

Cane In-Ceiling / In-Wall

Slim Array In-Ceiling / In-Wall

50 W

POWER RMS

92 dB

SENSITIVITY

8 Ω

IMPEDANCE

24 mm

DEPTH

Technical Specifications

ACOUSTIC PERFORMANCE

Power RMS	50 W
Power Peak	60 W
Sensitivity	92 dB / 1W / 1m
Impedance	8 Ω
Max SPL	110 dB
THD+N	≤0.2% @ 1W/1m
Frequency Range	150 Hz - 20 kHz ±3dB
Directivity H	140° (-6 dB, 1 kHz)
Directivity V	25° (-6 dB, 1 kHz)
Driver Config	4 × Power Dense Custom Woofers
Crossover	Built-In Passive Crossover
Crossover Freq	200 Hz (rec.)
EQ Profile	Default

CONNECTIVITY

Connector	—
Wire Gauge	14 AWG or thinner

PHYSICAL

Dimensions	H 183.5 × W 43 × D 24 mm
Weight	0.2 kg
Housing	Aerospace Aluminium
Grille	Mild Steel
Paintable Grille	No

ENVIRONMENTAL

IP Rating	—
Mounting	—

COLOUR & FINISH

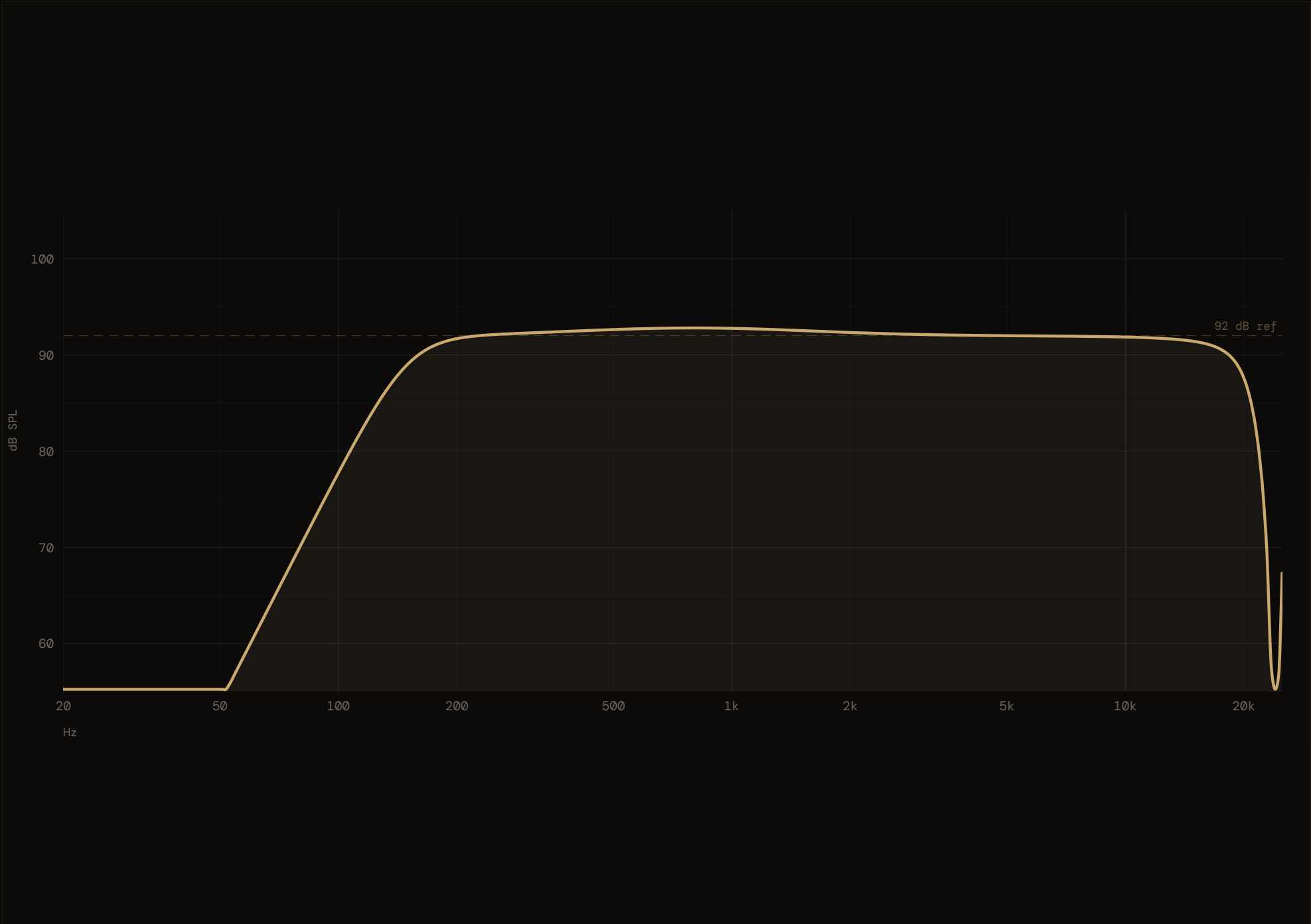
Finishes	White only · Custom RAL
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PRODUCT

Series	Slim Array Series
SKU	XSP-IC-CAN
Variants	XSP-IC-CAN-WH · White
Since	2022

Frequency Response

On-axis · 1W / 1m · anechoic · 150Hz - 20kHz ±3dB · 92dB sensitivity · raw acoustic, no EQ



Directivity Pattern

Normalised polar response · H 140° / V 25° at -6 dB · 1 kHz · multi-frequency overlay



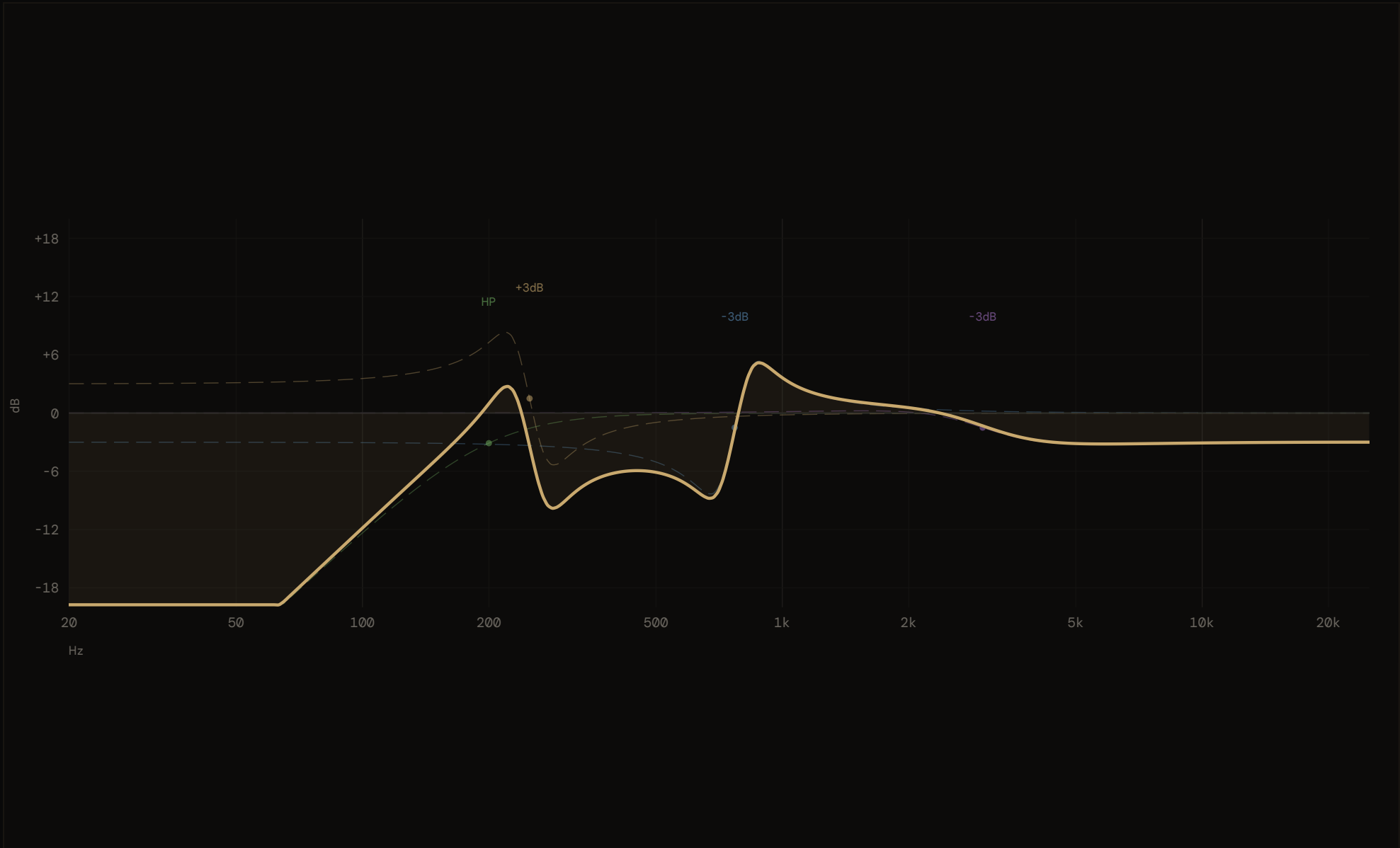
SPL vs Distance

Inverse square law · Ref: 92 dB / 1W / 1m · free field anechoic · 50W RMS / 60W Peak



Recommended EQ

Profile: Default · combined biquad cascade (bold) with individual filter contributions (dashed)



#	TYPE	FREQUENCY	GAIN	Q
1	LS	250 Hz	+3 dB	5
2	LS	770 Hz	-3 dB	5
3	HS	3.0 kHz	-3 dB	1
4	HP	200 Hz	–	0.7

Profile: Default · RBJ biquad cascade · fs = 48 kHz (ADAU1701 DSP)

Proprietary Technologies



PsySculpt

ADAU1701 DSP implementing Fletcher-Munson equal-loudness compensation. Pre-Comp ▯ Loudness L&H ▯ Post-Comp ▯ Log-Decay Peak Detector ▯ Dynamic Bass ▯ DAC. Tonal balance stays consistent from background levels to concert SPL.



XS-Flow

Micro-waveguide geometry precision-machined into the enclosure interior. Channels the rearward acoustic wave around the magnet structure, reducing compression and harmonic distortion at high excursion.