### WS 211V I M

IP emergency call station for highest requirements on safety



# Vandal resistant IK10 Weatherproof IP66





#### Instant help in emergency situations

The vandal-resistant emergency station WS 211V I M is designed for areas with high requirements on safety. The technology allows excellent speech quality and comprehensibility independent of background noise.

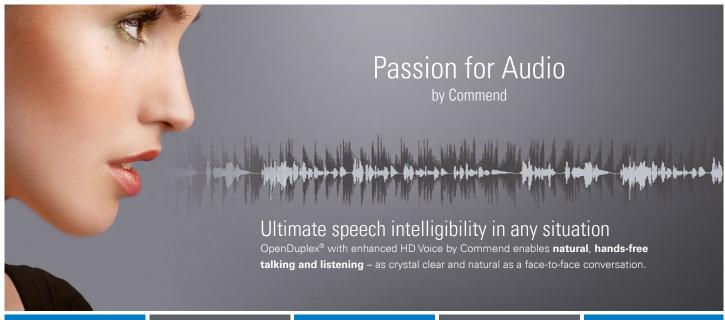
Permanent function monitoring ensures in-service status and the 3 mm stainless steel front panel with poke protection and special screws protects against vandalism.

No water spray, dirt or dust can penetrate the compact construction – protection class IP66. The red emergency call mushroom button is easily visible from a considerable distance and can be activated quickly in emergency situations.

#### Features and highlights

- Extremely robust, weatherproof and vandal-resistant construction enables use in outdoor locations and public areas (IK10 is the highest impact protection rating)
- Optimised mushroom button for emergency calls, featuring selfcheck (NC contact) and frost-protected design
- Cyclical connectivity and function checks ensure permanent availability of all functions and low manual maintenance requirements
- Special audio functions ensure superior speech quality in any situation
- The high-sensitivity microphone supports speaking distances of up to 7 m from the microphone, making the device ideally suited, e.g. for wheelchair users
- Sound output or playback of pre-recorded messages can be used to provide information and reassurance to callers
- Various functions can be added via extension modules (e.g. camera or direct dialling button modules)
- Support of different installation options (flush-mounting or surfacemounting) ensure maximum flexibility; special enclosures available with "SOS" and "HELP" imprint















#### Audio // Basics

eHD Voice	Enhanced HD Voice by Commend transfers the audio signal at a bandwidth of <b>16 kHz</b> , thus capturing the entire frequency spectrum of the human voice.
STI	Speech Transmission Index <b>0.96</b> – measured under acoustic laboratory conditions (STI is a standard measure for speech intelligibility; it has a possible maximum value of 1.00, which corresponds to perfect intelligibility)
Sound pressure level	High volume up to 99 dB
Amplifier	High efficient class-D amplifier with 2.5 W
-	riigii emcient ciass-b ampilier with 2.5 vv
Microphone	Omnidirectional electret condenser microphone for max. 7 m (23 ft) speaking distance
Microphone Loudspeaker	Omnidirectional electret condenser microphone for

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#### Audio // Functions

**Loudspeaker/microphone surveillance** – ensures the availability of the Intercom station while reducing the need for manual verification of its functionality

**Audio monitoring** – fully automated emergency calls triggered by defined noise levels for more security

**Peer2Peer audio** – reduces network and server load to ensure efficient use of resources

**Audio recording** and lip synchronous audio/video recording of conversations for documentation and evidence keeping purposes

**Conference call function** for simultaneous talking with multiple conversation partners

**Speech activity detection** senses when calls are finished (no microphone signal) and terminates the connection automatically

**Simplex mode** for applications requiring controlled communication – e.g. for security solutions based on the "push-to-talk/release-to-listen" method

OpenDuplex® for natural, hands-free communication

**IVC** (Intelligent Volume Control) automatically adjusts the device's volume setting to the ambient noise level

**Public address functions** 



## WS 211V I M Technical Specifications

#### Technical data

recrimical da	ld						
IP rating acc. EN	l 60529:		IP66				
Mechanical impact resistance acc. EN 62262:							
Front panel:	1.4301/AISI 304, 3 mm (0.12 in)						
Microphone:	electret condenser microphone polar pattern: omnidirectional speaking distance: max. 7 m (23 ft)						
Loudspeaker:	special membrane type for optimal sound quality, sound pressure: 85 dB/1 W/1 m (3.28 ft), 2 $\times$ 8 $\Omega$						
Amplifier:	integrated class-D amplifier with 2.5 W						
Sound pressure	Sound pressure level: max. 99 dB						
Handset, headse	EM	$$\rm EM$$ sensit impedance: 3.3 k $\!\Omega$ / EM $\!N_{\rm eff}$ at 0 dBm0 / EP imped					
Input:		3 inputs for floa (detection of 5					
Output:	ex	2 relay outputs (switch-o max. 60 VDC pected life: min. 5 x 10 <sup>4</sup> (2	, 2 A, 60 W <sup>1)</sup>				
Line output:		for connection loudspe	eaker module				
Call indication:	multifunction LED (colours: red, green, blue)						
Call button:	large red emergency call mushroom button (NCC)						
Transmission ba	ndwidth:		16 kHz				
Operating temp	erature range:	–20 °C to +70 °C (–4 °	F to +158 °F)				
Storage tempera	ature range:	–20 °C to +70 °C (–4 °	F to +158 °F)				
Relative humidi	ty:	up to 95%, no	t condensing				
Connection:	IF	pluggable scr expansion plug for P Uplink: shielded RJ 45 r	e.g. EB2E2A				
Power supply:		PoE or ex 12-24 VAC o power consumption					
Cabling:			min. Cat. 5				
PoE (Power over		er consumption of the ten Class 0 (0.44 V					
Protocol:		IoIP-Protocol base	ed on UDP/IP				
Data rate:		10/100 MBit/s (Full	/Half Duplex)				
Mounting:		flush mount k surface mount k					
Dimensions (W	164 >	x 279 x 14 mm (6.46 x 10	ce mount kit:				
AAZ-1-1-C11		4.5	00 (00 11 )				

<sup>1)</sup> The relay output may only be connected to a SELV circuit! A SELV circuit as per IEC/ EN 60950-1 must be separated safely from a dangerous electrical circuit (e.g. 230 V or 110 V mains power), e.g. by means of double insulation. The SELV circuit must not exceed 60 VDC or 42.4 VAC<sub>peak</sub> (30 VAC<sub>eff</sub>)!



#### Line length in LAN

The maximum line length of Cat. 5 cabling in a LAN is 100 m (328 ft) – e.g. from switch to Intercom station.

#### Extent of supply

- Intercom station
- Screws for mounting
- Short reference

#### System requirements

- GE 800 (min. PRO 800 3.1) with G8-IP (min. G3-8-IP 4.0B01) or
- GE 300 (min. PRO 800 3.1) with G3-IP (min. G3-8-IP 4.0B01) or
- VirtuoSIS/S3/S6
- Configuration software min. CCT 800 3.1
- Configuration software IP Station Config (included in setup of CCT 800 3.1)

#### Network requirements

#### IP addresses and ports

- For the WS 211V I M the DHCP functionality is available.
   If DHCP is not used, the WS 211V I M must have a fixed IP-address.
- In case of a changing public IP-address, dynamic registration of a WS 211V I M is possible.
- Communication from the program IP Station Config is done via Port 16399 (can not be configured).
- Communication from the WS 211V I M to the Intercom Server (UDP protocol) is done via port 16400 (configurable).

#### QoS requirements

- One-way delay max. 100 ms
- Delay-Jitter max. 50 ms
- 0% packet loss for perfect audio quality

#### Bandwidth

- Required bandwidth incl. protocol overhead per WS 211V I M, for upload/download each: speech and data 96 kBit/s
- Speech is compressed according to G.722 standard



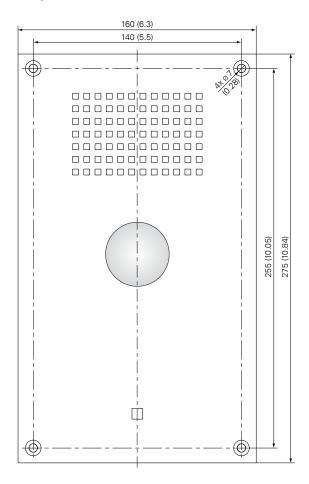
Weight incl. package:

approx. 1,500 g (3.3 lbs)

## WS 211V I M Installation Instructions

#### Dimensions front panel

Front panel thickness: 3 mm (0.12") Measuring units in mm (inch), not to scale!

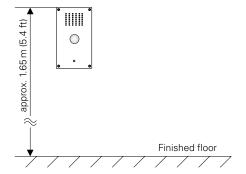


#### Mounting instructions

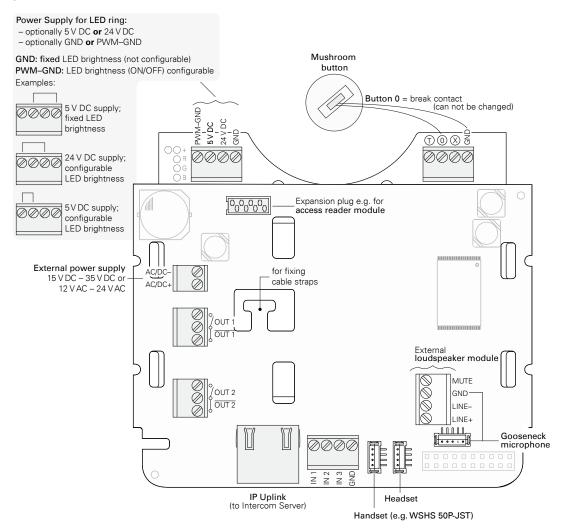
- Do not expose the station to extreme temperature (see "Technical data").
- For flush mounting a flush mount kit WSFB 50V (available separately) is required.
- For surface mounting a surface mount kit WSSH 50V (available separately) is required.
- Optionally a mounting with a rain protection roof (WSRR 50V) is possible
- When opening the stations ESD precautions must be observed.
- The stations may only be opened by authorised service engineers.

#### Recommended mounting height

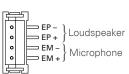
The upper edge of the station approx. 1.65 m (5.4 feet) from the finished floor. Please adapt the mounting height to the individual needs.



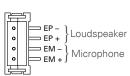
#### Connection







#### Connection handset:



#### **Connection OUT 1/OUT 2:**



S = NO (normally open) W = C (common) O = NC (normally closed)

#### ICX message for connection of headset

The headset jack has to be activated via an ICX message (see

Microphone / loudspeaker	Task	Type	Data (variable length)	Server-SW
Switchover microphone / loudspeaker (subscriber)	40	92	TTTT 050Z	Pro 800 2.1

Variable TTTT  $\rightarrow$  4-digit call number of the subscriber Variable Z  $\rightarrow$  0 = deactivate; 1 = activate; 2 = toggle

#### Quality tested. Reliable. Smart.

COMMEND products are developed and manufactured by Commend International in Salzburg, Austria.

The development and manufacturing processes are certified in accordance with **EN ISO 9001:2015**.



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#### A strong worldwide network

COMMEND is represented the world over by local Commend Partners and helps to improve security and communication with tailored Intercom solutions.

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