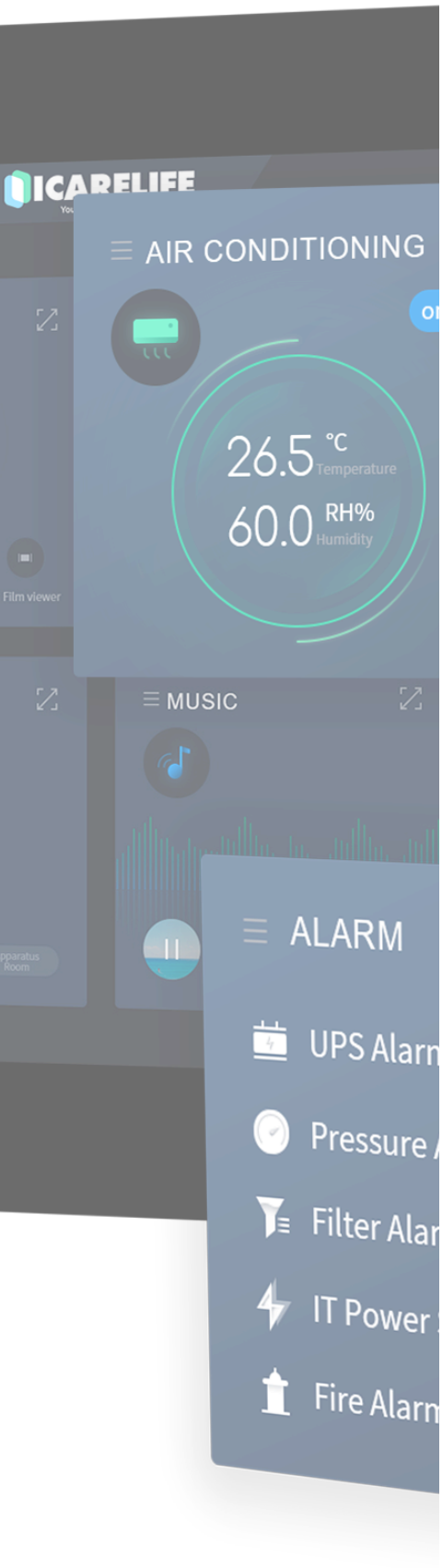
OPERATING ROOM CONTROL PANEL



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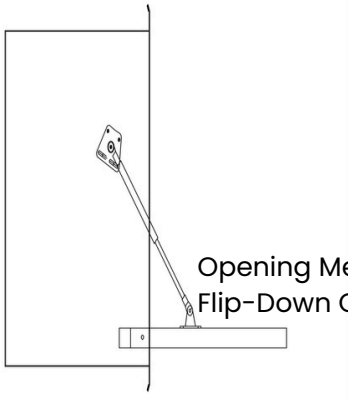
ICARELIFE Operating room control panels manage lighting, operation lamps, negatoscope, and provide real-time data on temperature, humidity, and pressure. They can connect to external sensors and offer features like communication with gas panels, automation systems, hands-free phone functionality, and integrated music systems.

Features

32" Capacitive Touch Screen LCD monitor
Operating Room Facility Control: Light 1, Light 2, Shadowless Light, Led light, Medical Door, **X**-ray View, Writing Desk.etc (on/off)
Environment Data Display & Control: Tempe, Humidity and HVAC data. etc. (through **M**odbus RS-485 protocol)
Medical Gas Display & Alarm
IT Power Supply Alarm, UPS Alarm, Fire Alarm, Filter Alarm, Room Pressure Alarm
Other Function: Music (Remote, Local and Bluetooth) Phone and Video Call

Panel Glass Size : 813 (w)*541(h)mm
Panel Box Size: 821(w)*549(h)*200(d)mm
Wall Opening Size : 826(w)*554(h)*200(d)mm
Overall around : 880(w)*605(h)*200(d)mm



Opening Method:
Flip-Down Opening

Material: 304 Stainless Steel Flange Edge + Frameless Design

SURGICAL CONTROL PANEL

Data Sheet

DISPLAY	
Resolution	1920*1080
Size	32"and Custom Size
Touchscreen	Capacitive touchscreen supports 10-point touch, drag, and swipe gestures
INPUTS	
Temperature	AI1 - Temperature channel, 0-10V vs 0-50.0°C
Humidity	AI2 - Humidity channel, 0-10V vs to 0-100.0%
Room pressure difference	AI3 - Pressure difference channel, 0-10V vs 0-100Pa
System operation	DI1 - System operation signal input, open = stop, closed = run
System alarm	DI2 - System failure signal input, open = normal, closed = alarm
Filter clogging alarm	DI3 - Filter blockage signal input, open = normal, closed = alarm
IT power supply alarm	DI4 - IT power alarm signal input, open = normal, closed = alarm
Automatic door interlock	DI5 - Automatic door signal input, open = none, closed = open
Temperature setpoint output	AO1 - Temperature setting output, 0-10V
Humidity setpoint output	AO2 - Humidity setting output, 0-10V
OUTPUT	
Lighting 1	DO1 - Lighting Relay Channel 1
Lighting 2	DO2 - Lighting Relay Channel 2
Exhaust fan	DO3 - Exhaust fan Relay Channel
Operationg lamp	DO4 - Shadowless light Relay Channel
Negastoscope	DO5 - Observation light Relay Channel
Writing Desk	DO6 - Surgical light Relay Channel
In surgery singal	DO7 - Writing desk Relay Channel
Automatic door	DO8 - Automatic door Relay Channel
Reserve	DO9 - Reserve Relay Channel
Air conditioning communication port	RS485 communication port for air conditioning unit monitoring
Gas communication port	RS485 communication port for medical gas monitoring
Temperature/humidity settings	2 analog channels (AO)
Music	3 channels (Loval/Remot/Blooth)
Alarm	Buzzer (for air conditioning and gas alarms)
Alarm mute	Silence button
Call funciton	Compatible with a call system for nurse station communication
Phone function	Telephone functionality for receiving or making calls, including one-touch dialing
Music function	Supports 3 music playback modes: remote (background music), local, and Bluetooth
MAIN BOARD	
System	Android V8.1
Memory	2G/4G
Hard drive	16G/32G/64G/128G
Built-in speaker	Available （Phone & Nurse Call)
Built-in microphone	Available （Phone & Nurse Call)
Short press touch power button	On(Blue Light) / Off(Red Light)
Long press touch power button	Enter into emergency mode withLight (DO1-DO8) on in red/blue LED flashing
FUNCTION	
Surgery time	Surgery countdown timer
Anesthesia time	Anesthesia countdown timer
Time	Clock and time function
Air conditioning monitoring	Monitoring and control of air conditioning operation status
Telephone system	Telephone system functionality
Call system	Call system functionality
Music system	Music system functionality
Gas system	Monitoring of medical gas status
Control screen function	Control of lighting and other functions
Communication protocol	Supports Modbus RTU / Modbus TCP communication protocols for reading air conditioning unit information or communicating with a host computer
Front Panel Material	DIN4301 (2mm Stainless Steel)