

## 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)<br>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<br>Multicast Broadcasting Mode: PCMU/PCMA/G.722 Auto codec recognition, 20 ports<br>VMS Broadcasting Mode: ONVIF Audio Backchannel, PCMU<br>Internal Message Broadcasting Mode<br>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)<br>Supported file formats:<br>WAV file: 8/16/44.1/48 kHz sampling frequency, 8/16 bit, monaural/stereo<br>MP3 file: 32/44.1/48 kHz sampling frequency, 64 – 320 kbps, CBR/VBR, monaural/stereo<br>Repeat playback: Playcount (1–10 times), Duration (5–3600 sec) or<br>Timer (from Start time to End time)<br>Interval time: 0 – 60 sec, Delay time: 0 – 30 sec<br>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" $\pm 0.08$ ")<br>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<br>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

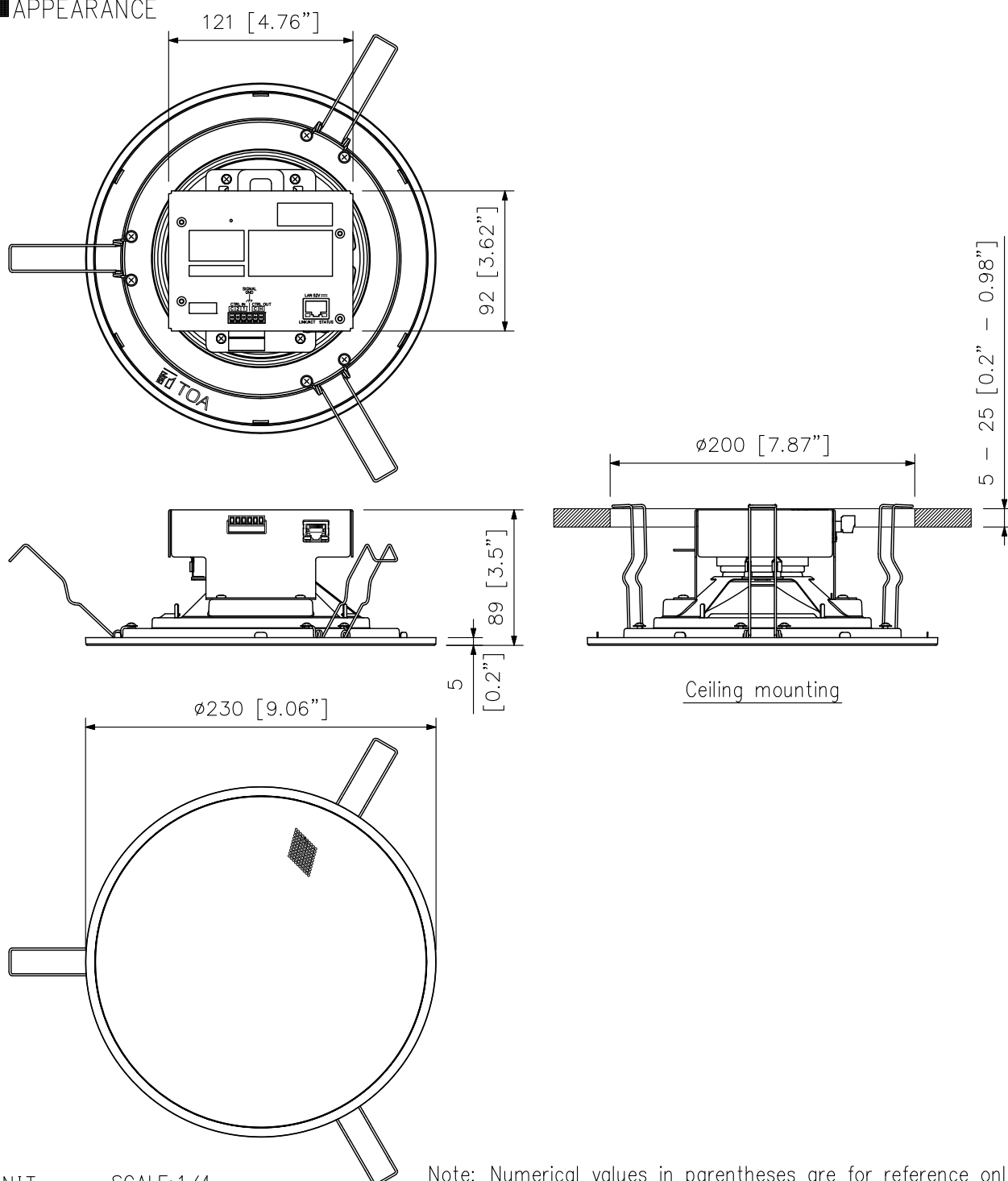
|                      |                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------|
| Display              | 1366 X 768 resolution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

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※ Google Chrome is the trademark of Google LLC in the United States and other countries.

※ Other company names and products are also trademarks of individual companies.

## APPEARANCE



UNIT:mm SCALE:1/4

Note: Numerical values in parentheses are for reference only.