

MLC-AL/MLC-KL Series



Medical Panel Computer

The MLC-AL/MLC-KL panel computer is a cost-efficient solution when space is limited. MLC-AL/MLC-KL features hygienic design, clear image, and functionalities to meet application requirements for better patient care.

Hygienic Design
Easy to clean and disinfect

- Completely sealed, screwless aluminum housing with dust- and liquid-proof front unit
- Edge-to-edge protective glass

Increased Safety
Protect life and enhance reliability

- Meets standards IEC / EN 60601-1 (edition 3.1) and IEC / EN 60601-1-2 (4th edition)
- Galvanically isolated Ethernet and serial ports





Clear Image & High Flexibility
Increase productivity for medical personnel

- 13.3" / 15.6" Full HD display with PCAP multi-touch functionality
- Excellent visualization on anti-glare coated safety glass
- Optional soft-touch OSD buttons and LED status bar for the 15.6" MLC-AL/MLC-KL
- Versatility with different CPU, RAM and SSD options

Where Can It Be Used?

The MLC-AL and MLC-KL help streamline patient care by supporting a range of systems from mobile X-rays and ventilators to blood and tissue analysis and vital sign monitoring. Information from different sources can be aggregated and visualized to manage, for example, operating theatre videos, inventories, and documentation.

<p>Operation Room</p>	<p>Intensive Care Unit</p>	<p>Emergency Room</p>	<p>Examination Room</p>
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Model Name		MLC-133-AL	MLC-156-AL	MLC-133-KL	MLC-156-KL
					
Computing System	CPU	Intel Atom® x5-E3930 1.3 GHz		Dual-core Intel® Core™ i3 7100U 2.4 GHz	
	Graphics	Intel® HD Graphics 500		Intel® HD Graphics 620	
	Memory	4 GB DDR3L (Up to 8 GB)			
Display Characteristics	Size	13.3"	15.6"	13.3"	15.6"
	Resolution	1920 x 1080, Full HD			
	Max. Colors	16.7M	16.2M	16.7M	16.2M
	Viewing Angle	178° horizontal / 178° vertical			
	Luminance (cd/m²)	360	270	360	270
Storage	SSD	M.2 SATA SSD (Default 64 GB)			
I/O Ports	Serial	1x RS232/422/485 (4 kV isolated)			
	USB	1x USB 2.0 & 1x USB 3.0			
	HDMI Port	1x HDMI			
	LAN	1x Ethernet 10/100/1000 Mbit/s (4 kV isolated)			
	Audio	1x Speaker & 1x Line-In			
Power	9-36 V DC with external medical grade PSU				
Environmental	Operating	0°C to 35°C/ 5% to 90% rel. humidity (non-condensing)			
	Storage	-20°C to 60°C/ 5% to 90% rel. humidity (non-condensing)			
Mechanical	Dimensions (mm)	352 x 224 x 57	399 x 263 x 71	352 x 224 x 57	399 x 263 x 71
	Weight (Kg)	3.2	4.3	3.2	4.3
	Housing	Aluminum, powder-coated, anti-bacterial			
	Mounting	VESA 100 x 100			
Certificates	IEC60601-1:2012 & EN60601-1:2013 (Safety ed. 3.1) IEC60601-1-2:2014 & EN60601-1-2:2015 (EMC 4th edition)				

MLC-AL/MLC-KL

Medical Grade All-in-One Panel Computer with 13.3"/15.6" Full HD Display

Features

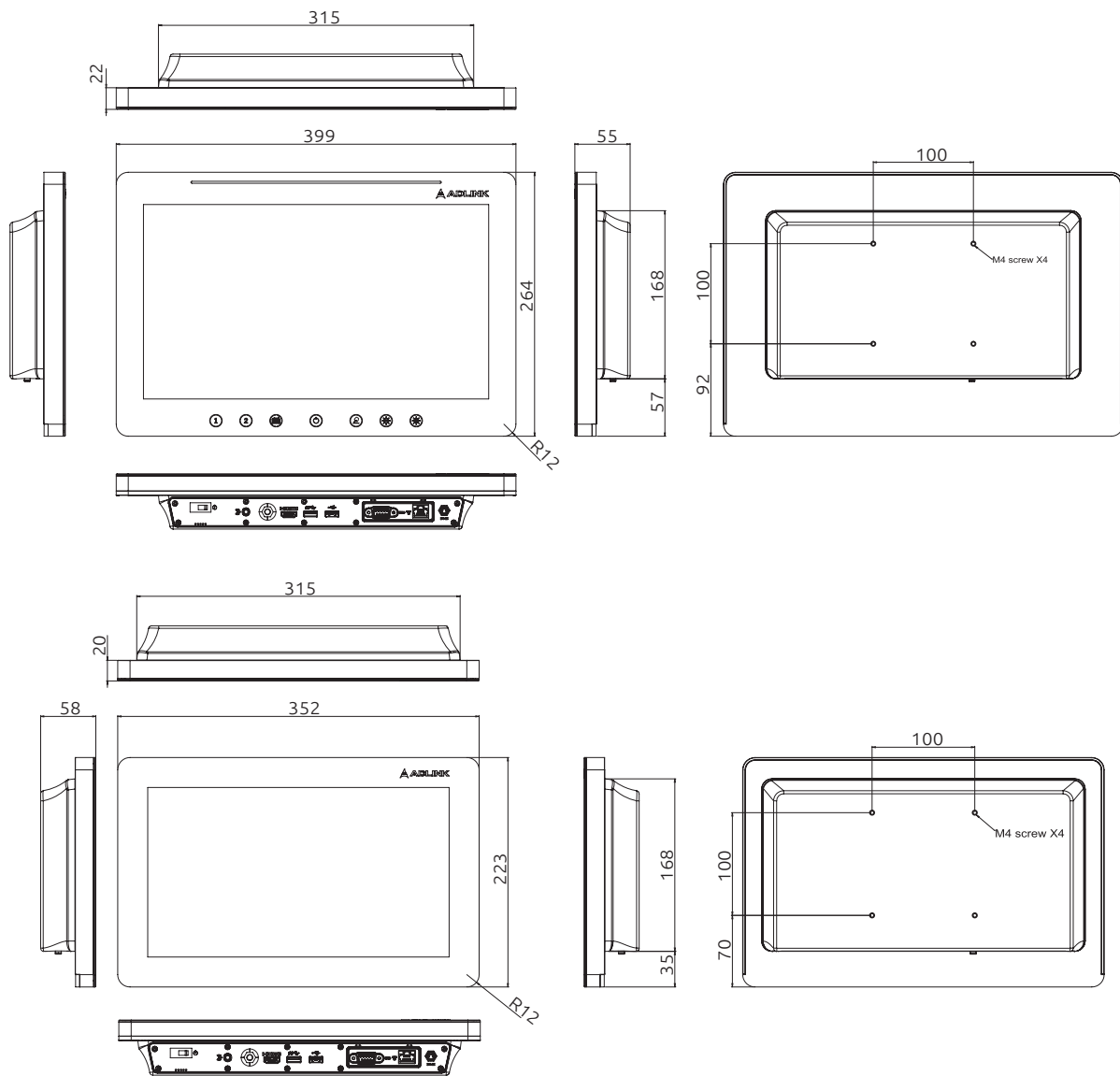
- Medically certified panel computer
- 13.3" or 15.6" Full HD display with PCAP multi-touch touchscreen and anti-glare coated safety glass for unsurpassed visualization capabilities
- Edge-to-edge glass surface and patent-pending, screwless design allows for easy and faster cleaning and disinfection procedures
- Fully sealed aluminium housing and fanless design for high hygienic standards with water/dust proof front cover and 360 degrees anti-bacterial treatment
- Dust- and liquid-proof front unit
- Galvanically isolated network and serial port isolation for installations in mixed environments



System	
CPU	Intel® Atom® x5-E3930 processor Intel® Core™ i3-7100U 2.4 GHz
RAM	4GB DDR3L
Storage	M.2 64GB SSD
Interfaces	
I/O	1x USB 2.0, type A, OCP, 1000 mA 1x USB 3.0, type A, OCP, 1600 mA
	1x HDMI
	1x GbE, RJ-45, 4kV isolated, supports WOL
	1x RS-232/422/485, 4kV isolated
Optional User Interface (only for 15.6")	1x Speaker 1x Mic-in
	7 Illuminated keys on the front glass the following functions: -Standby ON/OFF -Touch cleaning enable/disable -Panel brightness increase -Panel brightness decrease -Display keyboard ON/OFF -2 x customizable function keys
Optional Indicator (only for 15.6")	LED status bar

Electrical	
Power	9~36V DC (external medical grade PSU)
Display & Touch	
LCD	13.3" /15.6" Full HD 1920x1080
Luminance	360 cd/m ² / 270 cd/m ²
View Angle(V/H)	178°/178°
TouchScreen	Multi-point PCAP
Mechanical	
Dimensions (WxHxD)	MLC-133: 352x224x57 mm MLC-156: 399x263x71 mm
Weight	MLC-133: 3.2 kg MLC-156: 4.3 kg
Housing	Aluminum powder-coated, anti-bacterial
Mounting	VESA 100x100
Environmental	
Operating	0°C to 35°C 5~90% RH, non-condensing
Storage	-20°C to 60°C 5~90% RH, non-condensing
Certificates	
	IEC 60601-1:2012 & EN 60601-1:2013 (Safety ed. 3.1) IEC 60601-1-2:2014 & EN 60601-1-2:2015 (EMC 4th ed.)

Dimensions



Ordering Information

MLC-133-AL	13.3" Full HD Display with multitouch, Intel Atom® x5-E3930, 4GB RAM, 64GB SSD
MLC-133-KL	13.3" Full HD Display with multitouch, Intel® Core™ i3-dual core, 4GB RAM, 64GB SSD
MLC-156-AL	15.6" Full HD Display with multitouch, Intel Atom® x5-E3930, 4GB RAM, 64GB SSD
MLC-156-KL	15.6" Full HD Display with multitouch, Intel® Core™ i3-dual core, 4GB RAM, 64GB SSD

Options

DDR3L-8	8GB RAM
SSD-128	M.2 SATA SSD 128GB
SSD-256	M.2 SATA SSD 256GB
Medical grade power adapter	Medical grade power adapter, 65W AC input: 100-240V, 47-63Hz
Operating System	Windows® 10 IoT Enterprise x64 bit
User Interface (only for 15.6")	Illuminated Front Touch Buttons
Indicator (only for 15.6")	LED status bar