

# ORC-421

OR INTEGRATION SYSTEM  
OR CONTROL PANEL

**artech**  
art of technology

Medical Computer Solutions



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**The Artech Operating Room Control Panel** allows you to control various systems such as the operating room HVAC system, isolation transformer, operating room lighting, negatoscope, music broadcasting, clock, and stopwatch from a single panel. It also enables monitoring of environmental conditions like temperature, humidity, pressure, and HEPA filter contamination, along with related warnings and malfunctions. Easily manage all the necessary systems to ensure the optimal working environment in the operating room using the touch screen and record changes for reporting.

## KEY FEATURES

- **21" Touchscreen, Color TFT Display:** Provides ease of view and control from a distance.
- **Digital Hygrometer for Humidity Control:** Alerts for low and high humidity.
- **Digital Room Differential Pressure Gauge and Control:** Alerts for low and high pressure.
- **Digital HEPA Filter Contamination Indicator**
- **Digital Thermometer for Temperature Control:** Alerts for low and high temperature.
- **Trend Graphs:** Shows time-based changes of set and actual values for temperature, humidity, ambient pressure, and HEPA filter differential pressure.
- **Economical Standby Mode:** Half-speed control for HVAC system.
- **Shut-off Half Damper Control**
- **Anesthetic Gas Evacuation Control**
- **Central Medical Gas Alarm System**
- **Lighting Control:** Separate on/off control for four different fixture groups, each with its own dimmer function.
- **Operation Lamp Control:** Separate on/off control for three different operation lamps, each with its own dimmer function if desired.
- **Handsfree Video and Audio Communication**
- **Parameter Recording and Reporting**
- **Sound and Music System Control**
- **Digital Negatoscope and Radiology Monitor Control and Reporting**
- **Digital Clock and Digital Stopwatch**
- **Definable User Levels:** Password-protected access to settings and control functions.
- **Isolation Transformer Leakage:** Alerts for isolation leakage, temperature, and current limits with audible alarms for limit exceedances.
- **Historical Warning Record Storage**

## TECHNICAL SPECIFICATIONS

### ORDER CODE

CPU	: J6412 / i5 / i7
PSU	: AC220
RAM	: R4 / R8
HDD	: 500GB HDD(Ops) / SSD64 / SSD128 / SSD256
Wifi	: Optional

### SYSTEM

CPU	: Intel® Celeron® Processor J6412
Cache	: 2nd Level Depends on CPU
Memory	: 2 x DDR3 SoDIMM max. 4GB / 8GB
Control	: Intel® Soc
Watchdog Timer	: 255 Level Reset

### INPUT/OUTPUT

Serial Port	: 3 x RS-232 Ports
Parallel Port	: SPP/EPP/ECP
USB Port	: 4 x USB 2.0
KB / MS	: 1 x PS2 K/B and Mouse
LAN	: 2 x LAN Realtek Gigabit Ethernet
Wireless LAN	: 802.11 b / g (Optional)
Audio	: Line in & out (AC'97 codec audio)
Expansion Slot	: PCIe/MiniPCIe

### DATA STORAGE

HDD / Type	: Vibration Resistant 2.5" (500 GB HDD)
SSD	: 64 GB / 128GB / 256 GB

### FEED

Input	: 220 VAC or 24 VDC
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### LCD SCREEN

Type and Size	: 21" / 16:9
Pixel Pitch	: 0.297mm x 0.297mm
Max Color	: 16.7 M
Brightness	: 350
Contrast Ratio	: 1000/1
Viewing Angle	: 160°(H),160°(V)
Back Light MTBF	: 50,000 Hours
Touch Screen	: 21" Capacitive Touch

### MECHANICAL & ENVIROMENTAL FEATURES

Working Temp.	: 0 ~ 60°C
Storage Humidity	: 5 ~ 95% (Non-Condensing)
Case	: Heavy Duty Metal Case
Front Frame	: Special Inset Glass
Weight	: Variable according to screen size
Dimensions	: Variable according to screen size
Mounting	: Built-in

