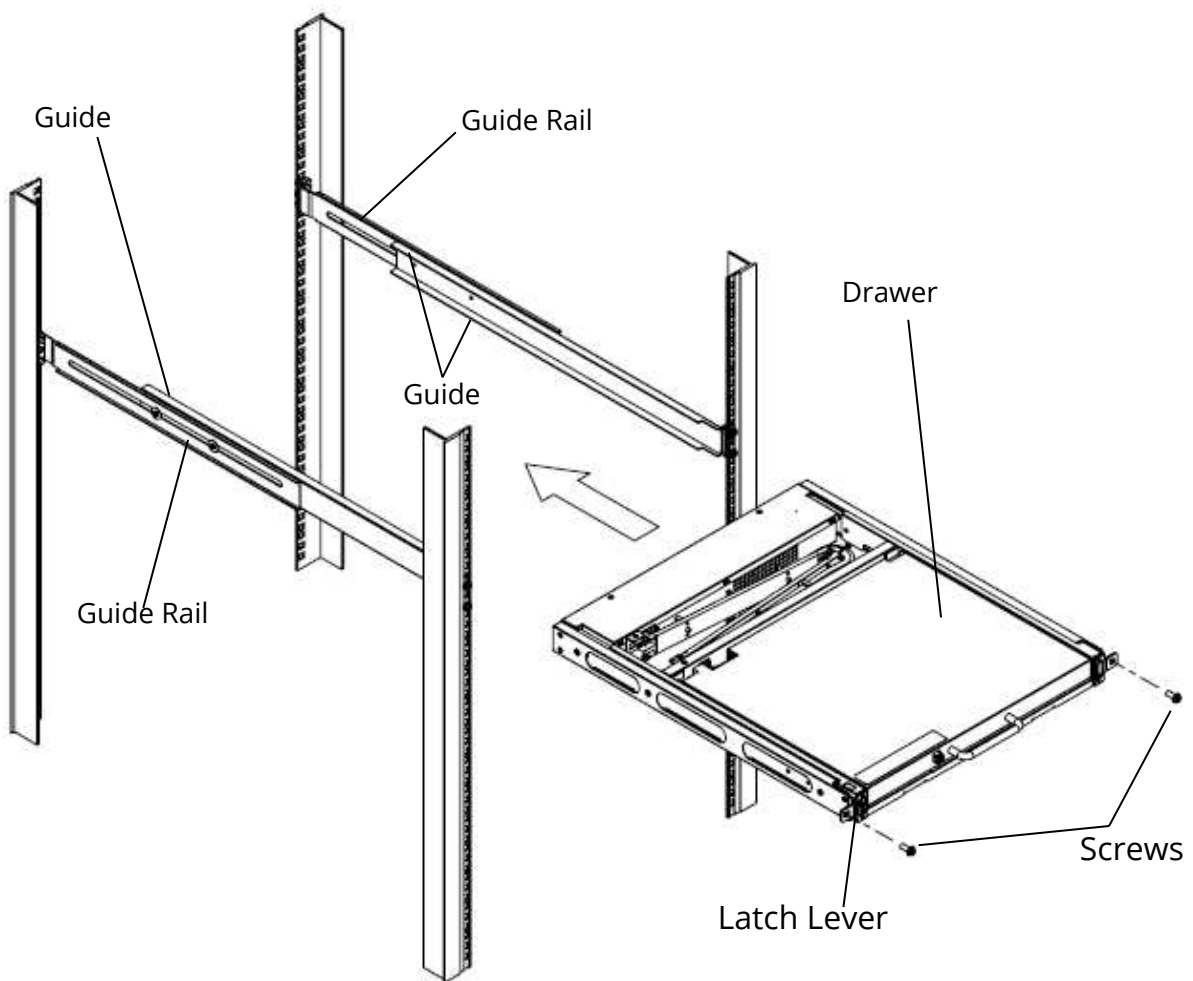
Installing the Guide Rails

2. Slide the drawer into the front end of the guide rails.

Point

Be careful that the latch lever does not come loose. If the latch lever comes loose the drawer may slip. If the device does not fit easily in the guide rails or is too heavy, two or more people should do the installation. When lifting the drawer, do not grip the monitor handle. Doing so may open the monitor causing the main part to fall.

3. Push the drawer in until it stops, then fasten with two screws, one on each side of the front of the drawer.

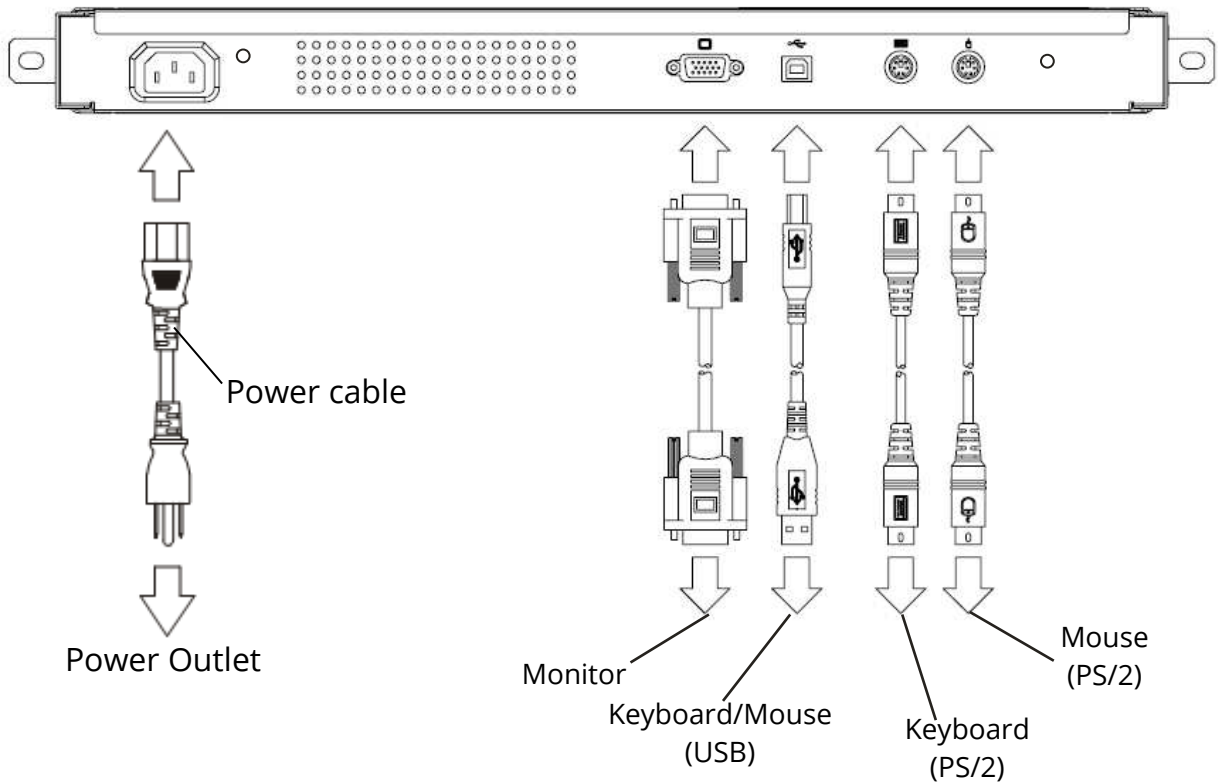


Installing the Drawer

Connecting and Removing Cables

Connecting Cables

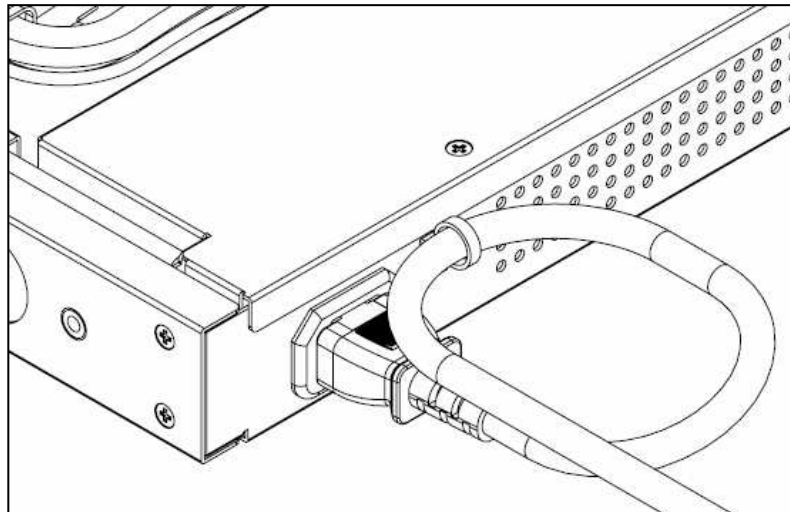
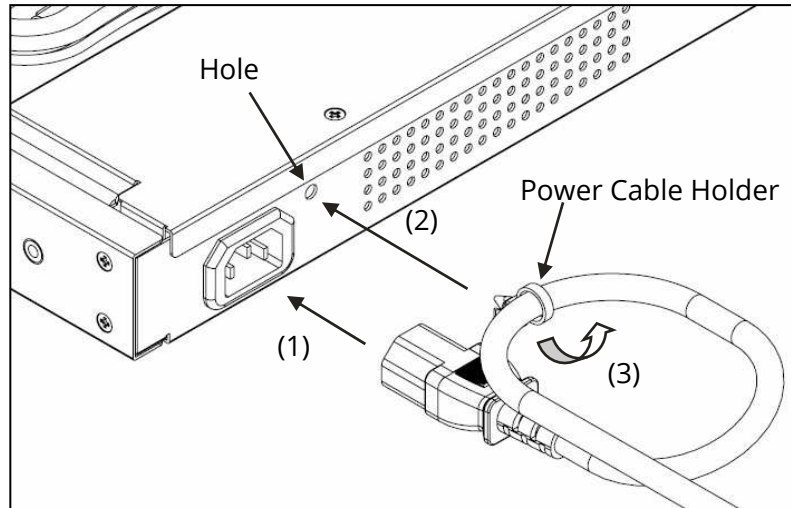
1. Unplug the power cables from the power outlets of all involved devices.
2. Connect the included KB (PS/2) cable, MS (PS/2) cable, USB cable, and monitor cable to this device and the server.
3. Connect the power cable to the power socket on the drawer.
4. Connect the power cable to the power outlet on the rack.



Connecting Cables

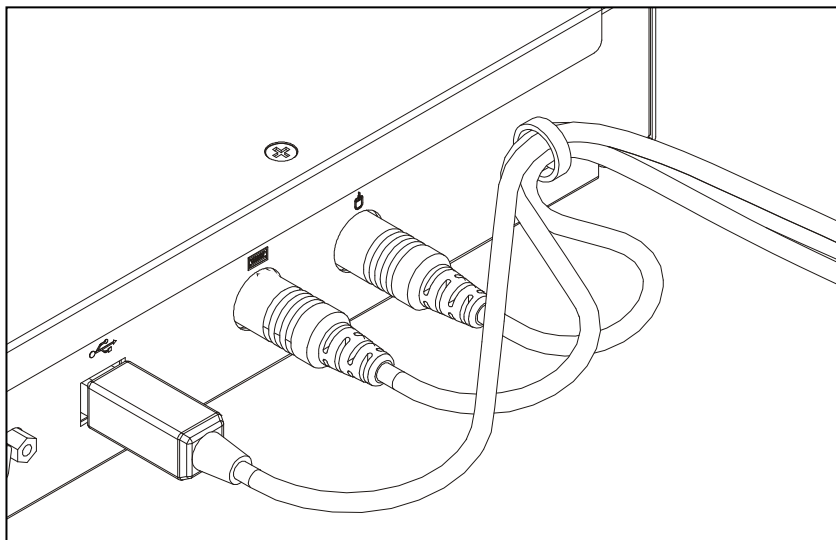
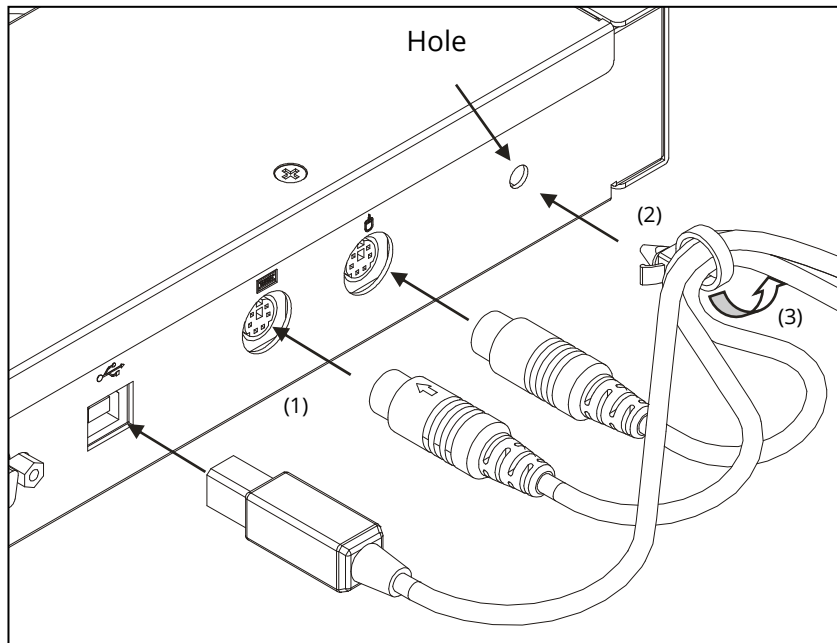
Installing the power cable holder

- (1) Connect the power cable to the power socket.
- (2) Insert the power cable holder into the hole on this device.
- (3) Use the power cable holder to secure the power cable.



Installing the PS/2(KB) cable, PS/2(MS) cable and USB cable holder

- (1) Connect the PS/2(KB) cable, PS/2(MS) cable and USB cable to the sockets.
- (2) Insert the PS/2(KB) cable, PS/2(MS) cable and USB cable holder into the hole on this device.
- (3) Use the I/F cable holder to secure the Use the PS/2(KB) cable, PS/2(MS) cable and USB cable.



Removing Cables

Unplug the power cables from the power outlets of all involved devices, then remove each cable. USB cables can be removed while the server is running.

Operation



Pull the drawer slowly toward you until the slide rails lock.
If the slide rails are not locked, the drawer can move unexpectedly.
Be careful not to catch your fingers when pulling or pushing on the slide module or opening and closing the LCD, etc.



Do not apply any significant strong force, when the drawer is pulled out, or the monitor is opened and being used, as there is a risk that the rack can topple over.
Do not strongly press on the monitor's screen, scratch it with sharp objects, or bring magnetic objects near it. Doing so can damage the monitor.



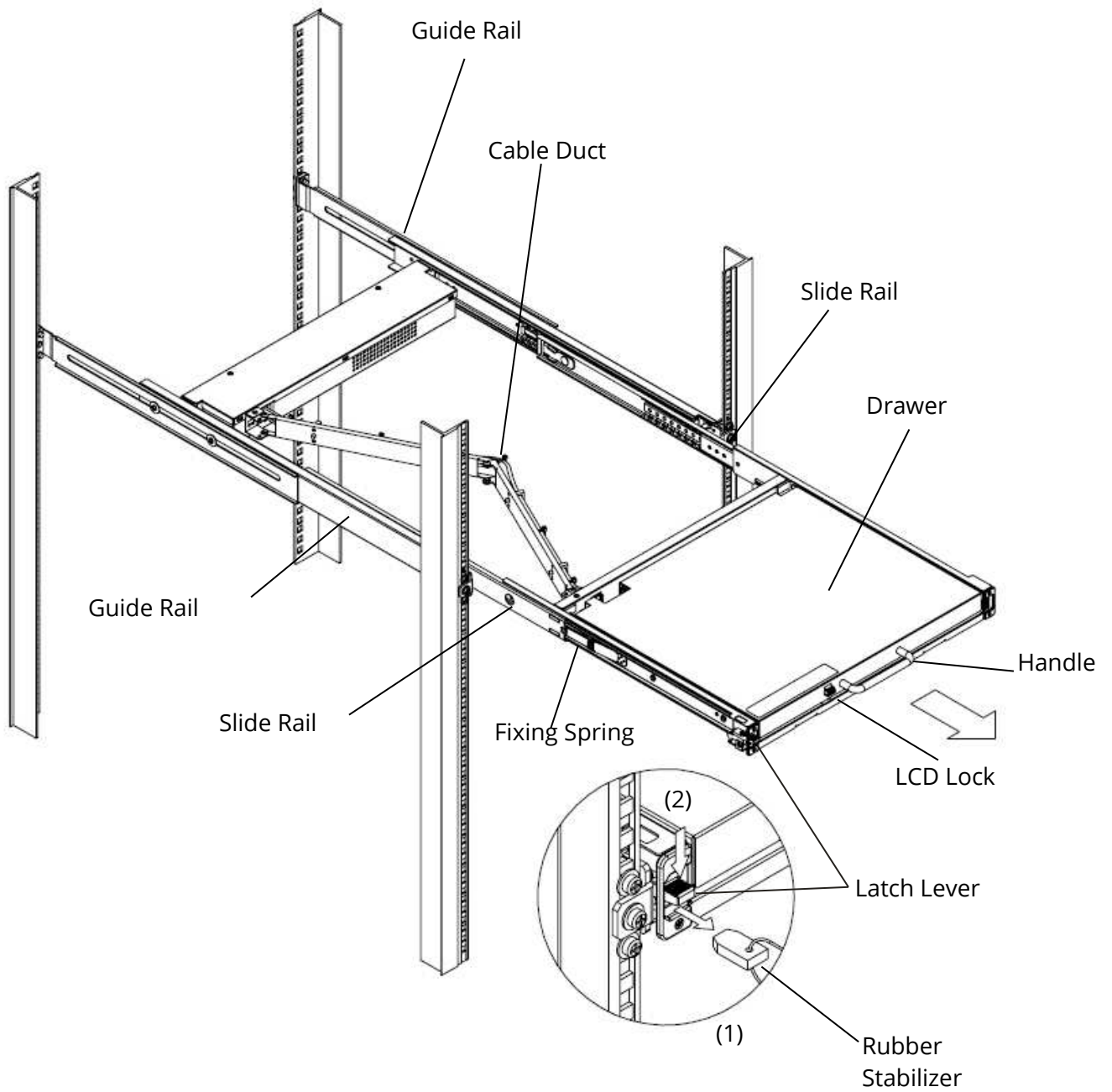
Note that the corners of the open drawer can be dangerous if bumped into.
It is recommended that you retract the device into the rack when not in use, or when handling other devices in the rack (such as servers or peripherals).

Operating the Drawer

1. Remove the rubber stabilizer if it has not been removed yet.
 2. Push down the latch lever on the front left side of the drawer. Pull the drawer out by its handle until it locks into place.
-
-



Before pulling it out, make sure that the two screws on the front of the drawer are tightly fixed to the rack.

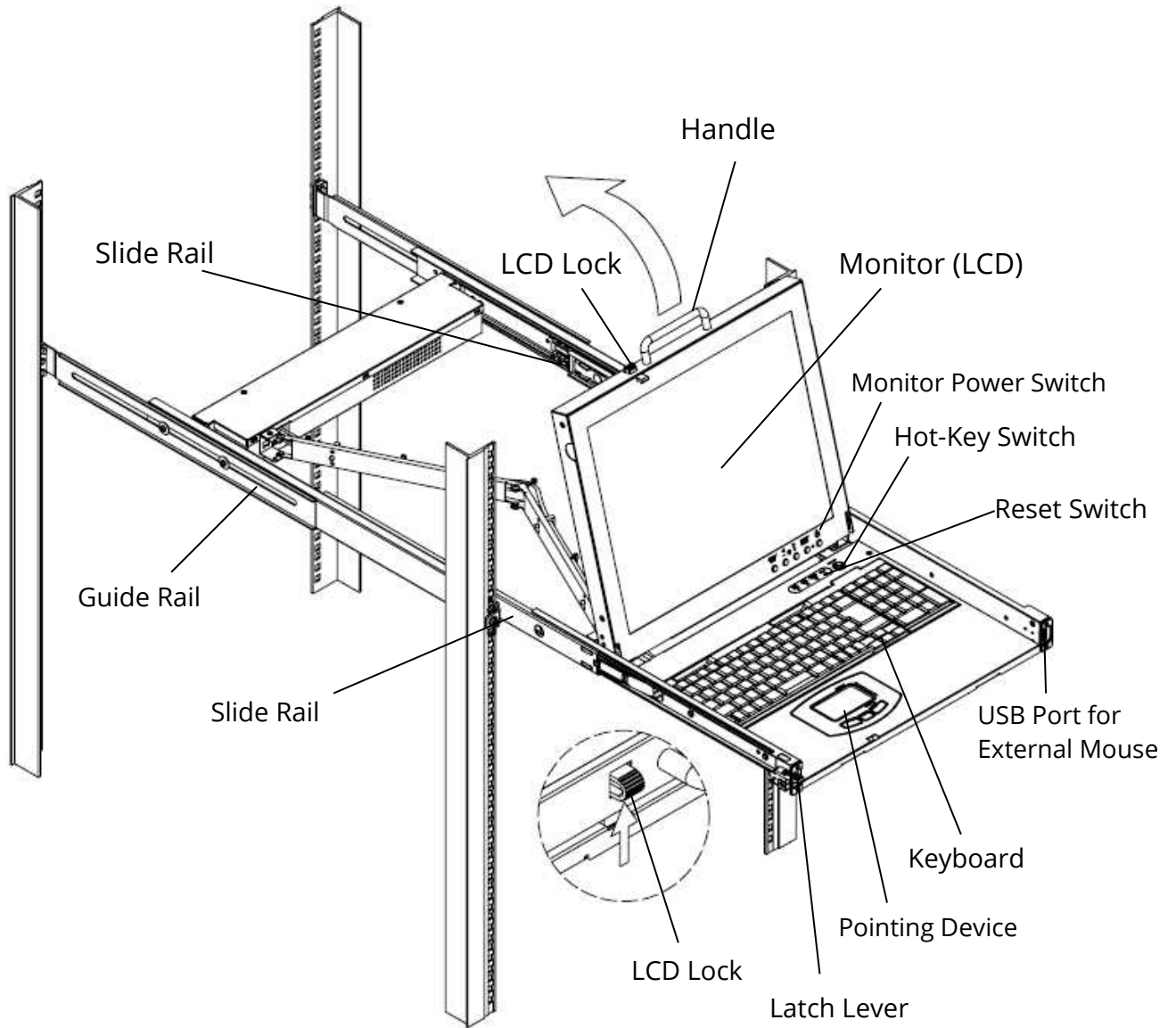


Pulling Out the Slide Rail

3. Push the LCD lock upwards on the left side of the handle, grip the monitor handle and open the monitor upward.
4. Press the power button to turn the monitor on.

Point

Open the monitor completely.

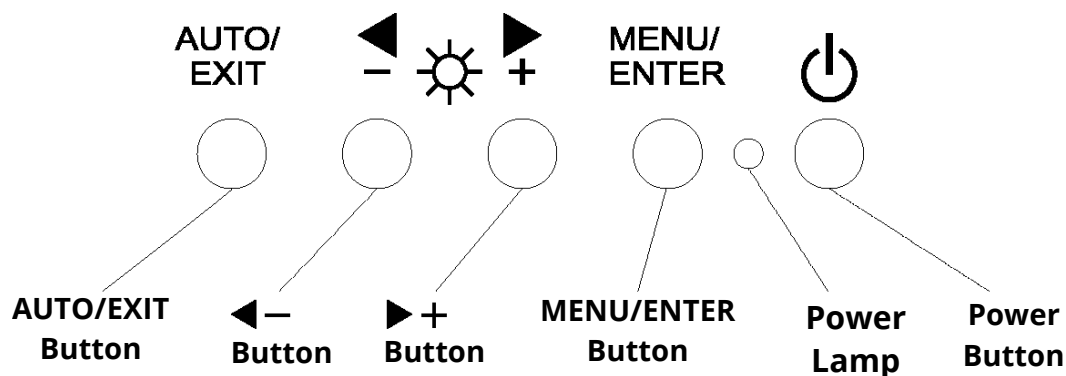


Opening/Closing the LCD

If you want to hide the USB port for external mouse for security reasons, use the included USB mask sheet.

Adjusting the Monitor

The five buttons and an LED on the monitor are described from right to left:



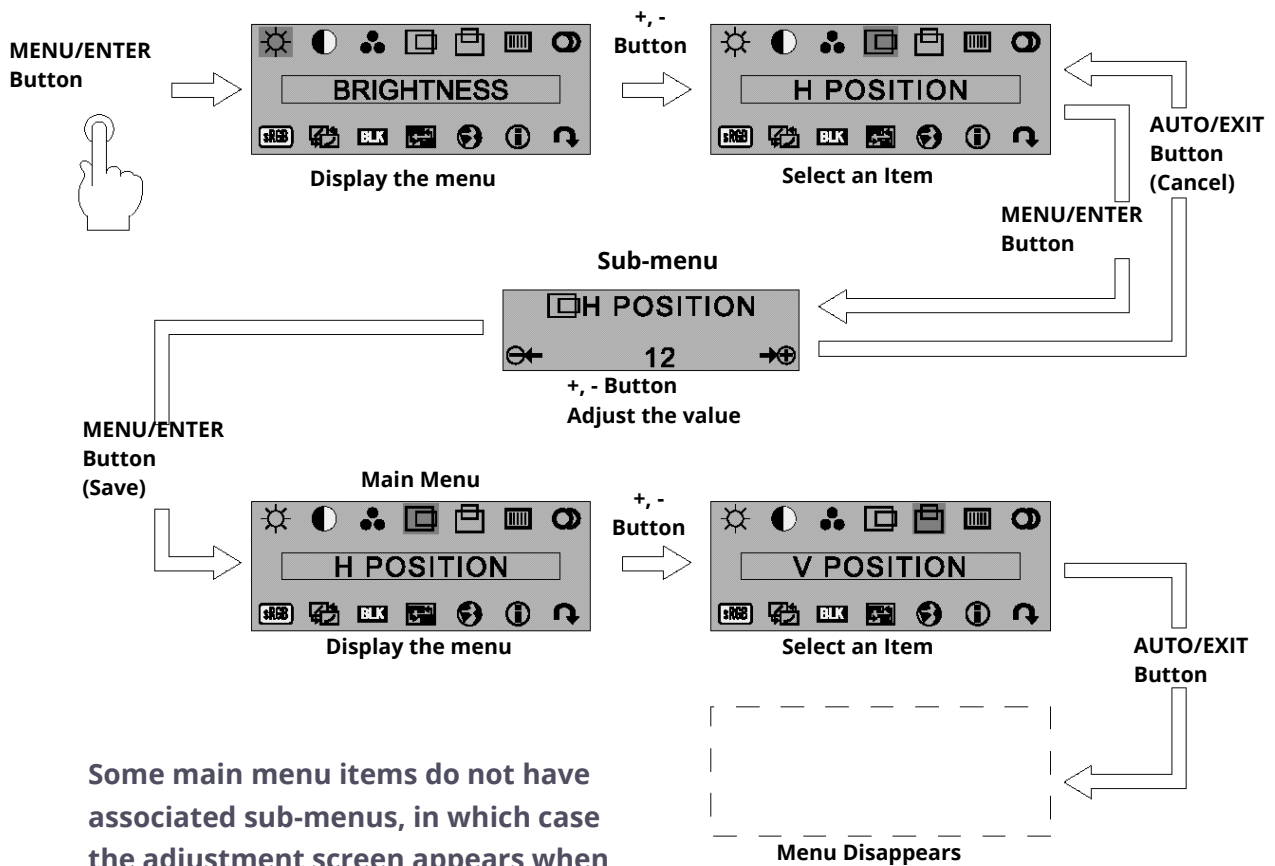
- Power Button:** Press this button to turn on the power to the monitor, or, if the power is already on, to cut the power to the monitor.
- Power Lamp:** This lights blue when the power to the monitor is on, and lights orange when the monitor is in energy-saving mode. The light goes off when the monitor is turned off.
- MENU/ENTER Button:** Press this button to open the menu, select an item to be adjusted, and save an adjusted setting.
- ▶+ Button:** Press this button to select the right-hand item or increase the value.
- ◀- Button:** Press this button to select the left-hand item or decrease the value.
- AUTO/EXIT Button:** Press this button to close the menu, cancel the selection of an item to be adjusted, cancel an adjusted setting, or perform automatic adjustment.

Point

It is possible to directly adjust the screen brightness by pressing the ▶+ button or ◀- button when the menu is not displayed. It is possible to perform automatic adjustment (position and focus) by pressing the AUTO/EXIT button when the menu is not displayed.

Basic Adjustment Procedure















The basic adjustment procedure is shown in the figure below.



Some main menu items do not have associated sub-menus, in which case the adjustment screen appears when the item is selected. If the **AUTO/EXIT** button is pressed at this phase, the screen returns to the main menu and any adjustment to setting will not be saved.

The screen brightness setting (**BRIGHTNESS**) can be adjusted using the **▶ +** and **◀ -** buttons without opening the main menu first. In this case the setting is saved as it is being adjusted.

Main Menu Items

Symbol	Item	Function
	BRIGHTNESS	Adjusts the screen brightness.
	CONTRAST	Adjusts the screen contrast.
	COLOR	Adjusts the screen color. Fixed values or individual color tones (red, green, blue) can be set.
	H POSITION	Adjusts the horizontal display position.
	V POSITION	Adjusts the vertical display position.
	CLOCK	Gets rid of vertical striping (noise).
	FOCUS	Gets rid of horizontal noise and sharpens up blurred on-screen lettering.
	sRGB	Switches the sRGB functions on/off.
	BLACK LEVEL	Sets black color offset level at any value.
	GRADATION	Changes the contrast curve to change the half tone image expression.
	TEXT MODE	Sets the DOS screen resolution. Be sure to set 720 x 400 when using English DOS.
	LANGUAGE	Changes the displayed language. (English, German, Italian, French, Spanish)
	INFORMATION	Shows the currently set values for the screen resolution, vertical frequency, etc. (not all settings are shown)
	RECALL	Reinstates the factory default values. <ul style="list-style-type: none"> ● READJUSTING Recalls all the factory default values. ● GEOMETRY Recalls the screen resolution, POSITION, CLOCK, and FOCUS default values. ● COLOR Recalls the BRIGHTNESS, CONTRAST, BLACK LEVEL, and COLOR default values.

Resolutions and Refresh Rates

Resolution	Horizontal frequency (kHz)	Vertical frequency (Hz)	Mode
640 x 400	31.5	70	VGA 400 LINE
640 x 480	31.5	60	VGA Standard
	37.5	75	VESA
	37.9	72	
720 x 400	31.5	70	
800 x 600	35.2	56	
	37.9	60	
	46.9	75	
	48.1	72	
1024 x 768	48.4	60	
	56.5	70	
	60.0	75	
1280 x 1024	64.0	60	
	80.0	75	
1152 x 900	61.9	66	ORACLE (SUN) Composite
	71.8	76	
1280 x 1024	71.4	67	

LCD display notes

While the on-screen display may shift, blink, or otherwise be disturbed just after the power is turned on or the OS starts up/shuts down, this does not indicate a machine failure, and the device may be used normally.

Even though 1280 x 1024 is the native full-screen resolution, all resolutions are shown full-screen.

For resolutions other than 1280 x 1024, letters may be blurred and the thickness of thin lines can be uneven.

This is because the full-screen display is made by digital interpolation of the low-res output, not by physical magnification. This is not a machine failure, and the device may be used normally.

Although there might be some always-off dots or some always-on dots, this is accepted as it's a natural characteristic of LCDs, not as a fatal imperfection. So use this device normally.

Using a Linux Operating System



Carefully read the following cautions to set and use this device with a Linux operating system correctly.

- We recommend using the following resolutions, refresh rates, and display colors for the X Window System settings.
- Settings other than the recommended values could result in screen disturbances or failure of the screen to display.

Distribution	Recommended Value		
	Resolution	Refresh Rate (Hz)	Display Colors
Turbolinux Server 6.1 Japanese Version	1024 x 768	70	65536
Turbolinux Server 6.5	1024 x 768	70	65536
Turbolinux 7 Server	1024 x 768	75	–
Turbolinux 8 Server	1024 x 768	75	–
RED HAT LINUX 7J PROFESSIONAL SERVER	1024 x 768	70	65536
Red Hat Linux 7.2 Professional	1024 x 768	75	–
Red Hat Linux 7.3	1024 x 768	75	–
Red Hat Linux 8.0	1024 x 768	75	–
Red Hat Linux 9	1024 x 768	75	–
Red Hat Enterprise Linux AS (v. 2.1)	1024 x 768	75	–
Red Hat Enterprise Linux ES (v. 2.1)	1024 x 768	70	–
Red Hat Enterprise Linux AS (v. 3)	1024 x 768	75	–
Red Hat Enterprise Linux ES (v. 3)	1024 x 768	75	–

- When using Linux with this device, be sure to carefully read the release notes included with the Linux bundle model of the device.

Keyboard Operation

Full keyboard operation is possible by working with the **Fn** key.

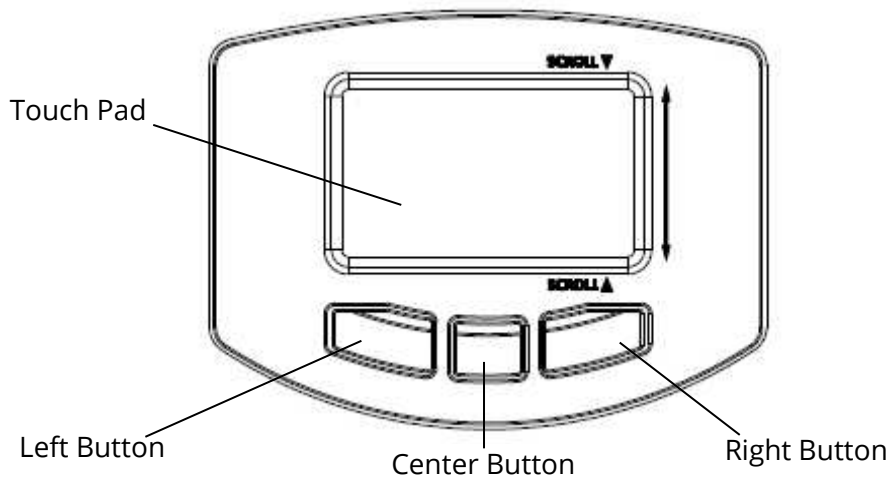
Pointing Device Operation

Lightly swipe or tap the operation surface to operate the pointing device.

Moving the pointer: Just lightly swipe the operation surface in the direction you want to move the cursor.

Single click: Lightly tap the operation surface once, or click the left button once.

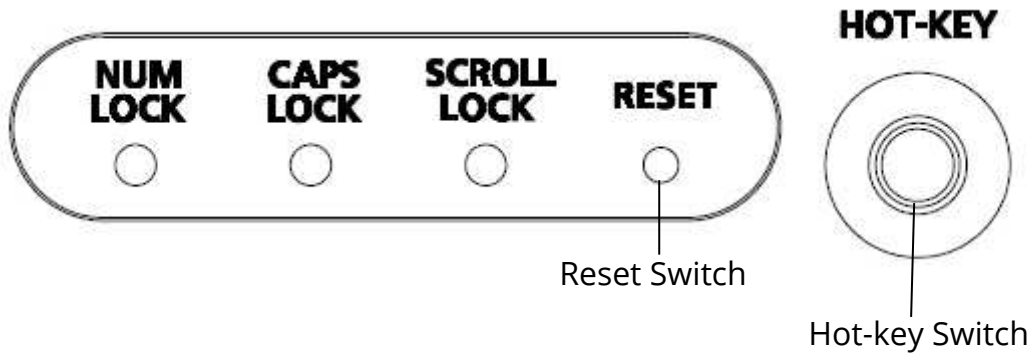
Double click: Lightly tap the operation surface twice, or click the left button twice.



CAUTION

- (1) The pointing device is designed to be used with one finger, do not use it in the following ways:
 - 1) When the operator is wearing gloves
 - 2) When operated with a pen, ballpoint pen, pencil, or similar object
 - 3) When operated with two or more fingers
 - 4) When other objects are placed on the surface of the pointing device
 - (2) The pointing device might not operate correctly if there are water droplets or condensation on the operation surface, or if operated with wet or sweaty fingers. Thoroughly dry or wipe the operation surface before using it.
 - (3) Do not use a pointed metal object such as a pen as it may damage the pointing device.
-

Hot-key Switch and Reset Switch



- Num Lock LED : Num Lock enabled (LED On) / disabled (LED Off)
Caps Lock LED : Caps Lock enabled (LED On) / disabled (LED Off)
Scroll Lock LED: Scroll Lock enabled (LED On) / disabled (LED Off)
Reset SW : This switch is not normally used. It is only used if server selection is not possible during KVM connection, or if the keyboard or mouse stops operating. Use the tip of a pin or similar object to press this switch.
- Hot-key SW : Used to display the On Screen Display (OSD) for switching servers.

Storing the Drawer

The drawer can be stored in the rack when a monitor and keyboard are not needed.

Point

Slide the drawer in and out of the rack slowly.

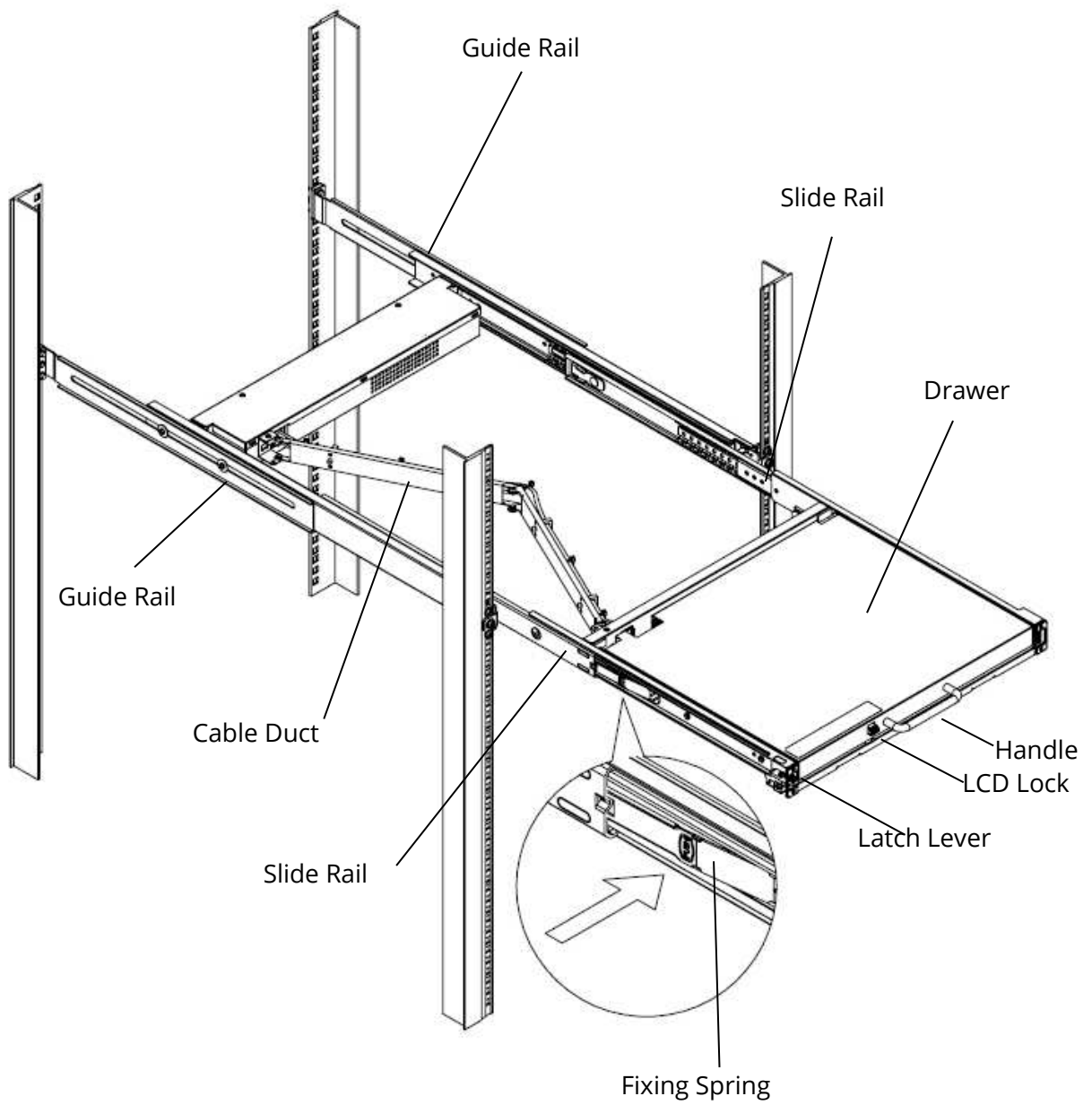
1. Press the monitor power button to turn off the monitor.
 2. Hold the handle and slowly close the monitor. Make sure that the monitor is locked.
 3. Press the fixing springs on both slide rails, and slide the drawer back into the rack. Make sure that the latch lever is locked.
-



Be careful not to pinch your fingers in the guide rails, slide rails, or the drawer itself when stowing the drawer. If the latch lever does not lock, the drawer can suddenly slide out if the rack is moved.

Point

When the monitor is not in use, turn off the monitor to conserve electricity, or store the drawer in the rack. When the drawer is stored in the rack, power to the monitor is automatically turned off.



Stowing the Slide Module

Troubleshooting

If any difficulty arises during the use of this product, please inspect the following areas.

1. No image displayed on monitor

Symptom	Cause	Action
Power lamp is out.	Power cable is incorrectly connected or not plugged in fully.	Connect the power cable correctly and make sure the plug is fully inserted.
	Power is not on.	Turn on the power.
Power lamp lights orange or pressing the MENU/ENTER button displays the message "POWER SAVING".	Server is in Standby mode.	Press any key of the keyboard or move the mouse to exit the Standby mode.
	Monitor cable is incorrectly connected to the server.	Connect the monitor cable correctly to the computer.
Power lamp lights but no image is displayed on monitor. In some situations, the following messages are also displayed. "OUT OF RANGE H:***kHz V: ***Hz SEE USER'S MANUAL" "NO SYNC SIGNAL SEE USER'S MANUAL"	Use of non-standard display resolution or refresh rate.	Change the server settings to use the standard display resolution and refresh rate.
	The device was turned on after the server.	Turn the device on at the same time as or before the server.
	Monitor cable is incorrectly connected to the server.	Connect the monitor cable correctly to the server.

2. Monitor display is strange

Symptom	Cause	Action
Grid screen that flickers.	Unfocused.	Adjust the focus.
Vertical stripes are visible.	Monitor adjustment is not proper.	Adjust the clock, and then adjust the focus.
Display is larger or smaller than the monitor screen.	Position is not proper.	Adjust the clock, and then adjust the screen position.
	Use of a non-standard display resolution (mode).	Change the server settings to use the standard display resolution (mode).
Sometimes no images are displayed on monitor.	Power cable is incorrectly connected or not plugged in fully.	Connect the power cable correctly and make sure the plug is fully inserted.
Letter weights are different across the monitor.	Focus or clock adjustment is not proper.	Adjust the clock, and then adjust the focus.
	Resolution of lower than 1280 x 1024 has been set.	Letter weights may also be intentionally different if digital magnification is used. The appropriate monitor resolution is the 1280 x 1024 setting in the "Monitor Properties".

3. Monitor cannot be adjusted

Symptom	Cause	Action
Automatic adjustment by the AUTO/EXIT button does not work and the following messages are displayed. "AUTO ADJUSTMENT FAILED SEE USER'S MANUAL"	Automatic adjustment was performed with an extremely dark monitor background/image.	Make the monitor image as bright as possible, and then press the AUTO/EXIT button to redo the automatic adjustment.
"UNSUPPORTED MODE SEE USER'S MANUAL"	Use of non-standard display resolution or refresh rate.	Check the current resolution and refresh rate using the menu screen information. Change the server settings to the standard display resolution and refresh rate (mode) if necessary.

Cleaning the Drawer



Turn off the power and unplug the power cable from the power socket.

Do not use cleansers that contain abrasives, or organic solvents such as benzene, thinners, or alcohol. Do not apply water, soap, or spray type cleaners directly onto the drawer. If liquids enter the interior of the drawer it can cause malfunctions or damage.

Wipe the drawer and monitor cabinet with a clean dry cloth. If the dirt is excessive, wipe it off with a soft cloth that has been thoroughly wrung out after being dipped in water.

Remove dust with a soft brush.

Clean the keyboard and pointing device with a sterilized cloth.

Clean the monitor screen with a soft dry cloth such as gauze. Remove dust with a soft brush.

Technical Specifications

Model: FD-1700AT

● Electrical specifications

Rated voltage range: 100-240V AC
Frequency: 50/60Hz
Current consumption: 0.65-0.35A

● External dimensions

Main unit: Excluding handles (excluding rear protrusions)
(W) x (D) x (H)

(1) With slide rails contracted: 445.4mm x 525mm x 42mm
(2) With slide rails extended: 445.4mm x 1005mm x 42mm
(3)(2) + LCD fully open: 445.4mm x 1005mm x 359mm

● Weight: 12kg

● Environmental conditions

Operating temperature/humidity: When used 5 – 35 °C/10 – 80%RH
(There must be no condensation when the device is used.)
According to the normal server operating specifications.

● Monitor

Panel type: 17-inch TFT color LCD
Resolution: Maximum 1280 dots (length) x 1024 lines (width)
Contrast ratio: 600:1 (Typ)
Refresh rate: Maximum 75Hz
Colors: Maximum 16,770,000 (dithering)
Brightness: 185cd/m² (Typ)
Connector: Mini D-Sub 15 Pin (Analog RGB)
Power consumption: Maximum 30W or less
During energy conservation, 3W or less
When the power switch is off, 3W or less

● Keyboard

Layout: JP, US, UK
 Number of keys: 108 keys (JP), 103keys (US), 104keys (UK)
 Interface: PS/2, USB keyboard interface

● Pointing device

Method: Capacitance
 Tapping functions: Available (Single click, double click,dragging)
 Number of switches: 3
 Interface: PS/2, USB mouse interface

● Guide rails (sold separately)

Model	Rack Installation Hole	Remarks
FP-G001 (NC14003-T591-R)	M6 tapped hole	M6 screws included. Install from back and front. 43mm (W) x 600 - 865mm (D) ^{*1} x 44mm
FP-G003 (NC14003-T595-R)	Untapped hole	M5 and M6 screws included. Install from the sides. 43mm (W) x 440 - 750mm (D) ^{*1} x 44mm
FP-G002 (NC14003-T596-R)	Untapped hole	M5 and M6 screws included. Install from back and front. 43mm (W) x 600 - 900mm (D) ^{*1} x 44mm

*1: Freely adjustable

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SERVIS™ Drawer Basic 17inch [FD-1700 Series]

User's Manual

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240201 (NC14010-L515AA-03)

