MLC 8 Series

Medical Class 1 Panel Computer

The MDD class I certified MLC 8 offers hygienic design, superb performance, and configuration versatility tailored to meet application requirements for better intensive care.

Hygienic Design

Easy to clean and disinfect

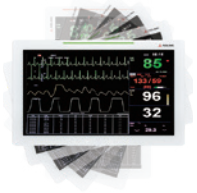
- Completely sealed, screwless aluminum housing with IP54 protection
- Touch control buttons on the edge-to-edge protective glass



High Functionality and Flexibility

Tailored to meet application requirements

- Supports both landscape and portrait modes with a programmable LED light bar

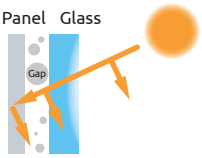


Landscape → Portrait

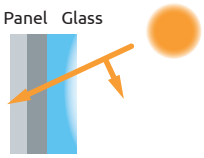


Portrait → Landscape

- Optical bonding to prevent condensation, reduce reflections and increase durability



Without Optical Bonding



With Optical Bonding

- Multiple Full HD and Ultra HD display sizes with PCAP multi-touch functionality.
- Anti-glare coating for increased viewing capability



Without Anti-Glare Coating



With Anti-Glare Coating

Increased Safety

Protect life and enhance reliability

- Meets standards IEC 60601-1:2012 & EN 60601-1:2013
- Meets standards IEC 60601-1-2:2014 & EN 60601-1-2:2015
- Medical class 1 certified
- Optional galvanically isolated USB and serial interfaces

Optional UPS-backup battery for data loss prevention



Designed with extensive I/O flexibility and two DisplayPort outputs



- 4 internal slots for additional storage media, frame grabbers, Wi-Fi/ Bluetooth and RFID modules as well as PCI Express expansion cards to ensure mobility and flexibility

Where Can It Be Used?

The MLC 8 is used, for example, for patient vital signs monitoring, in anesthesia documentation, for clinical diagnostic support, and PDMS systems.



Operation Room



Intensive Care Unit



Emergency Room

Model Name		MLC 8-21	MLC 8-23	MLC 8-27	
					
Computing System	CPU	Intel® Core™ i7-8700T hexa-core Processor, 2.4 GHz (Turbo to 4.0 GHz), 35W Intel® Core™ i5-8500T hexa-core Processor, 2.1 GHz (Turbo to 3.5 GHz), 35W Intel® Core™ i3-8100T quad-core Processor, 3.1GHz (no Turbo), 35W			
	Chipset	Intel® Q370			
	Graphics	Intel® UHD Graphics 630			
	Memory	up to 64GB DDR4 DRAM			
Display Characteristics	Size	21.5"	23.8"	27"	
	Resolution	1920 x 1080, Full HD	1920 x 1080, Full HD	1920 x 1080, Full HD	3840 x 2160, Ultra HD
	Max. Colors	16.7M		16.7M	1.07B
	Viewing Angle	178° horizontal, 178° vertical			
	Luminance (cd/m²)	>250			
Storage	SSD	1x M.2 SSD and 1x 2.5" SATA SSD, capacity upon request			
	HDD	Optional, capacity upon request			
I/O Ports	Serial	Optional up to 6 serial ports (4 kV isolated)			
	USB	2x USB 2.0 (4 kV isolated optional) 4x USB 3.0			
	DisplayPort	2x DisplayPort, max. res. 4096 x 2304 @60 Hz			
	LAN	2x Ethernet 10/100/1000 Mbit/s (4 kV isolated)			
	Audio	1x Speaker and 1x Mic-In			
	Expansion Slot	1x PCIe x16 Gen 3.0 slot (PEG port) 1x full-size mPCIe slot to support PCIe/mSATA and USB 2.0 1x M.2 (2230) slot to support PCIe and USB 2.0 1x M.2 (2280) slot to support PCIe/mSATA and USB 2.0			
Power		100-240V ~ 50/60 Hz (internal medical grade PSU) or 24 V DC with external medical grade PSU			
Environmental	Operating	0°C to 30°C/ 5% to 95% rel. humidity (non-condensing)			
	Storage	-10°C to 60°C/ 5% to 95% rel. humidity (non-condensing)			
	Ingress Rating	IP54			
Mechanical	Dimensions (mm)	551 x 342 x 86	602 x 371 x 86	673 x 412 x 86	
	Weight (kg)	10	11.4	12.3	
	Housing	Aluminum, powder-coated, anti-bacterial			
	Mounting	VESA 100			
Certificates		IEC60601-1:2012 & EN60601-1:2013 (Safety ed. 3.1) IEC60601-1-2:2014 & EN60601-1-2:2015 (EMC 4th edition)			

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