

# display werks

quality and innovation in LCD integration



## 4050 Series LCD Touch Screen Monitor

Large Format Interactive LCD

Display Werks Part #4050-TU-400EX-4D, Part#4050-TU-400EXN-4D

- 40" 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 Backlit 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 400EX, 400EXn

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

**LCD Element:** 40" LED

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

**Pixel pitch:** 0.46125mm (H) x 0.15375 (V)

**Display Response Time:** 6 ms G to G

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

**Screen active area:** inch (mm) 34.87 x 19.61 (885.6 x 498.1)

**Contrast Ratio:** 6000:1

**Dynamic Contrast:** 10,000:1

**Brightness:** 450 cd/m<sup>2</sup>

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

**Power Consumption:** 140W / Standby 2W

**Operating Temperature:** 32°F to 104°F

**Operating Humidity:** 10% to 80%

**Speakers:** Built in 10W x 2

**Dimensions:** inch (mm) Approx. 37.4 x 22.9 x 1.98 (949.9 x 581.7 x 50.3) with Touch Sensor Integrated.

**Weight lbs.:** (kg) Approx. 32.0 lbs (14.5) 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.

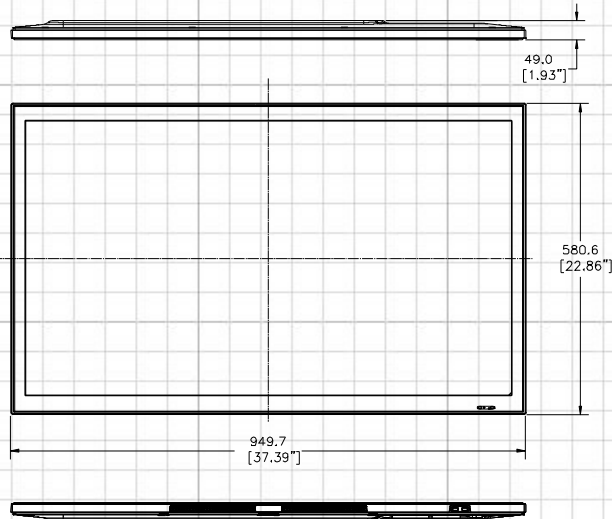
Input Terminals		Output Terminals	
RGB	Mini D Sub 15Pin x 1	DVI	24 pin
HDMI	HDMI connector		
Audio line in	RCA Phone x2		
		Quality and Innovation in LCD Integration.™	



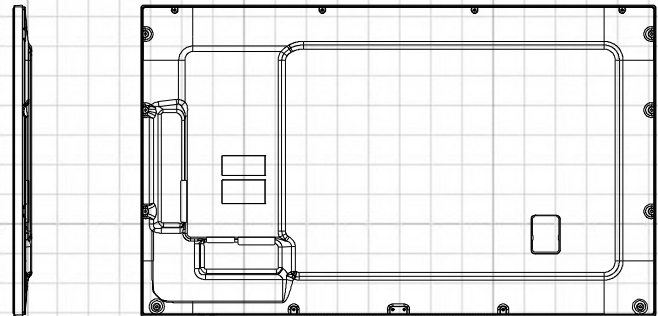
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4050EX, 4050EXn Samsung Dimensional Drawing



For additional "N" version information please see Samsung specifications.  
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:** 5.5 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 400EX and 400EXn:** 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 4050EX and 4050EXn 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 4050EX and 4050EX series DST touch screen monitor.