

USER MANUAL

User Manual

17" / 19" LCD



NX117 / NX119
1U LCD Console Drawer

Options :

- AV / DVI-D / HDMI / Audio
- Full Range KVM
- DC power



Contents

< Part. 1 > NX117 / NX119

- | | | |
|-----|-------------------------------|---------|
| 1.1 | Package Content | P.1 |
| 1.2 | Structure Diagram & Dimension | P.1 - 2 |
| 1.3 | Installation | P.3 - 4 |
| 1.4 | Connection | P.5 |

< Part. 2 > Specifications / OSD


- | | | |
|-----|-------------------------------------|---------|
| 2.1 | Product Specifications | P.6 - 7 |
| 2.2 | Keyboard / Mouse Specifications | P.8 P.9 |
| 2.3 | On-screen Display Operation (OSD) | - 10 |


< Part. 3 > Options


- | | | |
|-----|------------------------------------|------|
| 3.1 | HDMI, DVI-D, S-Video + BNC & Audio | P.11 |
| 3.2 | 48V, 24V or 12VDC power | P.12 |

Contents


< Part. 4 > KVM Integration


| Matrix Cat6 KVM | Local | Remote |  | 8-port | 16-port | 32-port |
|--------------------|-------|--------|---|--------|------------------------|------------------------|
| | 1 | 1 | 1 | - | MC1116 | MC1132 |
| | 1 | 1 | 2 | - | MC2116 | MC2132 |
| | 1 | 1 | 0 | - | MC0116 | MC0132 |
| | 1 | 2 | 0 | - | MC0216 | MC0232 |
| | 1 | 3 | 0 | - | MC0316 | MC0332 |

| Combo Cat6 KVM | Local | Remote |  | 8-port | 16-port | 32-port |
|-------------------|-------|--------|---|--------|---------|---------|
| | 1 | 0 | 1 | CIP8 | NCIP16 | CIP32 |
| | 1 | 1 | 0 | NCCE8 | CCE16 | CCE32 |
| | 1 | 0 | 0 | C8 | C16 | C32 |

| Matrix DB-15 KVM | Local | Remote |  | 8-port | 16-port | 32-port |
|---------------------|-------|--------|---|-----------------------|-----------------------|---------|
| | 1 | 1 | 1 | M118 | M1116 | - |
| | 1 | 1 | 2 | M218 | M2116 | - |
| | 1 | 1 | 0 | M018 | M0116 | - |
| | 1 | 2 | 0 | M028 | M0216 | - |
| 1 | 3 | 0 | M038 | M0316 | - | |

| Combo DB-15 KVM | Local | Remote | | 8-port | 16-port | 32-port |
|--------------------|-------|--------|---|--------|---------|---------|
| | 1 | 0 | 1 | 82 | 162 | |
| | 1 | 1 | 0 | CE8 | CE16 | |
| | 1 | 0 | 0 | S801 | S1601 | |

| PS/2 DB-15 KVM | Local | Remote |  | 8-port | - | - |
|-------------------|-------|--------|---|--------|---|---|
| | 1 | 0 | 0 | -801 | - | - |

| DVI-D KVM | Local | Remote |  | 12-port | - | - |
|--------------|-------|--------|---|---------|---|---|
| | 1 | 0 | 0 | -D12 | - | - |

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

NX117/119

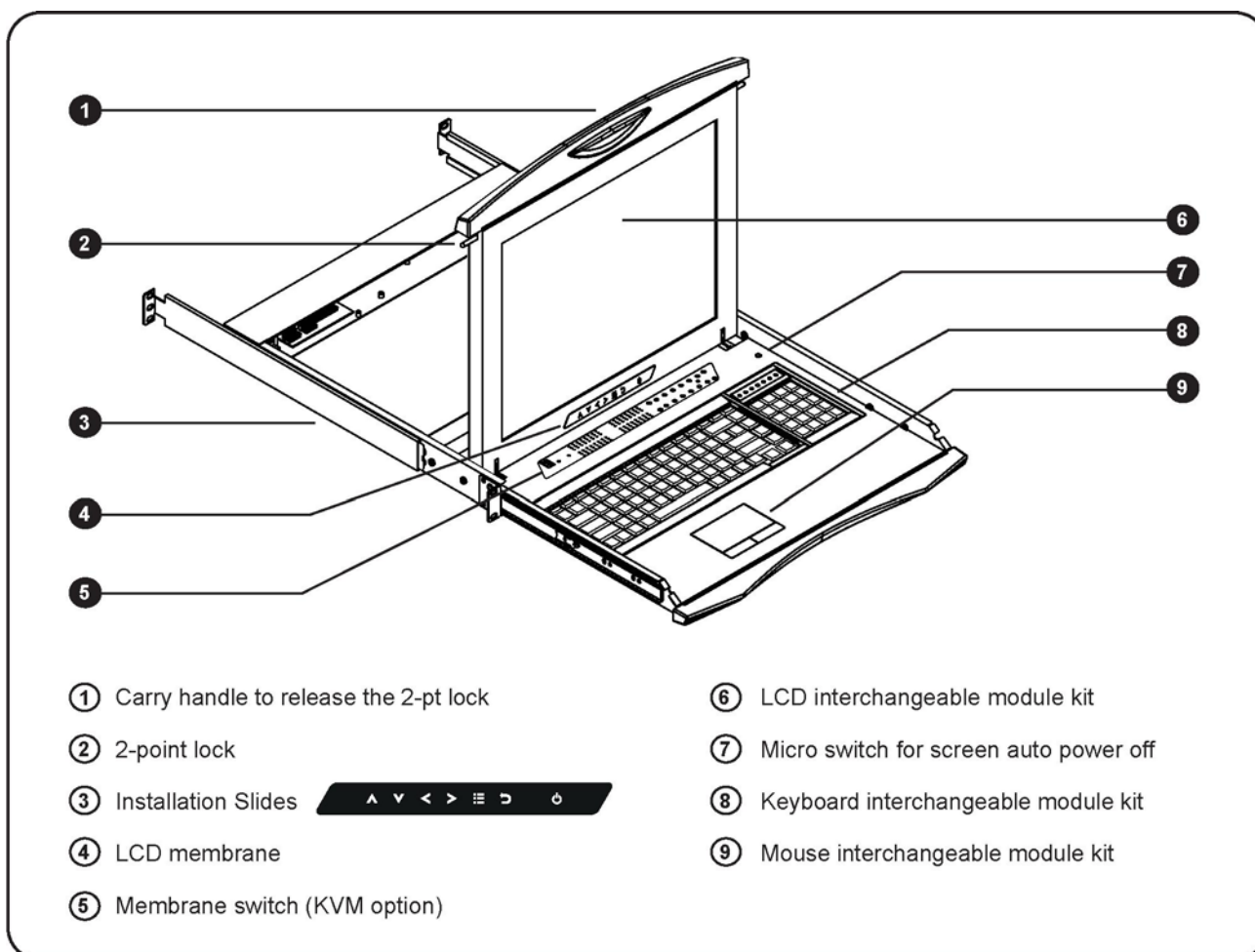
**NX117 or NX119 unit X 1**

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



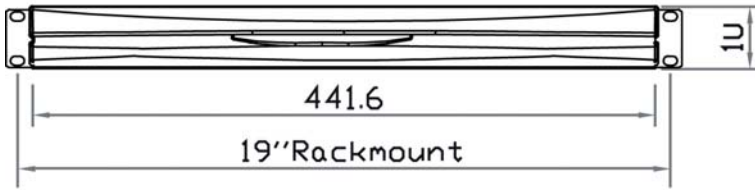
The above package content is only for the single console models.
It varies with options such as KVM, HDMI, DVI-D, AV, audio & DC power.

< 1.2 > Structure Diagram

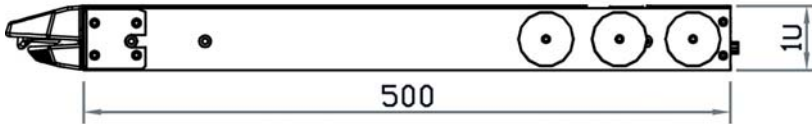


< 1.2 > Dimension

Front View

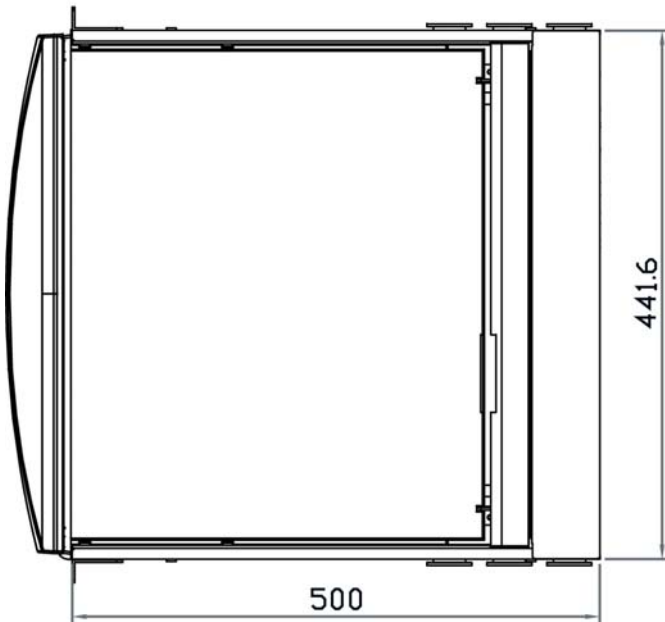


Side View



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 |
|---------------------|--|--|--------------------|------------------|
| NX117 series | 441.6 x 500 x 44 mm 17.4 x 19.7 x 1.73" | 590 x 823 x 140 mm 23.2 x 32.4 x 5.5" | 12.3 kg 27.1 lb | 16.5 kg 36 lb |
| NX119 series | 441.6 x 500 x 44 mm 17.4 x 19.7 x 1.73" | 590 x 823 x 140 mm 23.2 x 32.4 x 5.5" | 12.5 kg 27.5 lb | 17 kg 37.4 lb |

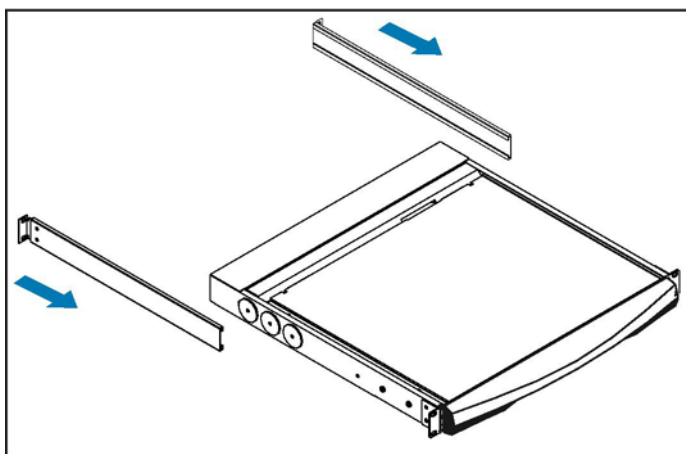


The weight is only for the single console models. It varies with accessories & options such as KVM, HDMI, DVI-D, AV, audio & DC power.

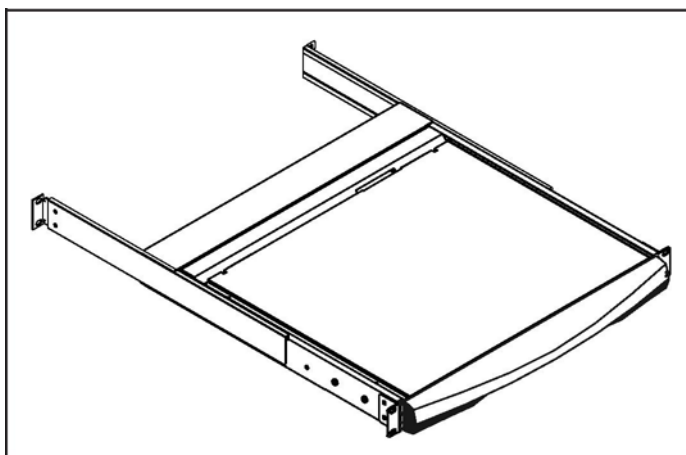
< 1.3 > Installation - How to install

Installation Slides

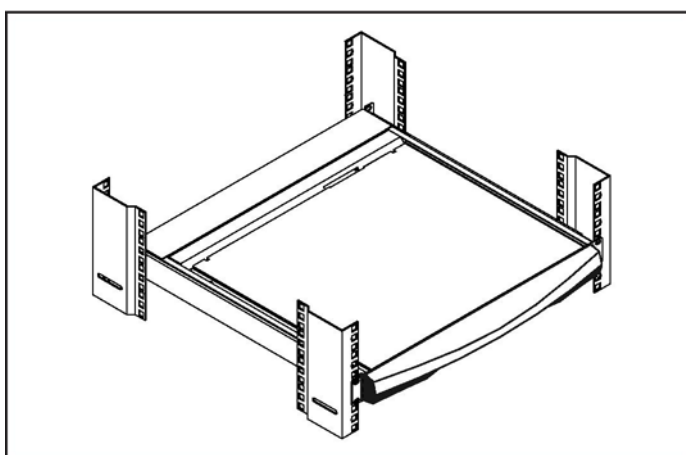
NX117 / 119

**Step 1**


- Insert the left and right rear mounting brackets into the LCD console drawer.

**Step 2**

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

**Step 3****Complete the installation**

- Fix the LCD console drawer into the rack.

 M6 screw, cage nut & cup washer x 8 are provided.

< 1.3 > Installation- How to use the drawer



- Pull the tab on the front handle and gently slide out the drawer.



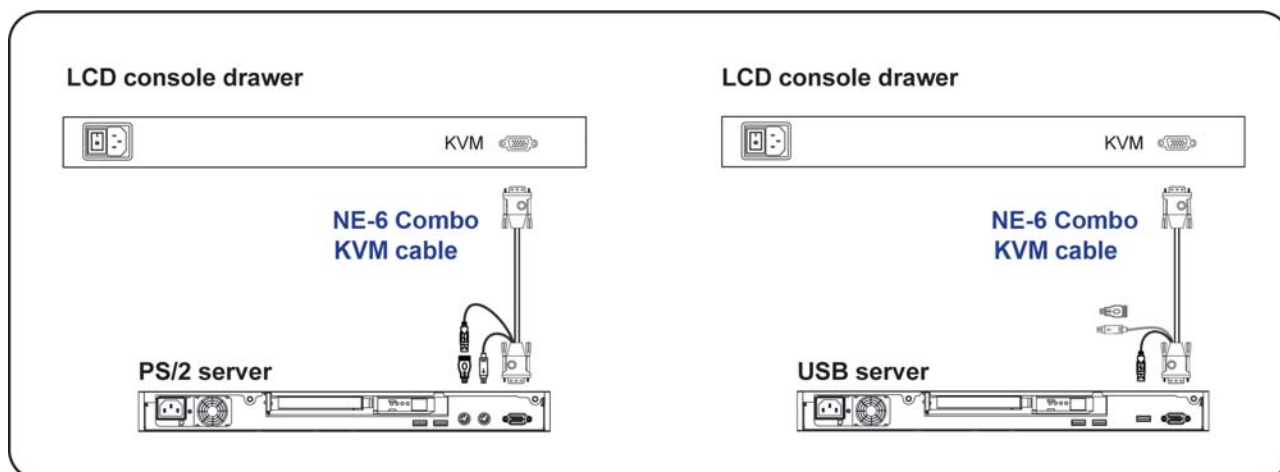
- Flip up the LCD to a suitable angle.



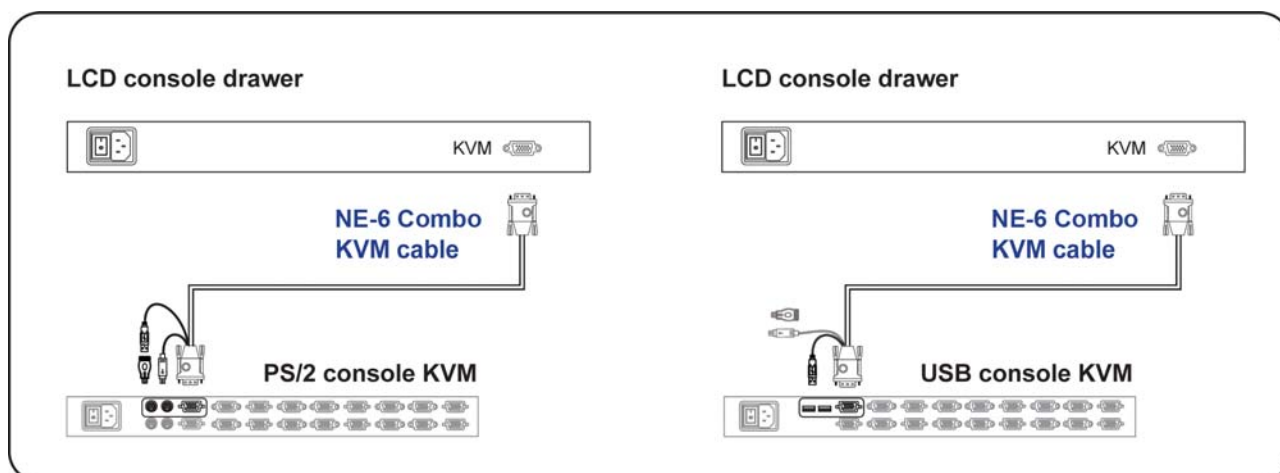
- Operate the LCD console drawer

< 1.4 > Connection to PS/2 or USB Server

NX117 / 119



< 1.4 > Connection to external KVM



Caution : The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting to connect anything to the LCD console drawer, we suggest turning off the power to all devices. Apply power to connected devices again only after the LCD console drawer is receiving power. The company is not responsible for damage caused in this way.

<Part 2 >

< 2.1 > Product Specifications

| LCD Panel | | NX117 | NX119 |
|--------------------------------|------------------------|-----------------------|-----------------------|
| | Manufacturer | | AUO |
| Panel Size (diagonal) | | 17-inch TFT color LCD | 19-inch TFT color 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) | | 80/80/80/80 | 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%, Hard-coating | | |
| Surface hardness | | 3H | 3H |
| Backlight Type | | CCFL | LED |
| MTBF (hrs) | | 50,000 | 30,000 |

| | | | |
|--------------------|-------------|---------------------------|-------------------------|
| Video Connectivity | Digital | HDMI | HDMI 1.1, CEA-861-D |
| | | 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 Connectivity | Audio Input | Connector | 3.5mm stereo jack |
| | | Impedance / Power level | 30kQ / 750mV |
| | Audio Output | Connector | 3.5mm stereo jack |
| | | Resistance / Power level | 30kQ / 2.8V |
| | | Speaker Output | Power |

*When the audio output is connected, speaker output is OFF

| | | | |
|-------|-------------------|-------------------|---------------------------------------|
| Power | Power Supply | Range | Auto-sensing 100 to 240VAC, 50 / 60Hz |
| | Power Consumption | Screen display ON | 25W or less |
| | | Power saving mode | 4W or less |
| | | Power button OFF | 1W or less |

| | | |
|------------|-----------------|---------------------|
| Regulatory | Safety Approval | cUL, FCC & CE, RoHS |
|------------|-----------------|---------------------|

NX117 / 119

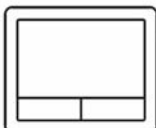
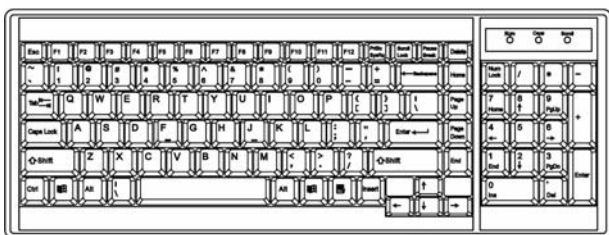
| | | | |
|---------------------------------|-----------|-------------|----------------------------------|
| Environmental Conditions | Operating | Temperature | 0 to 50°C degree |
| | | Humidity | 20~90%, non-condensing |
| | Storage | Temperature | -5 to 60°C degree |
| | | Humidity | 5~90%, non-condensing |
| | | Shock | 10G acceleration (11ms duration) |
| | | Vibration | 5~500Hz 1G RMS random |

| Physical Specification | | NX117 | NX119 |
|-------------------------------|-----------------------|--|--|
| | Product (W x D x H) | 441.6 x 500 x 44 mm 17.4 x 19.7 x 1.73 inch | 441.6 x 500 x 44 mm 17.4 x 19.7 x 1.73 inch |
| | Packing (W x D x H) | 590 x 823 x 140 mm 23.2 x 32.4 x 5.5 inch | 590 x 823 x 140 mm 23.2 x 32.4 x 5.5 inch |
| | Net Weight | 12.3 kgs / 27.1 lbs | 12.5 kgs / 27.5 lbs |
| | Gross Weight | 16.5 kgs / 36 lbs | 17 kgs / 37.4 lbs |

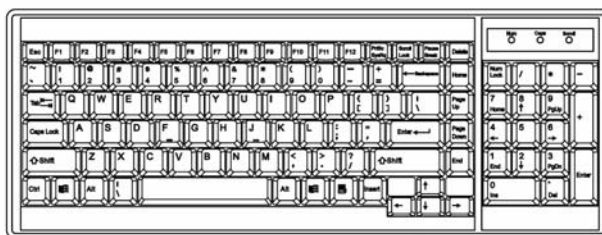
| | | | |
|--------------------------|-----------|-----------|-----------------------------|
| Applicable Format | VGA Input | PC Signal | 1280 x 1024 x 60 / 75Hz |
| | | | 1280 x 960 x 60Hz |
| | | | 1280 x 760 x 60 / 75Hz |
| | | | 1152 x 864 x 75Hz |
| | | | 1024 x 768 x 60 / 70 / 75Hz |
| | | | 848 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

e keyboard integrated with touchpad



b keyboard integrated with trackball



| | |
|----------------------------|--|
| Key force | 55 ± 5g |
| Travelling distance | 3 ± 0.3mm |
| Switch life | > 10 million life cycle time |
| Software support | 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)



NX117 / 119



| 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







Image:
for the brightness, contrast, color temp, red, green, and blue




Geometry:
for the auto adjust, H position, V position, phase and clock



Video:
for the colour, tint, sharpness, noise reduction, DCDi and TV Setup



Audio:
for volume, bass, treble, balance, AVL and mute



Misc:
for the language, OSD position, graphic mode, ratio, reset and timer

<Part 3 >

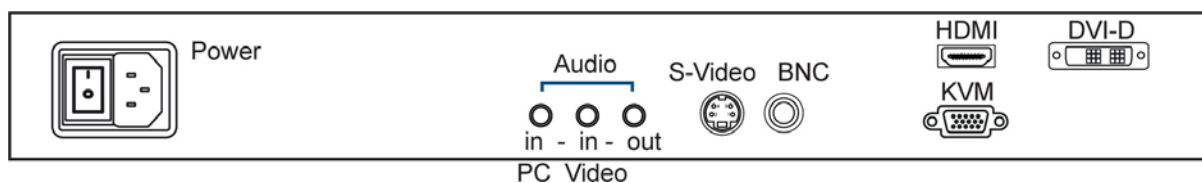
NX117 / 119

< 3.1 > Options :

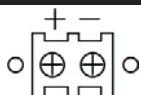
HDMI (HDMI 1.1, CEA-861-D)**DVI-D** (DVI-D TMDS single link)**AV** (S-Video + Composite, BNC)**Audio** (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)

(1) Either HDMI or DVI-D can be selected.

(2) For the above options, casing depth will be extended from 500mm (19.7") to 570mm (22.4")



< 3.2 > Options : DC Power



| Model | 12V | 24V | 48V |
|----------------------|---------|----------|----------|
| Input rating | | | |
| 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 |
| Output rating | | | |
| Output voltage: | 12-Volt | 12-Volt | 12-Volt |
| Output current: | 4.16A | 4.16A | 4.16A |
| Efficiency | 84% | 85% | 85% |

DC power



For DC power option:

(1) Option excludes 1 x power cord and 1 x AC power adapter.

(2) Casing depth will be extended from 500mm (19.7") to 570mm (22.4")



i-Tech Company LLC
TOLL FREE: (888) 483-2418
EMAIL: info@itechlcd.com
WEB: www.iTechLCD.com