

Features

- ▶ 12", 15", 17", 19", 20", 22", or 23" LCD
- ▶ NEMA 4/12 or NEMA 4/4X/12, sealed to IP65/66 standards
- ▶ UL Rated for Hazardous Locations: Class I, II, III, Division 2 (optional, 17" and 19" models)
- ▶ High resolution, high brightness and contrast
- ▶ Touch Screen, Safety Glass, and Acrylic Window options
- ▶ Only 1.60" to 2.39" deep
- ▶ Black carbon steel and stainless steel bezel options
- ▶ Panel mount without drilling stud holes
- ▶ 6 ft. cables included (optional to 1000 ft.)
- ▶ Industrial Certifications: UL 508A, UL 50E, CE, FCC Class A, UL 60950 3rd Edition / cUL Recognized Component



Product Description

Panel Mount Industrial Monitors are designed to provide the industrial user with excellent picture quality and rugged design for reliable continuous operation.

A unique single-cutout, stud-free design and depths of only 1.6" to 2.4" make them a snap to install. Options like touch screens and KVM Extenders make these displays highly versatile.

Like all our displays, these monitors are backed by industrial certifications (including 3rd-party environmental testing) and an industry-leading 3-year warranty.

Optional Accessories

- ▶ Industrial Panel Mount Keyboards (NEMA 4X rated)
- ▶ Screen Protectors (all sizes)
- ▶ Extended cable options up to 1000'
- ▶ KVM Extenders



Rear view of 19" Panel Mount Monitor.



Panel Mount workstation configuration with monitor and industrial keyboard.



Optional KVM Extender allows monitor to be placed up to 1000' away from computer.



Optional Screen Protector guards touch screens from scratches and wear.



Panel Mount Industrial Monitors and Touch Screens: Specifications

| Model Numbers: | LBML1112 | LBML1115 | LBML1117 | LBML1119 | LBML1120 | LBML1122 | LBML1123 |
|--|--|--|--|--|---|---|--|
| Display | | | | | | | |
| Type | Thin-film transistor (TFT) Active Matrix Liquid Crystal | | | | | | |
| Size / Aspect Ratio | 12.1" diagonal / 4:3 | 15" diagonal / 4:3 | 17" diagonal / 5:4 | 19" diagonal / 5:4 | 20" diagonal / 4:3 | 22" diagonal / 16:10 | 23" diagonal / 16:9 |
| Image Size (WxH) | 246x184.5 mm (9.7"x7.3") | 304x228 mm (12.0"x9.0") | 338x270 mm (13.3"x10.6") | 376x301 mm (14.8"x11.9") | 408x306 mm (16.1"x12.1") | 474x296 mm (18.7"x11.7") | 509x286 mm (20.1"x11.3") |
| Native Resolution* | SVGA (800x600 @ 60Hz) | XGA (1024x768 @ 60Hz) | SXGA (1280x1024 @ 60Hz) | | UXGA (1600x1200@60Hz) | WSXGA+(1680x1050@60Hz) | HD1080p(1920x1080@60Hz) |
| Pixel Pitch | 0.308 mm x 0.308 mm | 0.297 mm x 0.297 mm | 0.264 mm x 0.264 mm | 0.294 mm x 0.294 mm | 0.255x0.255 mm | 0.282x0.282 mm | 0.265x0.265 mm |
| Number of Colors | 262,144 | 16.2 million | | | 16.7 million | | |
| Brightness (white) | 400 nits (cd/m ²) | 250 nits (cd/m ²) | | | 300 nits (cd/m ²) | 250 nits (cd/m ²) | |
| Viewing Angle (Hori/Vert) | 160° / +60°, -50° | 140° / 120° | 170° / 160° | | 178° / 178° | 170° / 160° | |
| Contrast Ratio | 600:1 | 500:1 | 1000:1 (typ.); 10M:1 (dyn.) | 1000:1 (typ.); 100K:1 (dyn.) | 800:1 | 1000:1 (typical); 10M:1 (dynamic) | |
| Backlight Brightness half-life | 2 CCFts, 50,000 hours | | LED, 40,000 hours | 2 CCFts, 50,000 hours | 6 CCFts, 45,000 hours | LED, 40,000 hours | LED, 30,000 hours |
| Video | | | | | | | |
| Input Connectors | HD-15, optional DisplayPort** or BNC*** | | | HD-15, DVI-D, optional DisplayPort** or BNC*** | | | |
| Input Signal Formats | RGB, Sep. H/V sync, Combined; NTSC/PAL**** | RGB, Sep. H/V sync; NTSC/PAL**** | | RGB, Sep. H/V sync; DVI; NTSC/PAL**** | RGB, Sep. H/V, Combined, SoG; DVI; NTSC/PAL**** | RGB, Sep. H/V sync; DVI; NTSC/PAL**** | |
| Horizontal / Vertical Scan | 31-38 kHz / 60-75Hz | 24-61 kHz / 56-75Hz | 24-82 kHz / 50-75Hz | 30-82 kHz / 56-75Hz | 28-83 kHz / 56-85Hz | 24-82 kHz / 50-85Hz | 24-83 kHz / 50-76Hz |
| Response Rate | 35 ms | 12 ms | 5 ms | | 8 ms | 5 ms | |
| Electrical | | | | | | | |
| Monitor Input | 12VDC, 2.5A (100-240VAC, 1.2A, 60/50Hz w/ adapter) | 100 to 240 VAC, 1.2/0.6 A, 60/50Hz | 100 to 240 VAC, 1.5/0.75 A, 60/50Hz | | 100 to 240 VAC VAC, 0.8/0.4 A, 60/50Hz | 100 to 240 VAC, 1.5/0.75 A, 60/50Hz | 100 to 240 VAC, 1.0/0.5 A, 60/50Hz (DC optional) |
| Power Consumption | ~20 W | ~25 W | ~20 W | ~25 W | ~58 W | ~26 W | ~24 W |
| Environmental | | | | | | | |
| Temperature / Humidity | 0° to 50°C (32° to 122°F) / 20% to 90% non-condensing | | | | | | |
| Operating Shock / Vibration | 15 g, 6 msec, half-sine / Operating (sine): 1.0 g, swept sine 9-500Hz; Transport (random): 0.1g ² /Hz, 10-200Hz; 0.03g ² /Hz, 200-2000Hz | | | | | | |
| Altitude | Operating: up to 10,000 ft; Non-operating: up to 40,000 ft | | | | | | |
| Physical | | | | | | | |
| Enclosure Type | Panel mount; rear collar compresses gasket against panel (5/16" maximum panel thickness); held by M5 studs | | | | | | |
| Panel Rating (with proper installation) | Stainless: NEMA/UL Type 12/4/4X; IP65/66 standards | Black powder-coated carbon steel: NEMA/UL Type 12/4; built to IP65/IP66 standards Stainless steel: NEMA/UL Type 12/4/4X; built to IP65/IP66 standards | | | | | |
| Depth behind Panel | 1.6" (2.5" at connectors) | 46.2 mm (1.82") | 52.5 mm (2.07") | 54.5 mm (2.15") | 60.7 mm (2.39") | 51.8 mm (2.04") | 52.1 mm (2.05") |
| Front Bezel Outside Dimensions (WxHxD) | 338 mm x 296 mm x 7 mm (13.31"x11.64"x0.28") | 437.8 mm x 353.6 mm x 7 mm (17.24"x13.92"x0.28") | | 482.6 mm x 398.8 mm x 7 mm (19.0"x15.7"x0.28") | | 559 mm x 375 mm x 7 mm (22.0"x14.75"x0.28") | 597 mm x 375 mm x 7 mm (23.5"x14.75"x0.28") |
| Cutout Dimensions (WxH) | 308 mm x 263 mm (12.12"x10.35") | 406.9 mm x 323.1 mm (16.02"x12.72") | | 453.4 mm x 366.8 mm (17.85"x14.44") | | 528.7 mm x 342.3 mm (20.81"x13.48") | 566.7 mm x 342.4 mm (22.31"x13.48") |
| Net / Shipping Weight | 9 lbs. / 13 lbs. | 14 lbs. / 18 lbs. | 16 lbs. / 19 lbs. | 18 lbs. / 22 lbs. | 22 lbs. / 25 lbs. | 19 lbs. / 23 lbs. | 18 lbs. / 21 lbs. |
| Touch Screen Option | 5-wire resistive system; emulates a mouse; Serial RS-232 or USB interface to host computer | | | | | | |
| Compliances and Certifications | | | | | | | |
| Electrical | UL 1950 / cUL Recognized, UL 508A, FCC Class A, CE | UL 60950 3 rd Edition / cUL Recognized Component, UL 508A, FCC Class A, CAN ICES-3A/NMB-3A, CE | | | | | |
| Enclosure, Environmental | UL 50E, IEC 60721-3 (Reliability), WEEE (Registration No. WEE/DJ1859ZX for UK only) | | | | | | |
| Hazardous Location (optional for 17"/19" only) | N/A | N/A | Listed for Class I, Division 2, Groups A, B, C, D; Recognized for Class II, III, Division 2, Groups F, G; Temp Code T6 | N/A | N/A | N/A | N/A |
| Ordering Options | | | | | | | |
| Window Options | Tempered Safety Glass, Analog Resistive Touch Screen, or Acrylic Protective Window | | | | | | |
| Bezel Options | Stainless steel | Stainless steel or black powder-coated carbon steel | | | | | |
| Power Options | 12VDC, 2.5A (100-240VAC, 1.2A, 60/50Hz w/ adapter) | 100 to 240 VAC | | | | | 100-240 VAC, 1.0/0.5 A or 9.6-36.6 VDC, 2.5-0.65 A |
| Hazardous Location | N/A | | UL Rated for Class I, II, III, Division 2 Hazardous Locations | | | N/A | |

* A full list of supported video standards may be found on our website.

** DisplayPort input available using DisplayPort to VGA or DisplayPort to DVI adapter. Call for details.

*** BNC input available using HD-15 to 5-wire BNC adapter; see "Input Signal Formats" for a list of compatible video signals. Call for details.

**** NTSC/PAL composite input available. Call for details.

