Catchbox Plus system

Technical Specifications

Catchbox Plus is a wireless microphone system for presenter and audience audio capture in any space. At the center of the Plus system is the Hub DSP receiver that offers versatile connectivity options for various technical setups. Mix and match up to 4 presenter and audience microphones to connect to your Hub based on your audio capture needs.
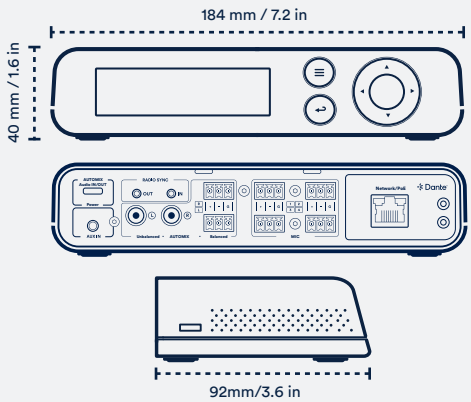
General Specifications

Audio latency	19 ms	**Max # of transmitters in one space**	Without radio-sync: up to 10 (EU region); up to 6 (US region) With radio-sync: up to 20 (EU region); up to 12 (US region)
Radio encryption	AES256	**Wireless range**	100 m / 330 ft (Line of Sight)*
Radio frequency band	DECT / DECT 6.0 (1.8 / 1.9 GHz band) We will ship the product configured to the frequency band based on the delivery address provided.	**Operating temperature range**	0 °C (32 °F) to 30 °C (86 °F)
		Firmware	v2.1
		Hardware Model	CBRX004
Radio output power	Up to 63mW, controllable from Hub		

* The actual operating range depends upon the RF output settings, the surroundings, the signal absorption, signal reflection and signal interference
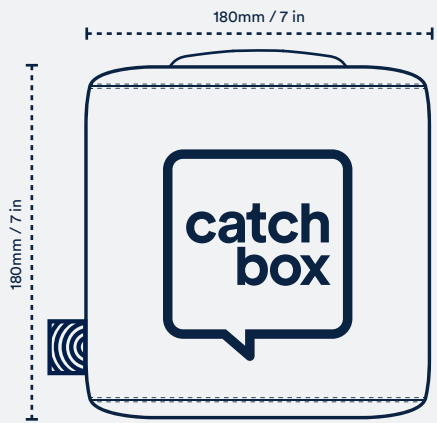
Hub DSP Receiver

The Hub packs three devices in one - a wireless mic receiver, DSP and mixer. Utilize the built-in DSP and mixer functionality for automated audio management or connect separate mic outputs to your mixer board or DSP for complete control.

184 mm / 7.2 in
40 mm / 1.6 in
92mm/3.6 in

Specifications

Audio outputs	**FLEX 1-4** 3-pin, balanced, Mic level **MIXOUT** RCA, unbalanced, Line level 3-pin, L&R, balanced, Mic/Line level USB-C, stereo, digital, sample rate	**Audio inputs**	**USB** USB-C, stereo, digital, sample rate **AUX IN** 3.5mm (TRS) - stereo, unbalanced, Line level
Kensington lock	Yes	**Dante® audio networking**	Audio in & out (4x4)
Remote control & monitoring	API | Catchbox Control Software | 3rd-party integrations	**Power**	USB-C (5V, 1A) or PoE
Radio sync	2.5mm (TS)	**Antenna type**	Built-in antennas
Weight (without mounting kit)	300 g / 10.58 oz	**Dimensions (without mounting kit)**	184 x 92 x 40 mm / 7.2 x 3.6 x 1.6 in

Cube

Throwable audience microphone for efficient audience audio capture and enhanced audience engagement during Q&As.
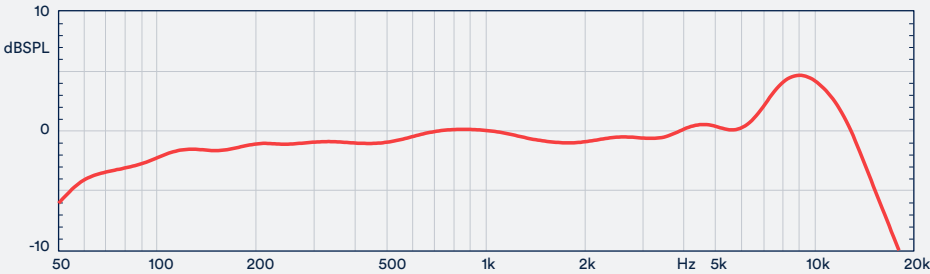
180mm / 7 in

180mm / 7 in

catch box

Specifications

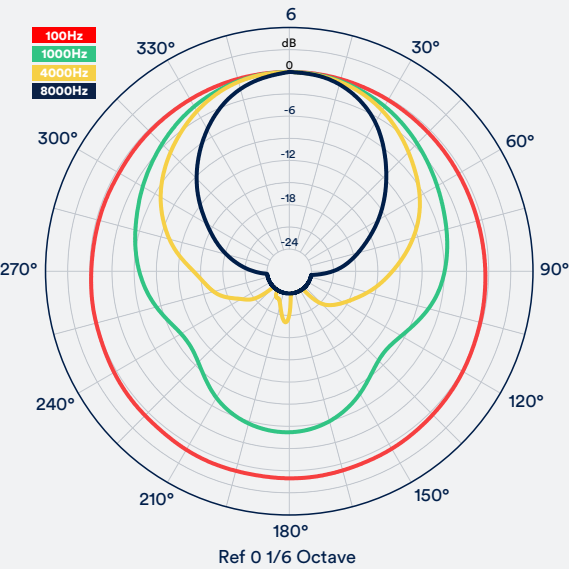|			
Audio frequency response	50 to 20000 Hz	**Battery type**	Serviceable, Li-ion, rechargeable
Microphone element, pick-up pattern	Electret condenser, Focused omni-directional™	**Battery life**	Typical 22h***
Sensitivity	138,9 mV/Pa	**Home station - Charging Base**	Yes (included)
Self-noise	22,3 dBA	**Battery charge time**	Charging Base: 8h USB-C: 4h
Max SPL	≥ 122 dBSPL	**Weight**	370 g / 13.05 oz
Built-in Automute™ technology	Yes**	**Dimensions**	180 x 180 x 180 mm / 7 x 7 x 7 in

** Automute technology temporarily switches off audio when the microphone is caught, thrown or dropped to eliminate unwanted noise

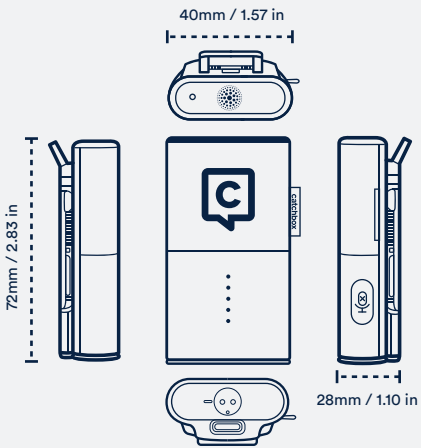*** Depends on selected RF power level

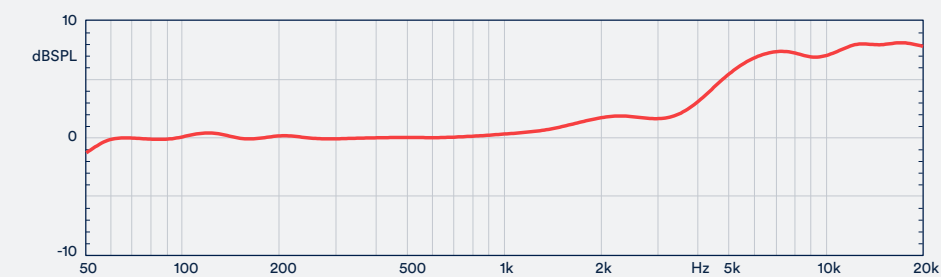## Microphone Frequency Response

Polar pattern

Ref 0 1/6 Octave

Clip

Wearable presenter microphone designed for powerful hands-free presentations for ease of use and high audio quality.

40mm / 1.57 in

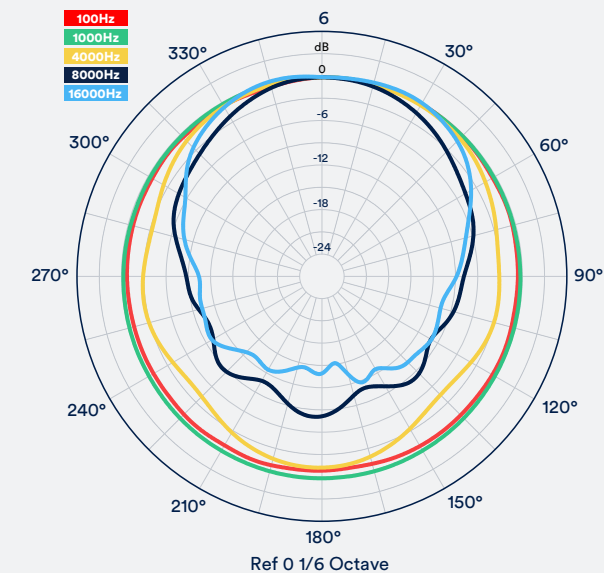72mm / 2.83 in

28mm / 1.10 in

Specifications

Audio frequency response	50 to 20000 Hz	**Battery life**	Typical 8h***
Microphone element, pick-up pattern	Electret condenser, focused omni-directional™	**Home station - Single & Dual Dock Charger**	Yes (included)
Sensitivity	62,8 mV/Pa	**Battery charge time**	Catchbox dock: 2h USB-C: 2h
Self-noise	18,5 dBA	**Attachment types**	Lever (clip on clothing) Lanyard (wear around the neck)
Max SPL	≥ 125 dBSPL	**Weight**	57 g / 2.01 oz
Quick-mute function	Yes	**Dimensions (with lever)**	40 x 72 x 28 mm / 1.57 x 2.83 x 1.10 in
Battery type	Serviceable, Li-ion, rechargeable		

*** Depends on selected RF power level

Microphone Frequency Response

Polar pattern

Ref 0 1/6 Octave
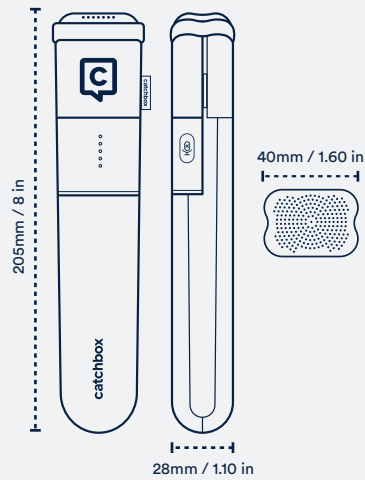
Stick

Handheld wireless microphone for delivering exceptional presenter audio. Its ergonomic design provides a comfortable grip, ideal for presentations and speeches.
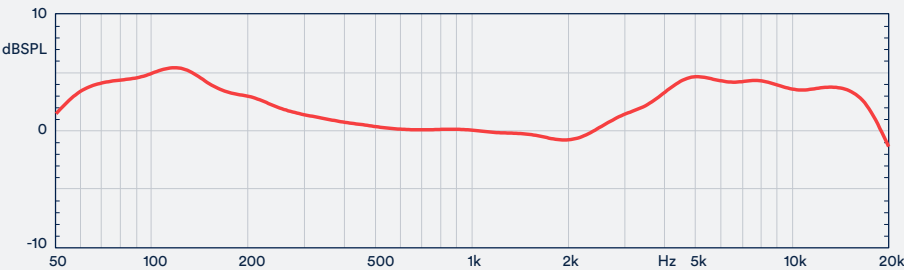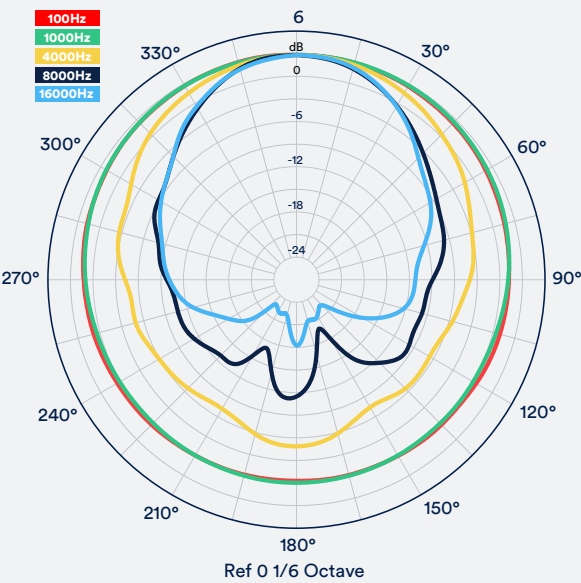
205mm / 8 in
40mm / 1.60 in
28mm / 1.10 in

Specifications

Audio frequency response	50 to 20000 Hz	**Battery type**	Serviceable, Li-ion, rechargeable
Microphone element, pick-up pattern	Electret condenser, focused omni-directional™	**Battery life**	Typical 8h***
Sensitivity	54,0 mV/Pa	**Battery charge time**	Catchbox dock: 2h USB-C: 2h
Self-noise	23,5 dBA	**Attachment types**	No
Max SPL	≥ 130 dBSPL	**Weight**	232 g / 8.18 oz
Quick-mute function	Yes	**Dimensions (with lever)**	40 x 205 x 28 mm / 1.60 x 8 x 1.10 in

*** Depends on selected RF power level

Microphone Frequency Response

Polar pattern
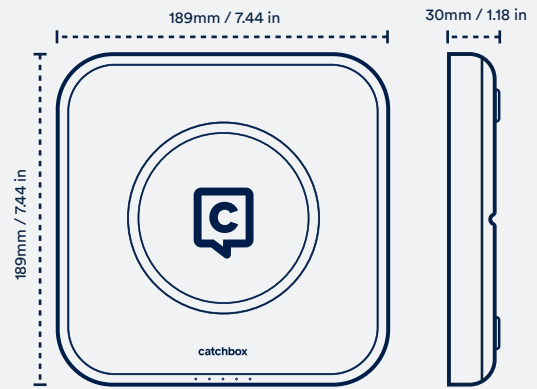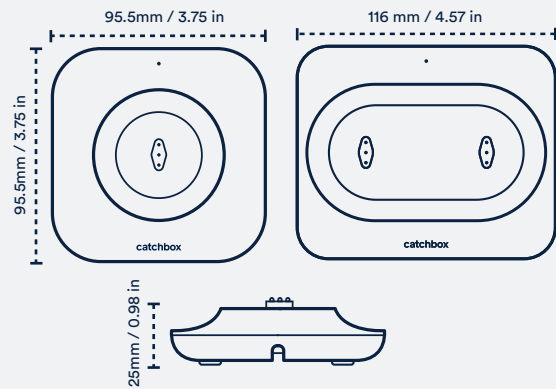

100Hz
1000Hz
4000Hz
8000Hz
16000Hz

Ref 0 1/6 Octave

Charging Base
For Cube

Home station for the Cube.
Place the Cube on the Charging base to
mute the mic and start charging.

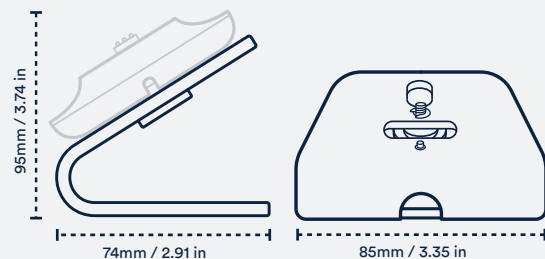| Specifications			
Compatible with	Cube	Weight	385 g / 13.6 oz
Charging protocol	Catchbox proprietary	Dimensions	189 x 189 x 30 mm / 7.44 x 7.44 x 1.18 in
Power supply	5V 1A USB-C		

Charging Docks

Home station for Clip and Stick mics.
Snap Clip/Stick on the dock to mute the
mics and start charging.

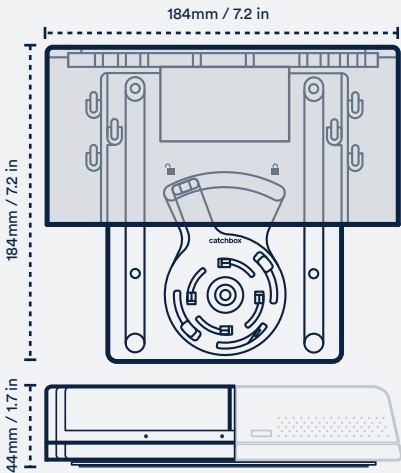| Specifications				
Compatible with	Clip and Stick	Weight		150 g / 5.29 oz
Power suppy	5V 1A USB-C	Dimensions	Single:	95.5 x 95.5 x 25 mm / 3.76 x 3.76 x 0.98 in
			Dual:	116 x 95.5 x 27mm / 4.57 x 3.76 x 0.98 in
Daisy chain	Up to 6 single docks / charging slots			

Dock Bracket

Elevated mount for the Dock Charger.
Attaches to horizontal or vertical surfaces.

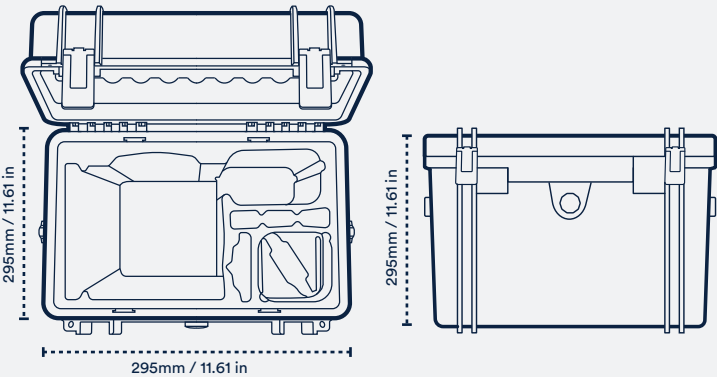| Specifications			
Compatible with	Dock Charger (Single and Dual)	Dimensions	85 x 95 x 74 mm / 3.35 x 3.74 x 2.91 in
Weight	500 g / 17.64 oz		

Hub
Mounting Kit

An accessory that allows you to lock and mount the Hub on any direction oriented surface.

Specifications			
Compatible with	Hub	**Weight**	190 g / 6.70 oz
Mounting options	Dual lock for adhesion mount VESA 100mm pattern for Screw mount	**Dimensions**	184 x 184 x 44 mm / 7.2 x 7.2 x 1.7 in
Cable manager	Yes		

Storage Case

Dedicated storage case for the Plus system components (Clip and Cube bundle).

Specifications			
Weight	3 kg / 6.61 lb	**Dimensions**	410 x 275 x 295 mm / 16.14 x 10.82 x 11.61
Compatible with	Hub, Clip, Cube, Stick Wireless Charger, Dock Charger (single and dual), dock bracket Mounting kit, cables		