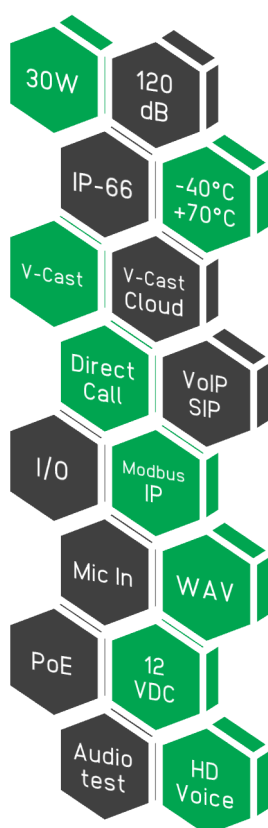


VCLH301P

IP network horn speaker, 30W



- VoIP, SIP
- Class D amplifier
- Microphone input
- Storing audio messages in internal memory
- 2 relays
- 17 inputs
- Housing made of self-extinguishing ABS according to UL94 V-0
- IP-66
- PoE



VCLH301P is an IP network horn speaker designed for broadcasting messages via the IP network infrastructure. The loudspeaker is made of self-extinguishing ABS in accordance with the UL94V0 standard and is intended for indoor and outdoor use, as it has an IP-66 protection rating.

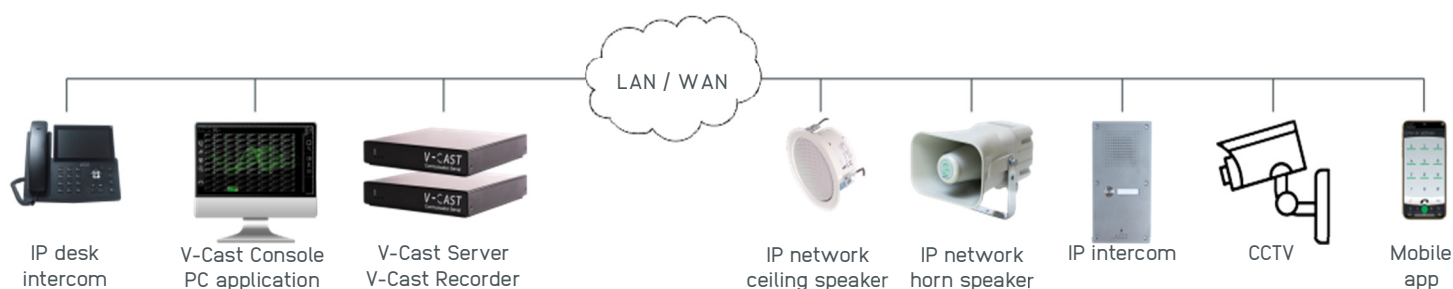
The speaker can be registered in the V-Cast server, the V-Cast Cloud service as well as in a standard VoIP telephone exchange supporting the SIP protocol. It can also work in serverless Direct Call mode (Peer-To-Peer P2P), in which the connection is established directly between devices.

VCLH301P allows to make individual calls, group calls, and general calls, as well as storing recorded voice and alarm messages in the internal memory. Messages can be played depending on the current device status, activated by the operator during a call, or via HTTP.

The speaker supports several operating modes that can be used depending on current needs such as conversation, Push-To-Talk, listening, paging, broadcast. Connecting external microphone to the loudspeaker enables listening in, 2-way conversation, and it is possible to perform an audio test.

The speaker enables intelligible voice communication thanks to the transmission of voice in a wide acoustic band, and an efficient class D power amplifier, which provides very high volume. The speaker supports two different echo cancellation algorithms, including AEC and attenuate, ensuring very good quality of voice communication.

The speaker has 2 relays for controlling external devices, 3 inputs for connecting buttons/external sensors and systems, and a 4x4 numeric keypad connector that can also serve as an additional 14 inputs.



TECHNICAL PARAMETERS

SPEAKER

Nominal power: 30W
Frequency range: 350-10000Hz
SPL (1W/1m): 110dB
SPL (max): 120dB
Radiation angle: 110° horizontal, 55° vertical

AUDIO

Power amplifier: Class D
Audio codecs: g.711a, g.711u, g.722, g.726
Volume adjustment: Independent for conversation, ring, tones, prerecorded audio files, paging, emergency message volume, microphone input gain, microphone input gain in listen mode

Operating modes:

Conversation,
Push-To-Talk,
Paging,
Broadcast,
Emergency,
Listening-in
Audio files playback

Audio diagnostics:

Noise detection
Verification of the audio path (speaker-microphone)

VIDEO

Camera: IP-RTSP
Video codecs: H.264

CONNECTORS

Ethernet: 1x RJ45 (100Mbps)
Power In: 1x
Power Out: 1x (12VDC)
Digital inputs: 3x + 14x (keyboard connector)
Relay: 2x NO/NC (60V, 100mA)
InfoLED output: 1x
Microphone input: 1x electret
Keyboard: Matrix 4x4 with backlit
I2C connector: 1x
USB connector: 1x
Cable glands: 2x

ELECTRICAL

Power supply: PoE (IEEE 802.3af standard, Class 0) or 12VDC
Power consumption: 1W (nominal), 15W (max)

MECHANICAL

Dimensions (W x H x D): 180 x 120 x 230mm
Weight: 1,7kg
Housing material: Self-extinguishing ABS according to UL94 V-0
color: Light grey
Montage: Wall-mounted, metal U holding bracket
IP rating: IP-66

ENVIRONMENTAL

Operating temperature: -40°C to 70°C
Relative humidity: 5% - 95% not condensing

PROTOCOLS

IP protocols: ARP, IPv4, ICMP, IGMP, TCP, UDP, DHCP, DNS, SIP, HTTP, Telnet, RTP, RTCP, SNTP, Modbus TCP, Modbus UDP
SIP protocols: RFC 3261, SIP Info (DTMF), RFC 2833 (DTMF)
IP address: Static, DHCP
Management: http, telnet

CERTIFICATES

CE, UL94V-0

ACCESSORIES

Item number	Name
VCLH301_UM	Pole mount set
VCLH301_Mic	Microphone to VCLH301P
VCLH301_Led	LED signaling module to VCLH301P

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Żwirki i Wigury 65A
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www.v-cast.pl/en
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tel.: +48 32 442 00 24

OTHER IP NETWORK SPEAKERS



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speaker
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speaker
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speaker
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IP network music horn
speaker
VCLMLH301P



IP network column
speaker 10W
VCLSC101P



IP network column speaker
20W
VCLSC201P