

OR-PC[®] 27 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® 27 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 | Corning® Gorilla® Glass with anti-reflection coating (AR) and anti-fingerprint coating (AF) | |
| Dimensions (W×H×D) | ca. 652×424×63,5 mm / ca. 26×17×3 inches | |
| Standard mounting | built-in VESA-100 interface | extensive mounting solutions available as accessories |
| Weight | ca. 10 kg / ca. 22 lbs | customized design available depending upon equipment |
| Power supply unit | 90-240 V / 50 / 60 Hz / 110 W internal | wide-range 12-24 V direct current input |
| 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 | 27" TFT display with Ultra-HD resolution and full glass front |
| Color depth | 16.7 millions colors |
| Native resolution | 3840×2160 px |
| Contrast ratio | 1000:1 |
| Luminance | 350 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, optical bonding |

| 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® 27 4K EN © 07.23 Rev. 1.8 by ACL GmbH

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