

MILCOTS™ 21" LCD monitor / 5221UX

Product range, for harsh environments



5221UX model

Waterproof Panel Mount

Naval Consoles

Offshore Applications

Shelters and Vehicles

Railway

Anti-Vandalism Display

Key points

- High quality display (high contrast ratio)
- Lock / cancel OSD
- Remote control
- Non-reflective coated glass, optical quality 92%
- Typical product availability: 8 to 10 years

Options

- Brightness tuning from 100 to 5% (dimming)
- Low and high temperature range
- Water-resistant housing (including rear housing)
- Handles
- TV input (see video options)
- EMC/EMI. This range is available with several levels of protection and reinforcement from the standards required by the information technology industry to the military sector (MIL-STD)
- Adaptation kit for 19" standard 10 U EIA mounting

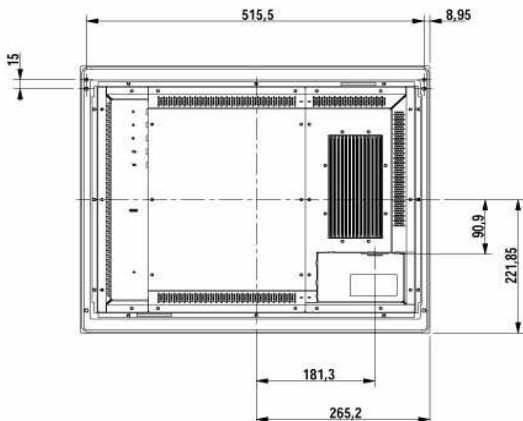
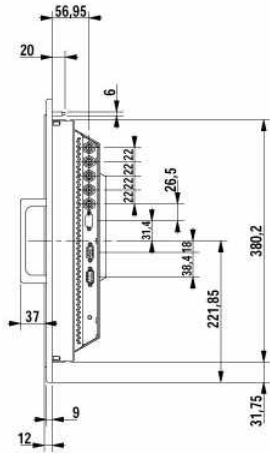
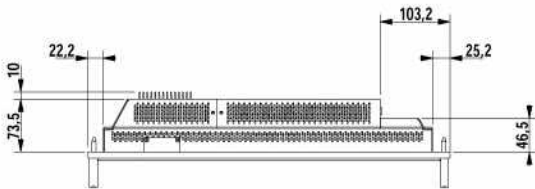
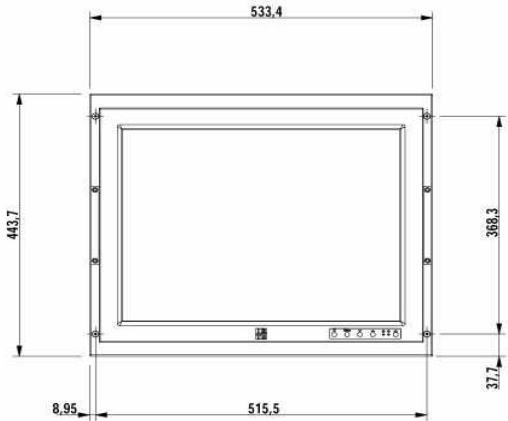
For operations in extreme conditions (shock, vibration, temperature, waterfall, seafog, very high or low ambient light conditions), MILCOTS's 5000 series displays is the right choice for field applications (ground, sea, railway transport), aboard vehicles or in shelter)

5000 series displays are available in:

- 15" XGA
- 17", 19" SXGA
- 20", 21" and 23" UXGA
- 24" WUXGA
- 30" WQXGA

MILCOTS will design any custom packaging and mounting kit on request

21" LCD monitor / 5221UX



Display Module

| | |
|----------------------|-------------------------------|
| Resolution: | Color active matrix TFT 21.3" |
| Brightness: | 1600 x 1200 |
| Contrast Ratio: | 250 cd/m2 |
| Dot Pitch: | 500:1 |
| Viewing Angle: | 0.270 mm |
| Response Time: | 160°/160° |
| Display Color: | 20 msec |
| Active Display Area: | 16.7M |
| | 432 mm x 324 mm |

Input Signals (standard)

| | |
|------------------------|---|
| Connectors: | BNC (x5) |
| Analog: | RGB 0,7Vp-p / 75 Ohms |
| Synchronisation: | H/V separated (TTL) - composite - sync on green |
| Synchronisation Range: | H : 30 KHz to 100 KHz - V : 50 Hz to 100 Hz |

Controls

| | |
|--------------------|--------------------------------------|
| On-Screen Display: | waterproof front panel matrix switch |
| Remote control: | 1 x RS232 port |

Physical Features

| | |
|---------------------|--|
| Monitor Dimensions: | 533.4 mm(W) x 443.7 mm(H) x 95.5 mm(D) [19" 10U] |
| Monitor Weight: | 24 lbs |
| Standard Color: | RAL 101 (black) |

Electrical Features

| | |
|---------------------|------|
| Power Consumption : | 65 W |
|---------------------|------|

Environmental Conditions

| | |
|--------------------------------|------------------------|
| Operating temperature : | 0°C to +50°C |
| Storage temperature : | -30°C to +70°C |
| Humidity : | 10% to 85% |
| Altitude : | 0 to 45000 feet |
| Shock : | 30 G, 11 ms |
| Vibration : | MIL-STD-810E |
| Non-reflective coating glass : | 92% light transmission |
| Front panel protection : | IP65 |

Options

| | |
|-----------------------------|--|
| TV Input (C-VBS): | 1 x BNC connector |
| TV Input (S-VHS): | 1 x mini-DIN connector |
| Digital Input (DVI-D): | 1 x DVI connector |
| Touch Input Sensor: | Resistive, Capacitive, SAW, IR |
| EMI / EMC: | MIL-STD-461 |
| Shock Performance: | MIL-S-901D Heavyweight, Grade A, Hardmounted |
| Extended Temperature Range: | -35°C to +75°C (Storage) |
| Cold Start: | -20°C cold start |

Customization

IP63 aluminum casing
Panel PC configurations
Shock Isolation and bulk mounting kits

Warranty

1 year (extendable to 3 and 5 years)

21" LCD monitor / 5221UX - Ordering Information

| Base P/N | Power Options | Video Input Options | Touchscreen Options | Touchscreen Interface | Shock Performance |
|-----------|---------------|---------------------|---------------------|-----------------------|-------------------|
| 5221UX | 0A | 00 | 00 | A | 00 |
| (example) | 1A | 01 | 30 | B | 40 |
| | 2A | 02 | 31 | | |
| | 3D | 03 | 32 | | |
| | 3E | 04 | 33 | | |
| | 4A | 05 | | | |
| | 5A | 06 | | | |
| | 5D | 07 | | | |
| | | 08 | | | |
| | | 09 | | | |
| | | 10 | | | |
| | | 11 | | | |
| | | 12 | | | |
| | | 13 | | | |

Power Options

| | |
|----|---|
| 0A | 12 VDC input on HE308 connector; external power supply not delivered |
| 1A | 12 VDC input on lockable connector; external power supply 12 VDC / 100 Watt |
| 2A | 115-230 VAC input / 50-60 Hz on HE308 connector |
| 3D | 115-230 VAC input / 50-60 Hz on HE308 connector, MIL-STD-461 |
| 3E | 115-230 VAC input / 400 Hz on HE308 connector |
| 4A | 18-36 VDC input on lockable connector |
| 5A | 28 VDC AIR2021E input on HE308 connector |
| 5D | 28 VDC AIR2021E input on HE308 connector, MIL-STD-461 |

Video Input Options

| | |
|----|---|
| 00 | Standard: RGBHV on 5 x BNC included in all configurations |
| 01 | DVI-D on 1 x DVI |
| 02 | C-VBS on 1 X BNC |
| 03 | S-VHS on 1 x mini-DIN |
| 04 | RGB on 1 x HD15 |
| 05 | Input Options: 00, 01, 02 |
| 06 | Input Options: 00, 01, 03 |
| 07 | Input Options: 00, 01, 04 |
| 08 | Input Options: 00, 02, 03 |
| 09 | Input Options: 00, 02, 04 |
| 10 | Input Options: 00, 03, 04 |
| 11 | Input Options: 00, 01, 02, 03 |
| 12 | Input Options: 00, 01, 02, 03, 04 |
| 13 | Sync-On-Green (SOG) on 3 x BNC |

Touchscreen Options

| | |
|----|------------|
| 00 | None |
| 30 | Resistive |
| 31 | Capacitive |
| 32 | SAW |
| 33 | IR |

Touchscreen Interface

| | |
|---|--------|
| A | Serial |
| B | USB |

Shock Performance

| | |
|----|---------------------------------------|
| 00 | Standard per datasheet specifications |
| 40 | MIL-S-901D Grade A Hardmounted |

Example

52210UX-3D-02-30A-00

Base Part Number

5221UX: 21.3" display with UXGA native resolution

Power Option

-3D: 115-230 VAC input / 50-60 Hz on HE308 connector, MIL-STD-461

Video Input Options

-02: RGBHV on 5 x BNC and C-VBS on 1 x BNC

Touchscreen Option

-30A: Resistive touch sensor, serial interface

Shock Performance

-00: Standard per datasheet specifications

NOTE: default mounting hardware is 4 x M6 captive screw with self-sealing washer

NOTE: Extended Temperature versions are available on some displays, add a "-ET" suffix to the end of the part number. Please contact Milcots for availability.

Example (as above): 5221UX-3D-02-30A-00-ET