

JAO18

18.5" Smart Terminal for the patient bedside



- **Designed for patient infotainment at the bedside**
- **Multi-touch screen LED panel**
- **With optional integrated barcode scanner**
- **With a range of customization options**

Barco's JAO18 bedside terminal has been specifically designed for use in a clinical environment - by patients as well as clinical staff. It offers multi-touch access to a host of tools and services - all presented on a high-quality LED panel for the best viewing comfort.

Designed for the patient room

Featuring anti-bacterial plastics, an easy-clean design, and a front screen that is IP-65 rated, this bedside terminal fully complies with the latest hygiene and safety standards (EN/UL 60601-1 certified*).

Engaging and empowering patients

JAO18 brings patients everything they need for an incredible infotainment experience. Thanks to this bedside device, patients won't have to miss their favorite TV or radio show while in the hospital. They can surf the net, play games, order video-on-demand, and much more. The terminal's full HD video playback capabilities and HDMI input to connect game consoles, Blu-ray players, smartphones, or tablets all contribute to keeping your patients happy during their hospital stay.

A personalized patient experience

You can order JAO18 with a smart handset, featuring an integrated keypad and optional service call button to boost patient comfort even more. Thanks to the integrated smart card and RFID reader for patient authentication, patients can access a host of personalized services, such as meal ordering, medication information, and information about the care team. That's exactly how JAO18 enables the most personalized patient experience.

At your service, for your convenience



JAO terminals have been designed by experts in software for interactive patient care. It means we know how to make hardware and software work together. With our software development kit, we provide the perfect tool for any patient room. What's more, thanks to our Custom Configuration Program, we can customize every bedside terminal to match your specific needs.

*In combination with external peripherals, including the JAOHandset, IEC 60950-1 certified instead.

Product specifications

JAO18

General specifications

| | |
|------------------------------------|---|
| Display | 18.5" WXGA (1366 x 768), Wide-screen (aspect ratio 16:9) Large viewing angle (170°/160° hor/ver typical) Long life-time (50,000 hrs MTBF) |
| Backlight | LED, High luminance (300 cd/m ² typical) Backlight brightness (+ on/off) controllable by software (GPIO) |
| CPU | Intel® Celeron® Processor J1900 System-on-Chip (SoC) 2.0 GHz Quad-core with Burst up to 2.42 GHz |
| Graphics chip set | Integrated Intel® HD Graphics (Gen7) Hardware-accelerated video decoding support with Intel® Quick Sync Video |
| BIOS | AMI BIOS, 8M-bit SPI ROM DMI information with unique identifier information |
| Storage capacity | 2.5" Storage bay Standard 32 GB SSD installed |
| System memory | 1 slot DDR3L 1333 S/O-DIMM socket, Support up to 8GB capacity Standard 2 GB installed |
| Operating system | Linux: Ubuntu 14.04.1 LTS and equivalent Windows®: 7, 8 & 10 |
| Connectivity | Gigabit Ethernet LAN, RJ45 (x1, on rear) USB 2.0 (x2 on bottom, x3 on rear) Headphone connector, 3.5mm mini jack (x2) Handset connector (x2, internal left or right), compatible with optional JAOHandset HDMI input (x1, on bottom), 720p HD Ready resolution Use as stand-alone screen to connect external source such as a gaming console Service Call connector for use with SC button on optional JAOHandset, RJ11 (x1, on rear) -Input rating: +12V to +48V @ max. 20mA Programmable GPIO (for Backlight control, Multipurpose buttons on the front, Audio, ...) |
| User interface | Capacitive 10-point Multi-touch screen, P-CAP touch technology Note: Resistive single-touch optional, available from OEM program Multi-purpose capacitive touch keys in glass front-bezel Standard On/Off switch, extra buttons available from Custom Configuration Program |
| Webcam | Integrated HD Camera (720p), with privacy LED indicator |
| Audio | Integrated stereo speakers, 2 x 2 Watt, down-firing Internal digital microphone |
| Medical environment considerations | Antibacterial material (plastic housing) Fanless design with passive cooling concept, no vents, no moving parts IP65 front face |
| Certifications | CE, FCC class B, EN 60601-1, UL 60601-1, IEC 60950-1 CB ANSI/AAMI ES60601-1, CAN/CSA-C22.2 No.60601-1 |
| Color | Barco White cover, Black bezel front glass |
| Dimensions | 482 x 309 x 48 mm |
| Weight | VESA mount, 75x75 and 100x100 compatible 4.8 kg |
| Power | 19V DC input, 4.74A current rating, medical wide AC-input power supply EU + US power cord standard |
| Power consumption | 29W max. / 24W typ. / 2W stand-by (Hibernate/Sleep) |
| Warranty | 24-months standard warranty Up to 5-years extended warranty contracts available |

Accessories

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|------------------------------|--|
| Combined SCR and RFID reader | Combo Smart Carder Reader (SCR) + High-frequency RFID reader, with RFID contactless tapping and card parking support Standard, integrated |
| Barcode scanner | 2D Barcode scanner Optionally available from Custom Configuration Program, integrated |
| WiFi | Combo WiFi 802.11b/g/n + Bluetooth Mini PCIe module Optionally available from Custom Configuration Program, integrated |
| Bluetooth | Combo WiFi 802.11b/g/n + Bluetooth Mini PCIe module Optionally available from Custom Configuration Program, integrated |
| USB TV tuner module | ATSC or DVB TV tuner USB dongle (for installation in the wallbox) Optional, external accessory |
| Handset | JAOHandset with phone, hook switch and key membrane and optional remote control buttons, Service call function, 2D barcode scanner (Comes with cradle, left or right side mounting) |
| Service call | Optional, external accessory Optional, on JAOHandset |

Other specs

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|-----------------------|-----------------------------|
| Operating temperature | 0°C to 40 °C |
| Storage temperature | -20°C to 60°C |
| Operating humidity | 20% to 80% (non-condensing) |
| Storage humidity | 20% to 80% (non-condensing) |
| Operating pressure | 70 kPa to 106 kPa |
| Storage pressure | 70 kPa to 106 kPa |
| Operating altitude | Up to 3000m |

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