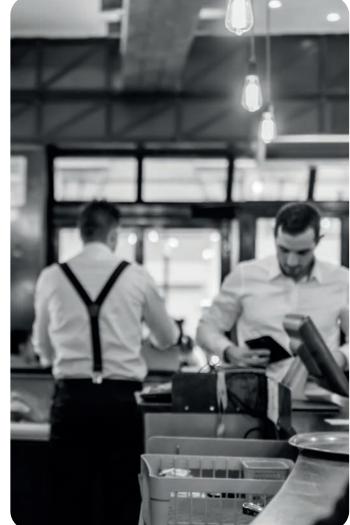


Commercial audio. Done differently.





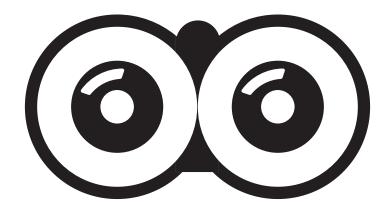




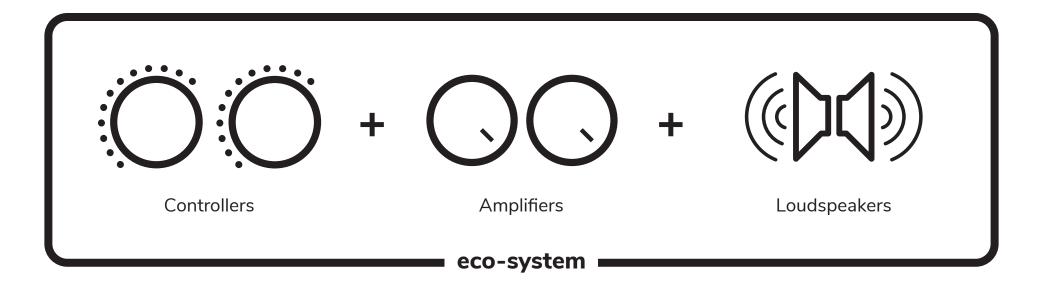




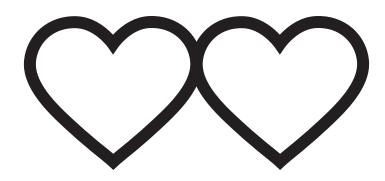




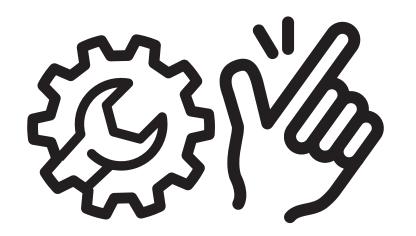
We're here with a fresh outlook.



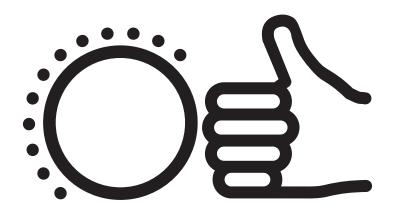
A streamlined product offering. Working seamlessly together.



Where sound quality is assured.



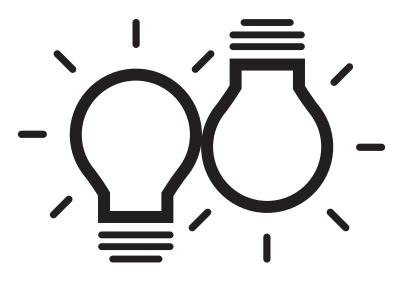
Installation is easy.



Operation is by anyone, not just engineers.



Be ready to inspire.



That's the pathway to create memorable nights of entertainment, engaging retail spaces, inspiring lessons for the next generation and uplifting houses of worship.

Relax, it's Optimal Audio.



A British brand and as part of Focusrite plc, one of the largest pro audio manufacturers in Europe with £130m+ turnover, Optimal Audio benefits from years of engineering experience, global reach and support.





Bars/Restaurants & Cafes

Retail



Wedding Venues



Hotels



Education Facilities



Houses of Worship



Corporate Offices



Museums

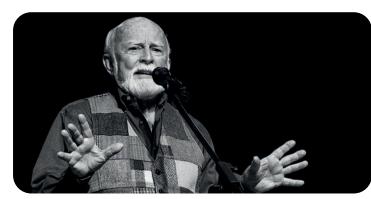


Fitness Studios



Residential







Portfolio

A one-stop solution of control, amplification and loudspeakers for small to medium sized commercial installations with a focus on supporting multi-zone venues. Products are designed to meet the needs of venues and when combined with the intuitive WebApp, enable the installer to easily tailor the system from full EQ and signal processing to setting up of routines and presets.



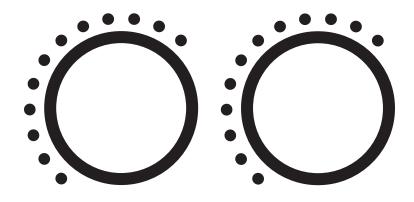








Controllers



Optimal Audio offers a range of controllers designed to integrate with our WebApp and to partner our loudspeaker and amplifier offering.



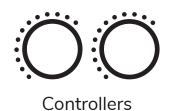
Zone

Controllers

Zone audio controllers with DSP and WebApp

- 4 or 8 zone powered and non-powered versions
- Desktop or rack-mounted
- Convenient front panel controls for sources and levels
- Advanced configuration via hosted WebApp
- Settings stored to SD card, for easy replication
- Emergency alarm override







Zone wall controllers

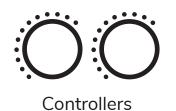
- Wall-mounted
- Single or 4 zone selection of music source
- Level control of selected music and mic inputs
- Single proprietary RJ45/CAT5 connection to system for power, audio and control









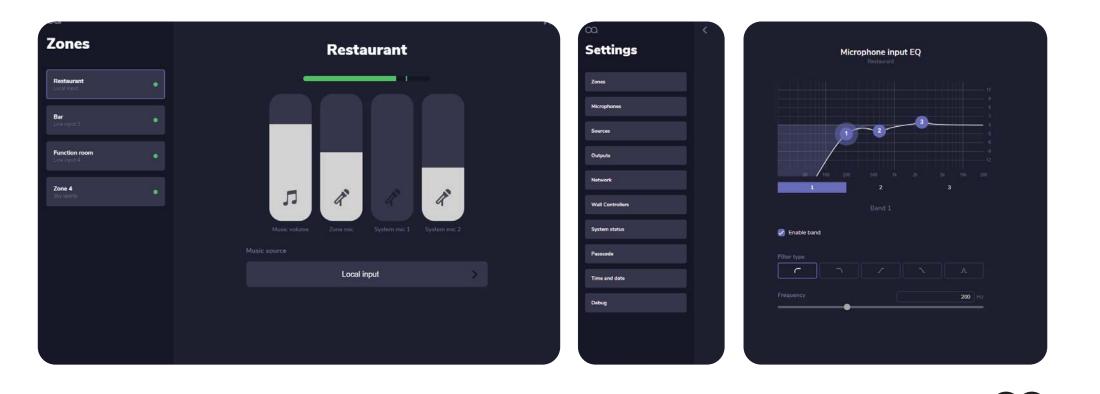




Intuitive system set-up and control

- Simple and intuitive user interface
- Accessed via the browser on any device on any platform
- Control for all connected sources in all zones

- Presets and time of day routines
- Access all functions for complete system set-up including EQ, routing, ducking, limiting and more
- Customisable zone and input naming





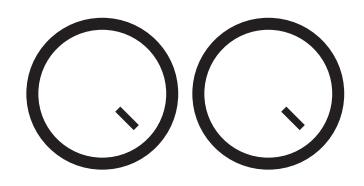








Amplifiers



Optimal Audio offers a range of amplifiers, to partner our loudspeaker and control offering.







SmartAmp

Amplifiers

Amplifiers with DSP

- Three multi-channel direct drive constant voltage amplifiers with DSP
- Up to 30 internal DSP presets for Optimal Audio loudspeakers
- Flexible configuration for a wide range of applications
- \bullet Capable of either $4\Omega\text{-}16\Omega$ or 70V-100V operation





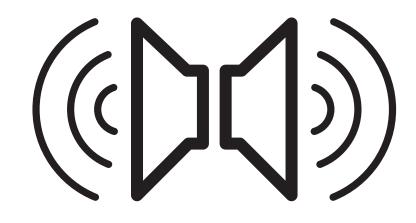








Loudspeakers



Optimal Audio offers a range of ceiling, on-wall and subwoofer loudspeakers for a full complement of commercial applications. Designed by world-class engineers, they offer a premium sound quality at a cost-conscious price point.



Up

Ceiling speakers

- Range of 3", 4" and 6" ceiling speakers
- High quality construction with neutral white finish
- Crisp, clear and evenly distributed sound
- \bullet 70V 100V line amplification with easy access power taps







On-wall loudspeakers

- 3", 5", 8", 10", 12" and 15" two-way, passive, on-wall loudspeakers
- Rich and detailed sound performance at a competitive price point
- Presets in the SmartAmps and Zone products ensure sonic quality
- Flexible mounting hardware for a clean and simple installation



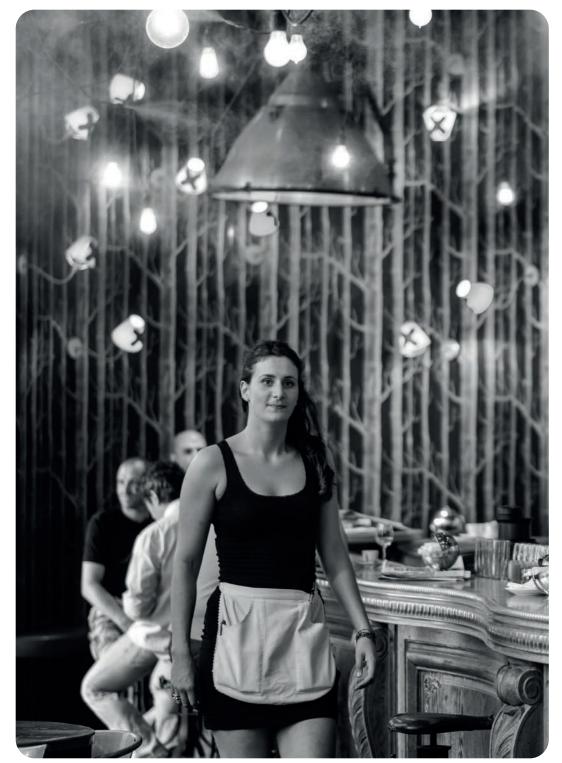




Subwoofers

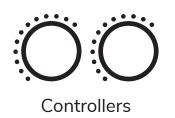
- 10" and 15" reflex loaded subwoofers for punchy bass
- Compact dimensions for greater placement options
- Plywood cabinets and impact resistant steel grille
- Supports mounting/flying





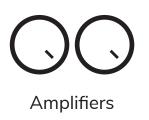






	Zone 4	Zone 4P	Zone 8	Zone 8P
ТҮРЕ	4 zone audio processor with DSP and loudspeaker presets	4 zone audio processor with DSP, amplification and loudspeaker presets	8 zone audio processor with DSP and loudspeaker presets	8 zone audio processor with DSP, amplification and loudspeaker presets
MIC INPUTS	2 with 48V phantom power, +12dB to +55dB gain	2 with 48V phantom power, +12dB to +55dB gain	2 with 48V phantom power, +12dB to +55dB gain	2 with 48V phantom power, +12dB to +55dB gain
MIC INPUT PROCESSING	Fixed hi-pass filter @160Hz; sweepable mid-band 200Hz- 5kHz, +/-12dB; HF shelf @12kHz	Fixed hi-pass filter @160Hz; sweepable mid-band 200Hz- 5kHz, +/-12dB; HF shelf @12kHz	Fixed hi-pass filter @160Hz; sweepable mid-band 200Hz- 5kHz, +/-12dB; HF shelf @12kHz	Fixed hi-pass filter @160Hz; sweepable mid-band 200Hz- 5kHz, +/-12dB; HF shelf @12kHz
LINE INPUTS	4 stereo with +26dB gain trim. SPDIF option on input 1	4 stereo with +26dB gain trim. SPDIF option on input 1	4 stereo with +26dB gain trim. SPDIF option on input 1	4 stereo with +26dB gain trim. SPDIF option on input 1
HDMI INPUTS	2 with ARC	2 with ARC	2 with ARC	2 with ARC
LINE OUTPUTS	4	4	8	8
ZONEPAD SOCKETS	4	4	8	8
AMPLIFIER CHANNELS	n/a	4	n/a	8
AMPLIFIER POWER	n/a	100W at 4Ω or 8Ω	n/a	100W at 4Ω or 8Ω
PAGING INPUTS (CAT 5)	2	2	2	2
LAN ETHERNET 100MBPS	Yes	Yes	Yes	Yes
ALARM OVERRIDE	Yes	Yes	Yes	Yes
DIMENSIONS	(W) 480mm x (H) 88mm x (D) 400mm (W) 18.90" x (H) 3.46" x (D) 15.75"	(W) 480mm x (H) 88mm x (D) 400mm (W) 18.90" x (H) 3.46" x (D) 15.7"	(W) 480mm x (H) 88mm x (D) 400mm (W) 18.90" x (H) 3.461" x (D) 15.7"	(W) 480mm x (H) 88mm x (D) 400mm (W) 18.90" x (H) 3.46" x (D) 15.75"
WEIGHT	9.2kg (20.2lb)	9.75kg (21.5lb)	9.2kg (20.2lb)	10.3kg (22.7lb)

	ZonePad 1	ZonePad 4		
ТҮРЕ	Single zone wall controller with local mic and line inputs	4 zone wall controller		
LOCAL MIC INPUT	1 with 48V phantom power, +12dB to +55dB gain, fixed hi-pass filter @160Hz	n/a		
LOCAL MUSIC INPUT	1 x mono	n/a		
MAXIMUM DISTANCE (CAT5)	500m	500m		
CONNECTION	RJ45	RJ45		
DATA PROTOCOL	Optimal Audio proprietary over CAT 5	Optimal Audio proprietary over CAT 5		
CASE MATERIAL	Zinc plated steel, ABS	Zinc plated steel, ABS		
LENS MATERIAL	Clear acrylic	Clear acrylic		
BACK BOX	2-gang 25mm deep back box	2-gang 25mm deep back box		
DIMENSIONS	(W) 146mm x (H) 86.2mm x (D) 39.3mm (W) 5.75" x (H) 3.39" x (D) 1.55"	(W) 146mm x (H) 86.2mm x (D) 39.3mm (W) 5.75" x (H) 3.39" x (D) 1.55"		
WEIGHT	0.35kg (0.8lb)	0.35kg (0.8lb)		



	•	•	•
	SmartAmp 10	SmartAmp 20	SmartAmp 30
ТҮРЕ	CLASS D power amplifier with DSP	CLASS D power amplifier with DSP	CLASS D power amplifier with DSP
POWER OUTPUT (4Ω-16Ω)	2 x 125W	4 x 125W	4 x 250W
70V – 100V OUTPUT	2 x 125W	4 x 125W	4 x 250W
DIGITAL SIGNAL PROCESSING	EQ & limiter presets for Optimal Audio loudspeakers	EQ & limiter presets for Optimal Audio loudspeakers	EQ & limiter presets for Optimal Audio loudspeakers
COOLING	Forced air cooling with fan	Forced air cooling with fan	Forced air cooling with fan
ANALOGUE IN/LINK	2 balanced line inputs on Euroblock connectors	4 balanced line inputs on Euroblock connectors	4 balanced line inputs on Euroblock connectors
ANALOGUE INPUT IMPEDANCE	$10 k \Omega$ unbalanced, $20 k \Omega$ balanced	10kΩ unbalanced, 20kΩ balanced	10kΩ unbalanced, 20kΩ balanced
MAXIMUM ANALOGUE INPUT LEVEL	+24dBu	+24dBu	+24dBu
AMPLIFIER OUTPUTS	Euroblock	Euroblock	Euroblock
SIGNAL TO NOISE RATIO	> 100dB (A-weighted, 20Hz - 20kHz, 8Ω load)	> 100dB (A-weighted, 20Hz - 20kHz, 8Ω load)	> 100dB (A-weighted, 20Hz - 20kHz, 8Ω load)
FREQUENCY RESPONSE	20Hz - 20kHz, +0/-0.25dB (8Ω load, 3 dB below rated power)	20Hz - 20kHz (+0/-0.25dB (8Ω load, 3dB below rated power)	20Hz - 20kHz, +0/-0.25dB (8Ω load, 3dB below rated power)
TOTAL HARMONIC DISTORTION	< 0.05 % (20Hz - 20kHz, 8Ω load, 3dB below rated power)	< 0.05 % (20Hz - 20kHz, 8Ω load, 3dB below rated power)	< 0.05 % (20Hz - 20kHz, 8Ω load, 3dB below rated power)
SLEW RATE	8.796V/μS at 70V peak, low impedence, 17.77V/μS at 100V peak, high impedence	8.796V/µS at 70V peak, low impedence, 17.77V/µS at 100V peak, high impedence	8.796V/μS at 70V peak, low impedence, 17.77V/μS at 100V peak, high impedence
DAMPING FACTOR	370 with 8Ω load	370 with 8Ω load	370 with 8Ω load
CONTROL AND MONITORING	GPIO	GPIO	GPIO
DSP SAMPLE RATE	48kHz	48kHz	48kHz
MAINS POWER INPUT	Universal mains, 100-240V, 50-60Hz	Universal mains, 100-240V, 50-60Hz	Universal mains, 100-240V, 50-60Hz
MAINS CONNECTOR	IEC	IEC	IEC
POWER CONSUMPTION	75W	150W	300W
HEAT GENERATED	270kJ per hour	540kJ per hour	1080kJ per hour
DIMENSIONS	(W) 220mm x (H) 43.9mm x (D) 277mm (W) 8.67" x (H) 1.73" x (D) 10.91"	(W) 220mm x (H) 44mm x (D) 353mm (W) 8.67" x (H) 1.73" x (D) 13.90"	(W) 440mm x (H) 44mm x (D) 308mm (W) 17.32" x (H) 1.73" x (D) 12.13"
WEIGHT	1.9kg (4.2lb)	2.4kg (5.3lb)	3.6kg (7.9lb)
ACCESSORIES (available separately)	Rack ears and connection plate, rear rack support kit, wall/desktop mount kit	Rack ears and connection plate, rear rack support kit, wall/desktop mount kit	Rear rack support kit
ACCESSORIES (included)	n/a	n/a	2 x rack ears



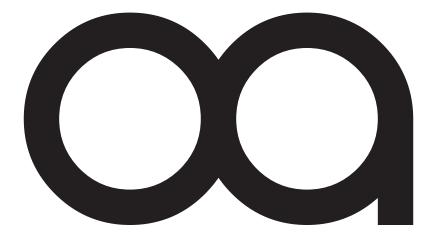
Loudspeakers

	Up 3	Up 40	Up 4S	Up 4	Up 60	Up 6		Sub 10	Sub 15
ТҮРЕ	Full range, passive, ceiling speaker	Full range, passive, ceiling speaker	Two-way, full range, passive, ceiling speaker	Two-way, full range, passive, ceiling speaker	Two-way, full range, passive, ceiling speaker	Two-way, full range, passive, ceiling speaker	ТҮРЕ	Sub-bass loudspeaker	Sub-bass loudspeaker
FREQUENCY RESPONSE (with preset)	95Hz - 15kHz ± 3dB -10dB @68Hz	87Hz - 15kHz ± 3dB -10dB @60Hz	110Hz - 18kHz ± 3dB -10dB @85Hz	100Hz - 18kHz ± 3dB -10dB @74Hz	65Hz to 18kHz ±3dB -10dB @ 50Hz	115Hz - 18kHz ± 3dB -10dB @80Hz	FREQUENCY RESPONSE (with preset)	50Hz - 150Hz ± 3dB -10dB @42Hz	45Hz - 150Hz ± 3dB -10dB @40Hz
DRIVERS	3" (78mm), coated paper	4" (105mm), coated paper	LF: 4" (105mm), polypropylene injection moulded HF: 1 (25mm) exit/0.7 (20mm) voice coil, silk dome	LF: 4" (105mm), coated paper HF: 1 (25mm) exit/0.7" (20mm) voice coil, silk dome	LF: 6.5" (162mm), Coated paper HF: 1" (25mm) exit/ 0.7" (20mm) metal dome	LF: 6.5" (162mm), coated paper HF: 1" (25mm) exit/ 0.7" (20mm) metal dome	DRIVERS	LF: 10" (250mm)	LF: 15" (380mm)
RATED POWER	20W (AES) 40W (peak)	10W (AES)	15W (AES) 30W (peak)	30W (AES) 60W (peak)	60W (AES) 120W (peak)	60W (AES) 120W (peak)	IP RATING	_	· –
NOMINAL IMPEDANCE	8Ω	Tap dependent	8Ω	8Ω	16Ω	16Ω	RATED POWER	250W (AES)	500W (AES)
SENSITIVITY (1W/1m)	84dB	93dB	86dB	87dB	90dB	90dB		1000W (peak)	2000W (peak)
MAXIMUM SPL	97dB (cont), 100dB (peak)	100dB (cont)	98dB (cont), 101dB (peak)	102dB (cont), 105dB (peak)	108dB (cont), 111dB (peak)	108dB (cont), 111dB (peak)	NOMINAL IMPEDANCE	8Ω	Ω8
CROSSOVER	n/a	n/a	3.5kHz passive	3.5kHz passive	2.7kHz passive	2.7kHz passive	SENSITIVITY (1W/1m)	,	: 102dB (half space)
REC. HIGH-PASS FILTER	24dB/octave @90Hz	24dB/Octave @80Hz	24dB/octave @85Hz	24dB/octave @90Hz	24dB/octave, 60Hz	24dB/octave @80Hz	MAXIMUM SPL	121dB (cont), 127dB (peak) (half space)	129dB (cont), 135dB (peak) (half space)
	_	-	8, 4, 2, 1, 0.5W	25, 12.5, 6.3, 3.2W	60, 30, 15, 7.5W	60, 30, 15, 7.5W	CROSSOVER	n/a	n/a
TRANSFORMER TAPS @ 100V		6, 3, 1.5W	•	25, 12.5, 6.3W	60, 30, 15, 7.5W		DISPERSION (-6dB)	n/a	n/a
			8, 4, 2, 1W		•	60, 30, 15W	ENCLOSURE	Plywood	Plywood
DISPERSION (-6dB)	130° conical	130° conical	150° conical	120° conical	110° conical	110° conical	FINISH	Black textured paint	Black textured paint
BACK CAN	Zinc-plated steel	n/a	Zinc-plated steel	Zinc-plated steel	n/a	Zinc-plated steel	PROTECTIVE GRILLE	Perforated steel	Perforated steel
BAFFLE	ABS	ABS	ABS	ABS	ABS	ABS	CONNECTORS	Euroblock type	Euroblock type
PROTECTIVE GRILLE	Perforated steel with cloth backing	Perforated steel with cloth backing	Perforated steel with cloth backing	Perforated steel with cloth backing	Perforated steel	Perforated steel with cloth backing	PIN CONNECTIONS (INPUT)	1+ 1-	1+ 1-
FIRE RATING	UL94-V0	UL94-V0	UL94-V0	UL94-V0	UL94-V0	UL94-V0	FITTINGS	12 x M8, inset bolts	12 x M8, inset bolts
CONNECTORS	4 pin Euroblock with link out	Bare wires	4 pin Euroblock with link out	4 pin Euroblock with link out	4 Pin Euroblock with link out	4 pin Euroblock with link out	DIMENSIONS	(W) 470mm x (H)	(W) 716mm x (H)
FITTINGS	C-ring support backing plate	C-ring support backing plate	C-ring support backing plate	C-ring support backing plate	C-ring support backing plate	C-ring support backing plate	DIMENSIONS	, , . ,	443mm x (D) 480mm
DIMENSIONS (inc. Grille)	(Ø) 202mm x (D) 165mm (Ø) 7.95" x (D) 5.7"	(Ø) 202mm x (D) 117mm (Ø) 7.95" x (D) 4.62"	(Ø) 202mm x (D) 144mm (Ø) 7.95" x (D) 5.67"	(Ø) 202mm x (D) 227.5mm (Ø) 7.95" x (D) 8.96"	(Ø) 251mm x (D) 103.5mm (Ø) 9.88" x (D) 4.1"	(Ø) 251mm x (D) 205.1mm {Ø) 9.88" x (D) 8.08"	WEIGHT	12.9kg (28.4lb)	34.3kg (75.6lb)
CUT-OUT DIAMETER	178mm (7.01")	178mm (7.01")	178mm (7.01")	178mm (7.01")	222mm (8.74")	222mm (8.74")	ACCESSORIES	Sub bracket (pair), M8	M8 eye bolt
WEIGHT	1.6kg (3.5lb)	1.3kg (2.9lb)	2.2kg (4.9lb)	2.2kg (4.9lb)	2.24kg (4.94lb)	3.0kg (6.6lb)	(available separately)	eye bolt	•
INCLUDED ACCESSORIES	2 tile s	• support rails (for 2ft or	• 600mm tile spans), cutout	• template, paint shield, re	• movable locking, multi-pin (connector			



Loudspeakers

	Cuboid 3	Cuboid 3TX	Cuboid 5	Cuboid 5TX	Cuboid 8	Cuboid 10	Cuboid 12	Cuboid 15
ТҮРЕ	Two-way, full range, passive 3" loudspeaker	Two-way, full range, passive 3" loudspeaker with transformer	Two-way, full range, passive, 5" loudspeaker	Two-way, full range, passive, 5" loudspeaker with transformer	Two-way, full range, passive loudspeaker	Two-way, full range, passive loudspeaker	Two-way, full range, passive loudspeaker	Two-way, full range, passive loudspeaker
FREQUENCY RESPONSE (with preset)	125Hz - 20kHz +/-3dB -10dB @ 80Hz	125Hz - 20kHz +/-3dB -10dB @ 80Hz	97Hz - 20kHz +/-3dB -10dB @ 80Hz	97Hz - 20kHz +/-3dB -10dB @ 80Hz	90Hz - 18kHz ± 3dB -10dB @62Hz	65Hz - 20kHz ± 3dB -10dB @49Hz	62Hz - 20kHz ± 3dB -10dB @47Hz	58Hz - 18kHz ± 3dB -10dB @40Hz
DRIVERS	LF: 3.5"(90mm) coated paper, ferrite motor system. HF: 0.5" (12.5mm) PEI Diaphragm neodymium motor system		HF: 0.75" (19mm) Silk Dome	• • • • •	LF: 8" (200mm), ferrite motor system. HF: 1" (25mm) exit/1" (25mm) voice coil, HT polymer dome compression driver	motor system. HF: 1"	LF: 12" (300mm), ferrite motor system. HF: 1" (25mm) exit/1.4" (36mm) voice coil, polyimide dome compression driver	LF: 15" (380mm), ferrite motor system. HF: 1" (25mm) exit/1.7" (44mm) voice coil, polyimide dome compression driver
IP RATING	IP 54, when used with accessory terminal cover	IP 54, when used with accessory terminal cover	IP 54, when used with accessory terminal cover	IP 54, when used with accessory terminal cover	_	_	_	_
RATED POWER	30 W (AES) 120W (peak)	30 W (AES) 120W (peak)	50 W (AES) 200W (peak)	50 W (AES) 200W (peak)	200W (AES) 800W (peak)	250W (AES) 1000W (peak)	300W (AES) 1200W (peak)	500W (AES) 2000W (peak)
NOMINAL IMPEDANCE	8Ω	8Ω	Ω8	Ω8	Ω8	8Ω	Ω8	28
SENSITIVITY (1W/1m)	84dB	84dB	88dB	88dB	92dB	96dB	98dB	99dB
MAXIMUM SPL	98dB (cont) 114dB (peak)	98dB (cont) 114dB (peak) @ 8Ω	105dB (cont) 111dB (peak)	105dB (cont) 111dB (peak) @8Ω	115dB (cont), 121dB (peak)	120dB (cont), 126dB (peak)	123dB (cont), 129dB (peak)	126dB (cont), 132dB (peak)
CROSSOVER	3kHz	3kHz	2.5kHz	2.5kHz	2.9kHz passive	2.8kHz passive	2.5kHz passive	2.3kHz passive
REC. HIGH PASS FILTER	-	24dB Per Octave @ 80Hz	24dB Per Octave @ 60Hz	24dB Per Octave @ 60Hz	_	_	_	-
TRANSFORMER TAPS @ 70V	-	2.5, 3.75, 5, 7.5W	—	2.5, 3.75, 5, 7.5W	-	—	—	-
TRANSFORMER TAPS @ 100V	-	5, 7.5, 10, 15W	—	5, 7.5, 10, 15W	-	—	—	-
DISPERSION (-6dB)	130°H x 120°V	130°H x 120°V	150°H x 100°V	150°H x 100°V	90° H x 50° V (user-rotatable)	90° H x 50° V (user-rotatable)	80° H x 50° V (user-rotatable)	80° H x 50° V (user-rotatable)
ENCLOSURE	ABS	ABS	ABS	ABS	Trapezoid wooden cabinet	Trapezoid wooden cabinet	Trapezoid wooden cabinet	Trapezoid wooden cabinet
FINISH	Paint	Paint	Paint	Paint	Black textured paint	Black textured paint	Black textured paint	Black textured paint
PROTECTIVE GRILLE	Painted Aluminium	Painted Aluminium	Painted Aluminium	Painted Aluminium	Black perforated steel with scrim cloth backing	Black perforated steel with scrim cloth backing	Black perforated steel with scrim cloth backing	Black perforated steel with scrim cloth backing
CONNECTORS	4 pin Euroblock	4 pin Euroblock	4 pin Euroblock	4 pin Euroblock	2x NL4 type	2x NL4 type	2x NL4 type	2x NL4 type
PIN CONNECTIONS (INPUT)	Positive and negative in with link out terminals	Positive and negative in with link out terminals	Positive and negative in with link out terminals	Positive and negative in with link out terminals	1+/1-	1+/1-	1+/1-	1+/1-
FITTINGS	M4 mounting points for wall bracket	M4 mounting points for wall bracket	M4 mounting points for wall bracket	M4 mounting points for wall bracket	16 x M8, inset bolts	21 x M8, inset bolts	21 x M8, inset bolts	19 x M8, inset bolts
DIMENSIONS	(W)120mm x (H)190mm x (D)118mm (W)4.7" x (H)7.5" x (D)4.7"	(W)120mm x (H)190mm x (D)118mm (W)4.7" x (H)7.5" x (D)4.7"	(W)155mm x (H)255mm x (D)150mm (W)6.1" x (H)10" x (D)5.9"	(W)155mm x (H)255mm x (D)150mm (W)6.1" x (H)10" x (D)5.9"	(W) 256mm x (H) 422.5mm x (D) 261mm (W) 10.08" x (H) 16.63" x (D) 10.28"	(W) 322mm x (H) 524mm x (D) 326mm (W) 12.68" x (H) 20.63" x (D) 12.83"	(W) 360mm x (H) 575mm x (D) 392mm (W) 14.17" x (H) 22.64" x (D) 15.43"	(W) 426.5mm x (H) 691.5mm x (D) 416mm (W) 16.79" x (H) 27.22" x (D) 16.38"
WEIGHT	1.26kg (2.8lb)	1.26kg (2.8lb)	2.15kg (4.7lb)	2.15kg (4.7lb)	10kg (22.05lb)	16kg (35.27lb)	20kg (44.09lb)	28kg (61.73lb)
ACCESSORIES (available separately)	Weatherproof terminal cover	Weatherproof terminal cover	Weatherproof terminal cover	Weatherproof terminal cover	Wall bracket A, U bracket A, M8 eye bolt	Wall bracket B, U bracket B, M8 eye bolt	Wall bracket B, U bracket C, M8 eye bolt	Wall bracket C, U bracket D, M8 eye bolt



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