CUBE

WISPEAK – WIRELESS PRO AUDIO

Rail-mount Loudspeaker

PRODUCT OVERVIEW

WiSpeak CUBE is a self-powered 5" loudspeaker cabinet with wireless audio reception and control capabilities under the control of the Master unit, featuring an installation system which is compatible with ceiling light rails. Alternatively, wall mount or desktop installation is as well possible by means of the included accessories.

KEY FEATURES

- Cabinet style self-powered WiSpeak receiver, including 5" woofer and 1" tweeter
- Lighting rail mount compatible (Compatible light rails: 4 wire 3 circuit track system such as Global Track Pro or compatibles)
- Universal, internal power supply, taking mains AC from the lighting rail bracket (100-240VAC 50-60Hz)
- 1x WiSpeak wireless audio signal received, from the transmitter it is paired to
- 1x AUX OUT analogue signal available (a copy of the received WiSpeak signal). It can be used for linking the unit to external audio devices, like amplifiers, mixers or subwoofer units
- Back panel UNPAIR control and LED indicators in the front panel
- Recommended maximum range from a CORE transmitter to any WiSpeak paired receiver: 12 meters, with direct line of sight[1]
- Available in white (RAL 9003) and black (RAL 9005)

APPLICATIONS

- Retail
- Hospitality
- Education
- Corporate
- Sports and wellness

ACCESSORIES AND COMPATIBLE DEVICES

- WiSpeak CORE

WiSpeak CORE

TECHNICAL SPECIFICATIONS

CUBE	
Inputs	
Type	CH1 / CH2: Digital, Mono, RF Wireless Audio
Input Selector	CH1 / CH2: via WiSpeak grip app
Controls	VOL: via WiSpeak grip app SOLO: via WiSpeak grip app ID TEST SIGNAL: via WiSpeak grip app PAIR / UNPAIR: via WiSpeak grip app and Panel button
Outputs	
Type	Internal Loudspeaker: Analog, Mono, Self powered AUX OUT: Analog, Mono, Balanced, Euroblock
Nominal Ouptut lvl. / Min. Load	0dBV / 10kΩ
THD+N (at RX AUX OUT)	<0.015%
Singal Noise Ratio (at RX AUX OUT)	>95dB
Internal Loudspeaker	
Size	5” woofer + 1” tweeter
Impedance	8Ω
Ways	2
Sensitivity 1W / 1m	83dB
Frequency response	70 - 20kHz
Power Amplifier	
Power (8Ω, 1% THD)	32W
THD+N (1kHz Full Power)	<0.15%
RF Wireless Audio	
Frequency band	U-NII 5.1 – 5.8GHz (supported worldwide) Up to 24 non-overlapping RF channels[2] DFS support
Transmission Recommended Distance	Up to 12m from a TX to any paired RX, direct line of sight[1]
Audio transmission	24bit uncompressed, 48kHz SR
Audio channels	WiSpeak CH1 / CH2
Latency (I2S digital audio to RX output)	5.1ms, fixed
Inter-channel delay error (speaker - speaker)	±1us
Reconnection time	Up to 120s[3]
Pairing time	Up to 120s[3]
Latency	
From TX IN to RX AUX OUT	<6ms
From TX IN to RX Speaker	<6ms
From Speaker to Speaker	±1us
Digital Audio Performance	
Sample size	24 bits
Sampling rate	48kHz
Frequency response	20Hz – 20kHz (-0.1dB)
Converters	

Resolution (DAC)	24 bits
Dynamic range (DAC)	100dB
Supply	
Mains voltage	100-240VAC 50-60Hz
Rated power consumption	15W
Power consumption (pink noise, 1/8 power)	7,5W
Power consumption (pink noise, 1/3 power)	14W
Mechanical	
Finish colour	White (RAL 9003) or black (RAL 9005)
Dimensions (without arm) WxHxD	175x175x180mm / 6,9”x6,9”x7,1”
Support arm	Swivel (pan and tilt)
Weight	2,1 kg / 4.6lb.

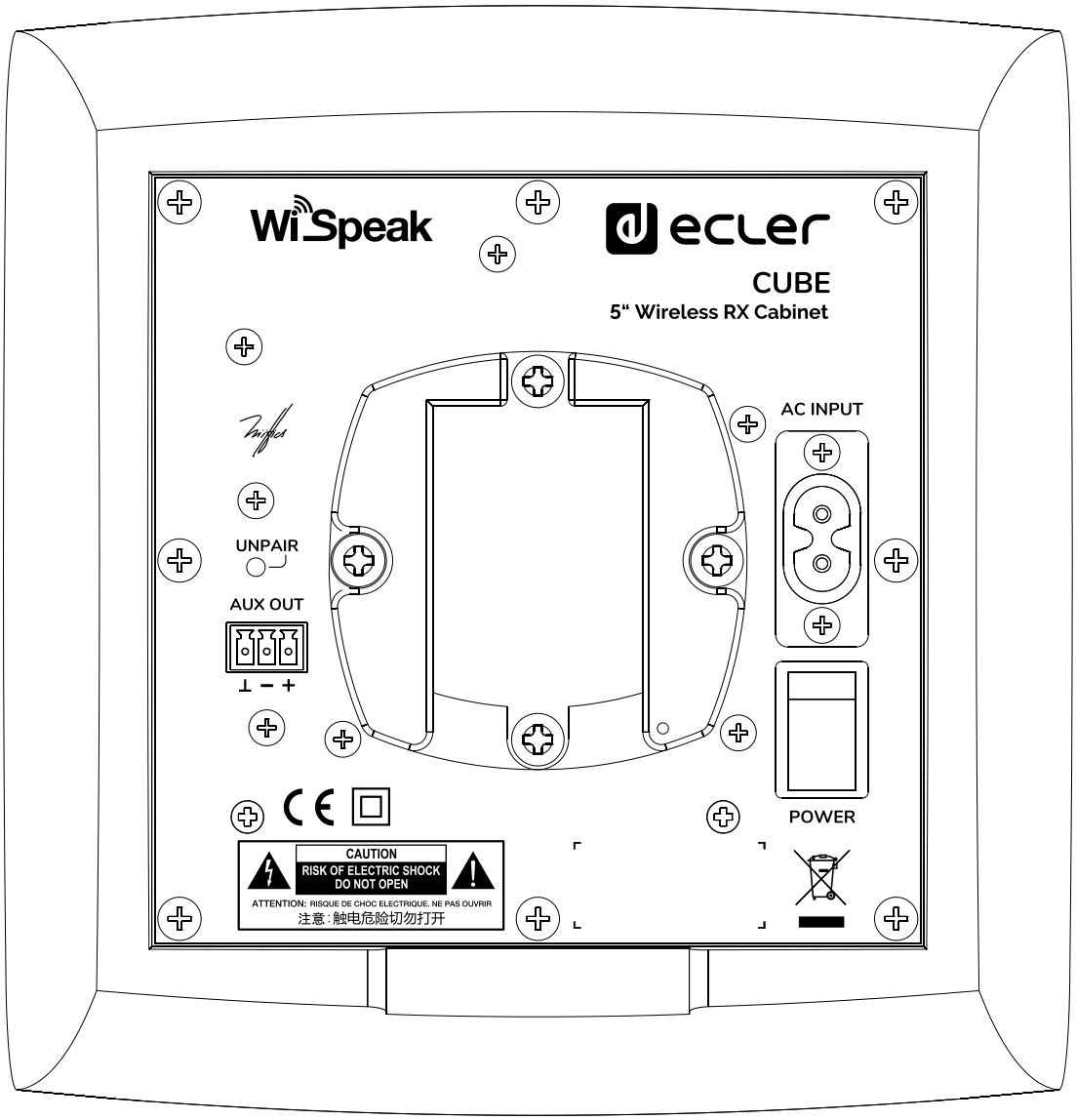
[1]WiSpeak features a unique & intelligent digital wireless transmission system: a solid and stable main channel is always used for the system’s audio and control links, together with an alternative backup channel available. The system continuously monitors among 24 transmission channels to resolve the best backup channel option. In case the main channel’s integrity is affected by third-party RF interferences, an instantaneous and clean (free of audio drops) switch to the backup one is performed.

Exceptionally, when working in environments with very high radio-electric contamination (presence of frequency inhibitors, WiFi networks saturation, etc.) WiSpeak might at times suffer disturbances in its proper functioning, like intermittent audio drops. In such circumstances, and along the system’s installation and setup period, it might even be necessary to decrease the distance from the transmitter to each receiver to reach a solid and stable system performance along time.

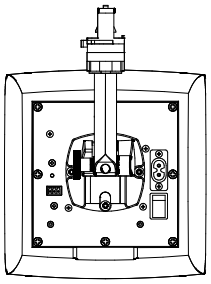
[2]Varies by country.

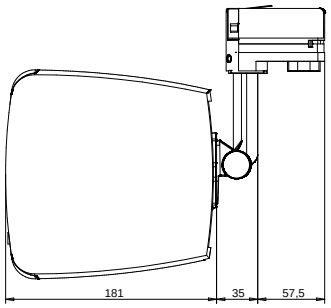
[3]Reconnection and pairing time also involve stabilization process to guarantee a solid and stable wireless communication. This time varies depending on adverse conditions described in [1].

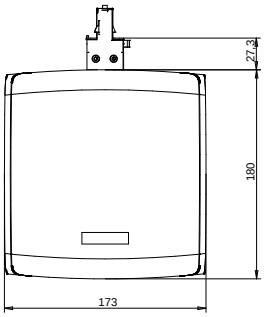
MECHANICAL DIAGRAM

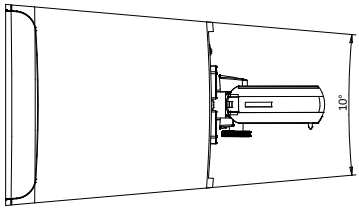


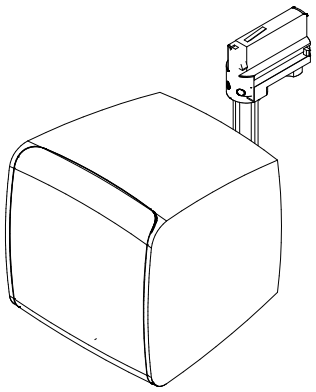
Distances are in millimeters.



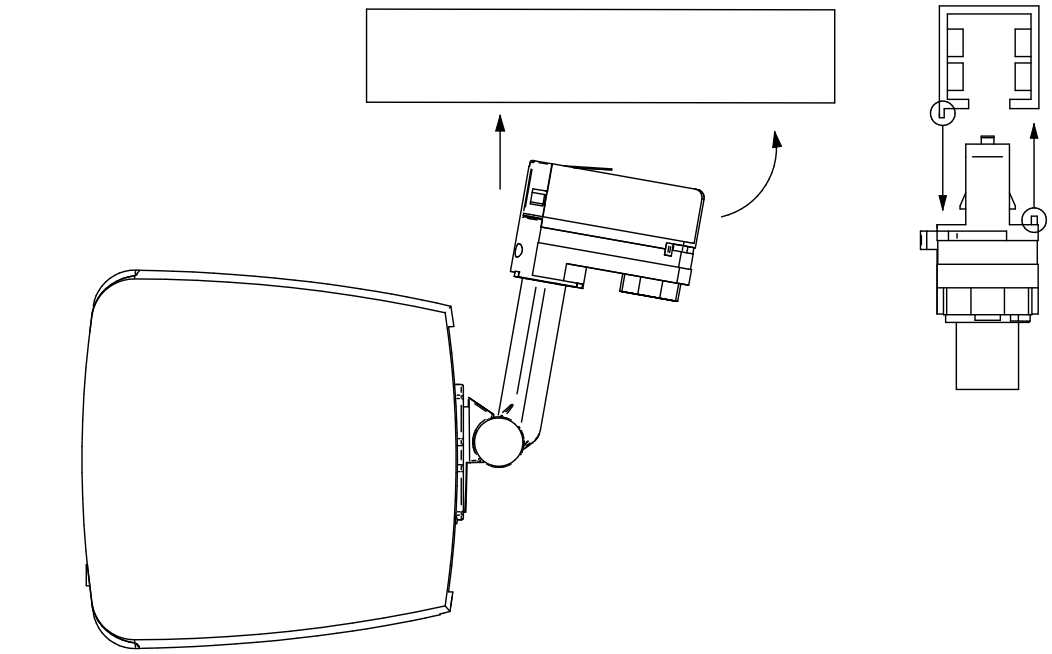


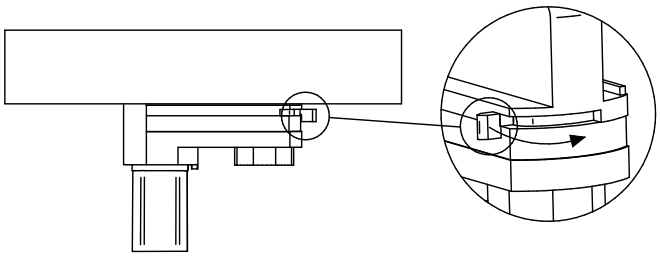


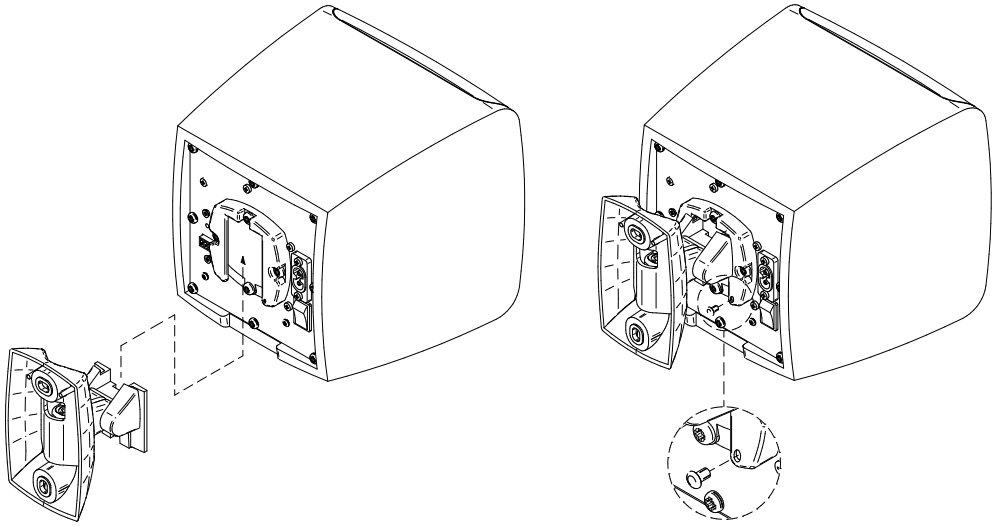




MOUNTING DIAGRAM







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