

display werks

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4650 Series LCD Touch Screen Monitor

Large Format Interactive LCD

Display Werks Part #4650-TU-P461-4D, Based on the NEC P461

- 46" LCD Touch Screen.
- Authorized Integrator of the 3M™ DST (Dispersive Signal Technology) Touch Screens.
- External Speaker Kit Option.
- 24/7 Reliability.
- 1920 x 1080 High Resolution.
- Low Power Consumption.
- USA Service and Technical Support.
- Touch Screen Integrated within Factory Enclosure.
- 3 Year Warranty (Monitor).
- 3 Year Warranty (Touch Screen and Controller).



LCD Monitor Model: NEC P461

LCD Element: 46" LCD

Max. Resolution: (pixels) 1920 x 1080

Pixel pitch: 0.53mm (H) x 0.53 (V)

Display Response Time: 16 ms black to black

Viewing Angle: 89° right/left/up/down

Contrast Ratio: 4000:1

Brightness: 500 cd/m² Typ. - 650 cd/m² Max.

Power Requirements: AC 100-240V (+/-10%) 50/60 Hz

Power Consumption: 199W / Standby 2W

Operating Temperature: 5°C to 40°C

Operating Humidity: 20% to 80% (no condensation)

Built in Fan: Yes

Dimensions: inch (mm) Approx. 41.6 x 24.0 x 5.75 (1056.6 x 609.6 x 146.05) with Touch Screen integrated.

Weight lbs.: (kg) Approx. 70.9 lbs (32.2) with integrated Touch Screen installed.

Speakers: Optional Speaker Kit Available.

MicroTouch
3M

Display Werks is an authorized 3M™ DST system integrator.

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Input Terminals		Output Terminals	
DVI	24 pin	RS232C	Mini D-sub 15 pin
VGA	Mini D Sub 15Pin x 1	RGB	YES
RGBHV	BNC	Video	Yes
HDMI	HDMI connector	Audio	Yes
Component	BNC	<p>Quality and Innovation in LCD Integration.™</p>	
Display Port	-		
Composite	Shared RCA and BNC		
S-Video	S-Video		
Audio AV	Line In for AV (RCA L/R)		
Audio 1	Line In for PC (3.5 mm mini Jack)		



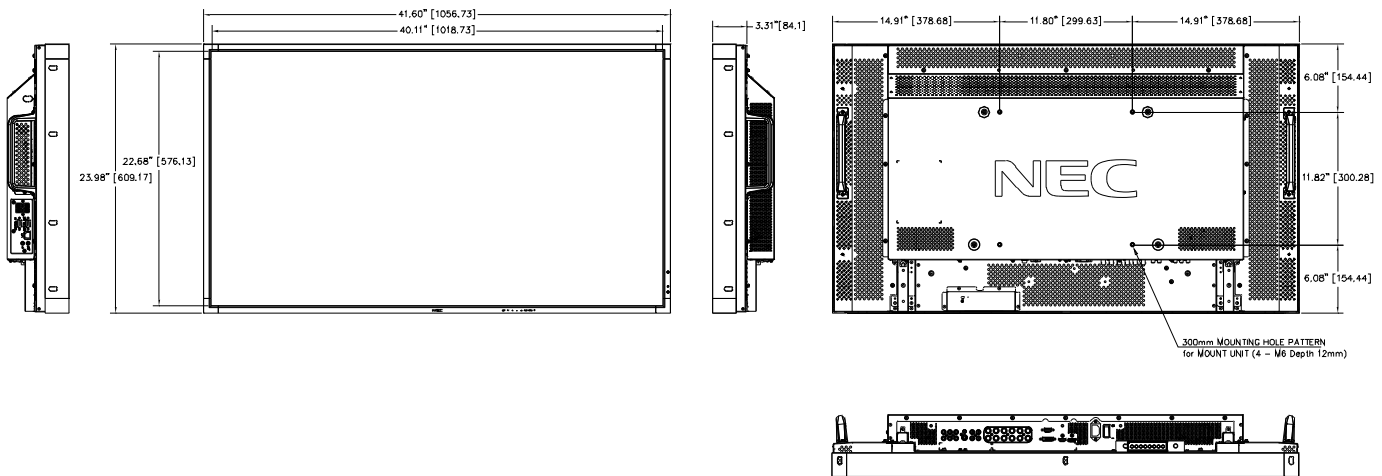
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NEC P461 Dimensional Drawing



3M™ DST (Dispersive Signal Technology) Touch Screen Specifications:

- **Total additional weight to monitor:** 7.0 lbs.
- **Construction:** Glass chemically-strengthened anti-glare substrate.
- **Input Method:** Finger and stylus input.
- **Positional Accuracy:** Reported coordinates are within 1.0% of true position (based on viewing area dimensions)
- **Light Transmission:** Up to 92%.
- **Operating Temperature:** -15°C to 90°C
- **Minimum Touch Impact:** 50 mN.s (milli-newton seconds), the equivalent of a very light touch.
- **Response Time:** 20 ms for tap input.
- **Expected Life Performance:** No known wear-out mechanism, as there are no layers, coating, or moving parts.
- **Total Additional Depth to P461:** 1/4"
- **Surface Obstructions:** Withstands surface contaminants such as dirt, dust and grime.

Touch screen Controller Specifications:

- **Interface:** USB or RS232 Serial (specify when ordering).
- **Maximum Single USB Cable Length:** 5m (16.4 ft)

Note: When using USB over distances of 5m, a USB extension system can be used.

Note: Power for the LCD monitor itself requires a connection to a 110 VAC receptacle. In addition, the NEC 4650 series DST touch screen monitors require an external power supply to drive the integrated touch screen controller. This small form factor 110 VAC to 5Vdc power supply is included with every NEC 4650 series DST touch screen monitor.