

USER MANUAL

User Manual

19" High Brightness LCD 1000 cd/m²



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HNPW719

Rackmount Display Panel

Options:

- SDI / MCS
- AV / HDMI / Audio
- Touchscreen / DC power
- MIL-type or lockable connector

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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 fi nish.
- 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 microfi ber 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

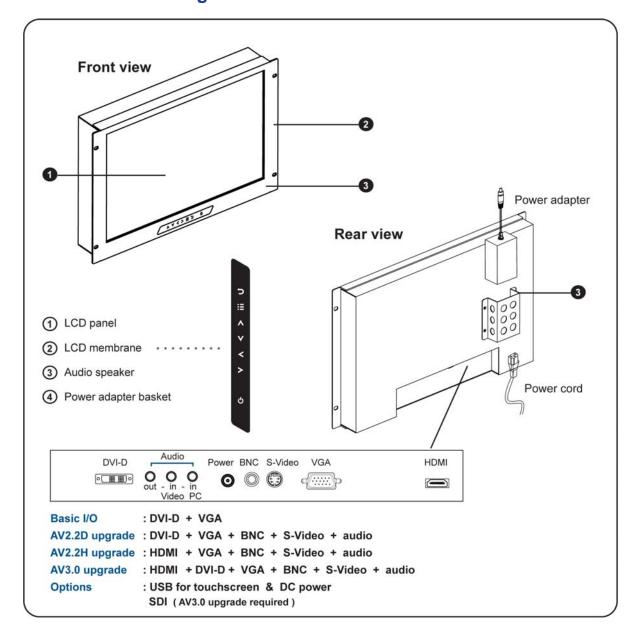


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HNPW719 unit X 1

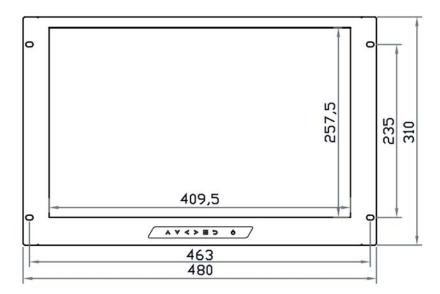
- 6ft VGA cable X 1
- Power adapter X 1
- Power cord X 1

< 1.2 > Structure Diagram

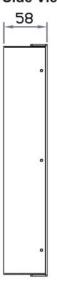


< 1.2 > Dimension

Front View

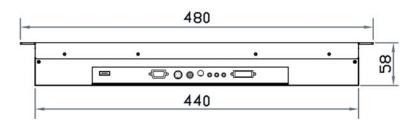


Side View



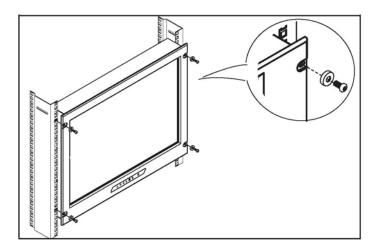
Bottom View

UNIT : mm 1mm = 0.03937 inch



Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
HNPW719	480 x 58 x 310 mm	529 x 124 x 451 mm	4.5 kg	6 kg
	18.9 x 2.3 x 12.2 inch	20.8 x 4.9 x 17.8 inch	9.9 lbs	13.2 lbs

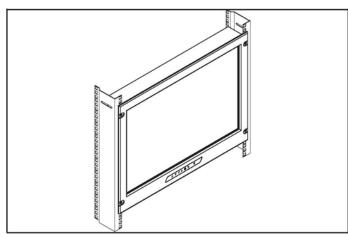
< 1.3 > Installation HNPW719



Step

- Mount the display panel with M6 screw set.
- M6 screw x 4 pcs required (Left & right side).

M6 screw sets are not provided.



Step

■ Fix the LCD into the rack.

< Part 2 >

< 2.1 > Product Specifications

LCD	Panel Size (diagonal)	19-inch Widescreen TFT color LCD
Panel	Display pixel (dots x lines)	1440 x 900
	Brightness (typ.)	1000
	Contrast Ratio (typ.)	1000:1
	Color	16.7 M
	Viewing Angle (L/R/U/D)	80/80/80
	Response Time (ms)	5
	Dot pitch (mm)	0.2835
	Display Area (mm)	408.24H x 255.15V
	Surface treatment	Haze 25%, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	50,000

Video	Digital	HDMI	HDMI 1.1, CEA-861-D
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	30kQ / 750mV
	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level	30kQ / 2.8V
	Speaker Output	Power	2 x 2W

^{*}When the audio output is connected, speaker output is OFF

Power	Power Supply	_	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen display ON	35W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

		_
Power	Safety Approval	cUL, FCC & CE, RoHS

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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 Specifi cation	Product (WxDxH)	480 x 58 x 310 mm 18.9 x 2.3 x 12.2 inch
	Packing (WxDxH)	529 x 124 x 451 mm
	Net Weight	20.8 x 4.9 x 17.8 inch 4.5 kgs / 9.9 lbs
	Gross Weight	6 kgs / 13.2 lbs

Applicable	DVI-D / VGA Input	PC Signal	1440 x 900 x 60Hz
Format			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 > On-screen Display Operation (OSD)



Membrane Switch	Function	
Ф	Turn the monitor on or off	
	Display the OSD menu Act as an Enter key to select screen setting option	
$\wedge $	Scroll through menu options and adjust the displayed control	
ð	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu	

Remark : All LED touch buttons in WHITE light.

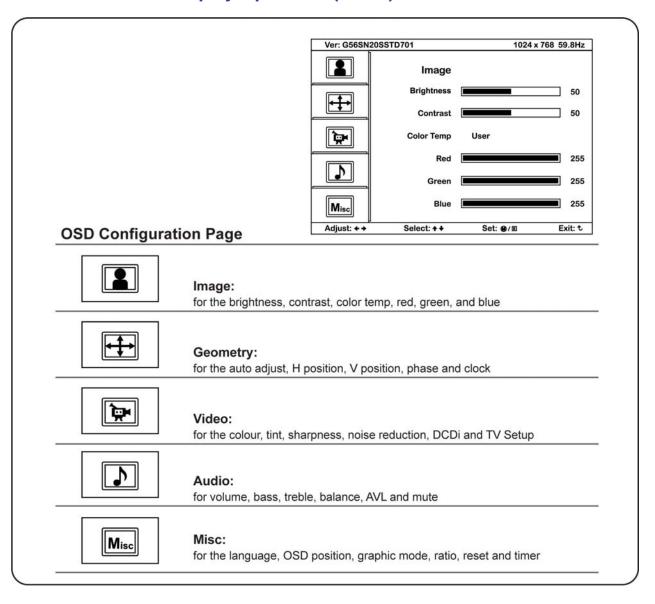
The LED of **Power** touch button will flash continuously when there is no signal input.

1 All the LED touch buttons will automatically turn off after 10 minutes of idle status (except the **Power** (b)).

2 Light up all membrane buttons, please press any button for 1 - 2 seconds (except the **Power**).

< 2.2 > On-screen Display Operation (OSD)

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<Part 3 >

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



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

Designed for use with NetView Full HD 1080p and ultra high resolution 1920 x 1200 LCD displays, ITech provides a SDI input module without using additional space or power and it comes standard with a 2-year warranty.

SDI



For **SDI** option, the AD board will be upgraded to AV3.0, and this comes standard with HDMI, DVI-D, VGA, S-Video, BNC and audio inputs.

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	3G-SDI	1080p @60 / 50Hz,	
Format		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	
Composible Audio	3G-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video	
Compatible Audio Format			
FUIIIal	HD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video	
	SD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized / Asynchronized	
		Video	
Max. Transmission	3G-SDI	150m at 2.97Gb/s	
Distance	HD-SDI	250m at 1.485Gb/s	
75 ohm coaxial cable	SD-SDI	480m at 270Mb/s	

< 3.2 > Options : MCS (Multi-display Control)

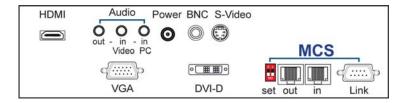


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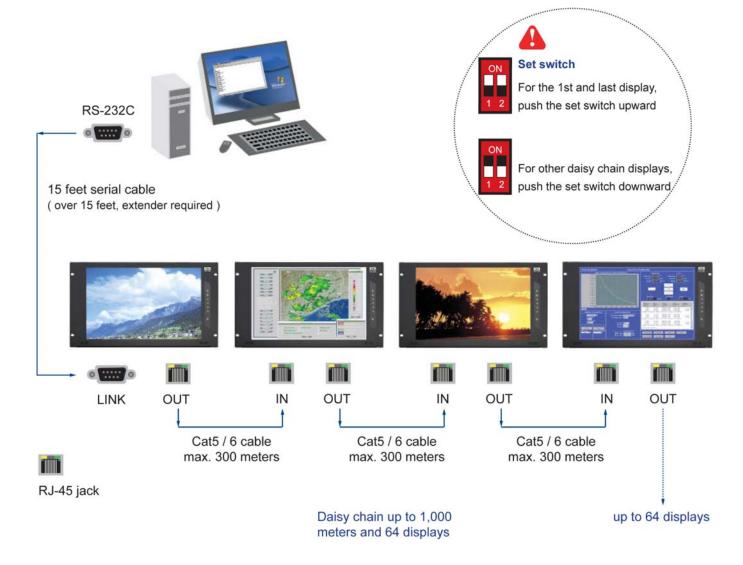
More control is always good. Especially when it is necessary and easy. ITech provides MCS solution to control the **OSD** of various NetView LCD display up to 64 units.

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 NetView LCD displays, ITech provides a MCS input module without using additional space or power and it comes standard with a 2-year warranty.

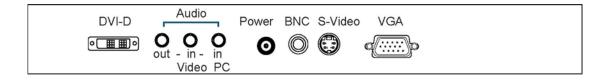


For MCS option, casing depth will be changed.



< 3.3 > AV2.2D Upgrade Options:

- **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)



< 3.4 > AV2.2H Upgrade Options :

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



< 3.5 > AV3.0 Upgrade Options :

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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)



< 3.6 > Options : Touchscreen & driver



HW19" USB Touchscreen Specification

Model	TRB e-Resistive	TCB e-Capacitive		
Technology	5-Wire Resistive	Capacitive		
Touch Point	Single	Single		
Method	Stylus or Finger	Finger		
Activation Force	< 50g / Stylus=R0.8	< 50g		
Durability	35 million touches	300 million touches		
Response Time	15 ms	20 ms		
Optical Transmittance	80% ± 3%	87% ±2%		
Surface Hardness	3H	9H		
Haze	8% ± 3%	7%		
Glass	3.2 ±0.2 mm	2.8 mm ±10%		
Connector	USB Type A			
Compatibility	Windows 7 / XP / Vista, Linux			

USB touch screen 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



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

- Step 1. Run the bundled CD disc
- 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



< 3.7 > Options : DC Power ○ ⊕ ⊕ ○



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Model	24V	48V	
Input rating			
Input voltage:	24-Volt	48-Volt	
Input range:	18 ~ 36V	36 ~ 75V	
Input current			
- No load	50 mA	50 mA	
- Full load	4880 mA	2442 mA	
Output rating			
Output voltage:	12-Volt	12-Volt	
Output current:	8.3A	8.3A	
Effi ciency	85%	86%	

< 3.8 > 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 fl exibility possible. For more information, please contact us.

	Input	Standard	Part no.
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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