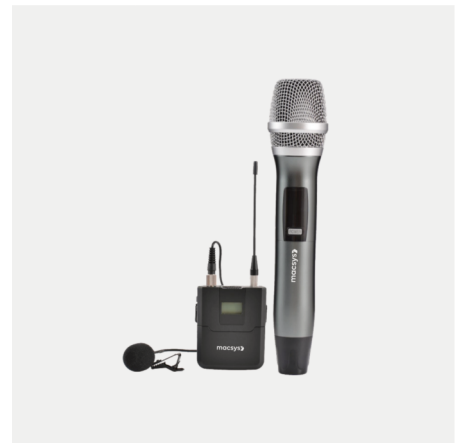
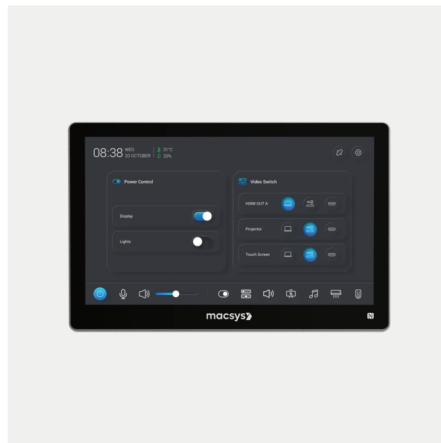


## AVCON-PLUS | Audio-Visual Control Plus



### Key features

- Device Control: Manage devices via a touch panel or web interface.
- Access Control: Secure doors with IC card access; touch panel activation prevents unauthorized use.
- AV Matrix Switch: Route audio and video to multiple displays.
- Push Notifications: Display messages, alerts, and announcements from an admin.
- Panel & Access Control: Unlock/lock with IC card or password.
- Audio & Volume Control: Manage audio sources, and adjust volume, treble, and bass.
- Video & Display Control: Switch video inputs, power displays, and external devices.
- Curtain & A/C Control: Manage curtains and air conditioning settings.
- Device Control: Use IR commands and RS232; manage devices via AVCON-WRM control box or CCU.
- Room Management: Toggle divisible room mode and manage settings.
- Notifications & Capture: Control notifications and lecture capture systems.
- Wireless Transmission: Up to 40 meters, UHF band, up to 24 channels, automatic connection.

## Product Overview

The AVCON-PLUS is a comprehensive solution designed to streamline audiovisual (AV) management in educational settings. This all-in-one device offers centralized control over classroom technology, allowing users to manage connected devices effortlessly through a user-friendly interface. Whether accessed via a touch panel or a web browser, the AVCON-PLUS ensures that all devices work harmoniously together. It supports AV matrix switching, enabling the routing of audio and video signals from multiple sources to various displays, perfect for dynamic presentations. Security is a key feature, with a built-in electronic lock and IC card access control, ensuring that only authorized users can interact with the system. Additionally, the AVCON-PLUS supports push notifications, allowing administrators to broadcast messages, alerts, or announcements directly to Conference or classroom displays. Housed in a durable 1U rack-mountable design, it is built with industrial-grade components, making it suitable for various installation setups in conference Rooms, Boardrooms, classrooms, lecture halls, and other Presentation environments.

Touch Panel serves as the central hub for managing room technology, offering a sleek 10-inch capacitive touchscreen that simplifies control over AV equipment, lighting, and more. This intuitive panel allows users to easily switch between audio and video sources, adjust volume levels, and control power settings for displays and external devices. Security is enhanced with IC card or password access, preventing unauthorized use and ensuring that only permitted individuals can operate the system. The Panel also supports versatile control options, allowing the management of devices via RS232, IR, or Wirelee Relay Module connections. Additionally, it facilitates push notifications and room management, making it an essential tool for dynamic and flexible room setups. Built with a durable tempered glass surface and powered by an Android 10 OS, the Touch Panel is designed for reliability and ease of use, making it ideal for Corporate users and educational institutions looking for a secure, centralized interface to manage Conference and classroom technology.

The Wireless Microphone system is designed to deliver clear, reliable audio transmission across classrooms and lecture halls. With a transmission range of up to 40 meters, this system ensures that presenters can be heard clearly, even in large spaces. The Wireless Microphone supports multi-channel connectivity, allowing up to 24 channels to operate simultaneously without interference, making it ideal for environments where multiple microphones are in use. The system is easy to operate, with automatic frequency matching and an LCD screen that provides real-time information on signal strength, battery life, and connected channels. It also supports dual microphone use, enabling both a handheld and lapel microphone to be connected at the same time, offering flexibility depending on the presentation style. The Wireless Microphone is perfect for teachers and presenters who need a versatile and dependable wireless microphone system to enhance communication in educational settings.

AVCON-WRM Wireless Relay Module is an essential accessory for extending the capabilities of your Controller. This box allows for wireless control of additional devices, simplifying the management of room technology without the need for extensive wiring. It connects seamlessly to the Controller via 2.4GHz wireless transmission, making installation straightforward and eliminating the need for altering existing infrastructure. The Wireless Relay Module enables unified control of devices through the web page, whether via a touch panel or web browser, offering flexibility in how you manage your equipment. With support for RS232, IR, and Relay interfaces, it can control a wide range of devices, providing a scalable solution for expanding AV management capabilities. Each AVCON-PLUS can connect up to four Wireless Relay Module units, allowing for the control of more devices from a single point, making it an ideal choice for Corporate, and educational institutions looking to enhance their conference room, classroom technology setup with a simple, scalable, and wireless control solution.

## Technical Specification

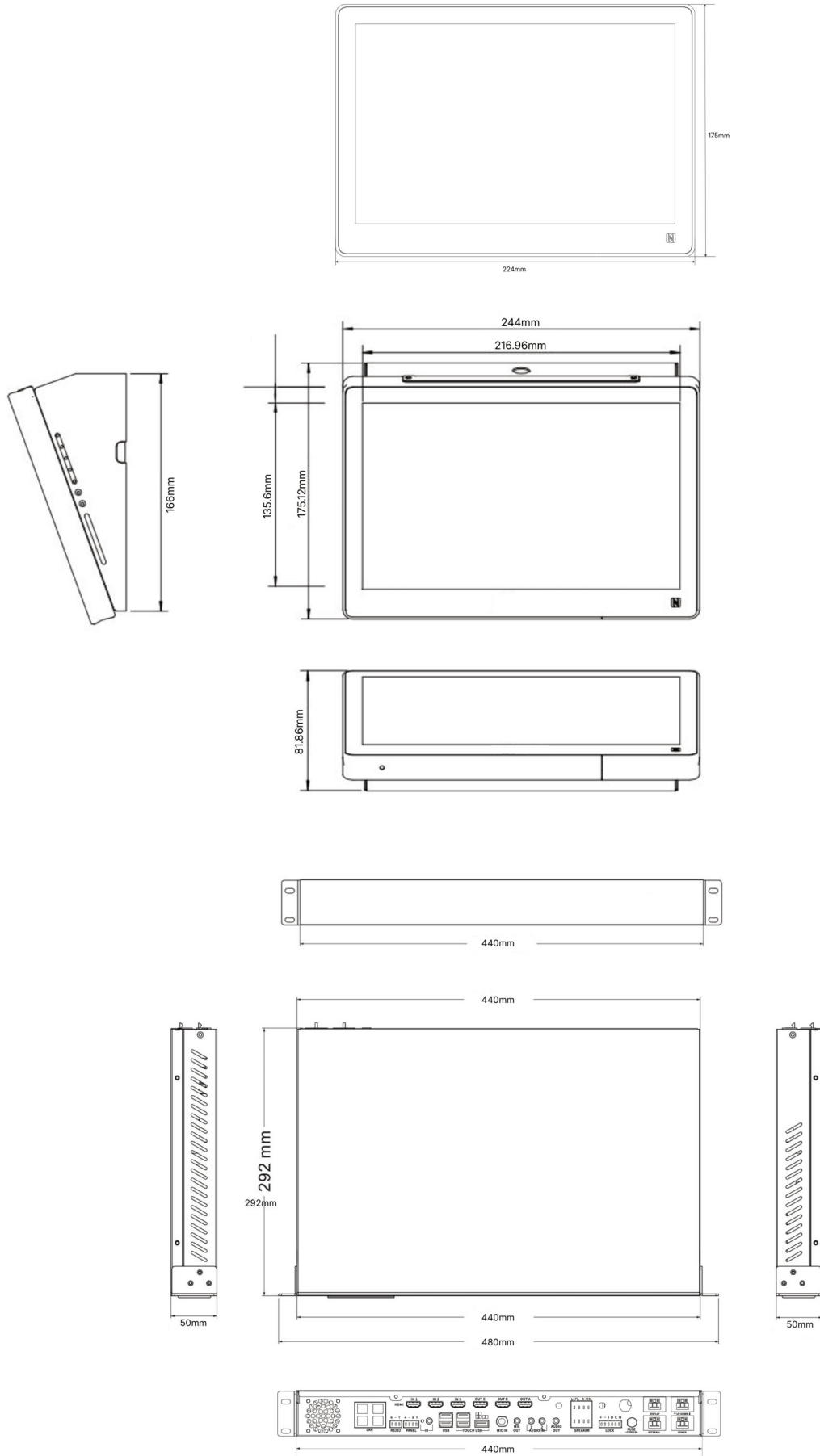
Features	Detail
Controller:	
Motherboard	Industrial-grade embedded motherboard
CPU	High-speed 32-bit CPU
Operating System	Embedded OS
LAN Switch	4 x 10M / 100M RJ45 network switch ports
Audio Inputs/Outputs	2 x 3.5mm line in
	1 x 3.5mm line out (mixed)
	1 x 6.35mm wired MIC in
	2 x UHF wireless MIC in
	1 x 3.5mm MIC out
HDMI Matrix Module	3 x 3 HDMI 2.0 Matrix Module
	Supports 4K@60Hz, HDCP 2.2, and HDCP 1.x
Communication Interfaces	1 x RS232
	2 x USB
	1 x USB-DEVICE
	2 x USB-HOST
	1 x Phoenix 4-pin (for Control Panel and Control Box pairing)
	1 x IR-IN (for learning IR remote control code)
	1 x IR-OUT (for remote control)
Power Amplifier	2 x (40W+40W), supports up to 4 passive speakers (2 pairs, fixed impedance)
Access Control	Power output: 12V, 800mA
	Door switch interface, door lock status interface
	Relay load capacity: DC 3A at 30V
Power Supply	Dedicated power supply for NMP

Power Control	Relay control for light (External) x 1
	Power output and control for display or others (Display) x 1
	Power output and control for projection screen (UP-DOWN port) x 1
Antenna Ports	1 x antenna port for wireless microphone
	2 x antenna ports for Wi-Fi module
Remote Control & Centralized Management	Centralized control and management of classroom devices via the Internet, including remote statistics on equipment usage and energy consumption
Weight	3.9 kg
Design	Standard 1U rack-mount, suitable for various cabinet installations
Dimensions	440mm (L) x 292mm (W) x 50mm (H)
<b>Touch Panel:</b>	
CPU	Quad-core, Main frequency 1.6GHz
GPU	Quad-core
RAM	2GB
ROM	16GB
Operating System	Android 10
Screen	10-inch, 1280×800 IPS
Touch	Capacitive screen with tempered glass, 10-point touch, optical bonding
I/O Ports	x RJ45 (PoE supported)
	3 x USB2.0
	1 x Type-C OTG
	1 x Audio (3.5mm)
	1 x DC (12V)
Physical Button	Power x 1
NFC	Supported
Dimensions	244mm (L) x 171.5mm (H) x 28mm (W)
Working Temperature	-20°C to 70°C
Working Humidity	< 85%
Installation	Desktop stand

Microphone Type	Handheld Microphone	Lapel Microphone
Receiving Sensitivity	≥ 85dBm	≥ 85dBm
Receiver Working Current	5V/180mA	5V/180mA
Frequency Range	640MHz – 690MHz	640MHz – 690MHz
Sensitivity	51dB ± 3dB (0dB=1V/Pa 1 KHz)	51dB ± 3dB (0dB=1V/Pa 1 KHz)
Frequency Response	50Hz – 15KHz	50Hz – 15KHz
Microphone Type	Dynamic cardioid microphone	Condenser microphone
Signal-to-Noise Ratio (SNR)	≥ 65dB	≥ 105dB
Transmit Power	> 20dBm	16-25dBm
Distortion (THD+N)	< 0.5%	< 0.5%
Effective Distance	< 40m	< 40m
Latency	< 5ms	< 5ms
Operating Temperature	-25°C to 60°C	-25°C to 60°C
Power Supply	2 x AA batteries	2 x AA batteries
Microphone Working Current	100mA@3V	200mA@3V
Battery Lifetime	12 Hours	5 Hours

<b>Wireless Relay Module – AVCON-WRM (Optional)</b>	
AC Power Supply	90-300VAC
Input Power Consumption	< 3W
Working Environment	-20°C to 85°C
WiFi	IEEE 802.11 b/g/n 1T1R 2.4GHz
Relay Interface	SPDT
Maximum Load (Resistance)	250VAC, 10A
Maximum Switching Power	2500VA
Communication Interface	1 x RS232, 1 x IR remote control

# Dimension



for more detail reach us @ [www.macsystemech.com](http://www.macsystemech.com) | write us on : [contact@macsys.com](mailto:contact@macsys.com)

©2024 Macsys

Macsys reserve rights to introduce modifications without notice. Product images are for illustrative purposes only, the actual product may vary. Warranty policy applies as described on our website.

