

# MKD6220D

20" Monitor Keyboard Drawer  
1600 x 1200 Widescreen LCD  
8 port KVM Switch

Rack Consoles

## User Manual

## 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.
  - 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.

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## < Part. 4 > KVM Integration

<http://www.acnodes.com/files/downloads/SKVM-UM.pdf>

Combo DB-15 KVM	Local	Remote	IP	8-port	16-port
	1	0	1	KP802	KP1602
	1	1	0	KV802	KV1602
	1	0	0	KVS801	KV1601

## 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.

## < Part 1 >

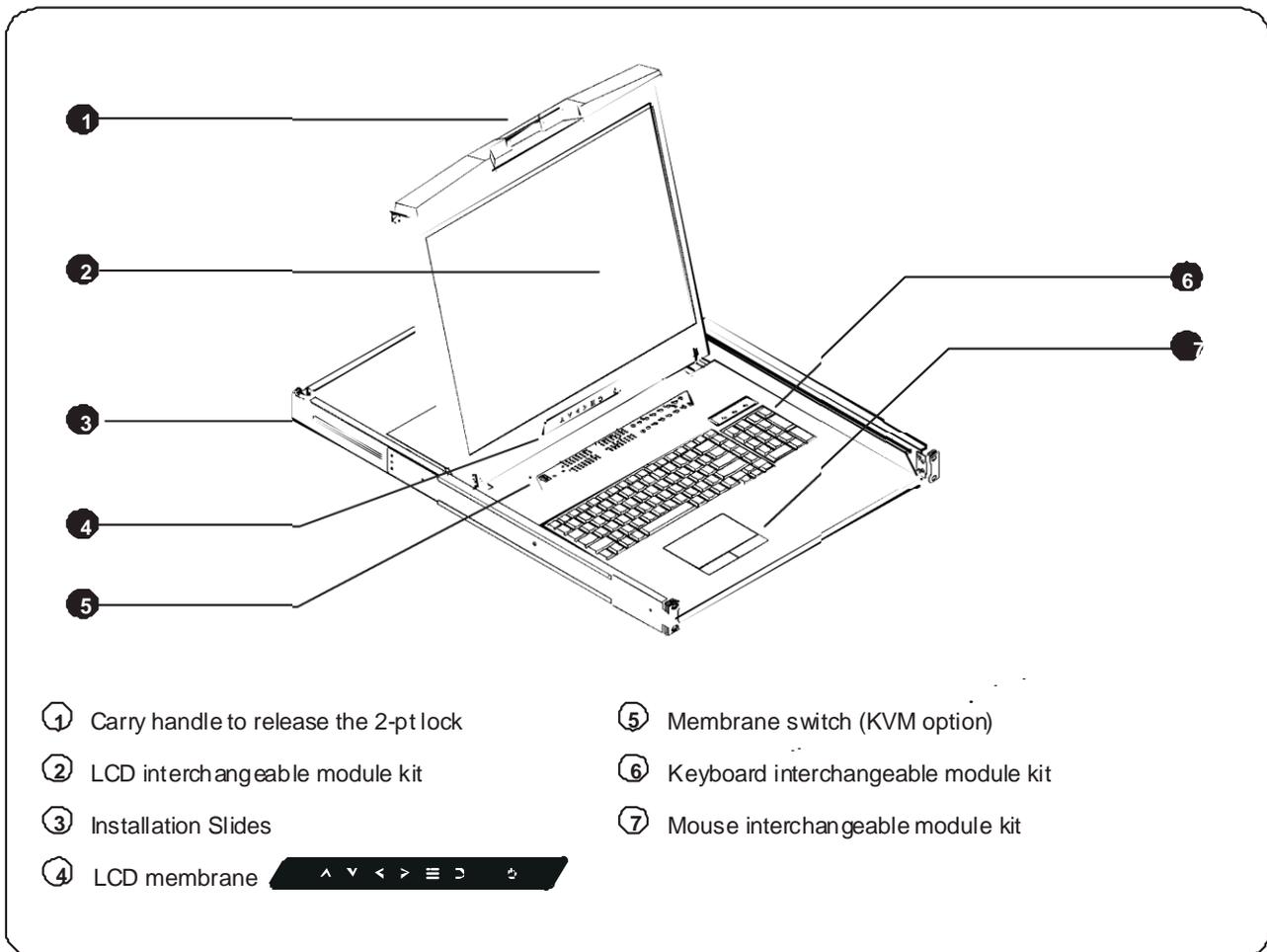
### < 1.1 > Package Content



#### **MKD6220D unit X 1**

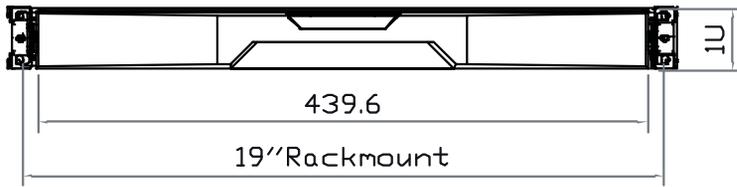
- 6ft Combo KVM cable X 1
- Power cord X 1
- M6 screw, cage nut & cup washer X 8

### < 1.2 > Structure Diagram

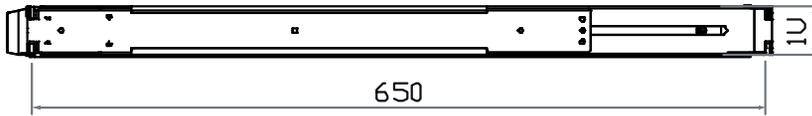


## < 1.2 > Dimension

Front View

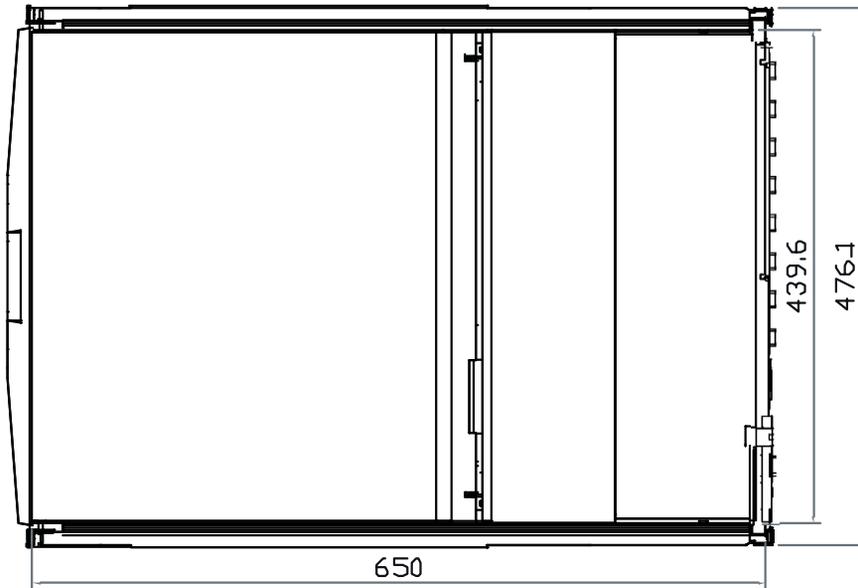


Side View



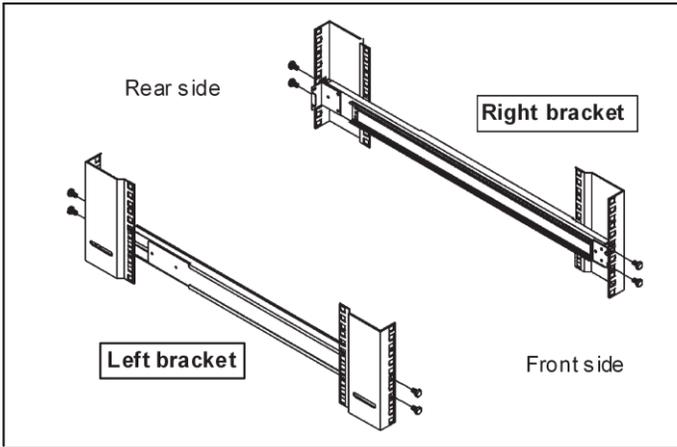
UNIT : mm  
1mm = 0.03937 inch

Top View



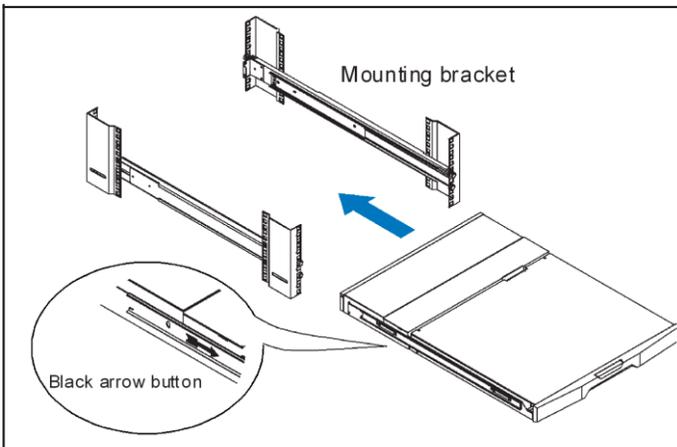
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
MKD6220D	439.6 x 650 x 44 mm 17.3 x 25.6 x 1.73"	595 x 860 x 140 mm 23.4 x 33.9 x 5.5"	14.5 kg 32 lb	22 kg 48 lb

## < 1.3 > Installation - How to install 1U 20" LCD Tray

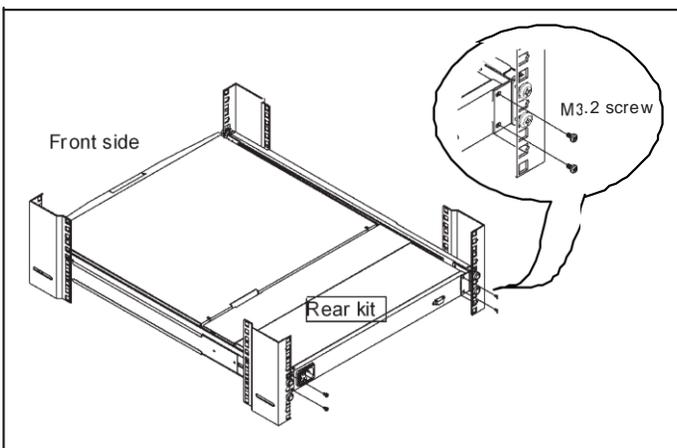


- Step 1**
- Attach the **left and right mounting bracket** to rack 19" mounting rails.
  - Adjust the mounting bracket to fit your rack.
  - M6 screw x 8 pcs included.

**!** Leave all M6 screws slightly loose, until you complete the installation in **step 3**

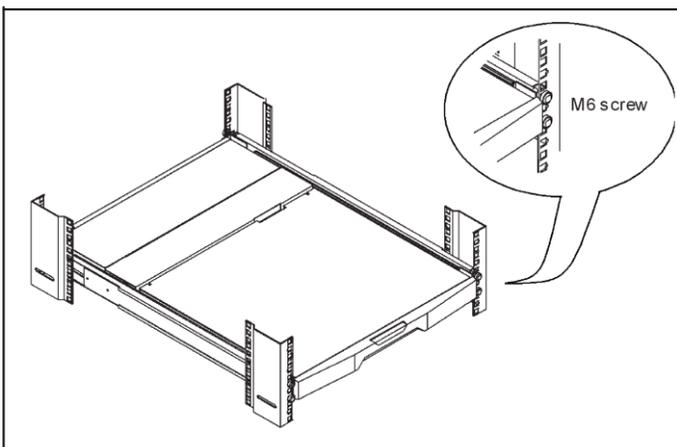


- Step 2**
- Pick up the LCD tray.
  - Insert the LCD tray into the mounting bracket.
  - Pull and hold the left & right black arrow buttons on the rails.
  - Return the LCD tray to park position.



- Step 3**
- Fix the **rear kit** to the mounting bracket with M3.2 screw x 4 pcs included.

**!** This step is necessary. Failure to complete this will cause damage.



- Step 4**
- Complete the installation**
- Tighten all 8 pcs of M6 screw to complete the installation.

### < 1.3 > Installation- How to use the drawer



- Press the handle button and slide out the drawer.



- Flip up the LCD to a suitable angle.



- Operate the LCD console drawer.

## < Part 2 >

### < 2.1 > Product Specifications

<b>LCD Panel</b>	Manufacturer	
	Panel Size ( diagonal )	20-inch TFT color LCD
	Display pixel ( dots x lines )	1600 x 1200
	Brightness ( typ. )	300
	Contrast Ratio ( typ. )	800:1
	Color	16.7 M
	Viewing Angle ( L/R/U/D )	89/89/89/89
	Response Time ( ms )	16
	Dot pitch ( mm )	0.255
	Display Area ( mm )	408.00H x 306.00V
	Surface treatment	Anti-glare, Hard-coating
	Surface hardness	3H
	Backlight Type	CCFL
	MTBF ( hrs )	45,000

<b>Video Connectivity</b>	Analog	VGA	Analog 0.7Vp-p
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<b>Power</b>	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen display ON	48W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

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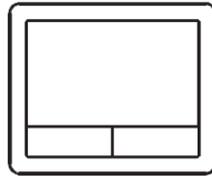
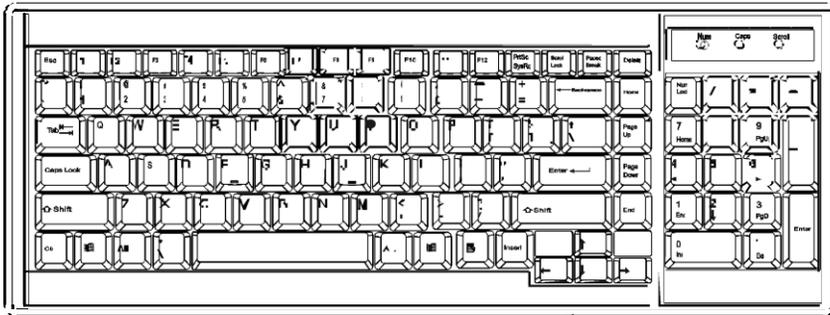
<b>Environmental Conditions</b>	Operating	Temperature	0 to 50°C degree
		Humidity	20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

<b>Physical Specification</b>	Product ( W x D x H )	439.5 x 650 x 44 mm 17.3 x 25.6 x 1.73 inch
	Packing ( W x D x H )	595 x 860 x 140 mm 23.4 x 33.9 x 5.5 inch
	Net Weight	14.5 kgs / 32 lbs
	Gross Weight	22 kgs / 48 lbs

<b>Applicable Format</b>	VGA Input	PC Signal	1600 x 1200 x 60Hz
			1400 x 1050 x 60Hz
			1440 x 900 x 60Hz
			1360 x 768 x 60Hz
			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			

## < 2.2 > Keyboard / Mouse Specifications

**Ge** G keyboard integrated with touchpad



<b>Key force</b>	55 ± 5g
<b>Travelling distance</b>	3 ± 0.3mm
<b>Switch life</b>	> 10 million life cycle time
<b>Software support</b>	MS Windows 7 / 2008 / 2003 / 2000 / XP / ME / 98 / DOC Linux / Mac

### Supporting layouts

America



United States



United Kingdom



Germany



France



Spain



Norway

EMEA



Italy



Russia



Switzerland



Netherlands



Portugal

Asia



China



Japan



Korea



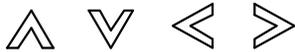
Arabia



Turkey

## < 2.3 > 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

Remark : All LED touch buttons in **WHITE** light.

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

- ① All the LED touch buttons will automatically 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**  )

## < 2.3 > On-screen Display Operation ( OSD )

Ver: G56SN20SSTD701 1024 x 768 59.8Hz

**Image**

Brightness  50

Contrast  50

Color Temp User

Red  255

Green  255

Blue  255

Adjust ← Select ↑↓ Set: ●/□ Exit: ↵

### OSD Configuration Page

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

## < Part 3 >

### <3.1 > Options :

- **Audio** ( 3.5mm audio jacks for audio in & out, and 2W + 2W speakers )

### < 3.2 > Options : DC Power

Model	12V	24V	48V
<b>Input rating</b>			
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
<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%