



C-Series Medical (CM-Series) “Fanless Cool and Quiet” All-in-One LCD Desktop Touchcomputers for Healthcare Settings

In a stylish, compact design, the Elo TouchSystems CM-Series provides highly configurable, ruggedized touchcomputers, in two screen sizes: 19-inch and 22-inch, plus the choice of industry-leading TE touchscreen technologies. The CM-Series touchcomputer family has been developed to meet the needs of a wide variety of venues, including nursing stations, computer-aided therapy, electronic medical record keeping, paperless charting, patient self check-in/registration or point-of-information installations.

The CM-Series is compliant with multiple safety and electrical certifications including EN60601-1. In addition, the CM-Series is RoHS compliant, and includes an enclosure design that is resistant to dripping water with an IPX1 rating, protecting the unit from liquid drops and spills. As a result the CM-Series is an excellent fit for a wide variety of settings, including healthcare.

The CM-Series touchcomputers bring flexibility with your choice of configuration and connectivity, serviceability with easy access to key components, and a choice in processing power. In addition, an array of field-installable peripherals, spill-resistant sealing, and a selection of input/output port connection options make the CM-Series both versatile and powerful. It is designed with the future in mind, allowing easy field serviceability or upgrades of all of the main components.

The CM-Series is engineered for flexibility, with optional memory and storage configurations, as well as scalable computing power featuring two high-performance processor configurations:

- “Fanless Cool and Quiet” 19CM2 and 22CM2 with Intel Atom Dual-Core 1.66 GHz
- For a higher powered solution, consider the “Performance Ultra” 19CM3 and 22CM3 solutions with a cooling fan and Intel Core 2 Duo 3.0 GHz

Features

- UL 60601-1, cUL CSA C22.2 No 601.1-M90, TUV (EN60601-1, IEC60601-1), CB (IEC60601-1) certified and IPX1 drip-proof ratings
- 19" and 22" HD wide-screen display options
- A choice of high performance CPU options
- PCI Express expansion capabilities
- Optional second VGA output port for an additional display
- Pole mount or stable stand and tilt display
- Three touchscreen technologies available:
 - AccuTouch (zero-bezel resistive)
 - IntelliTouch Plus (multi-touch surface acoustic wave)
 - iTouch (zero-bezel surface acoustic wave)

CM-Series “Fanless Cool and Quiet” All-in-One LCD Desktop Touchcomputers

Computer Specifications

19CM2 Medical 19-inch model:

22CM2 Medical 22-inch model:

| | | |
|---|--|---|
| Enclosure color | White | |
| Processor | Intel 1.66GHz Atom Dual-Core D510, 1MB L2 Cache, 533MHz System Bus | |
| Chipset | Intel NM10 Express | |
| Video | Intel GMA 3150 | |
| BIOS | AMI | |
| Memory (RAM)/800 MHz min | 2GB DDR2 DIMM on 1 of 2 slots (expandable to 4GB maximum on 2 slots) | |
| Hard Disk Drive | 160GB 2.5" SATA HDD | |
| USB Ports | 6 x USB 2.0 (4 on I/O, 2 x USB front access). Additional internal ports available. | |
| Serial Ports | 2 x USB-to-Serial RS-232 (standard) | |
| Ethernet Port | 1 x LAN RJ45 (Gigabit) | |
| Audio Ports | 1 x 3.5mm line in; 1 x 3.5mm line out | |
| Speakers | Two 2W internal speakers | |
| Operating System Options | No Operating System; Microsoft Windows 7 Professional (32-bit only) | |
| Languages | Windows 7—35 Language groups | |
| Power Supply | External 12VDC universal-type power supply brick; AC input voltage: 100-240VAC; Input frequency: 50-60Hz; maximum output power: 180W (max draw: 205W) | |
| Power Consumption (max.) | 54W (without peripherals) | |
| Touchcomputer Dimensions (max. with stand, dimensions vary with tilt and options) | 18.7" x 14.9" x 8.9" (475mm x 380mm x 226mm) | 21.2" x 15.3" x 8.9" (540mm x 389mm x 226mm) |
| Shipping Box Dimensions | 23.2" x 19.5" x 14.2" (590mm x 495mm x 360mm) | 26" x 20.3" x 14.2" (660mm x 516mm x 360mm) |
| Weight (with stand) | 20.1lbs (9.1kg) | 22.2lbs (10.1kg) |
| Weight (without stand) | 16.1lbs (7.3kg) | 18.3lbs (8.3kg) |
| Shipping Weight | 30.1lbs (13.7kg) | 32.8lbs (14.9kg) |
| Temperature | Operating: 0°C to 35°C (32°F to 95°F); Storage: -30°C to 60°C (-22°F to 140°F) | |
| Humidity (non-condensing) | Operating: 20% to 80% Storage: 5% to 95% | |
| Backlight Lamp Life | Minimum 50,000 hours to half brightness | |
| Warranty | 3 years | |
| MTBF | 50,000 hours demonstrated | |
| Agency Certification | UL (UL 60601-1), cUL (CAN/CSA-C22.2 No. 601.1-M90), TUV (EN 60601-1), CB (IEC 60601-1), IPX1, FCC (Class A), CE (Class A), VCCI (Class A), C-Tick (Class A), NOM COC, AR, GOST-R; Elo Declarations: RoHS, WEEE, CE | |
| Other Features | Serviceable internal components; touchscreen sealed to bezel (IntelliTouch Plus); touchscreen sealed to sub-bezel (AccuTouch, iTouch); touchscreen sealed to LCD (all); IPX1 drip-proof rating | |

Display Specifications

| | | |
|------------------------------|--|--|
| Display | 18.5" diagonal active matrix TFT LCD | 21.5" diagonal active matrix TFT LED LCD |
| Aspect Ratio | 16:9 (wide) | |
| Useful Screen Area (H x V) | 16.1" x 9.1" (409.8mm x 230.4mm) | 18.8" x 10.6"(476.64mm x 268.11mm) |
| Native (optimal) Resolution | 1366 x 768 @ 60Hz | 1920 x 1080 @ 60Hz |
| Colors | 16.7 million | |
| Brightness (typical) | LCD panel: 250 nits; AccuTouch: 200 nits; IntelliTouch Plus: 225 nits; iTouch: 225 nits | |
| Response Time (typical) | Total: 5 msec | |
| Viewing Angle (typical) | Horizontal: ±85° or 170° total; Vertical: ±80° or 160° total | |
| Contrast Ratio (typical) | 1000:1 | |
| Available Touch Technologies | AccuTouch (zero-bezel resistive); IntelliTouch Plus (multi-touch surface acoustic wave); iTouch (zero-bezel surface acoustic wave) | |

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