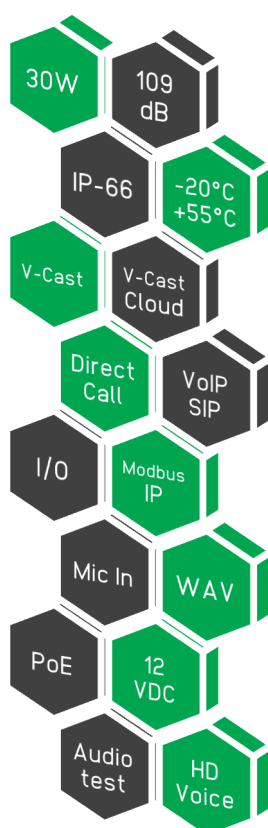


VCMLH301P

IP network music horn speaker, 30W



- VoIP, SIP
- Class D amplifier
- 2-way speaker
- Microphone input
- Storing audio messages in internal memory
- 2 relays
- 17 inputs
- IP-66
- PoE



VCMLH301P is an IP network music horn speaker designed for broadcasting messages via the IP network infrastructure. The loudspeaker is a state-of-the-art solution to utilise the operating range of a horn speaker with a clearly extended frequency range. The 2-way technology with a dynamic cone bass-midrange speaker and horn tweeter is able to provide a clearly enhanced sound quality including transmitting the frequency range of human voices and instruments which cannot be reached by standard horn speakers. The loudspeaker is made of ABS and is intended for indoor and outdoor use, as it has an IP-66 protection rating.

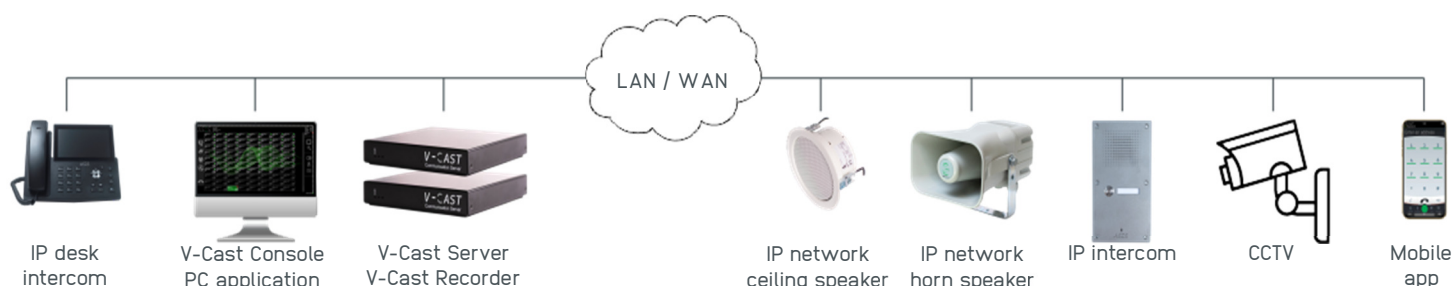
The speaker can be registered in the V-Cast server, the V-Cast Cloud service as well as in a standard VoIP telephone exchange supporting the SIP protocol. It can also work in serverless Direct Call mode (Peer-To-Peer P2P), in which the connection is established directly between devices.

VCMLH301P 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:	100-20000Hz
SPL (1W/1m):	99dB
SPL (max):	109dB
Radiation angle:	H: 110°, V: 60°
Speakers:	13 cm bass-midrange speaker and 25 mm (1") horn

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
Noise detection

Audio diagnostics:

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:

1x

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):	310 x 215 x 330mm
Weight:	4,1 kg
Housing material:	ABS, color: grey
Montage:	Wall-mounted, metal U holding bracket
IP rating:	IP-66

ENVIRONMENTAL

Operating temperature:	-20°C to 55°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

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ascsc@ascsc.pl
tel.: +48 32 442 00 24

ACCESSORIES

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

OTHER IP NETWORK SPEAKERS



IP network ceiling
speaker
VCLCE061P



IP network wall
speaker
VCLWL061P



IP network projector
speaker
VCLDW101P



IP network horn speaker
VCLH301P



IP network column
speaker 10W
VCLSC101P



IP network column speaker
20W
VCLSC201P