

■DESCRIPTION

The IP-A1PC238 is a PoE-powered Ceiling Speaker with a built-in 8 W amplifier and internal data storage for up to 20 audio files. It supports SIP protocol for flexible integrations with VoIP devices, and its 20 multicast ports are available for group paging operations.

It can also receive broadcasts from Video Management System via ONVIF audio backchannel.

Device control and further system integration is accessed through remote API (HTTP) or local control inputs.

■SPECIFICATIONS

Power Source	PoE (IEEE802.3af Class 3)
Power Consumption	12.95 W (rated output) 5 W (IEC62368-1)
Amplifier Rated Output	8 W
Sensitivity	94 dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise)
Maximum Sound Pressure Level	103 dB (8 W, 1 m)
Frequency Response	60 Hz - 20 kHz (peak -20 dB)
Speaker Component	16 cm (6") cone-type
Audio Codec	PCMU (G.711u), PCMA (G.711a), G.722
Broadcasting Mode	SIP Broadcasting Mode: PCMU/PCMA/G.722, P2P/SIP Server Connection Multicast Broadcasting Mode: PCMU/PCMA/G.722 Auto codec recognition, 20 ports VMS Broadcasting Mode: ONVIF Audio Backchannel, PCMU Internal Message Broadcasting Mode Note: Each broadcast mode can be assigned an order of priority using the Priority Setting function.
Internal Messages	Max. 20 messages (Max. recording capacity: 80 MB) Supported file formats: WAV file: 8/16/44.1/48 kHz sampling frequency, 8/16 bit, monaural/stereo MP3 file: 32/44.1/48 kHz sampling frequency, 64 - 320 kbps, CBR/VBR, monaural/stereo Repeat playback: Playcount (1-10 times), Duration (5-3600 sec) or Timer (from Start time to End time) Interval time: 0 - 60 sec, Delay time: 0 - 30 sec Trigger: Control Input or Remote API (HTTP)
Network I/F	100BASE-TX, Auto MDI/MDI-X, RJ45 connector
Network Protocol	TCP/IP, UDP, HTTP, RTP, RTSP, RTCP, ARP, ICMP, IGMPv3, NTP, SIP (RFC3261)
Control Input	2 channels, no-voltage make contact inputs, open voltage: 5 V DC, short-circuit current: 2 mA or less, removable terminal block (6 pins)
Control Output	1 channel, open collector output, withstand voltage: 30 V DC, control current: 10 mA or less, removable terminal block (6 pins)
Indicator	STATUS (orange), LINK/ACT (green)
Clock Accuracy	±13 seconds per month
Time Adjustment	Manual time setting, Time adjustment by NTP server
Power Outage Protection Period	24 hours (RTC time retention, at 40 °C (104 °F))
Dimensions for Fixing Hole	Mounting hole: $\varnothing 200 \pm 2$ mm (7.87" $\pm 0.08$ ") Ceiling thickness: 5 - 25 mm (0.2" - 0.98")
Speaker Mounting Method	Spring clamp
Operating Temperature	0 °C to +50 °C (32 °F to 122 °F)
Operating Humidity	90 %RH or less (no condensation)
Finish	Frame: Steel plate, white (RAL 9016 equivalent), paint Grill: Steel net, white (RAL 9016 equivalent), paint
Dimensions	$\varnothing 230 \times 89$ (D) mm (9.06" $\times$ 3.5")
Weight	880 g (1.94 lb)
Accessory	Pattern paper ---1, Removable terminal plug (6 pins, preinstalled on the unit) ---1

Note: Please do not install the product near heat insulation material, or cover the product with heat insulation or acoustic absorbing materials to prevent fire risk. Please do not install the product in damp or wet locations or areas with high humidity (condensing) as it may cause damage to the product.

\* ONVIF is a registered trademark of ONVIF Inc.

\* These specifications only apply to the firmware version 2.1.0. For the latest specifications and firmware, please refer to the TOA DATA Library (<https://www.toa-products.com/international/>).

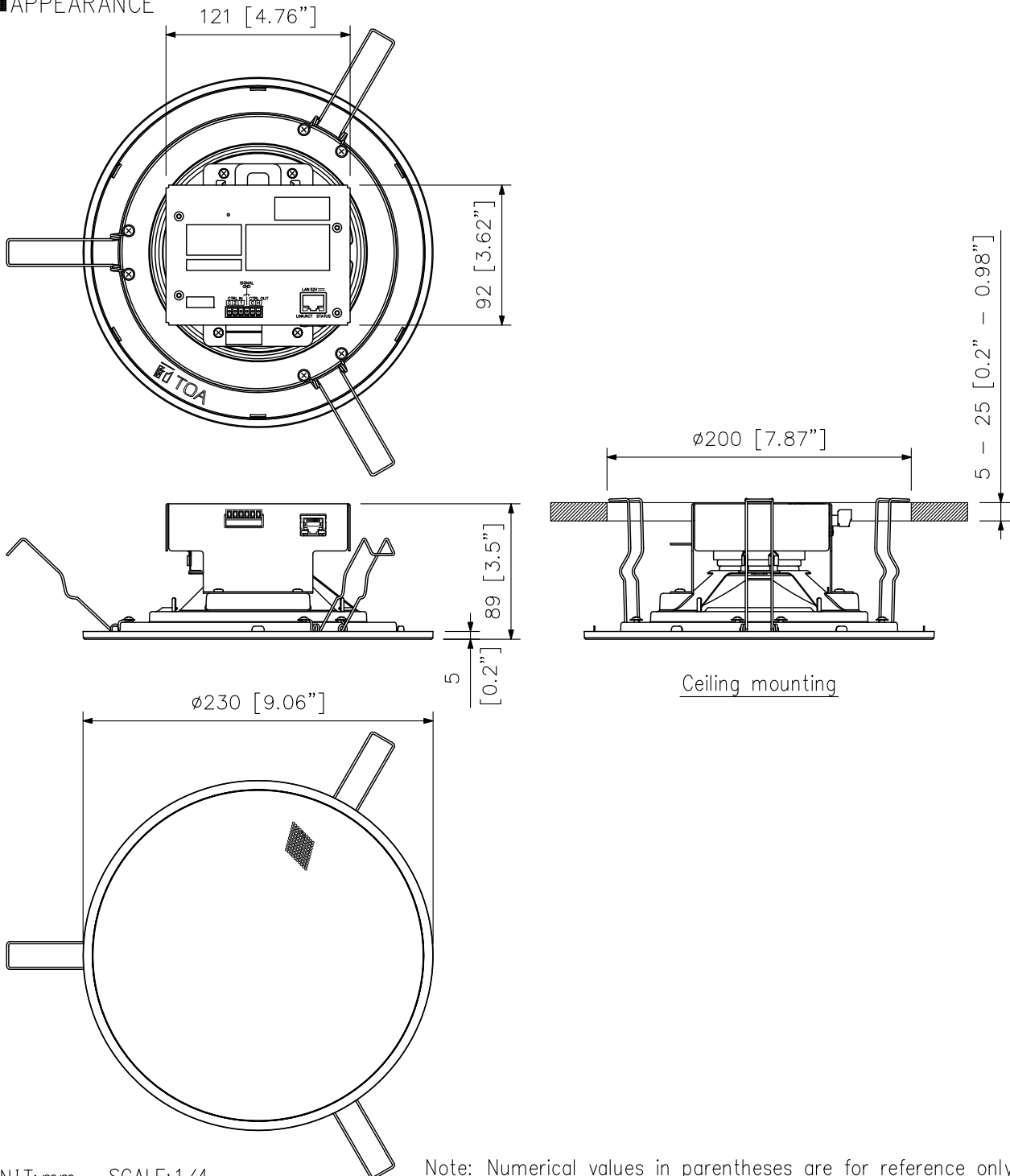
■ SPECIFICATIONS

Personal Computer Requirements

Display	1366 x 768 resolution or higher
OS	Windows 10 Pro (64-bit edition) Windows 10 Home (64-bit edition) Windows 11 Pro Windows 11 Home
Required Web Browser	Google Chrome Microsoft Edge

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- \* Google Chrome is the trademark of Google LLC in the United States and other countries.
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■ APPEARANCE



UNIT:mm SCALE:1/4

Note: Numerical values in parentheses are for reference only.