

Introducing the ProConnections Medical Consultation System

ProMCS-3000

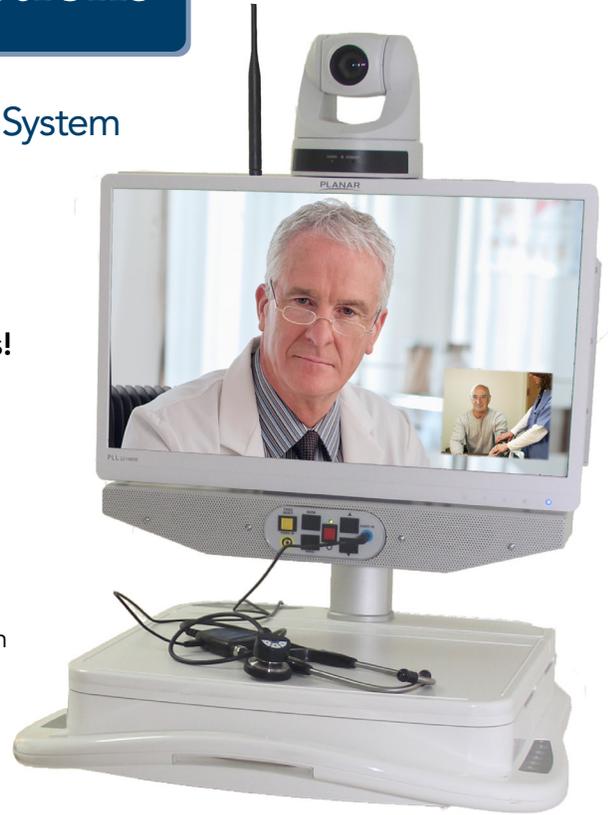
The next generation ProConnections telemedicine solution offers both High Definition and Standard Definition options!

Based on first-hand observation, the ProMCS-3000 allows an offsite physician to assess a patient's condition and quickly provide treatment options to the onsite caregiver, often preventing rehospitalization.

Better patient outcomes. Lower readmission rates.

At a fraction of the cost of most telemedicine consultation systems, the ProMCS-3000 offers a powerful and effective real-time audio/video solution that lets the physician, and up to three additional medical professionals, discuss symptoms directly with the patient and caregiver. Utilizing the ProMCS-3000 and peripherals, such as an electronic stethoscope and otoscope, as well as the unit's high quality 18:1 zoom camera, a physician can remotely:

- » examine the patient including a close-up observation of wounds, skin, etc.;
- » listen to the heart and lungs with a stethoscope;
- » review video of the inner ear, nose and throat with an otoscope.



A Reliable Tool For:

- » Hospitals (ICUs, ER, Patient Rooms)
- » Long-Term Care Facilities (Treat or Transport, Patient Rooms)
- » Mental Health Facilities
- » Correctional Facilities



No longer constrained by the inherent limitations of a phone conversation, doctors using the ProMCS-3000 can give patients better quality of care! For more information, call (978) 692-2154 ext. 20, email us at sales@proconnections.com, or register on our website at www.proconnections.com.

QUALITY CARE. REDUCED COSTS. IMPROVED PATIENT EXPERIENCE.

- » Timely and accurate assessment of the patient's condition
- » Access to specialists for help with diagnosis, evaluations and medications
- » Reduction in unnecessary rehospitalization, decreasing stress to the patient.
- » Increased physician coverage and elimination of travel time.
- » Improved collaboration of care during transfers between facilities.
- » Customized options to suit your needs.



ProMCS-3000 Specifications



SYSTEM COMPATIBILITY

- » **SIP compliant:** Interoperable with standards-based video systems (SIP V2.0).
- » "Direct Signaling" provides for operating without any additional investment.

STANDARD COMPONENTS

Unit includes: Video server; 21" integrated LED flat panel monitor; (max. resolution 1920 x 1080); Standard Definition PTZ camera with 18X zoom lens; Sound bar with integrated microphones and speakers; Cables; One-touch control panel.

VIDEO HARDWARE

- » **Inputs:** Two analog SD inputs (NTSC/PAL); Two HD inputs (DVI-D) (Optional DVI-A both up to 1080P resolution).
- » **Outputs:** Composite output (RCA); HDMI output (1080P analog); (Optional component output -1080 analog).

Features: 16:9 Widescreen format on HD outputs; 4:3 SD format on NTSC output; Dual monitor capability; Three scaling modes for camera input (stretch, bars, and crop); High quality image capture (up to 1920 x 1080 resolution).

AUDIO HARDWARE

- » **Inputs:** Two wideband microphone inputs primary channel; Line level stereo inputs for diagnostic secondary channel; Audio inputs may be mixed, scaled muted at will.
- » **Outputs:** Dual speaker outputs 6 watts per channel individually adjustable.

CAMERA HARDWARE

- » **Standard camera:** 1/4 EXview HAD CCD; 18X optical zoom lens (high definition camera option).

USB PORTS

- » Two USB 2 ports.

NETWORK INTERFACE HARDWARE

- » Gigabit ethernet port.
- » 802.11 b,g,n wireless ethernet port.
- » Bluetooth 2.1+EDR & BLE.

ALARM INTERFACE HARDWARE

- » Dry contact alarm interface with programmable enunciation (local, client or server based).

HARDWARE FOOTPRINT

- » **Diameter:** 20"
- » **Height:** 15"
- » **Depth:** 7"
- » **Weight:** 14 lbs.
- » **Power:** Input: 100-240 volts 50-60 Hz; 2.1 Amps. Output: 12 volts DC.

ENVIRONMENTAL SPECIFICATIONS

- » **Operating Temperature:** 0 - 40°C.
- » **Operating humidity:** 10 to 85% RH non-condensing.
- » **Non-operating temperature:** -40 to 70°C.
- » **Non-operating humidity:** 10 to 90% RH non-condensing.

APPROVALS & COMPLIANCE

- » IEC 60601-1-3 ED.
- » Compliance with FCC 47 CFR Part 15.
- » FDA Class 1 Medical Device Data System.
- » Medical Device Directive EN 60601-1.

VIDEO PROCESSING

- » MPEG 4 AVC (Part 11, H.264 baseline) video. encoding/decoding.
- » QCIF, CIF, 4CIF, VGA, SVGA, 720P and 1080P resolutions.
- » 30, 20, 14, 10, 5, 1 Frames per second.

VOICE PROCESSING

- » Full duplex speakerphone.
- » Narrow and wide band operation (8 and 16 KHz sample rates).
- » Acoustic echo canceller.
- » Noise cancellation.
- » Non-linear echo suppression (ERL greater than 28 dB for F = 300-3400 Hz).
- » Double-talk detection.
- » **Protocols:** SIP V2.0 (RFC 3261, 3262, 3262, 3264); SDP (RFC 2327); RTP (RFC 1889, 1890); RTCP (RFC 1889); STUN (RFC 3789); SIPS (RFC 3261); SRTP (RFC 3711, 4568); MKI (Described in RFC 3711); AES (Supports 128, 195, 256 bit encryption keys).

VOICE CODECS

- » G.711, G7.22, G.729A, G.729.

VOICE FEATURES

- » VAD, DTX, CNG, PLC.
- » Dynamic jitter buffer.
- » Dynamic payload negotiation.
- » Codec name assignment.
- » Adjustable audio frames per packet.

BANDWIDTH OPTIMIZATION

Continuous bandwidth monitoring during a call adjusting the video parameters spatially and temporally, to insure that the call "fits" in the available bandwidth. Bandwidth optimization software configurable to allow for favoring temporal or spatial optimization.

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