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# User Manual 17" / 19" LED-backlit LCD



# LCD1U17-013 / LCD1U19-012

1U LED-backlit LCD Drawer

Options : - AV / DVI-D / Audio - Touchscreen - SDI - DC power



## Legal Information

First English printing, January 2024

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.
  - $\hfill\square$  Repair or attempted repair by anyone not authorized by us.
  - □ Any damage of the product due to shipment.
  - □ Removal or installation of the product.
  - $\hfill\square$  Causes external to the product, such as electric power fluctuation or failure.
  - $\hfill\square$  Use of supplies or parts not meeting our specifications.
  - $\Box$  Normal wear and tear.
  - $\hfill\square$  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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|   | Speaker, DVI-D, BNC<br>Touchscreen : Projected Capacitive (10-point touch)<br>Resistive / Capacitive (1-point touch) |

# **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

# A 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 > LCD1U17-013 / LCD1U19-012 < 1.1 > Package Content

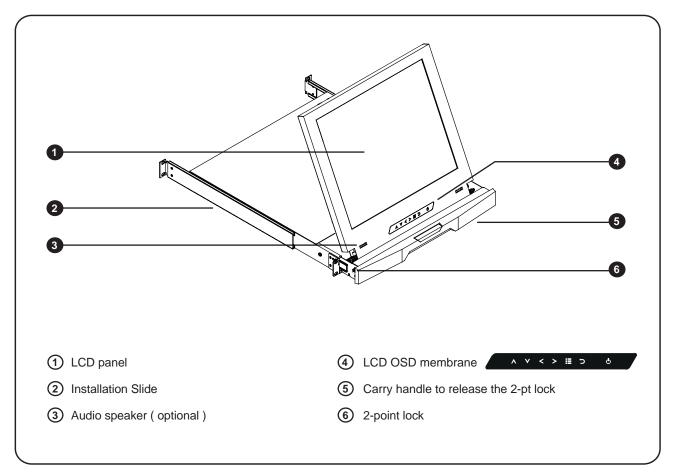
# wvens osemaricom

## LCD1U17-013 or LCD1U19-012 unit X 1

- 6ft VGA cable X 1
- Power cord X1
- M6 screw, cage nut & cup washer X8

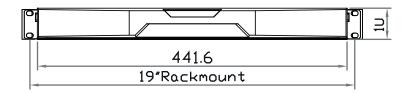
The above package content is only for the pure model (VGA and HDMI only). It varies with options such as DVI-D, AV, audio, touchscreen & DC power.

# < 1.2 > Structure Diagram



# < 1.3 > Dimension

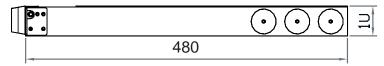
## **Front View**



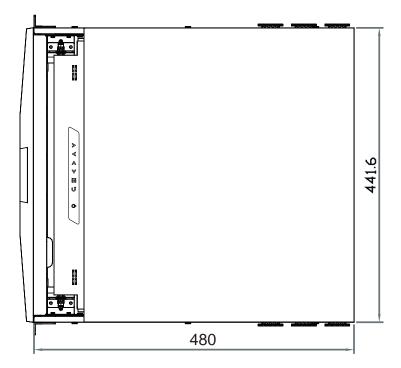
## **Rear View**



## **Side View**



## **Top View**

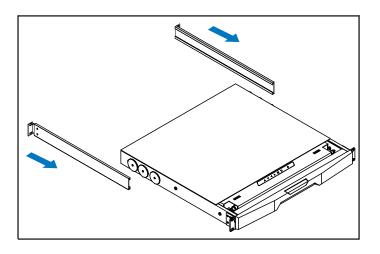


| Model       | Product Dimension<br>(W x D x H)               | Net Weight         |
|-------------|--|--------------------|
| LCD1U17-013 | 441.6 x 480 x 44 mm<br>17.4 x 18.9 x 1.73 inch | 10.5 kg<br>23.1 lb |
| LCD1U19-012 | 441.6 x 480 x 44 mm<br>17.4 x 18.9 x 1.73 inch | 12.5 kg<br>27.5 lb |

UNIT : mm 1mm = 0.03937 inch

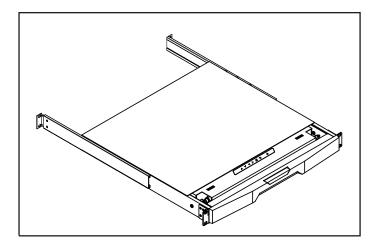
The weight is only for the pure models. It varies with accessories & options such as DVI-D, AV, audio, touchscreen & DC power.

# < 1.3 > Installation - How to install Installation Slides



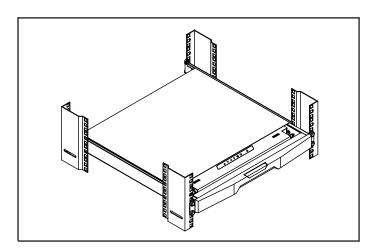


Insert the left and right rear mounting brackets into the display drawer.



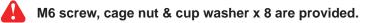


- Measure the depth of the front and rear mounting rails.
- Align each rear mounting bracket to a suitable length.





Fix the display drawer into the rack.





### After use the drawer

Basically, user can push in the drawer back to park position by releasing the left & right slide lock arrow (as long as the drawer starts moving, he/she can release their finger right away, holding the arrow is not necessary).

# < Part 2 > Specifications / OSD

# < 2.1 > Product Specifications

| LED-backlit LCD Panel |                                | LCD1U17-013                          | LCD1U19-012                          |
|-----------------------|--------------------------------|--------------------------------------|--------------------------------------|
|                       | Manufacturer                   | <b>VNO</b>                           | <b>NNO</b>                           |
|                       | Panel Size ( diagonal )        | 17-inch TFT color<br>LED-backlit LCD | 19-inch TFT color<br>LED-backlit LCD |
|                       | Display pixel ( dots x lines ) | 1280 x 1024                          | 1280 x 1024                          |
|                       | Brightness ( typ. )            | 250                                  | 250                                  |
|                       | Contrast Ratio ( typ. )        | 1000:1                               | 1000:1                               |
|                       | Color                          | 16.7 M                               | 16.7 M                               |
|                       | Viewing Angle ( L/R/U/D )      | 85/85/80/80                          | 85/85/80/80                          |
|                       | Response Time ( ms )           | 5                                    | 5                                    |
|                       | Dot pitch (mm)                 | 0.264                                | 0.294                                |
|                       | Display Area (mm)              | 337.92H x 270.33V                    | 376.32H x 301.06V                    |
|                       | Surface treatment              | Haze 25%, I                          | Hard-coating                         |
|                       | Surface hardness               | 3H                                   | 3Н                                   |
|                       | Backlight Type                 | LED                                  | LED                                  |
|                       | MTBF ( hrs )                   | 30,000                               | 30,000                               |

| Video        | Digital         | HDMI              | HDMI 1.4, HDCP 1.4        |
|--------------|-----------------|-------------------|---------------------------|
| Connectivity |                 | DVI               | DVI-D, TMDS single link   |
|              | Analog          | VGA               | Analog 0.7Vp-p            |
|              |                 | Composite (BNC)   | NTSC & PAL                |
|              |                 | S-Video ( 4-pin ) | NTSC & PAL                |
|              | Plug & Play     | DVI / VGA         | VESA EDID structure 1.3   |
|              | Synchronization | VGA               | Separate, Composite & SOG |

| Audio        | Audio Input  | Connector                | 3.5mm stereo jack |
|--------------|--------------|--------------------------|-------------------|
| Connectivity |              | Impedance / Power level  | 30kΩ / 750mV      |
|              | 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,<br>50 / 60Hz |
|-------|-------------------|-------------------|--|
|       | Power Consumption | Screen ON         | Max. 22W                                 |
|       |                   | Power saving mode | Max. 2W                                  |
|       |                   | Power button OFF  | Max. 1W                                  |

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

| Environmental | Operating               | Temperature | 0 to 55°C degree                 |
|---------------|-------------------------|-------------|----------------------------------|
| Conditions    |                         | 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<br>Specification |                     | LCD1U17-013             | LCD1U19-012             |  |
|---------------------------|---------------------|-------------------------|-------------------------|--|
| Specification             | Product (W x D x H) | 441.6 x 480 x 44 mm     | 441.6 x 480 x 44 mm     |  |
|                           |                     | 17.4 x 18.9 x 1.73 inch | 17.4 x 18.9 x 1.73 inch |  |
|                           |                     |                         |                         |  |
|                           |                     |                         |                         |  |
|                           | Net Weight          | 10.5 kg / 23.1 lb       | 12.5 kg / 27.5 lb       |  |
|                           |                     |                         |                         |  |

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

| Annlinghle |                   | DC Circal    |                                       |
|------------|-------------------|--------------|---------------------------------------|
| Applicable | DVI-D / VGA Input | PC Signal    | 1280 x 1024 x 60 / 75Hz               |
| Format     |                   |              | 1280 x 960 x 60Hz                     |
|            |                   |              | 1280 x 768 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                      |
|            | HDMI Input        | PC Signal    | Same as VGA                           |
|            |                   | Video Signal | 720p : 50 / 60Hz                      |
|            |                   |              | 480p : 60Hz                           |
|            |                   |              | 576p : 50Hz                           |
|            |                   | Audio Signal | 2ch Linear PCM ( 32 / 44.1 / 48 KHz ) |

# < 2.2 > On-screen Display Operation ( OSD )

| Membrane Switch                         | Function  |  |  |  |
|---|---|--|--|--|
| Ċ                                       | Turn the monitor on or off  |  |  |  |
|   | Display the OSD menu<br>Act as an Enter key to select screen setting options  |  |  |  |
| $\land ~ \lor ~ \lessdot ~ \mathrel{>}$ | Scroll through menu options and adjust the displayed control  |  |  |  |
| Ć                                       | Exit the OSD screen<br>Go back to the previous on-screen sub-menu or<br>main menu   |  |  |  |
| -                                       | WHITE light.<br>buch button will flash continuously when there is no signal input.<br>matically turn off after 10 minutes of idle status (except the <b>Power (</b> |  |  |  |

# < 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

| H-Position   | : To adjust the horizontal position of the video |
|--------------|--|
| V-Position   | : To adjust the vertical position of the video   |
| Clock        | : To auto adjust H. Size of the screen           |
| Phase        | : To fine tune the screen.                       |
| Picture size | : FULL SCREEEN / 4:3 / 5:4 / 16:10               |

# 3 Color

| Color temperature | User / Warm / Cool / 5400k mode and<br>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

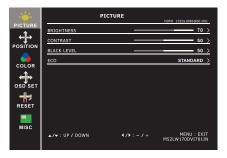
| Language         | : Select the language in which the OSD menu i<br>displayed - English |  |
|------------------|--|--|
| OSD H-Position   | : Align the screen image left or right                               |  |
| OSD V-Position   | : Align the screen image up or down                                  |  |
| OSD time out     | : Adjust the screen timeout  |  |
| OSD transparency | : Adjust the screen transparency                                     |  |
| OSD rotation     | : Rotate the screen - 90° / 180° / 270°                              |  |

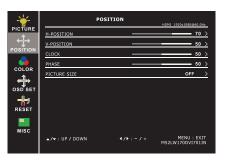
## **5** Reset

Reset : Return the adjustment back to factory setting

## 6 MISC

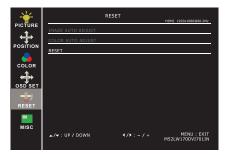
| Signal source : Select the signal source - DP / HDMI1 / HDMI2 |   |  |  |  |
|---|---|--|--|--|
| Mute  | : Turn off the surrounding sound  |  |  |  |
| Audio in  | : Auto / Line in / DP   |  |  |  |
| Volume  | : Adjust the volume of sound  |  |  |  |
| Sleep mode  | : Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min |  |  |  |

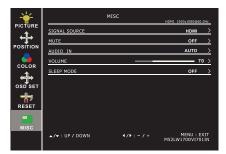




|          | COLOR                    | HDMI 1920x1080@60.0Hz           |
|----------|--------------------------|---------------------------------|
| PICTURE  | COLOR TEMPERATURE        | WARM >                          |
| -+}-     | SHARPNESS                | 48 >                            |
| POSITION | HUE                      | 50 >                            |
| COLOR    | SATURATION               | 50 >                            |
|          | DYNAMIC LUMINOUS CONTROL | OFF >                           |
| OSD SET  |                          |                                 |
| RESET    |                          |                                 |
| MISC     |                          |                                 |
|          | ▲/▼: UP / DOWN           | MENU : EXIT<br>M52LW170DVI701IN |

| - <del>`</del> #- | OSD S            | ET                  | HDMI 1920×1080@60.0Hz           |
|-------------------|------------------|---------------------|---------------------------------|
| PICTURE           | LANGUAGE         |                     |                                 |
| +                 | OSD H-POSITION   |                     | <b></b> 50 >                    |
| POSITION          | OSD V-POSITION   |                     | 50 >                            |
| - <b>-</b>        | OSD TIME OUT     |                     | 100 >                           |
| COLOR             | OSD TRANSPARENCY | _                   | 0 >                             |
| ****              | OSD ROTATION     |                     | OFF >                           |
| OSD SET           |                  |                     |                                 |
| RESET             |                  |                     |                                 |
| MISC              |                  |                     |                                 |
|                   | ▲/♥: UP / DOWN   | <b>∢/</b> ▶ : = / + | MENU : EXIT<br>M52LW170DV1701IN |





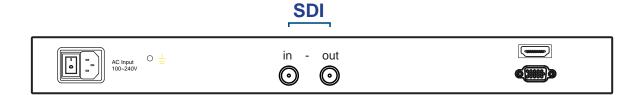
# < Part 3 > Options < 3.1 > Options : 3G / HD / SD-SDI input



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

Designed for use with SiriusView displays, a SDI input module can support up to 1080p @60Hz resolution without using additional space or power.

\* SDI option comes with speakers.



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

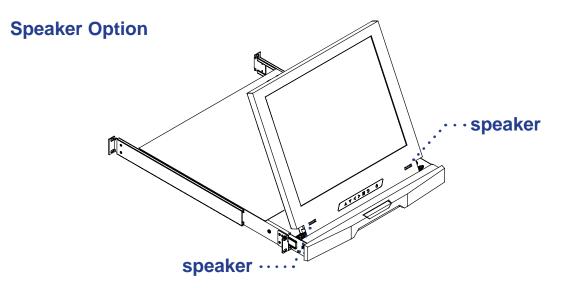
| Standard Compliance | Video | SMPTE 425M / 274M / 296M / 125M<br>ITU-R BT.656 |  |
|---------------------|-------|---|--|
|                     | Audio | SMPTE 299M / 272M-C                             |  |

| Compatible Video Format | 3G-SDI<br>HD-SDI | 1080p<br>1080p<br>1080i<br>720p<br>1080p<br>1080i<br>720p | <pre>@60 / 50Hz, 4:2:2 @ 30 / 25 / 24Hz, 4:4:4 @ 60 / 50Hz, 4:4:4 @ 60 / 50Hz, 4:4:4 @ 30 / 25 / 24Hz, 4:2:2 @ 60 / 50Hz, 4:2:2 @ 60 / 50Hz, 4:2:2</pre> |
|-------------------------|------------------|---|--|
|                         | SD-SDI           | 480i  | @60Hz, 4:2:2   |
|                         | ITU-R BT.656     | 576i  | @50Hz, 4:2:2   |

| 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 / Asyn-<br>chronized Video |
|        | HD-SDI   |

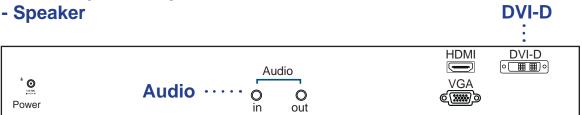
| Max. Transmission Distance<br>75 ohm coaxial cable | 3G-SDI | 150m at 2.97Gb/s  |  |
|--|--------|-------------------|--|
|  | HD-SDI | 250m at 1.485Gb/s |  |
|  | SD-SDI | 480m at 270Mb/s   |  |

# < 3.2 > Options : Speaker, DVI-D, BNC



# **DVI-D Option**

- DVI-D ( DVI-D, TMDS single link )
- Audio input & output
- Speaker



# **BNC Option**

- BNC (S-Video + Composite, BNC)

| - Speaker    | S-Video | + BNC           |
|--------------|---------|-----------------|
| * O<br>Power | S-Video | HDMI<br>BNC VGA |

# < 3.3 > Options : Touchscreen & driver



## **Projected Capacitive 10-pt Touch screen Specification**

|                      | LCD1U17-013                     |  |  |
|----------------------|---------------------------------|--|--|
| Model                | TPC Multi-touch                 |  |  |
| Technology           | Projected Capacitive            |  |  |
| Touch Point          | 10                              |  |  |
| Input Type           | Finger or Capacitive Stylus     |  |  |
| Resolution           | 4096 x 4096                     |  |  |
| Touch Point Accuracy | ± 2 mm                          |  |  |
| Response Speed       | < 5 ms                          |  |  |
| Activation Force     | < 5 g                           |  |  |
| Surface Hardness     | 6H                              |  |  |
| Light Transmission   | > 85%                           |  |  |
| Haze                 | 3%↓                             |  |  |
| Durability           | 50 million touches              |  |  |
| Top Layer            | 1.8 mm Glass                    |  |  |
| Bottom Layer         | 0.7 mm Sensor Glass             |  |  |
| Thickness            | 2.7 ± 0.1 mm                    |  |  |
| Connector            | USB                             |  |  |
| Compatibility        | Linux / Android / Windows / Mac |  |  |

# Resistive 1-pt / Capacitive 1-pt Touch screen Specification

| Model                 | LCD1U17-013                         | LCD1U19-012         | LCD1U17-013    |  |
|-----------------------|-------------------------------------|---------------------|----------------|--|
|                       | TRB Resistive                       |                     | TCB Capacitive |  |
| Technology            | 5-Wire F                            | Capacitive          |                |  |
| Touch Point           | Sin                                 | Single              |                |  |
| Method                | Stylus o                            | Finger              |                |  |
| Activation Force      | $\leq$ 50g / Stylus=R0.8 $\leq$ 50g |                     | ≤ 50g          |  |
| Durability            | 35 millior                          | 300 million touches |                |  |
| Response Time         | 15                                  | 20 ms               |                |  |
| Optical Transmittance | 80% ± 3%                            |                     | 93% ±2%        |  |
| Surface Hardness      | 3Н                                  |                     | 9H             |  |
| Haze                  | 8% ± 3%                             |                     | 7%             |  |
| Glass                 | 1.4 ±0.2 mm                         | 3.2 ±0.2 mm         | 2.8 mm ±10%    |  |
| Connector             | USB 1                               | USB Type A          |                |  |
| Compatibility         | Windows 7 / XP / Vista, Linux       |                     |                |  |

■ 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

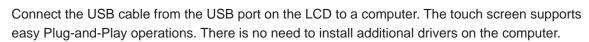
■ As the touchscreen unit is not made of toughened glass, please handle it carefully

# < 3.3 > Options : Touchscreen & driver

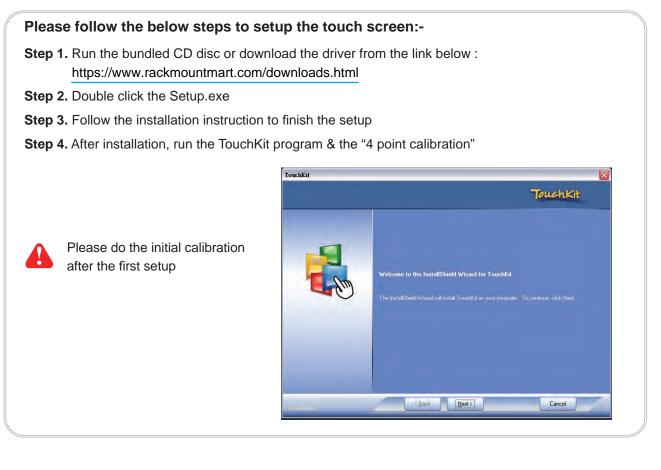
# **USB Touchscreen**

| * ©   |     |
|-------|-----|
|       | VGA |
| Power | e() |
|       |     |

## **TPC Driver**



## **TRB & TCB Driver**



# < 3.4 > 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%        |

# DC power

| ÷          | HDMI     |
|------------|----------|
| စမြိုမျိုစ | VGA<br>¢ |

- **\*\*\*** For DC power option :
  - (1) If the unit with LCD, earthing may be required
  - (2) DC option excludes AC power adapter and power cord.

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