

CORE

WISPEAK - WIRELESS PRO AUDIO

Transmitter Master Unit



PRODUCT OVERVIEW

WiSpeak CORE is the transmitter device that communicates with all the receiver devices to create a WiSpeak wireless network and takes the role of the Master Unit.

Its main functions are to pair and send audio contents to all the receivers (TUBE, CUBE), keeping a stable communication with them, and send also individual configuration commands to each receiver if desired. It also takes care of the global configuration of the system: audio inputs in use, equalization, output levels, etc.

CORE is the Master Unit of the Ecler WiSpeak system. Together with TUBE and CUBE, provides a simple and fast wireless installation with up to 500m2 coverage. It includes a WiSpeak grip app available for Android and iOS, which can be used for an advanced set up and fine tuning of the Wireless Pro Audio system.

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KEY FEATURES

- 3 audio inputs available:
 - Analogue stereo, unbalanced. 2 x RCA connectors
 - Analogue stereo, balanced. 2 x Euroblock 3p connectors
 - Bluetooth®, class 1 (up to 25 meters range, maximum)
- 1x WiSpeak wireless audio signal transmitted (a mono conversion of the selected input)
- 1x AUX OUT analogue signal available (a copy of the transmitted WiSpeak signal). It can be used for linking the unit to external audio devices, like amplifiers, mixers or subwoofer units
- Maximum number of receivers under control per transmitter device = 24 units. The network can be extended by linking a new transmitter to an existing receiver
- Front panel controls for source (input) selection and general (Master) volume control
- Recommended maximum range from a CORE transmitter to any WiSpeak paired receiver: 12 meters, with direct line of sight1
- Front panel PAIR key: it allows pairing the receivers to the transmitter quickly and easily, for a basic set up of the WiSpeak system.
- External, universal Power Supply (100-240VAC 50-60Hz)
- Compatible with WiSpeak grip app for set up and control functions (available for Android and iOS), using Bluetooth® connection
- External MUTE port and remote volume control port compatible with WPaVOL wall panel

APPLICATIONS

- Retail
- Hospitality
- Education
- Corporate
- Sports & Wellness

ACCESSORIES AND COMPATIBLE DEVICES

- WiSpeak TUBE
- WiSpeak CUBE
- WPaVOL







WiSpeak CUBE







WiSpeak grip App



TECHNICAL SPECIFICATIONS

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Inputs	
Туре	IN1: Balanced, Stereo, Euroblock IN2: Unbalanced,
	Stereo, RCA
	BT: Bluetooth wireless
Input Sensitivity* / Nominal Impedance	IN1: -10dBV to 0dBV $/ >20k\Omega$
	IN2: -10 dBV to 0dBV / >20 k Ω
	BT: -10dBV FS
Gain Control Range ²	IN 1&2: 10dB
Input Selector (same selection for Ch1&2)	Frontal panel keys /
CMDD	WiSpeak grip control app
CMRR Plusteeth Input	IN2: >60dB @ 1kHz
Bluetooth Input	Type: Compliant 5.0, Class 1 Range: 25m (ideal conditions)
	Profiles: A2DP1.3/AVRCP1.6/HFP1.6/HSP1.2
	Decoder support: SBC, AAC
Frequency Response (at TX AUX OUT)	IN1: 10Hz – 20kHz (-1dB)
	IN2: 10Hz – 20kHz (-1dB) BT: 10Hz – 20kHz (-1dB)
THD+D (at TX AUX OUT)	IN 1&2: <0.015%
Signal Nois Ratio (at TX AUX OUT)	IN 1&2: >95dB
Local Output	
Туре	AUX OUT: Analog, Mono, Balanced, Euroblock
Input Selection	CH 1&2: WiSpeak grip control app
Nominal Output Level / Min Load	AUX OUT: 0dBV / 10kΩ
WiSpeak Channels (RF Wireless Audio)	
Channel	CH 1&2: Digital, Mono, RF Wireless Audio
General Controls (affects Ch1&2)	Master VOL, MUTE: Frontal panel keys /
Tara Cantual 3 (in day and day to a sale Ch)	WiSpeak grip control app BASS: 100Hz, ±10dB
Tone Control ³ (independent for each Ch)	MID: 1k2kHz, ±10dB
	TREBLE: 10kHz, ±10dB
High Pass Filter ³ (independent for each Ch)	OFF / 120Hz / 150Hz
macpendences cash sin,	Butterworth 12dB/oct
Low Pass Filter ³ (independent for each Ch)	OFF / 120Hz / 150Hz
	Butterworth 12dB/oct
RF Wireless Audio	
Frequency Band	U-NII 5.1 – 5.8GHz (supported worldwide)
	Up to 24 non-overlapping RF channels ⁴ 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 CH 1&2
	±1us
Inter-channel delay error	
Reconnection time	Up to 120s ⁵
Pairing time	Up to 120s ⁵



<700usec	
<6ms	
<6ms	
25 / 56 bits	
48kHz	
ADC/DAC: 24 bits	
ADC: 96dB	
DAC: 98dB	
0-10VDC, RJ-45 connector	
Normally open	
USB-C: Service & Firmware updates	
Supply	
24VDC	
100-240AC 50-60Hz	
0.5A at 24V	
225 x 120 x 40 mm / 8.9 x 4.7 x 1.6 in.	
0.8kg / 1.76 lb.	
510 x 60 x 210 mm / 20.07 x 2.36 x 8.27 in.	
1.2 kg / 2.65 lb	

¹WiSpeak 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.

²WiSpeak grip app & frontal panel selection.

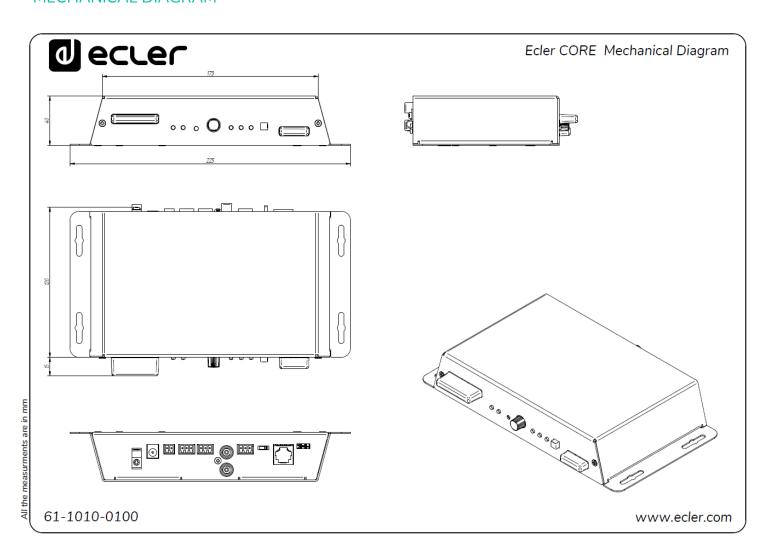
³WiSpeak grip app selection.

⁵Reconnection 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.

⁴Varies by country.



MECHANICAL DIAGRAM



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All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in <u>Support / Technical requests</u>.

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