

MODEL R210s



TECHNICAL SPECIFICATIONS



Dynamic, Accurate, Solid. The audiophile's choice. Where sound quality and Transients free of overhang are paramount. Only bettered by our upscale D-Series subs. Ground up drivers developed by our team of engineers. Glass fiber composite diaphragms, multiple aluminum shorting rings, massive magnets, multi-layer Nomex spiders and lightweight aluminum voice coil wire are the key ingredients - Proprietary nonlinear modeling techniques allow us to simulate all these components and then optimize for real world driver performance - free air and in box. Further refinement is done with the aid of Klippel laser measurements to dial things in. To take performance to another level, the push-pull drivers reduce even order harmonics distortion by an additional 10-12dB. Powered by our 1.3kW amplifier, all functions and safeties are controlled by a 48-bit data bath DSP and 32-bit ARM M4 Cortex processor, able to react in microseconds, powerful enough to slam. All R-Series subs share our 2.4" LCD touchscreen display and ability to control advance settings using our App. Certified by THX Dominus

BASIC

Dimensions (HxWxD)
545 x 380 x 450mm
21.5 x 15.0 x 17.7"

Weight
44.0 kg (96.8 lbs.)

Available finishes
Piano Gloss Black

TECHNICAL

Alignment
Push-Pull, acoustic suspension

Amplifier
1.3kW rms short term

Display Interface
2.4" LCD color touchscreen

App
iOS and Android

Processor
32-bit ARM Cortex M4, double precision floating point math

DSP Engine
Ti DSP 48-bit data paths

Driver complement
(2)250mm, Glass fiber diaphragm +/-20mm linear excursion

Frequency Response

- THX EQ
20-290Hz (-6dB) / 16-302Hz (-10dB)
- Boost (Large Room) EQ
16-290Hz (-6dB) / 14-302Hz (-10dB)

- Cut (Small Room) EQ
25-290Hz (-6dB) / 19-302Hz (-10dB)

Inputs
(2) Balanced XLR
(2) Unbalanced RCA

Outputs
(2) Balanced XLR unbuffered
(2) Unbalanced RCA unbuffered

Parametric EQ
10-Band PEQ with 3 user presets

Low Pass filter
bypass, 30-160Hz, slope 6,12,18,24dB/oct

Phase
Variable 0-270°

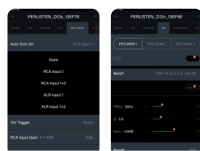
Polarity
normal / inverted

Configurable Auto turn-on and 12v Trigger
XLR 1, XLR 1+2, RCA 1, RCA 1+2

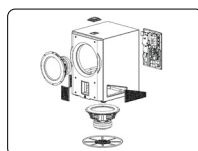
Certification
THX Dominus (4), THX Ultra (1)



App Control
iOS and Android



Advanced APP User interface
Customizable turn-on controls and input selection, multiple PEQ's with presets

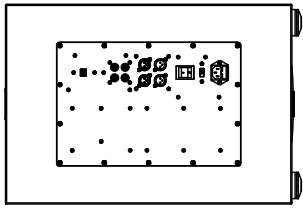
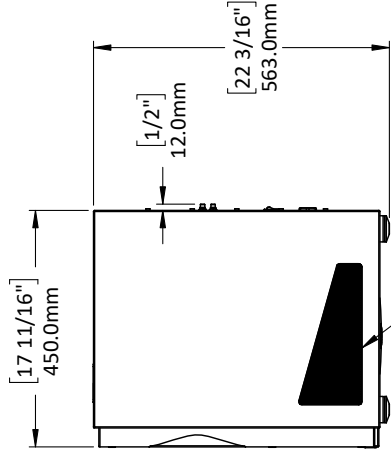
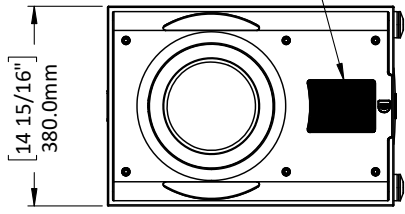
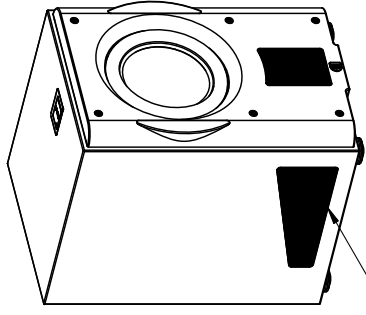
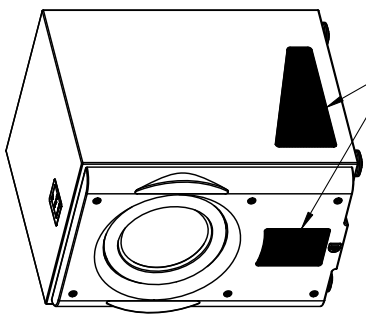
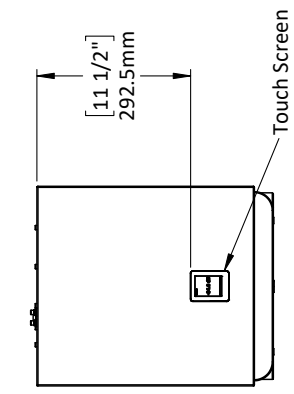


Push-Pull - Asymmetrical
Distortion killer

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REVISIONS		DATE
REV.	DESCRIPTION	
1	Initial Release	1/5/2022

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NAME	DATE	 <small>PERLISTEN AUDIO, LLC</small>
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SCALE: 1:12		SHEET 1 OF 1

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