

OR-PC® 55 4K

24/7 operation in medical and hygienically critical areas



The OR-PC®, with its completely enclosed and fanless design, can be disinfected easily and has been specially developed for continuous operation in medical applications. It is characterized by an extremely high degree of customization and flexibility, is exceptionally robust, durable, maintenance-free and perfectly engineered to the high demands of clinics and practices.

Fields of application

- + ICU, IMC, ORs
- + PDMS and CIS applications
- + preparation and recovery room



OR-PC® 55 4K

Technical data

Product description	
Design	fanless compact PC developed for 24/7 operation in the patient environment and enhanced for convection cooling
Housing	compact housing for the PC, display and power supply unit in an extremely robust lightweight metal design
Cooling	special zone cooling system developed by ACL without any mechanically moving parts and maintenance-free
Cleaning	wiping all exterior surfaces with commercially available disinfectants

Suitable ambient conditions	Operation	Storage
Temperature	0 to 40 °C / 32 to 104 °F	-10 to 60 °C / 14 to 140 °F
Relative humidity	10 to 90 % non-condensing	5 to 70 % non-condensing

Standard conformity	
IEC 60601-1	electrical safety for devices in the medical environment
IEC 60601-1-2	electromagnetic compatibility for devices in the medical environment

Panel description	Standard equipment	Options
Lacquering	light grey RAL 7035	germ-reducing nanolacquering, other color tones in conformity with RAL
Protective panel	4mm protective pane with anti-reflection coating (AR)	
Dimensions (W×H×D)	1263×753×74 mm / ca. 49.7×29.6×2.9 inches	
Standard mounting	built-in VESA-200×400 interface	extensive mounting solutions available as accessories
Weight	ca. 39,5 kg / ca. 87 lbs	customized design available depending upon equipment
Power supply unit	90-240 V / 50 / 60 Hz / 110 W internal	
UPS	none	optionally possible
Front keypad	on/off button for PC, 2 buttons for display brightness, 1 button for backlight switch-off, 1 button for shortcut keyboard	customized keypads and display with special functions

Computer module	Standard	Options
Mainboard	long-term availability industrial mainboard, mITX standard for easy mainboard module replacement and system upgrades	
Processor platform	Intel® Whiskey Lake	Intel® Tiger Lake
Processor	Intel® Core™ i5/i7 up to 4.4 GHz	
RAM	8 GB DDR 4	up to 64 GB DDR 4

Display module	
Display typ	55" TFT display with Ultra-HD resolution and full glass front
Color depth	1.07 billion colors
Native resolution	3840×2160 px
Contrast ratio	4000:1
Luminance	500 cd/m ²
Viewing angle	178°/178°
Graphics	Intel® UHD Graphics 610 (for Intel® Celeron® Whiskey Lake), Intel® UHD Graphics 620 (for Intel® Core™ i5 / i7 Whiskey Lake), Intel® Iris® Xe Graphics (for Intel® Core™ i5 / i7 Tiger Lake)
Optional features	PCAP touchscreen

Network access	Standard	Options
Ethernet	2× 10/100/1000 MBit with RJ45 connection (not decoupled)	100/1000 MBit glass-fiber connection, Wi-Fi 6, RJ45-network decoupling, 1× 2.5 GBit with RJ45 connection (not decoupled)

Interfaces	Standard	Options
Second screen	2× DP++	1× DP, 1× HDMI
Serial	1× RS232 (gpod D-SUB, not decoupled)	up to 4× RS232 (max. 1 decoupled)
USB	4× USB 3.1 (not decoupled)	2× USB 2.0, 1× USB-C (not decoupled)
Slots	PCIe x4 (Gen. 3)	integration of grabbercards
Audio	onboard sound; mic in, line out (standard for Intel® Whiskey Lake, optional for Intel® Tiger Lake)	body-impact-speaker optional
Input units	none	e.g. keyboard, mouse, RFID reader, web camera, barcode reader
potential equalization	onboard	

Bulk storage	Standard	Options
Hard disc	128 GB M.2 NVMe SSD	up to 2 TB M.2 NVMe SSD

Accessories/software	Standard	Options
Accessories	manual, power cord	wide range of adapters and cables available, sets made of short-stroke keyboard and mouse easy to disinfect, 2 m cable for potential equalization
Operating system	none	Microsoft Windows 11 Pro OEM, Microsoft Windows 10/11 IoT (15/17)

Warranty	Standard	Options
Duration	24 months	up to 60 months

Note: Not all options can be combined with one another. Other equipment available upon request. We reserve ourselves the right to make changes for technical advancement. ACL OR-PC® 55 4K EN © 07.23 Rev. 1.9 by ACL GmbH

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