



NEURO LOGIC
SYSTEMS

PRODUCTS

CF-20 20" Ruggedized LCD



THE CF PRODUCT LINE CONSISTS OF FLAT-PANEL DISPLAYS ENGINEERED FOR USE IN HARSH, DEMANDING ENVIRONMENTS, INCLUDING SHIPBOARD AND MILITARY. NEURO LOGIC ONLY USES THE HIGHEST QUALITY LCDs AVAILABLE. ALL LCDs AND CONTROLLERS ARE CUSTOM BUILT TO NLS SPECIFICATIONS. THIS DOES NOT MEAN THEY ARE THE MOST EXPENSIVE EITHER! OUR PRODUCTS HAVE BEEN USED IN APPLICATIONS FROM MUSEUMS TO NETWORK ROOMS TO MILITARY VEHICLES TO MILITARY AIRPLANES.



KEY FEATURES

- Resistive, Surface Acoustic Wave (SAW), and Infrared Touchscreen (optional)
- 3mm heat-treated glass (on most models)
- 80-degree (up/down/left/right) viewing on all panels
- Rear-mounted OSD controls
- Backlight/Inverter Controls (optional)
- Fan-cooled electronics (optional)

- HD-15 - BNC or NTSC
- RGB Green Sync, RS-170, Y and C (S-video) thru BNC, NTSC, VGA
- DVI/Digital Video Interface (optional)
- Black powdercoat aluminum enclosure w/ handles
- Based on proven COTS LCD technology for low risk and high quality at an affordable cost
- Superior reliability and

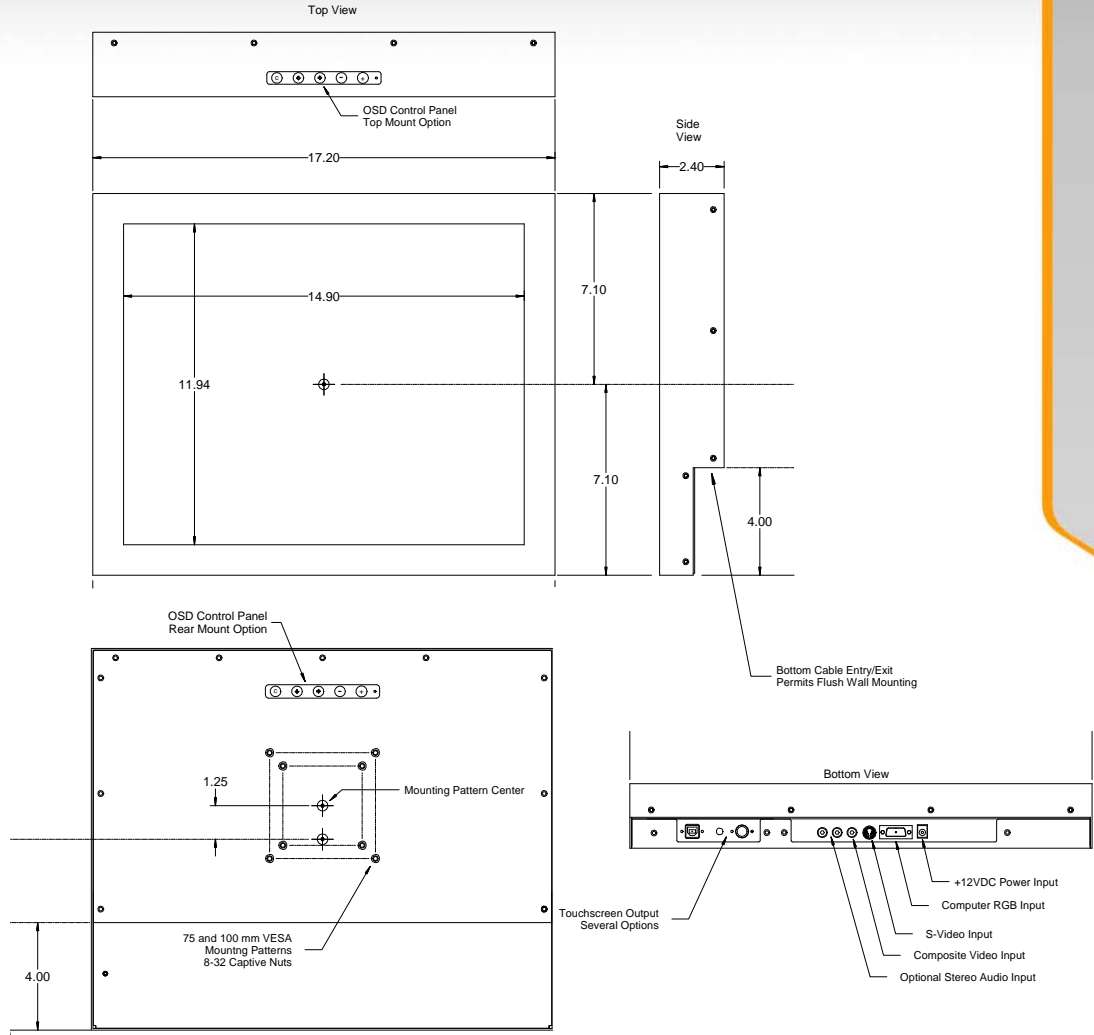
- maintainability over CRTs means a lower life cycle cost
- NEMA 4 front option
- Mil-Spec 461E, 901 and 810 available
- 24 and 48 volt and 400Hz power supply options
- Custom modifications available on all models

CF-20: 20" RUGGEDIZED LCD

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LCD TECHNOLOGY

LCD Technology:

- Active matrix TFT color LCD
- 20.1" diagonal screen size
- 1280 x 1024 maximum resolution
- 0.294mm x 0.294mm pixel pitch
- 300cd/m² (typ.) brightness
- 600:1 (typ.) contrast ratio
- Tr: 30ms / Tf: 25ms (typ.)
- L/R=80° / 80°, U/D=80° / 80° viewing angle
- 50,000 hours life (min.)

Display Resolution:

1600 pixels(H) x 1200 lines(V)

Active Display Area:

376.1mm(H) x 301.1mm(V)

Displayable Color: 16.7M colors

Compatibility:

- IBM & VESA
- VESA SXGA 1280 x 1024 60 / 75Hz
- Apple Macintosh
- 1024 x 768 75Hz
- SunMicro 1152 x 900, 66 / 76Hz
- **Input Signal:**
- Video: analog RGB 0.7 Vp-p
- Sync: separate sync, composite sync, sync. on green
- **Auto-adjustment:** Yes
- **I/O Connectors:**
- DC power in • VGA in D-sub 15 pin
- **Power Consumption:**
- 35 watt (max.), 28W Typ, < 5 watt (off mode)
- 90-260VAC @ 50/60Hz

Operating Temperature:

- 0°-50°C / 32°-122°F • Humidity: 95% maximum

Storage Temperature: -20°-60°C / -4°-140°F .

Vibration & Shock: (non-mil test)

- Freq: 10-200Hz
- Sweep: 30 min (X,Y,Z)
- Accel: 1.5G (10-200Hz P-P)

Shock Test Spec: (non-mil test)

- Accel: 50G
- Active Time: 20
- Wave Form: half-sin
- **Pressure:** Max: 1040hPa; 0m=sea level
- Min: 674hPa; 3048m=10,000ft
- **Non-operation Alt:** 30k ft, 9145m
- **MTBF:** 30,000 hours

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