



display werks

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4650 Series LCD Touch Screen Monitor

Large Format Interactive LCD

Display Werks Part #4650-TU-460FP2-2S, Based on the Samsung 460FP-2 and
Display Werks Part #4650-TU-460FPN2-2S, Based on the Samsung 460FPn-2

- 46" LCD Touch Screen.
- Professionally Integrated SAW (Surface Acoustic Wave) Touch Screen.
- Built In Speakers.
- Built in fans for extended run times.
- 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).



Also Available in the following Samsung Monitors:

Additional Models Coming Soon

LCD Monitor Model: Samsung 460FP-2, 460FPn-2

(For additional "N" version information please see Samsung Specifications)

LCD Element: 46" LCD
Max. Resolution: (pixels) 1920 x 1080
Pixel pitch: 0.530mm (H) x 0.461 (V)
Color Space: 72%
Display Response Time: 8 ms
Viewing Angle: 178° right/left/up/down
Contrast Ratio: 4000:1
Brightness: 450 cd/m²
Power Requirements: AC 100-240V (+/-10%) 50/60 Hz
Power Consumption: 260W / Standby 1W
Operating Temperature: 10°C to 40°C
Operating Humidity: 10% to 80% (no condensation)
Built in Fan: Yes
Dimensions: inch (mm) Approx. 43.4 x 25.9 x 5.15 (1102.4 x 657.8 x 130.8) with Touch Screen integrated.
Weight lbs.: (kg) Approx. 77.8 lbs (35.3) with integrated Touch Screen installed.
Speakers: Built in standard (10 W X 2)



Display Werks is a Samsung authorized integrator.

| Input Terminals | | Output Terminals | |
|-----------------|-----------------------------------|--|--------------------------|
| DVI | 24 pin | RS232C | Mini D-sub 15 pin |
| VGA | Mini D Sub 15Pin x 1 | Audio | Audio line out (RCA L/R) |
| CVBS | 1/8" Jack | Quality and Innovation in LCD Integration.™ | |
| HDMI | HDMI connector | | |
| Component | - | | |
| Serial RS232C | Mini D Sub 15Pin x 1 | | |
| Audio AV | Line In for AV (RCA L/R) | | |
| Audio PC | Line In for PC (3.5 mm mini Jack) | | |

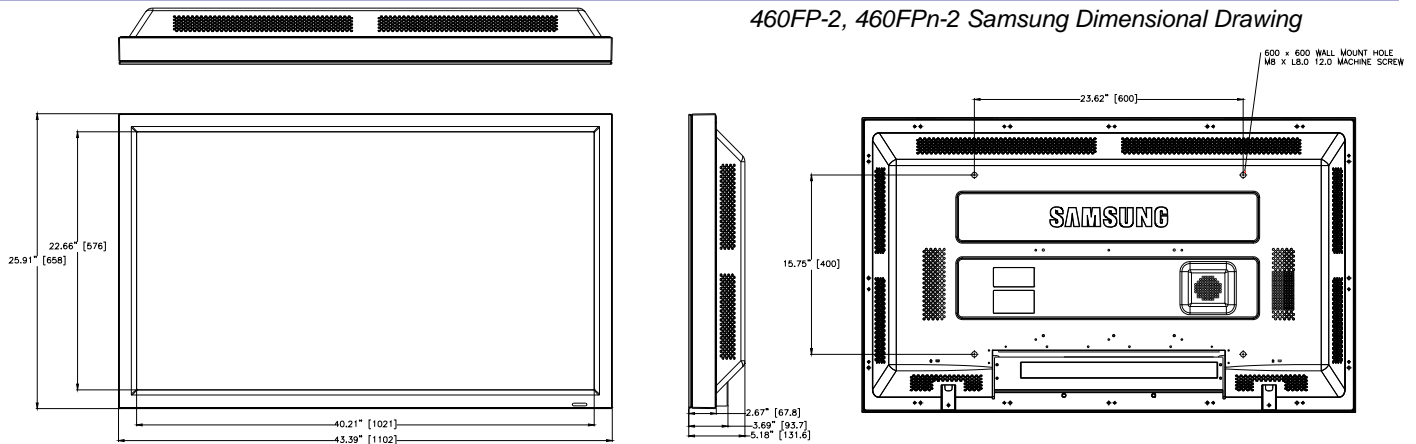
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Surface Acoustic Touch Screen Specifications:

- **Total additional weight to monitor:** 17.5 lbs.
- **Construction:** Glass panel with transducers attached to the front surface of the glass substrate.
- **Positional Accuracy:** Standard deviation of error is less than 0.080 in (2.03 mm) Equates to less than 1% error on most displays.
- **Light Transmission:** Up to 92%.
- **Operating Temperature:** -20°C to 50°C
- **Touch Active Force:** Less than 3 ounces
- **Operational Altitude:** 10,000 ft Above Sea Level
- **Expected Life Performance:** No known wear-out mechanism, as there are no layers, coating, or moving parts. This SAW technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.
- **Total Additional Depth to Samsung 460FP-2, 460FPn-2:** 1/4"

Touch screen Connector Specifications:

- **Interface:** USB 2.0
- **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 Samsung 4650 series SAW 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 Samsung 4650 series SAW touch screen monitor.