

display werks

quality and innovation in LCD integration



4650 Series LCD Touch Screen Monitor

Large Format Interactive LCD

Display Werks Part #4650-TU-460EX-4D, Part#4650-TU-460EXN-4D

- 46" LED Touch Screen.
- Authorized Integrator of the 3M™ DST (Dispersive Signal Technology) Touch System.
- Operates at 120 Hz great for high speed video and scrolling text.
- Low Power Consumption, 30-50% less than LCD panels it's size.
- Energy Star 5.0 Rating.
- USA Service and Technical Support.
- 1920 x 1080 High Definition.
- Touch Screen Integrated within Factory Enclosure.
- 3 Year Warranty (Monitor).
- 3 Year Warranty (Sensor and Controller).



LCD Monitor Model: Samsung 460EX, 460EXn

For additional "N" version information please see Samsung specifications.

LCD Element: 46" LED

Max. Resolution: (pixels) 1920 x 1080 (16:9)

Pixel pitch: 0.17675mm (H) x 0.53025 (V)

Display Response Time: 8 ms G to G

Viewing Angle: 178° right/left/up/down

Screen active area: inch (mm) 40.08 x 22.5 (1018.1 x 572.7)

Contrast Ratio: 5000:1

Dynamic Contrast: 10,000:1

Brightness: 450 cd/m²

Power Supply: AC 100-240V 50/60 Hz

Power Consumption: 170W / Standby 2W

Operating Temperature: 32°F to 104°F

Operating Humidity: 10% to 80%

Speakers: Built in 10W x 2

Dimensions: inch (mm) Approx. 42.6 x 25.8 x 1.82 (1082.0 x 655.3 x 46.22) with Touch Sensor Integrated.

Weight lbs.: (kg) Approx. 52.2 lbs (23.7) with integrated Touch Sensor Installed.

3M and MicroTouch are trademarks of the 3M Company



Display Werks is a Samsung authorized integrator.



Display Werks is an authorized 3M™ DST System Integrator.

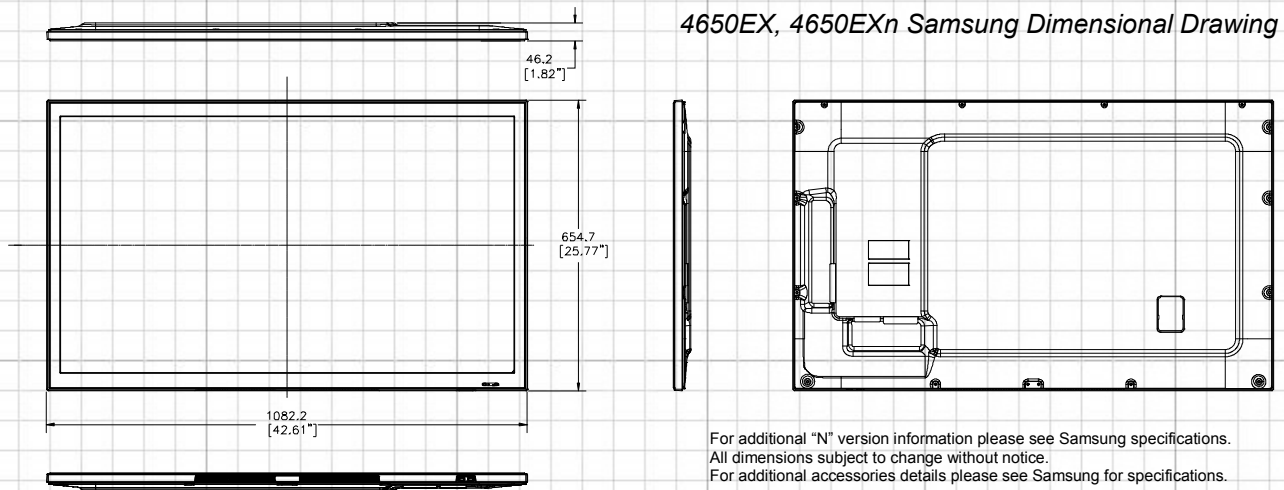
Input Terminals		Output Terminals	
RGB	Mini D Sub 15Pin x 1	DVI	24 pin
HDMI	HDMI connector	Audio	Jack Type
Audio	Jack Type		
		Quality and Innovation in LCD Integration.™	



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All dimensions subject to change without notice.
For additional accessories details please see Samsung for specifications.

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 Samsung 460EX and 460EXn:** 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 Samsung 4650EX and 4650EXn 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 Samsung 4650EX and 4650EX series DST touch screen monitor.