



Toll Free: 1-888-865-6888

Tel: 510-226-8368 Fax: 510-226-8968

Email: sales@RackmountMart.com

User Manual 23" 4K 3840 x 2160@60Hz LED-backlit LCD



LCDR9U23-01

9U Rackmount Display Panel



Options :

- SDI / MC
- Touchscreen / DC power
- MIL-type or lockable connector



Legal Information

First English printing, January 2025

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 labelled 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 A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in business, industrial and commercial environments.

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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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 >

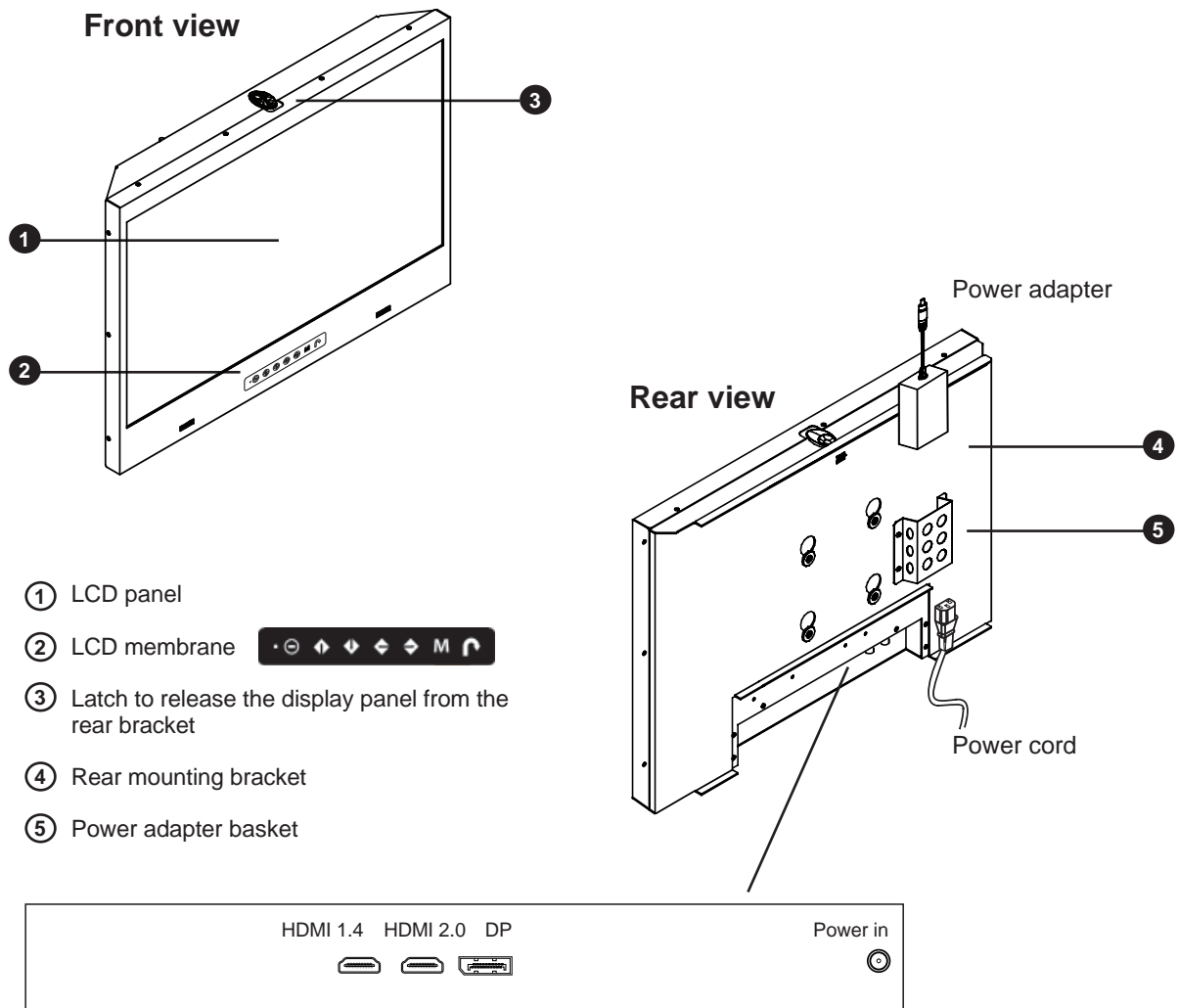
< 1.1 > Package Content



LCDR9U23-01 unit X 1

- 6ft DP cable X 1
- Power adapter X 1
- Power cord X 1
- Fastener screw for rear bracket x 2

< 1.2 > Structure Diagram



Basic I/O : Display port 1.2 + HDMI 1.4 + HDMI 2.0

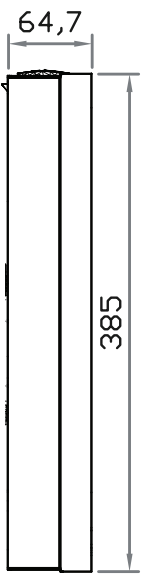
Options : SDI, USB for touchscreen & DC power

< 1.2 > Dimension

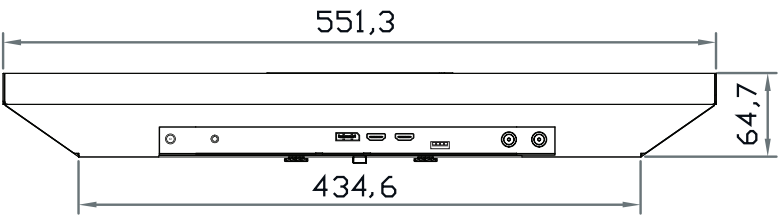
Front View



Side View



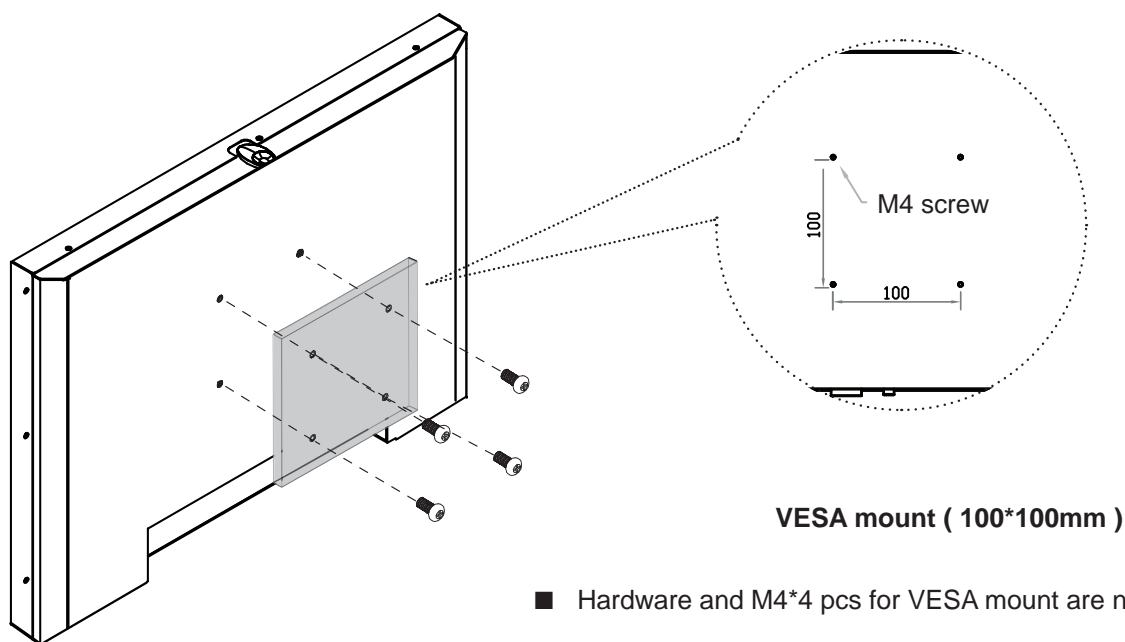
Bottom View



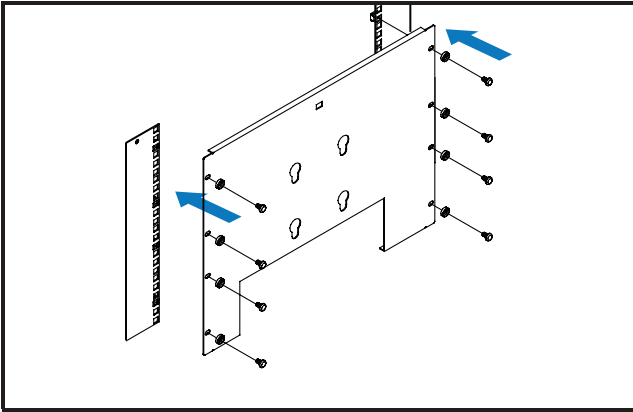
UNIT : mm
1mm = 0.03937 inch

| Model | Product Dimension (W x D x H) | Net Weight |
|-------------|---|-------------------|
| LCDR9U23-01 | 551 x 65 x 385 mm 21.7 x 2.6 x 15.2 inch | 8.8 kg 19.4 lb |

< 1.3 > VESA mount Installation



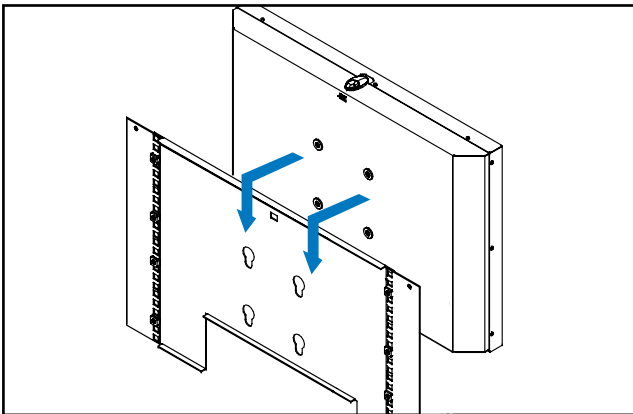
< 1.3 > Rear Mounting Bracket Installation



Step 1

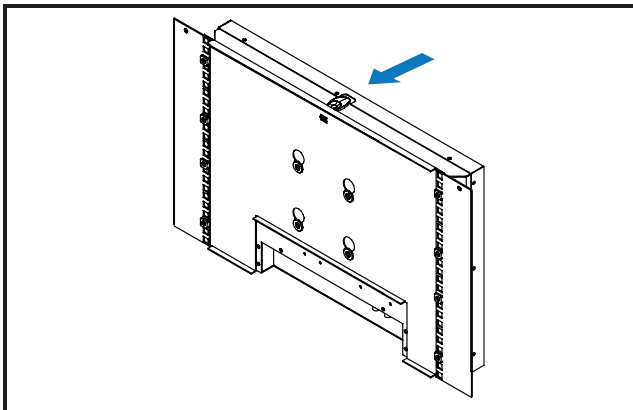
- Mount the rear bracket with M6 screw set.
- 8 x M6 screw set are required.

M6 screw sets are not provided.



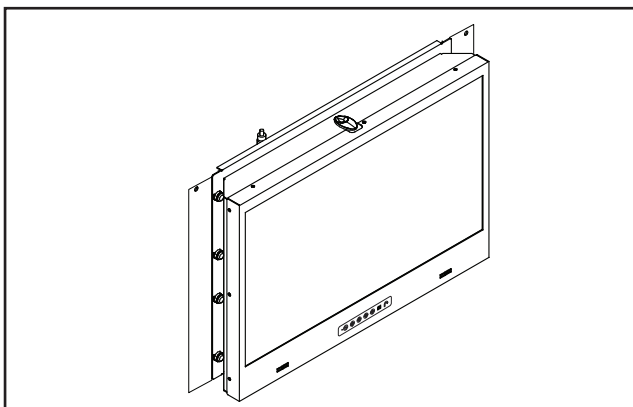
Step 2

- Insert the LCDR9U23-01 display panel into the rear bracket.



Step 3

- Fix the unit to the bracket with the top latch.



Step 4

Complete the installation

< Part 2 >

< 2.1 > Product Specifications

| | | |
|-----------------------|----------------------------------|-------------------------------------|
| LED-backlit LCD Panel | Native Resolution | 3840 x 2160@60Hz |
| | Panel Size (diagonal) | 23.8-inch TFT color LED-backlit LCD |
| | Brightness (cd/m ²) | 250 |
| | Contrast Ratio (typ.) | 1000:1 |
| | Colors | 1.07 Billion, 10-bit |
| | Viewing Angle (L/R/U/D) | 89/89/89/89 |
| | Response Time (ms) | 25 |
| | Dot pitch (mm) | 0.13725 |
| | Display Area (mm) | 527.04H x 296.46V |
| | Surface treatment | Anti-glare |
| | Surface hardness | 3H |
| | Backlight Type | LED |
| | MTBF (hrs) | 30,000 |
| | | |

| | | | |
|-------|---------|--------------|---------------------|
| Video | Digital | Display port | DP 1.2 / HDCP 1.3 |
| | | HDMI | HDMI 1.4 / HDCP 1.4 |
| | | | HDMI 2.0 / HDCP 2.2 |

| | | | |
|-------|--------------|--------------------------|-------------------|
| Audio | 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. 55W |
| | | Power saving mode | Max. 2W |
| | | Power button OFF | Max. 1W |

| | | |
|------------|---------------|----------------------|
| Compliance | EMC | FCC & CE |
| | Safety | CE / LVD & UKCA |
| | Environmental | RoHS3 & REACH / WEEE |

| | | | |
|---------------------------------|-------------------------|-------------|----------------------------------|
| Environmental Conditions | Operating | Temperature | 0 to 55°C degree |
| | | Humidity | 10~90%, 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 | 10~300Hz 0.5G RMS random |

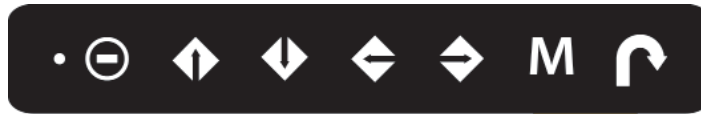
| | | |
|-------------------------------|-----------------------|---|
| Physical Specification | Product (W x D x H) | 480 x 48 x 266 mm 18.9 x 1.9 x 10.5 inch |
| | Net Weight | 4.2 kg / 9.2 lb |






* All dimensions stated are subject to change if options are selected / integrated to base model part codes

| | | | |
|--------------------------|--------------------|----------------|---------------------------------------|
| Applicable Format | Display Port Input | PC Signal | 3840 x 2160 x 60Hz |
| | | | 2560 x 1440 x 60Hz |
| | | | 1920 x 1080 x 60Hz |
| | | | 1600 x 1200 x 60Hz |
| | | | 1360 x 768 x 60Hz |
| | | | 1280 x 1024 x 60 / 75Hz |
| | | | 1280 x 768 x 60Hz |
| | | | 1024 x 768 x 60 / 70 / 75Hz |
| | | | 800 x 600 x 60 / 72 / 75Hz |
| | | | 720 x 400 x 70Hz |
| | | | 640 x 480 x 60 / 72 / 75Hz |
| | HDMI Input | Audio Signal | 2ch Linear PCM |
| | | HDMI 2.0 | 3840 x 2160 x 60Hz |
| | | HDMI 2.0 / 1.4 | 3840 x 2160 x 30Hz |
| | | | 2560 x 1440 x 60Hz |
| | | | 1920 x 1080 x 50 / 60Hz (1080p) |
| | | | 1920 x 1080 x 25 / 30Hz (1080i) |
| | | | 1280 x 720 x 50 / 60Hz (720p) |
| | | | 720 x 480 x 50 / 60Hz (576p / 480p) |
| | | Audio Signal | 2ch Linear PCM |





< 2.2 > On-screen Display Operation (OSD)

- Power light
- Green = On
- Orange = Power saving



| Membrane Switch | Function |
|---|---|
|  | Power on / off LCD |
|  | Display the OSD menu |
|  | Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button  for 5 seconds) |
|  | Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only) |

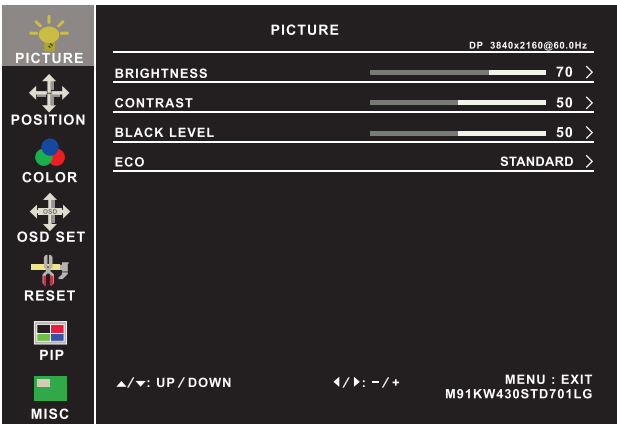
Select another video input (only available for models with multiple video input) :

- (a) Press the button  to call up the on-screen video mode on top right corner.
- (b) Use up/down arrow   to the select the video input
- (c) Press the button  to confirm the selection

< 2.2 > On-screen Display Operation (OSD)

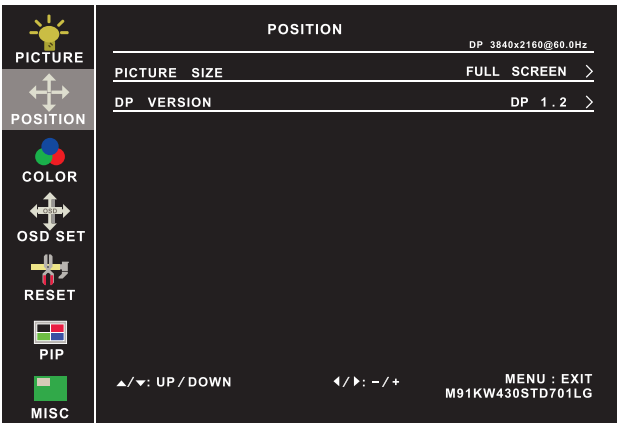
① Picture

- Brightness : Adjust the screen brightness
- Contrast : Adjust the difference between the image background (black level) and the foreground (white level)
- Black level : Adjust background black level of the screen
- Eco : Screen in power saving mode



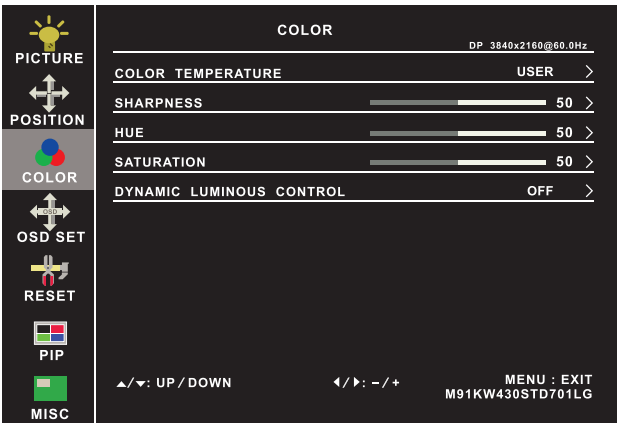
② Position

- Picture size : Adjust the image size
- Full Screen / 4:3 / 5:4 / Pixel to Pixel
- DP version : Select the DP version



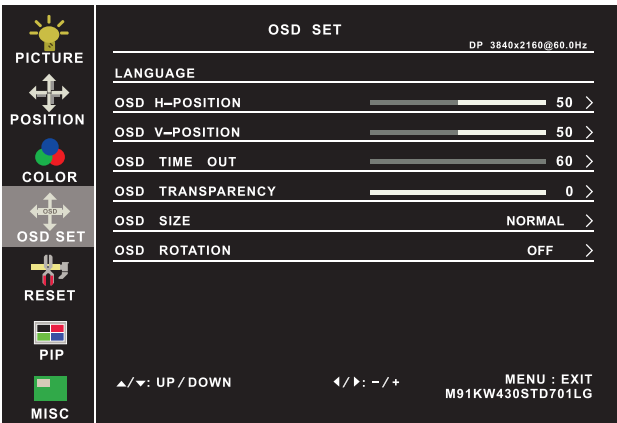
③ Color

- Color temperature : User / Warm / Cool / 5400k mode and Red / Green / Blue color balance
- Sharpness : Adjust the image from weak to sharp
- Hue : Adjust the screen hue value
- Saturation : Adjust the saturation of the image color
- Dynamic luminous control : Control the dynamic brightness



④ OSD Set

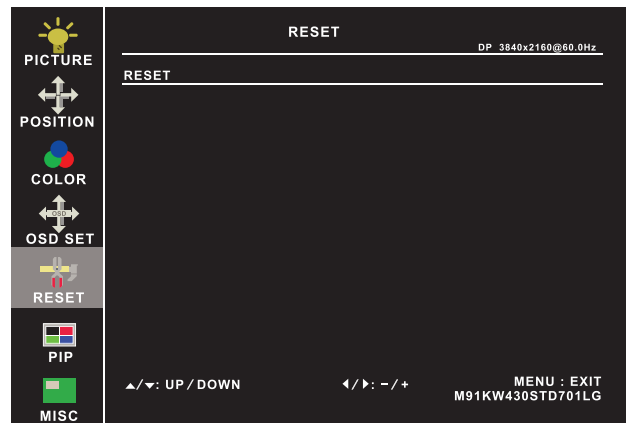
- Language : Select the language in which the OSD menu is displayed - English
- OSD H-Position : Align the screen image left or right
- OSD V-Position : Align the screen image up or down
- OSD time out : Adjust the screen timeout
- OSD transparency : Adjust the screen transparency
- OSD size : Adjust the screen size - Normal / Small
- OSD rotation : Rotate the screen - 90° / 180° / 270°



< 2.2 > On-screen Display Operation (OSD)

⑤ Reset

Reset : Return the adjustment back to factory setting



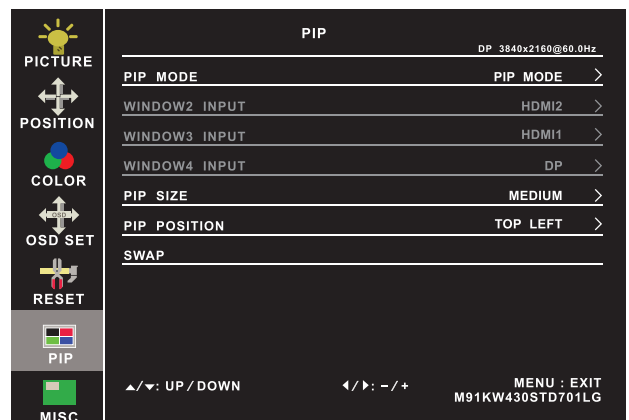
⑥ PIP

PIP mode : Enter into PIP / PBP setting - PIP MODE / PBP 2WIN (Main screen + 1 sub screen) / PBP 3WIN (Main screen + 2 sub screen) / PBP 4WIN (Main screen + 3 sub screen)
Select the signal input of each sub screen

PIP size : Adjust the size of the Sub screen
- Small / Medium / Large / Huge

PIP position : Adjust the position of the Sub screen
- Top Left / Top Right / Bottom Left / Bottom Right

Swap : Swap the input signal of PIP / PBP sub screen



⑦ MISC

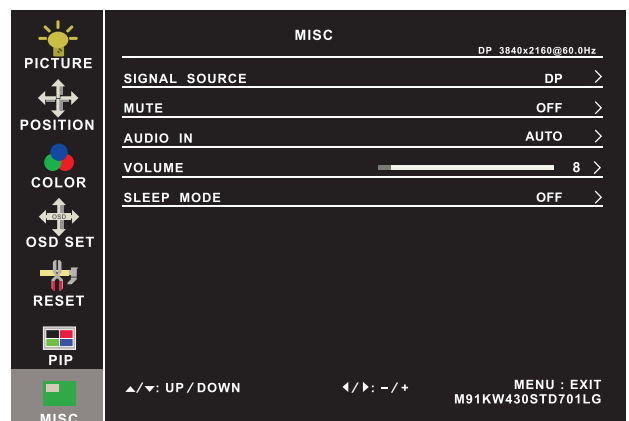
Signal source : Select the signal source - DP / HDMI1 / HDMI2

Mute : Turn off the surrounding sound

Audio in : Auto / Line in / DP

Volume : Adjust the volume of sound

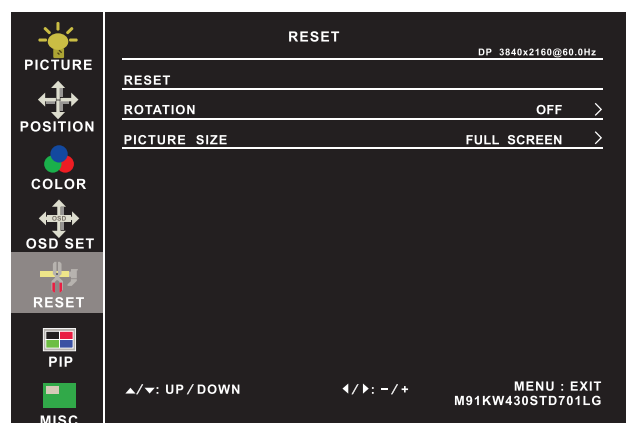
Sleep mode : Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min



Options on Reset page

Rotation : Rotate the image in Full screen or 1:1
- 90° / 180° / 270°

Picture size : Adjust the image size in Full screen or 1:1



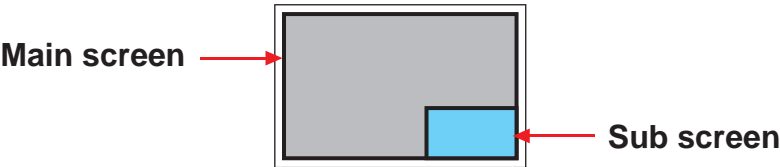
< 2.3 > How to Use Picture In Picture (PIP) /
Picture By Picture (PBP)

< 2.3.1 > Picture in Picture (PIP)

Mode

Display the Sub screen in the Main screen.

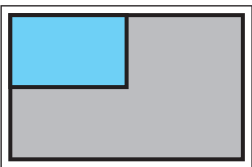
OSD Menu → MISC → PIP Mode → Large / Small / OFF



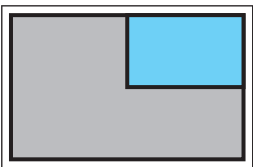
Position

Adjust the position of the Sub screen (top left, bottom left, top right, bottom right)

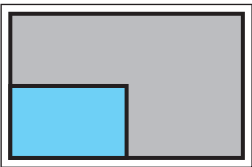
OSD Menu → MISC → PIP Position → top left / top right / bottom left / bottom right



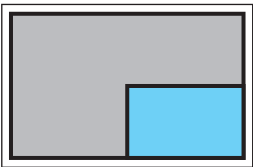
top left



top right



bottom left



bottom right

Size

Adjust the size of the Sub screen (Large / Small)

OSD Menu → MISC → PIP Mode → Large / Small

Size of Sub screen

| LCD Monitor | Large Sub screen | Small Sub screen |
|-------------|------------------|------------------|
| 1920 x 1200 | 552 x 414 | 480 x 360 |
| 1920 x 1080 | 552 x 414 | 480 x 360 |
| 1440 x 900 | 414 x 310 | 360 x 270 |
| 1366 x 768 | 392 x 294 | 340 x 254 |
| 1280 x 1024 | 368 x 276 | 320 x 240 |

< 2.3.2 > Picture By Picture (PBP)

Mode

Display the Sub screen next to the Main screen.

OSD Menu → MISC → PIP Mode → PBP



Size

| LCD Monitor | Main / Sub screen |
|-------------|-------------------|
| 1920 x 1200 | 955 x 716 |
| 1920 x 1080 | 955 x 716 |
| 1440 x 900 | 715 x 536 |
| 1366 x 768 | 678 x 508 |
| 1280 x 1024 | 635 x 476 |

< 2.3.3 > PIP / PBP Source

To select an input signal for PIP / PBP Sub screen.

OSD Menu → MISC → PIP Source → HDMI / SDI

The PIP / PBP is operable in the following table :

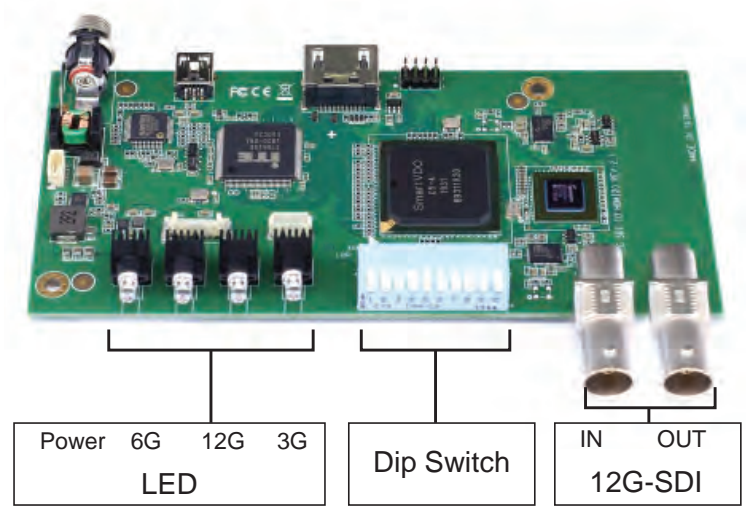
| Main \ Sub | HDMI | SDI |
|------------|------|-----|
| HDMI | X | O |
| SDI | O | X |

< Part 3 >

< 3.1 > Options : 12G / 4K60 / SD-SDI input

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

Designed for use with displays, a SDI input module can support up to 3840 x 2160p @60Hz resolution without using additional space or power.



Product Specifications

| INPUT | |
|------------|------------------------|
| 12G-SDI IN | BNC RG6 / RG59 (75Ω) |

| OUTPUT | |
|-------------|------------------------|
| 12G-SDI OUT | BNC RG6 / RG59 (75Ω) |

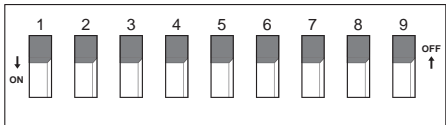
| Compatible Video Format | | |
|-------------------------|--------------|------------------|
| 12G-SDI IN | 3840 x 2160p | @60 / 50fps |
| 6G-SDI IN | 3840 x 2160p | @30 / 25 / 24fps |
| 3G-SDI IN | 1920 x 1080p | @60 / 50fps |
| HD-SDI IN | 1920 x 1080p | @30 / 25 / 24fps |
| | 1920 x 1080i | @60 / 50fps |
| | 1280 x 720p | @60 / 50fps |

Dip Switch Mode

| Output Color | 4 | 5 |
|--------------|-----|-----|
| YUV444 | OFF | OFF |
| YUV422 | OFF | ON |
| RGB444 | ON | OFF |
| YUV420 | ON | ON |

| EQ | 6 | 7 |
|---------|-----|-----|
| Auto | OFF | OFF |
| Disable | OFF | ON |
| Enable | ON | OFF |

| Out1 Cable length | 8 |
|-------------------|-----|
| Short | OFF |
| Long | ON |



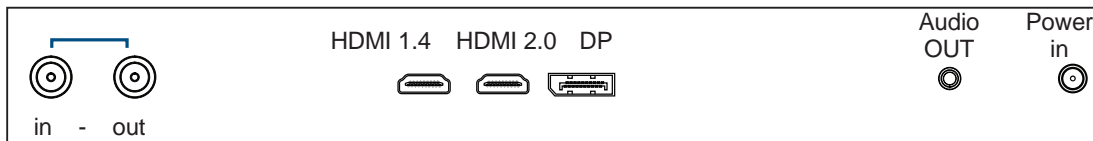
< 3.2 > Options : 3G / HD / SD-SDI input



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

Designed for use with NOVA series displays, a SDI input module can support up to 1080p @60Hz resolution without using additional space or power and it comes standard with a 1-year warranty.

SDI



| | | |
|--------------|------------|--|
| INPUT | 3G-SDI IN | BNC x 1 / 0.8Vp-p (75 ohm) |
| | 3G-SDI OUT | BNC x 1 / Active through, equalized & relocked |

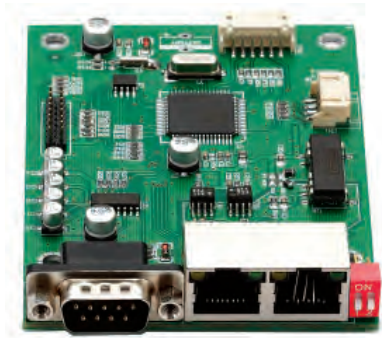
| | | |
|----------------------------|-------|---|
| Standard Compliance | Video | SMPTE 425M / 274M / 296M / 125M ITU-R BT.656 |
| | Audio | SMPTE 299M / 272M-C |

| | | | |
|--------------------------------|--------------|-------|------------------------|
| 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 / Asynchronous 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 |

< 3.3 > Options : MC (Multi-display Control)

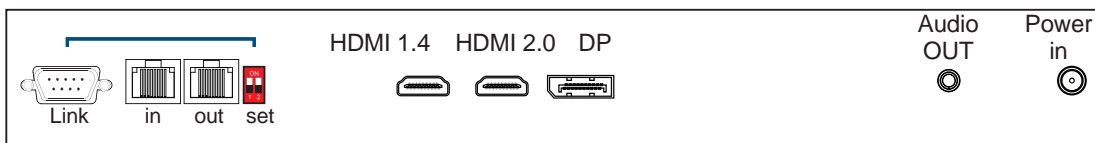


More control is always good. Especially when it is necessary and easy. Synergy Global Technology provides MC solution to control the OSD of various Industrial LCD displays up to 64 units.

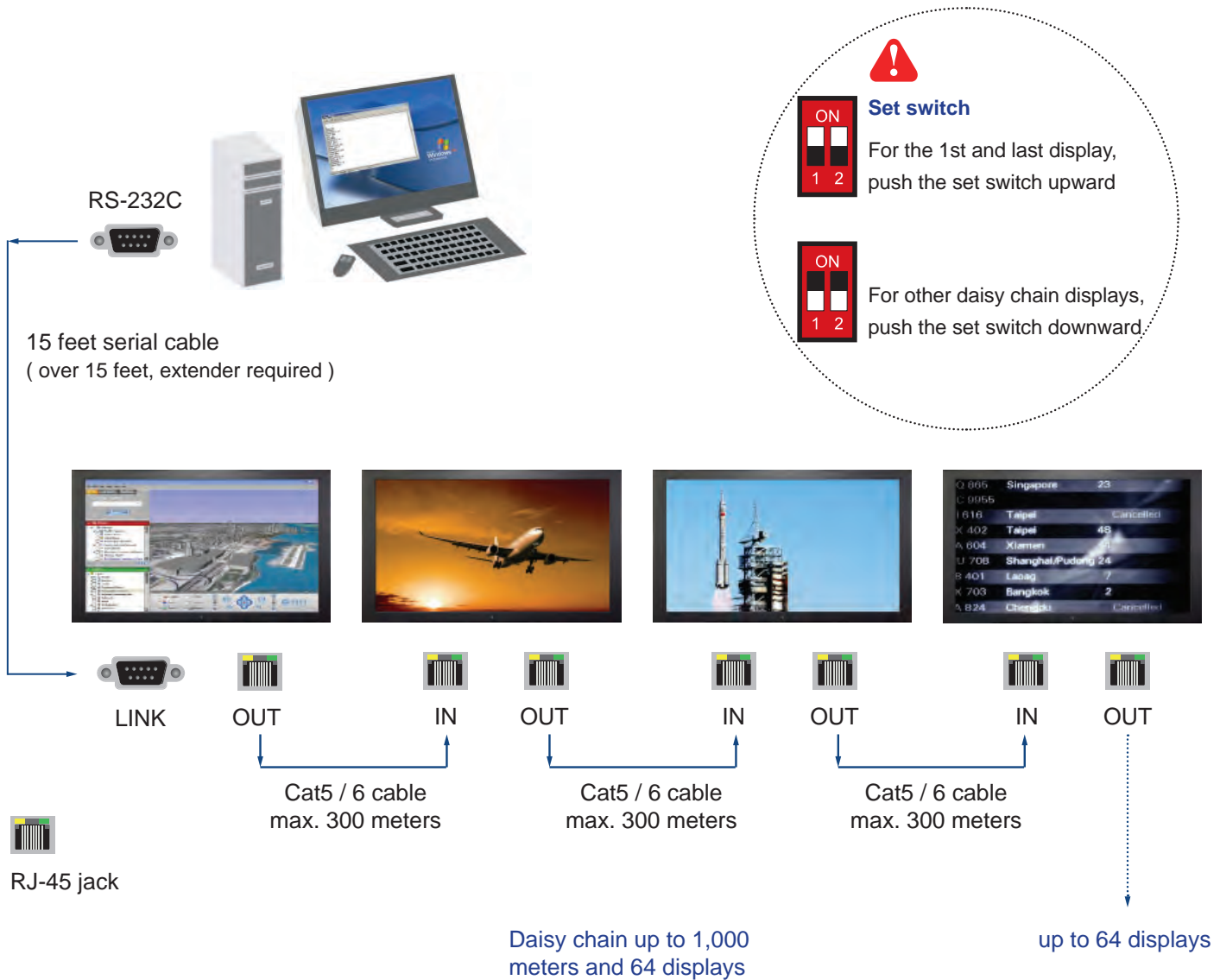
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

Designed for use with our Industrial LCD displays, we provide a MC input module without using additional space or power.

MC



*** Please download the protocol of MC control at :
<http://www.rackmountmart.com/downloads.html>



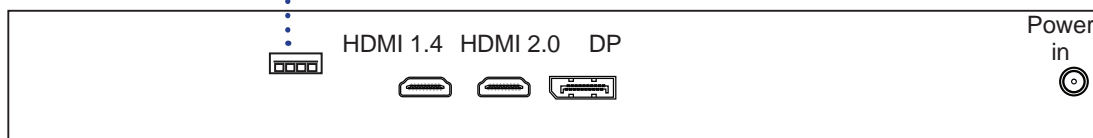
< 3.4 > Options : Touchscreen & driver

23" USB Touchscreen Specification

| Model | TPC | Multi-touch | TRB | Resistive |
|----------------------|--|-------------|---------------------------------|-----------|
| Technology | Projected Capacitive | | 5-Wire Resistive | |
| Touch Point | 10 point touch standard (special requirement available) | | Single | |
| Input Type | Finger or Capacitive Stylus | | Finger or Stylus | |
| Resolution | 4096 x 4096 | | 2048 x 2048 | |
| Touch Point Accuracy | ± 2 mm | | - | |
| Response Speed | < 5 ms | | 15 ms | |
| Activation Force | < 5 g | | ≤ 50 g | |
| Surface Hardness | 6H | | 3H | |
| Light Transmission | > 85% | | 80% ± 3% | |
| Haze | 3%↓ | | 8% ± 3% | |
| Durability | 50 million touches | | 10 million touches | |
| Top Layer | 3 mm Glass | | ITO Film | |
| Bottom Layer | 0.7 mm Sensor Glass | | ITO Glass | |
| Thickness | 3.9 ± 0.1 mm | | 2.2 ± 0.2 mm | |
| Connector | USB | | USB Type A | |
| Compatibility | Windows 7 / XP / Linux / Mac | | Windows / Linux / Android / Mac | |

- Dimension will be changed if Multi-touch required
- 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



< 3.4 > Options : Touchscreen & driver

TPC Driver



Connect the USB cable from the USB port on the LCD to a computer. The touch screen supports easy Plug-and-Play operations. There is no need to install additional drivers on the computer.

TRB Driver

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

Step 1. Run the bundled CD disc or download the driver from the link below :

<http://www.rackmountmart.com/downloads.html>

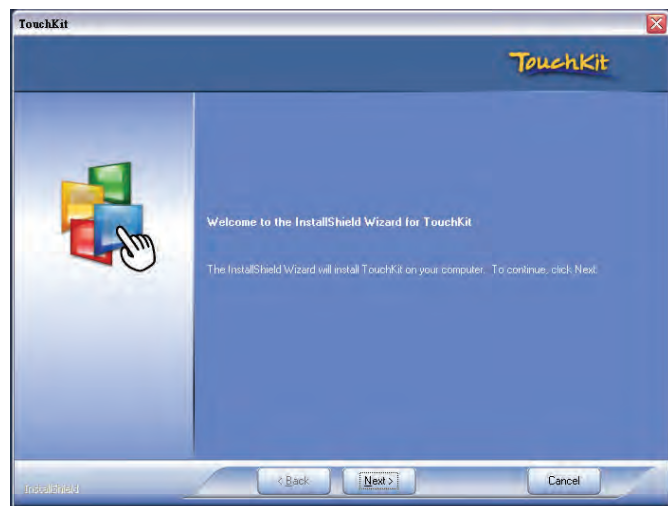
Step 2. Double click the Setup.exe

Step 3. Follow the installation instruction to finish the setup

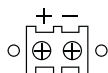
Step 4. After installation, run the TouchKit program & the “4 point calibration”



Please do the initial calibration after the first setup



< 3.5 > Options : DC Power



| Model | 12V | 24V | 48V | 125V | 250V |
|----------------------|---------|----------|----------|-----------|------------|
| Input rating | | | | | |
| Input voltage: | 12-Volt | 24-Volt | 48-Volt | 110-Volt | 300-Volt |
| Input range: | 9 ~ 18V | 18 ~ 36V | 36 ~ 75V | 66 ~ 160V | 180 ~ 425V |
| Input current | | | | | |
| - No load | 50 mA | 50 mA | 50 mA | 35 mA | 10 mA |
| - Full load | 4950 mA | 2450 mA | 1220 mA | 749 mA | 600 mA |
| Output rating | | | | | |
| Output voltage: | 12-Volt | 12-Volt | 12-Volt | 12-Volt | 12-Volt |
| Output current: | 4.16A | 4.16A | 4.16A | 6.25A | 12.5A |
| Efficiency | 84% | 85% | 85% | 91% | 86% |



*** For DC power option :

(1) If the unit with LCD, earthing may be required 

< 3.6 > Options : MIL-type or Lockable Connector

| | Input | Part no. | MIL Standard |
|-----------------------------|--------------------------|---|-------------------|
| MIL - type Connector | DC Power *** (Male) | MS3470W8-33P  | MIL - DTL - 26482 |
| | VGA *** (Male) | MS3470W14-15P  | MIL - DTL - 26482 |

*** There are several additional MIL DC and VGA connector types with varying design characteristics to meet cost considerations and to provide users with the most design flexibility possible. For more information, please contact us.

| | Input | Part no. | Standard |
|---------------------------|----------------------|--|------------|
| Lockable Connector | DC Power (Male) | YM-Ext-461CP001  | D-type 3W3 |
| | USB | LUSB - A111 - 00  | - |

*** MIL - type or Lockable connectors above can be integrated with our LCD displays. Sale service just for connectors not provided.

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