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## ELSIR-10CM

Network Ceiling Speaker, 10W, Ethernet, Microphone

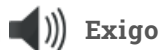


**IC-EDGE** IC-Edge



SIP

 ICX-AlphaCom



Exigo

 Automatic Volume

 HD Voice

 Automatic Gain Control

 Voice Activity Detection

**Network**

- Zenitel Audio Presence - crystal clear audio
- Steel fire dome
- 10W Class D, built-in amplifier
- 96 dB SPL (1m)
- Built in Microphone
- Ideal for Micro Zone PA and systems that require a limited number of speakers
- Each speaker is individually addressable and monitored
- ONVIF Compatible
- Ideal for speakers installed in remote locations, e.g. roads and railways
- Remote software upgrade and configuration
- Relay output for remote control, e.g. doors, signal lamps, gates
- Powered from the IP network cable using Power over Ethernet (PoE)
- Ideal for Building Security, Infrastructure and Industrial projects

## DESCRIPTION

The ELSIR-10CM Ceiling Speaker features a 10W Class D amplifier, utilizing all the power that PoE is capable of. This means that the speaker is capable of delivering up to 96dB SPL (1m), depending on the signal input. The ceiling speaker is designed to be mounted in cut outs in tiles or plasterboard, and is ideal for providing audio to indoor environments where speakers need to be discreet.

The built-in microphone enables new features such as Self-checking, Automatic Volume Control, Ambient Listening, as well as two-way speech via the speaker.

With IP, the system is able to monitor and address each speaker individually. By moving the amplifier from a central unit out to the speaker itself, the need for a central amplifier unit with conventional speaker loops is eliminated. This makes the system highly scalable, and adding another speaker is easy to do.

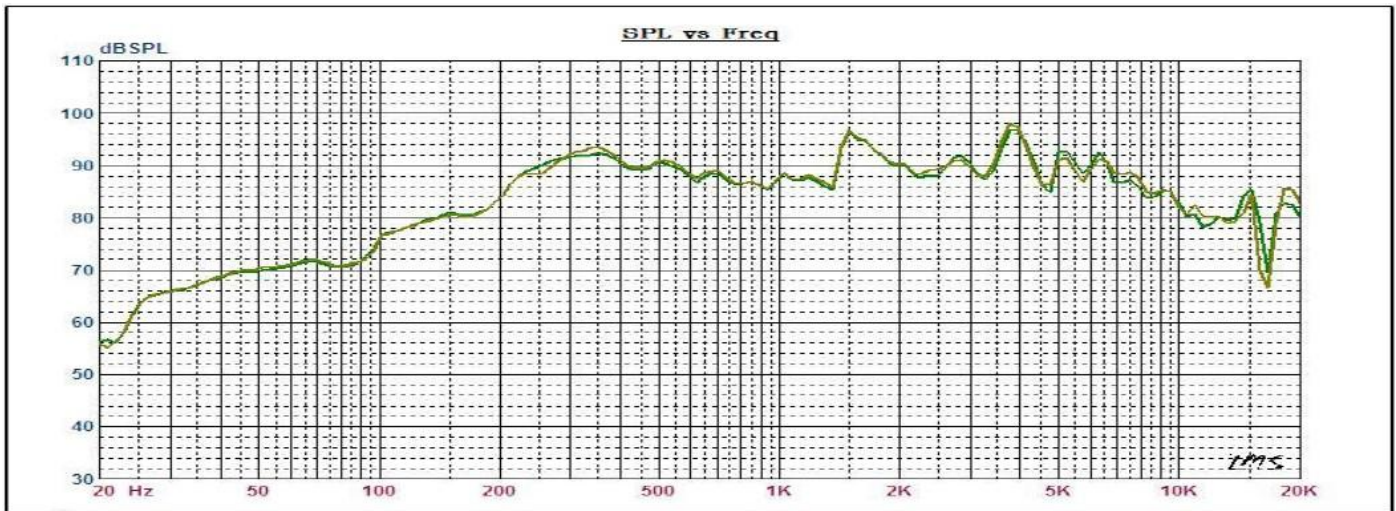
Even though conventional speaker loops are not used, the speakers can still be divided into groups. These zones can now extend over networks or span the Internet.

To provide maximum availability, the speaker comes with advanced supervision functions. The speaker line test will detect whether there are any faults in the network or speaker electronics. The status of the speaker is reported to the central unit as well as to 3rd-party management systems using SNMP or Syslog.

The speaker is also Auto-discoverable, and can receive messages from, and use Talkback directly to a VMS over ONVIF.

The speaker has a built-in web interface for status information, control, and upgrade. It is easy to install and maintain. In addition, there are possibilities where broadcasts can be logged in detailed reports.

Polar Plot:



# SPECIFICATIONS

## GENERAL

Max. SPL 1W / 1m (speaker driver)	91 dB
Codecs	G.711, G.722
Frequency range, G.722 Codec	200 Hz – 7000 Hz
Frequency range (speaker driver)	250 - 10000 Hz
Internal speaker amplifier	10 W class D
Dimensions (diameter x depth)	199 x 146 mm
Weight	1.2 kg / 3 lbs
Mounting	Hooks / fasteners (included)
Material / Color	Steel / RAL 9010 (white)
Electronics cover material	ASA (plastic)
IP Grade	IP-54, tested according to EN 60529
Boxed Shipping weight	1.85 kg
Boxed Shipping dims (Width x Height x Depth)	230 x 230 x 180 mm

## ENVIRONMENT AND COMPLIANCES

Operating temperature range	-40° to 70° C / -40° to 158 ° F
Storage temperature range	-40° to 70° C / -40° to 158 ° F
Relative humidity	< 95% not condensing
EMC	CE and FCC Part 15

## HARDWARE

Ethernet connector	1 x RJ 45
All other connectors	Tool less, spring loaded, vibration proof terminals
General inputs and outputs	6 (configurable)
Outputs	12mA as LED drivers
Change-over relay (NO+NC+COM)	Max: 250VAC/220VDC, 2A, 60W
Power options	PoE
PoE (power over Ethernet)	IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)
Power consumption	Idle 1.8W, max 12W (depending on volume)
Audio line out / induction loop signal	600 Ohm

## NETWORKING AND PROTOCOLS

Protocols	IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, DHCP, SNMP, ONVIF, CCoIP®, NTP
LAN protocols	Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)
Management and operation	HTTP/HTTPS (Web configuration) DHCP and static IP + IC-EDGE. Remote automatic software upgrade. Centralized monitoring
Advanced supervision functions	E.g. network test, tone test, status reports
SIP support	RFC 3261 (SIP base standard), RFC 3515 (SIP refer), RFC 2976 (SIP info)
DTMF support	RFC 2833, 2976 (SIP info)

## OTHER SPECIFICATIONS

System boot time	Under 10 seconds
IP address information	Speaks IP address after system boot (requires connected loudspeaker)
Country of manufacture	Norway
Encapsulation material	ASA plastic
DIN-rail clips	Wago 209 (included)

# TECHNICAL DIMENSIONS

