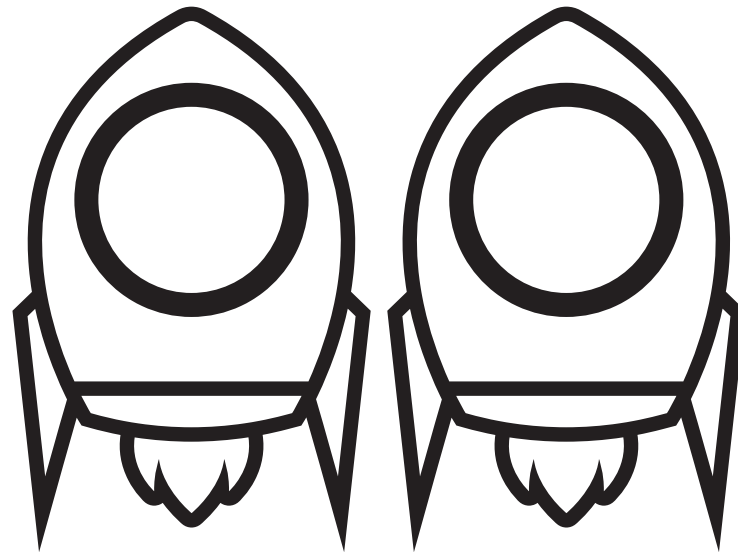
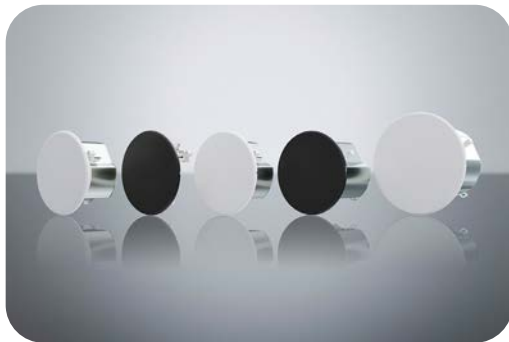
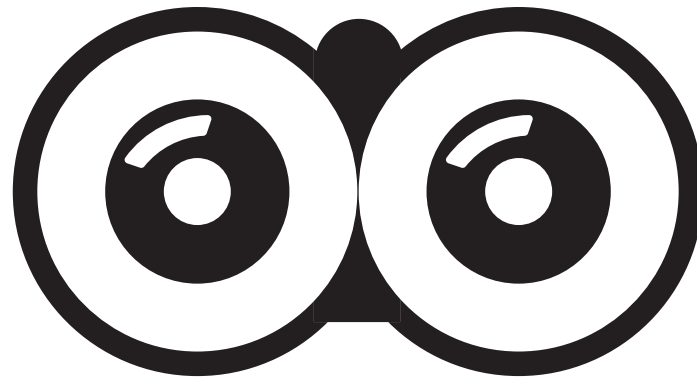


Optimal Audio



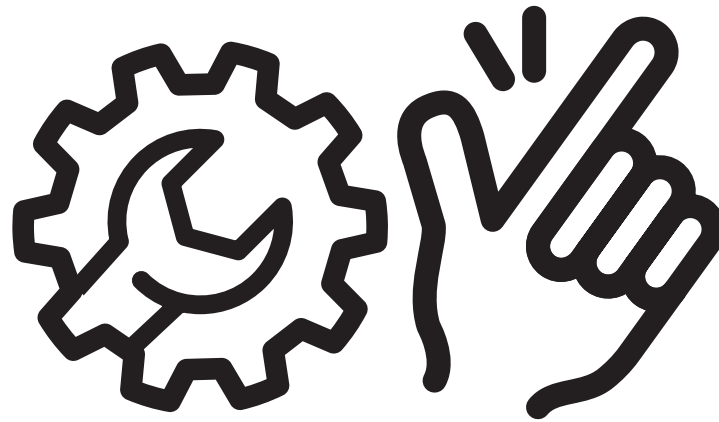
Commercial audio. Done differently.



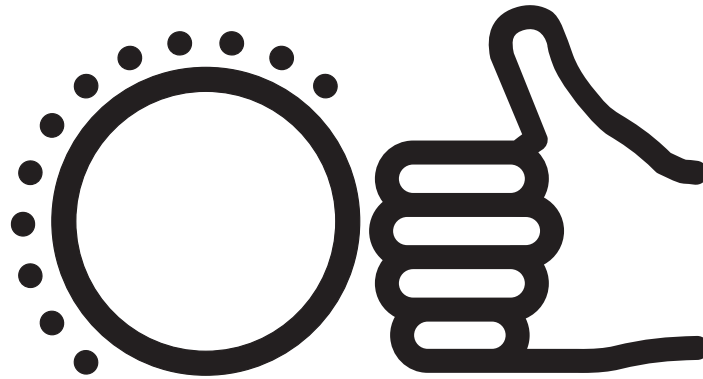


We're here with a fresh outlook.

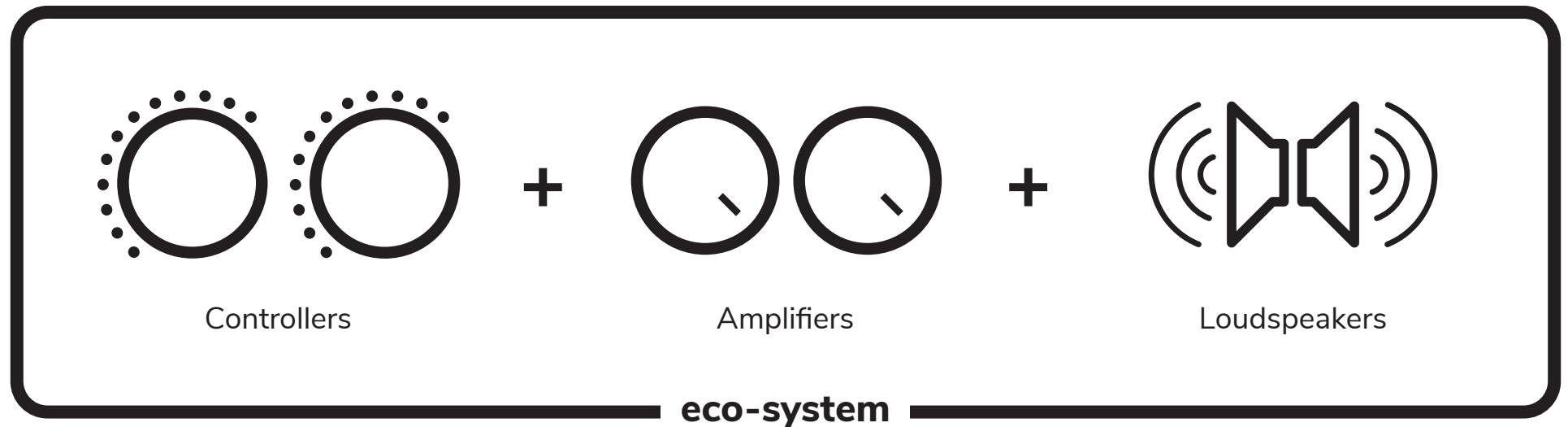




We make installation and tailoring of
high fidelity sound systems easy.



Ensuring venue staff are given intuitive control so they focus on the job at hand.



Delivered by an eco-system of multi-zone audio controllers, amplifiers and loudspeakers, all working seamlessly together and operated easily thanks to our 'secret sauce', WebApp.

Relax, it's Optimal Audio.

Focusrite®

Focusrite® PRO

LINEA
RESEARCH

M MARTIN AUDIO

ADAM AUDIO

novation

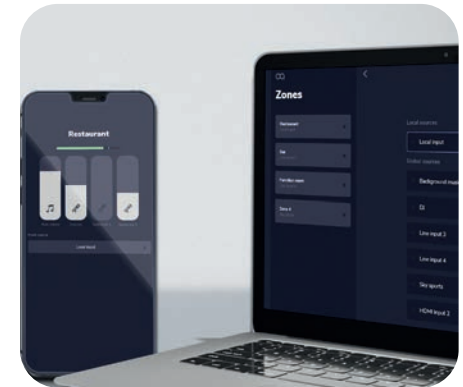
Ampify Music

SEQUENTIAL®

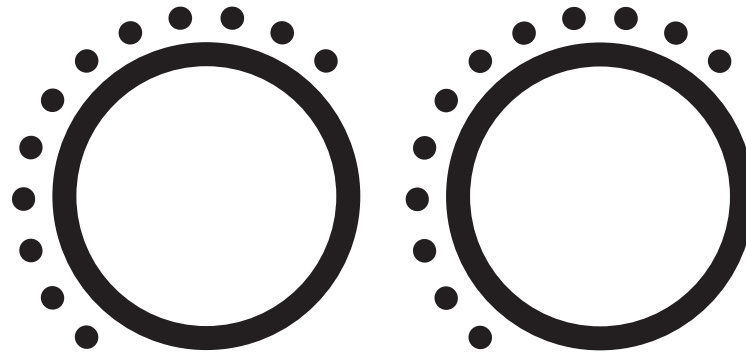
TiMax

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



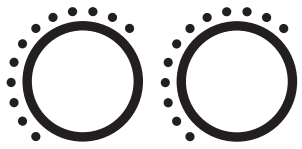


Controllers



Optimal Audio offers a range of multi-award winning zonal audio controllers with DSP and WebApp to unlock the full potential of our portfolio, while elegant wall-mounted controllers make for easy use.





Controllers

Zone

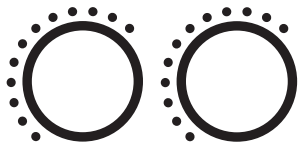
2024
INAVATION
AWARDS
POWERED BY INAVATE + ISE

WINNER 2024

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





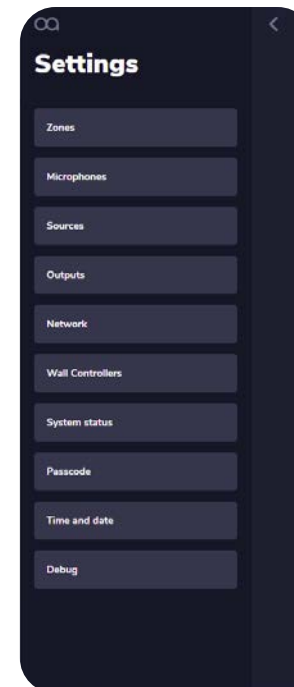
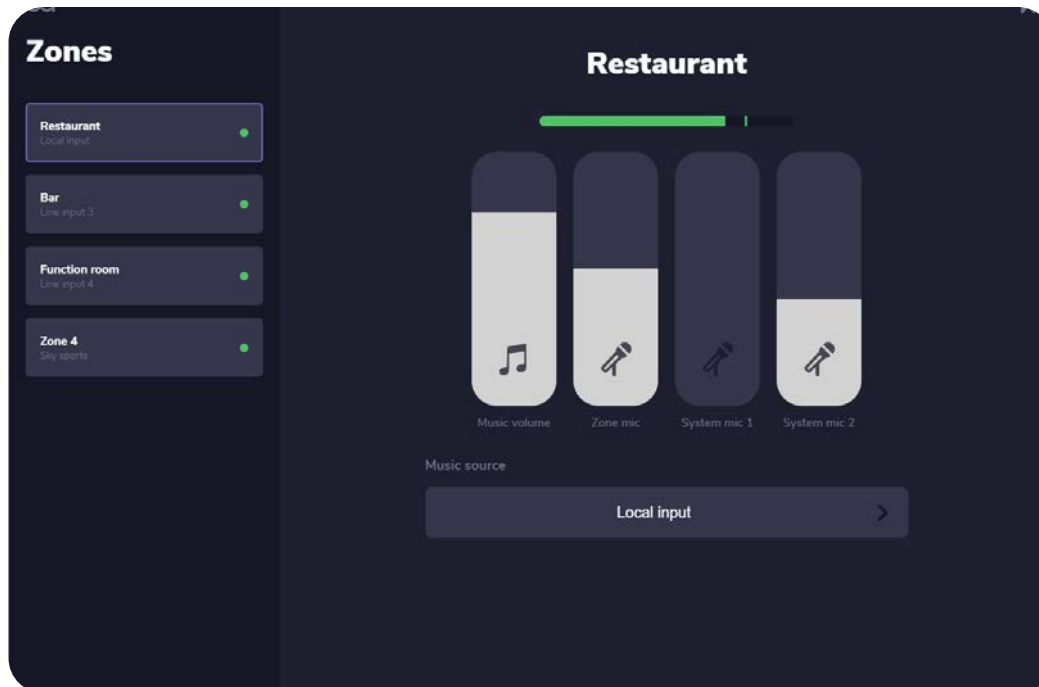
Controllers

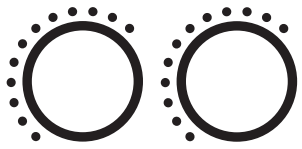
WebApp



Intuitive system set-up and control

- Simple and intuitive customisable 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
- 3rd party device control over OSC via Ethernet





Controllers

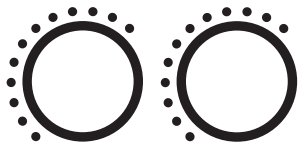
Talk 8



Digital Paging Station

- Robust, weighted desktop design
- Individual and multiple zone paging
- Define zone groups with group selection
- Optional pre-announcement chime
- 6 x instant message replay buttons
- Schedule routines in WebApp for automated message replay
- Powered over RJ45 connector from Zone Controller
- USB-C interface for audio files to 4GB memory
- Supplied with secure fitting Mic 1





Controllers

ZonePad

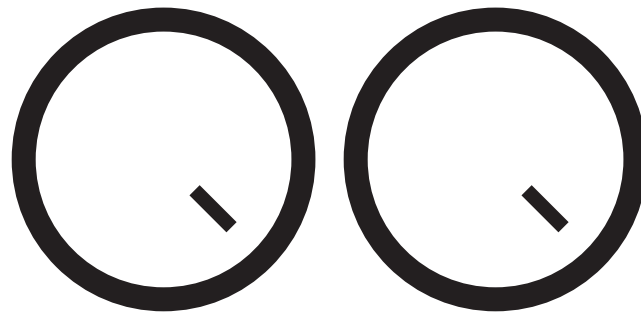
Wall controllers for zonal audio

- Easy to install with intuitive control
- Wall mounted
- Pairs with SmartAmp or Zone, depending on model
- Series covers simple volume control through to full multi-zone source and control

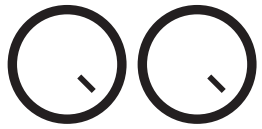




Amplifiers



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



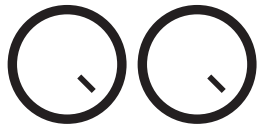
Amplifiers

Amp

Performance power amplifiers

- Cost competitive for the commercial market to accompany our loudspeaker and control offering
- High-power Class A/B design
- Combine with Zone Processor for Optimal Audio speaker presets
- Available in 120v 60Hz or 230v 50/60Hz models





Amplifiers

SmartAmp

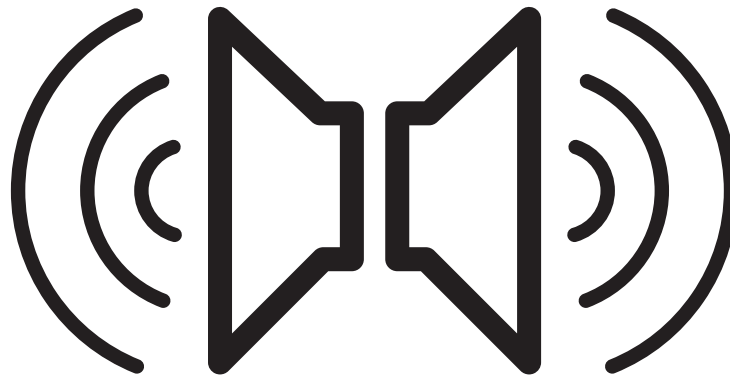
Amplifiers with DSP

- Three multi-channel direct drive constant voltage amplifiers with DSP
- Capable of either 4Ω-16Ω or 70V-100V operation
- 30 internal DSP presets for Optimal Audio loudspeakers
- Custom speaker preset building for third-party loudspeakers
- Flexible DSP configuration for each output





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.





Loudspeakers

Up

Ceiling and pendant loudspeakers

- High quality construction with neutral white finish
- Crisp, clear and evenly distributed sound
- 70V – 100V line amplification with easy access power taps
- Pendant housing and bezel-less grille accessories available





Loudspeakers

Cuboid

On-wall loudspeakers

- 3", 5", 6", 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



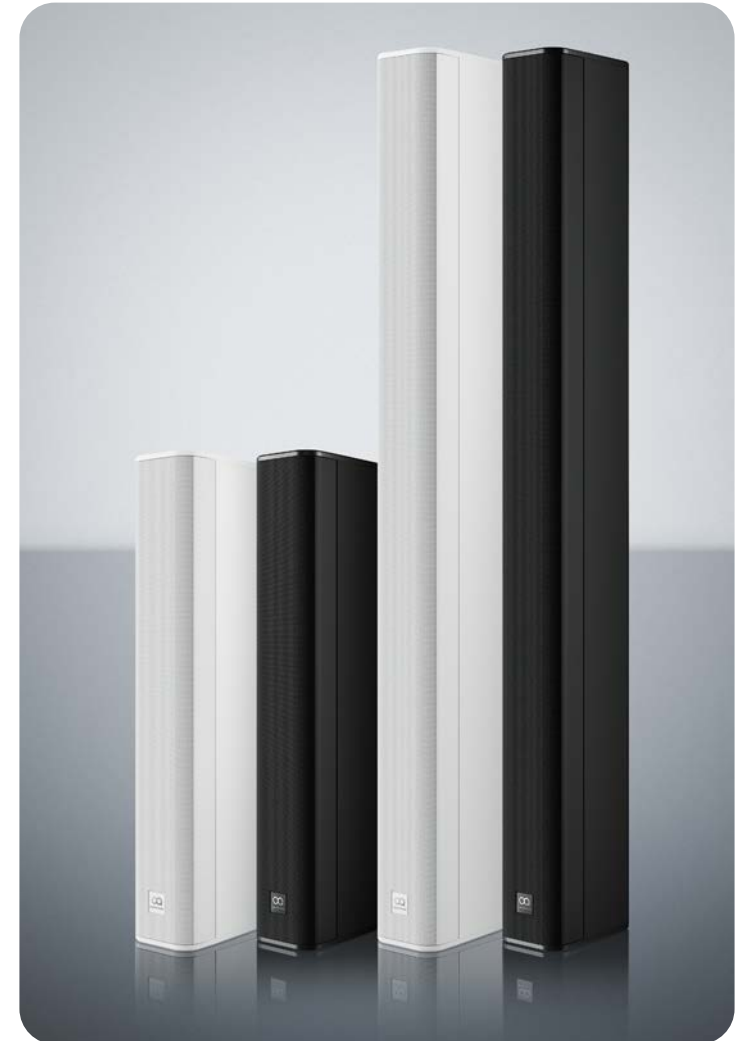


Loudspeakers

Column

Column loudspeakers

- 8x 2.2" (Column 8) and 16x 2.2" (Column 16) passive full-range column loudspeakers, with transformer
- Wide horizontal coverage with tight, controlled vertical directivity
- IP54 rated for semi-exposed installations
- Pan-and-tilt bracket, safety strap, IP54 weatherisation kit and spare grille cloth — included as standard
- Available in black or white, paintable to match the architecture





Loudspeakers

Sub

Subwoofers

- 6", 10", 15" and 18" reflex loaded subwoofers for punchy bass
- Compact dimensions for greater placement options
- Wooden cabinets and impact resistant steel grille
- Supports mounting/flying





Controllers

Technical Specifications

	Zone 4	Zone 4P	Zone 8	Zone 8P
TYPE	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	2	2	2
LINE OUTPUTS	4	4	8	8
ZONEPAD SOCKETS	4	4	8	8
AMPLIFIER CHANNELS	—	4	—	8
AMPLIFIER POWER	—	100W at 4Ω or 8Ω	—	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 × H × D	480 × 88 × 400 mm 18.90 × 3.46 × 15.75 in	480 × 88 × 400 mm 18.90 × 3.46 × 15.75 in	480 × 88 × 400 mm 18.90 × 3.46 × 15.75 in	480 × 88 × 400 mm 18.90 × 3.46 × 15.75 in
WEIGHT	9.2kg (20.2lb)	9.75kg (21.5lb)	9.2kg (20.2lb)	10.3kg (22.7lb)



Controllers

Technical Specifications

	ZonePad VL1-UK-W	ZonePad VL1-US-W
TYPE	Passive analogue volume / level wall controller	Passive analogue volume / level wall controller
CONTROL	Single rotary potentiometer (>10 kΩ)	Single rotary potentiometer (>10 kΩ)
CONNECTION	SmartAmp GPIO (6-pin Euroblock, pins 1–4)	SmartAmp GPIO (6-pin Euroblock, pins 1–4)
POWER	None — 3.3V from SmartAmp GPIO VCC	None — 3.3V from SmartAmp GPIO VCC
FACEPLATE	Painted steel, silk-screened graphics	Painted steel, silk-screened graphics
FINISH	RAL 9003 Signal White	RAL 9003 Signal White
CABLE	Shielded (required for EMC)	Shielded (required for EMC)
COMPATIBILITY	SmartAmp 10 / 20 / 30, firmware v3.0+	SmartAmp 10 / 20 / 30, firmware v3.0+
MOUNTING	2× countersunk machine screws	2× countersunk machine screws
PLATE FORMAT	UK / EU single-gang	US 1-gang decora
DIMENSIONS W × H	85.8 × 85.8 mm 3.38 × 3.38 in	114 × 70 mm 4.49 × 2.76 in
FIXING CENTRES	60.6mm (2.39")	83mm (3.27")

ZonePad 8	
TYPE	8 zone touchscreen wall controller
DISPLAY	8" IPS, capacitive, 10 multi-touch, IK2 impact
RESOLUTION	1280 × 800, 189 DPI
SYSTEM CONNECTION	Ethernet via RJ45 / Wireless
POWER	PoE or optional 12V adaptor
COMPUTING	Allwinner A133 Quad-Core Cortex-A53, 2GB RAM, Android 14
ENCLOSURE	Satin finished ABS, UL94 V0
COLOUR	Black
MOUNTING	Surface mount (single-gang EU, US, UK back boxes)
DIMENSIONS W × H × D	189 × 119 × 15 mm 7.44 × 4.68 × 0.59 in
WEIGHT	0.32kg (0.70lb)

	ZonePad 1	ZonePad 4
TYPE	Single zone wall controller with local mic and line inputs	4 zone wall controller
LOCAL MIC INPUT	1 with 48V phantom, +12 to +55dB gain, hi-pass @160Hz	—
LOCAL MUSIC INPUT	1× mono	—
MAX 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 UK/EU 20mm, or 3-gang US (with adapter)	2-gang UK/EU 20mm, or 3-gang US (with adapter)
DIMENSIONS W × H × D	146 × 86.2 × 39.3 mm 5.75 × 3.39 × 1.55 in	146 × 86.2 × 39.3 mm 5.75 × 3.39 × 1.55 in
WEIGHT	0.35kg (0.8lb)	0.35kg (0.8lb)

Talk 8	
TYPE	8 zone paging station
MIC INPUT	3-pin XLR with switchable 48V phantom, +12 to +55dB
INTERNAL STORAGE	USB-C (4GB memory)
SYSTEM CONNECTION	RJ45 via locking etherCON
MAX DISTANCE (CAT5)	500m
DATA PROTOCOL	Optimal Audio proprietary over CAT 5
CASE MATERIAL	Painted steel, ABS
DIMENSIONS W × H × D	230 × 54 × 168 mm (excl. feet) 9.05 × 2.13 × 6.6 in (excl. feet)
WEIGHT	1.65kg (3.63lb)





Amplifiers

Technical Specifications

	Amp 100	Amp 200	Amp 300
TYPE	Class A/B power amplifier	Class A/B power amplifier	Class A/B power amplifier
OUTPUT (4Ω–16Ω)	4Ω 350W / 8Ω 250W / 8Ω BR 700W	4Ω 700W / 8Ω 400W / 8Ω BR 1400W	4Ω 1350W / 8Ω 800W / 8Ω BR 2700W
COOLING	Forced air with fan	Forced air with fan	Forced air with fan
INPUT	Jack/XLR combo	Jack/XLR combo	Jack/XLR combo
INPUT IMPEDANCE	7.5kΩ unbal, 15kΩ bal	7.5kΩ unbal, 15kΩ bal	7.5kΩ unbal, 15kΩ bal
MAX INPUT LEVEL	+20dBu	+20dBu	+20dBu
OUTPUTS	Speakon / 4mm binding posts	Speakon / 4mm binding posts	Speakon / 4mm binding posts
S/N RATIO	102dB	104dB	107dB
FREQ RESPONSE	20Hz–20kHz, +0/–0.5dB	20Hz–20kHz, +0/–0.5dB	20Hz–20kHz, +0/–0.5dB
THD	<0.03% @ 1W	<0.03% @ 1W	<0.03% @ 1W
SLEW RATE	9.31V/μs (8Ω)	9.31V/μs (8Ω)	9.31V/μs (8Ω)
DAMPING FACTOR	>400 (8Ω)	>400 (8Ω)	>400 (8Ω)
MAINS POWER	120V or 230V variants	120V or 230V variants	120V or 230V variants
DIMENSIONS W × H × D	482 × 88 × 426 mm 18.97 × 3.45 × 16.77 in	482 × 88 × 426 mm 18.97 × 3.45 × 16.77 in	482 × 88 × 426 mm 18.97 × 3.45 × 16.77 in
WEIGHT	14.76kg (32.54lb)	17.06kg (37.61lb)	20.09kg (44.29lb)

	SmartAmp 10	SmartAmp 20	SmartAmp 30
TYPE	Class D with DSP	Class D with DSP	Class D with DSP
OUTPUT (4Ω–16Ω)	2× 125W	4× 125W	4× 250W
70V – 100V OUTPUT	2× 125W	4× 125W	4× 250W
DSP	EQ and limiter presets	EQ and limiter presets	EQ and limiter presets
INPUTS	2 balanced line	4 balanced line	4 balanced line
INPUT IMPEDANCE	10kΩ unbal, 20kΩ bal	10kΩ unbal, 20kΩ bal	10kΩ unbal, 20kΩ bal
MAX INPUT LEVEL	+24dBu	+24dBu	+24dBu
OUTPUTS	Euroblock	Euroblock	Euroblock
S/N RATIO	>100dB (A-wt, 8Ω)	>100dB (A-wt, 8Ω)	>100dB (A-wt, 8Ω)
FREQ RESPONSE	20Hz–20kHz, +0/–0.25dB	20Hz–20kHz, +0/–0.25dB	20Hz–20kHz, +0/–0.25dB
THD	<0.05% (8Ω, 3dB below rated)	<0.05% (8Ω, 3dB below rated)	<0.05% (8Ω, 3dB below rated)
CONTROL	GPIO	GPIO	GPIO
DSP SAMPLE RATE	48kHz	48kHz	48kHz
MAINS POWER	Universal 100–240V	Universal 100–240V	Universal 100–240V
DIMENSIONS W × H × D	220 × 43.9 × 277 mm 8.67 × 1.73 × 10.91 in	220 × 44 × 353 mm 8.67 × 1.73 × 13.90 in	440 × 44 × 308 mm 17.32 × 1.73 × 12.13 in
WEIGHT	1.9kg (4.2lb)	2.4kg (5.3lb)	3.6kg (7.9lb)



Loudspeakers

Technical Specifications

	Up 3	Up 40	Up 4S	Up 4	Up 6
TYPE	Full range, passive ceiling speaker	Full range, passive ceiling speaker	Two-way, passive ceiling speaker	Two-way, passive ceiling speaker	Two-way, passive ceiling speaker
FREQUENCY RESPONSE	95Hz–15kHz ±3dB, –10dB @ 68Hz	87Hz–15kHz ±3dB, –10dB @ 60Hz	110Hz–18kHz ±3dB, –10dB @ 85Hz	100Hz–18kHz ±3dB, –10dB @ 74Hz	115Hz–18kHz ±3dB, –10dB @ 80Hz
DRIVERS	3" (78mm) coated paper	4" (105mm) coated paper	LF: 4" PP; HF: 1" silk dome	LF: 4" paper; HF: 1" silk dome	LF: 6.5" paper; HF: 1" metal dome
RATED POWER	20W (AES)	10W (AES)	15W (AES)	30W (AES)	60W (AES)
NOMINAL IMPEDANCE	8Ω	Tap dependent	8Ω	8Ω	16Ω
SENSITIVITY (1W/1m)	84dB	93dB	86dB	87dB	90dB
MAXIMUM SPL	97dB cont, 100dB peak	100dB cont	98dB cont, 101dB peak	102dB cont, 105dB peak	108dB cont, 111dB peak
CROSSOVER	—	—	3.5kHz passive	3.5kHz passive	2.7kHz passive
HIGH-PASS FILTER	24dB/oct @ 90Hz	24dB/oct @ 80Hz	24dB/oct @ 85Hz	24dB/oct @ 90Hz	24dB/oct @ 80Hz
70V TAPS	15, 7.5, 3.8, 1.9W	6, 3, 1.5, 0.75W	8, 4, 2, 1, 0.5W	25, 12.5, 6.3, 3.2W	60, 30, 15, 7.5W
100V TAPS	15, 7.5, 3.8W	6, 3, 1.5W	8, 4, 2, 1W	25, 12.5, 6.3W	60, 30, 15W
DISPERSION (–6dB)	130° conical	130° conical	150° conical	120° conical	110° conical
BACK CAN	Zinc-plated steel	—	Zinc-plated steel	Zinc-plated steel	Zinc-plated steel
DIMENSIONS Ø × D	202 × 165 mm 7.95 × 6.50 in	202 × 117 mm 7.95 × 4.61 in	202 × 144 mm 7.95 × 5.67 in	202 × 227.5 mm 7.95 × 8.96 in	251 × 205.1 mm 9.88 × 8.07 in
CUT-OUT DIAMETER	178mm (7.01")	178mm (7.01")	178mm (7.01")	178mm (7.01")	222mm (8.74")
WEIGHT	1.6kg (3.5lb)	1.3kg (2.9lb)	2.2kg (4.9lb)	2.2kg (4.9lb)	3.0kg (6.6lb)





Loudspeakers

Technical Specifications

	Cuboid 3	Cuboid 3TX	Cuboid 5	Cuboid 5TX	Cuboid 6	Cuboid 6TX
TYPE	Two-way passive 3"	Two-way passive 3" with transformer	Two-way passive 5"	Two-way passive 5" with transformer	Two-way passive 6.5"	Two-way passive 6.5" with transformer
FREQUENCY RESPONSE	125Hz–20kHz ±3dB, –10dB @ 80Hz	125Hz–20kHz ±3dB, –10dB @ 80Hz	97Hz–20kHz ±3dB, –10dB @ 80Hz	97Hz–20kHz ±3dB, –10dB @ 80Hz	90Hz–20kHz ±3dB, –10dB @ 70Hz	90Hz–20kHz ±3dB, –10dB @ 70Hz
DRIVERS	LF: 3.5" paper; HF: 0.5" PEI dome	LF: 3.5" paper; HF: 0.5" PEI dome	LF: 5.25" paper; HF: 0.75" silk dome	LF: 5.25" paper; HF: 0.75" silk dome	LF: 6.5" paper; HF: 1" silk dome	LF: 6.5" paper; HF: 1" silk dome
IP RATING	IP54 with terminal cover	IP54 with terminal cover	IP54 with terminal cover	IP54 with terminal cover	IP54 with terminal cover	IP54 with terminal cover
RATED POWER	30W (AES) 120W peak	30W (AES) 120W peak	50W (AES) 200W peak	50W (AES) 200W peak	60W (AES) 240W peak	60W (AES) 240W peak
NOMINAL IMPEDANCE	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω
SENSITIVITY (1W/1m)	84dB	84dB	88dB	88dB	89dB	89dB
MAXIMUM SPL	98dB cont, 114dB peak	98dB cont, 114dB peak	105dB cont, 111dB peak	105dB cont, 111dB peak	107dB cont, 113dB peak	107dB cont, 113dB peak
CROSSOVER	3kHz	3kHz	2.5kHz	2.5kHz	3.4kHz	3.4kHz
HIGH-PASS FILTER	—	24dB/oct @ 80Hz	24dB/oct @ 60Hz	24dB/oct @ 60Hz	24dB/oct @ 50Hz	24dB/oct @ 50Hz
70V TAPS	—	2.5, 3.75, 5, 7.5W	—	2.5, 3.75, 5, 7.5W	—	3.75, 7.5, 15, 30W
100V TAPS	—	5, 7.5, 10, 15W	—	5, 7.5, 10, 15W	—	7.5, 15, 30, 60W
DISPERSION (–6dB)	130°H × 120°V	130°H × 120°V	150°H × 100°V	150°H × 100°V	130°H × 120°V	130°H × 120°V
DIMENSIONS W × H × D	120 × 190 × 118 mm 4.7 × 7.5 × 4.7 in	120 × 190 × 118 mm 4.7 × 7.5 × 4.7 in	155 × 255 × 150 mm 6.1 × 10.0 × 5.9 in	155 × 255 × 150 mm 6.1 × 10.0 × 5.9 in	200 × 320 × 190 mm 7.9 × 12.6 × 7.5 in	200 × 320 × 190 mm 7.9 × 12.6 × 7.5 in
WEIGHT	1.26kg (2.8lb)	1.26kg (2.8lb)	2.15kg (4.7lb)	2.15kg (4.7lb)	3.82kg (8.4lb)	3.82kg (8.4lb)



Loudspeakers

Technical Specifications

	Cuboid 8	Cuboid 10	Cuboid 12	Cuboid 15
TYPE	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	90Hz–18kHz ±3dB, –10dB @ 62Hz	65Hz–20kHz ±3dB, –10dB @ 49Hz	62Hz–20kHz ±3dB, –10dB @ 47Hz	58Hz–18kHz ±3dB, –10dB @ 40Hz
DRIVERS	LF: 8" ferrite; HF: 1" HT polymer compression	LF: 10" ferrite; HF: 1.4" polyimide compression	LF: 12" ferrite; HF: 1.4" polyimide compression	LF: 15" ferrite; HF: 1.7" polyimide compression
RATED POWER	200W (AES) 800W peak	250W (AES) 1000W peak	300W (AES) 1200W peak	500W (AES) 2000W peak
NOMINAL IMPEDANCE	8Ω	8Ω	8Ω	8Ω
SENSITIVITY (1W/1m)	92dB	96dB	98dB	99dB
MAXIMUM SPL	115dB cont, 121dB peak	120dB cont, 126dB peak	123dB cont, 129dB peak	126dB cont, 132dB peak
CROSSOVER	2.9kHz passive	2.8kHz passive	2.5kHz passive	2.3kHz passive
DISPERSION (–6dB)	90°H × 50°V (rotatable)	90°H × 50°V (rotatable)	80°H × 50°V (rotatable)	80°H × 50°V (rotatable)
ENCLOSURE	Trapezoid wooden cabinet	Trapezoid wooden cabinet	Trapezoid wooden cabinet	Trapezoid wooden cabinet
FINISH	Black textured paint	Black textured paint	Black textured paint	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth	Black perforated steel with scrim cloth	Black perforated steel with scrim cloth	Black perforated steel with scrim cloth
CONNECTORS	1× NL4, 1× 4-pin Euroblock	1× NL4, 1× 4-pin Euroblock	1× NL4, 1× 4-pin Euroblock	1× NL4, 1× 4-pin Euroblock
FITTINGS	16× M8 inset bolts	21× M8 inset bolts	21× M8 inset bolts	19× M8 inset bolts
DIMENSIONS W × H × D	256 × 422.5 × 261 mm 10.08 × 16.63 × 10.28 in	322 × 524 × 326 mm 12.68 × 20.63 × 12.83 in	360 × 575 × 392 mm 14.17 × 22.64 × 15.43 in	426.5 × 691.5 × 416 mm 16.79 × 27.22 × 16.38 in
WEIGHT	10kg (22.05lb)	16kg (35.27lb)	20kg (44.09lb)	28kg (61.73lb)
ACCESSORIES (separately)	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



Loudspeakers

Technical Specifications

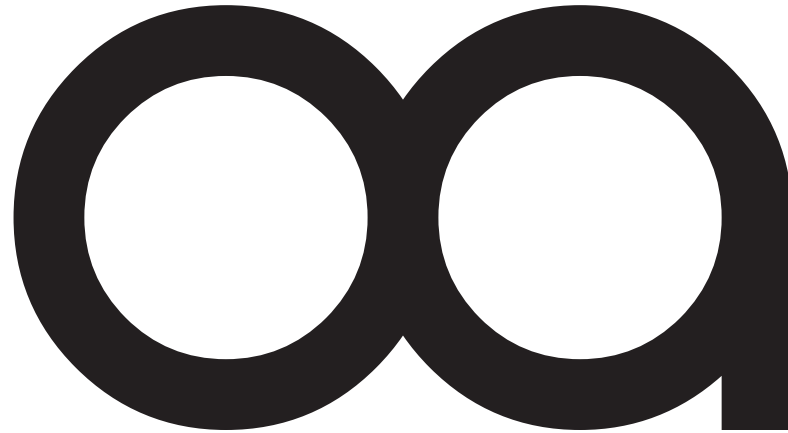
	Column 8	Column 16
TYPE	Full range, passive column loudspeaker, 8× 2.2" with transformer	Full range, passive column loudspeaker, 16× 2.2" with transformer
FREQUENCY RESPONSE	80Hz–20kHz (–10dB)	80Hz–20kHz (–10dB)
DRIVERS	8× 2.2" (56mm) full range	16× 2.2" (56mm) full range
IP RATING	IP54 when used with accessory terminal cover	IP54 when used with accessory terminal cover
RATED POWER	120W (AES)	240W (AES)
NOMINAL IMPEDANCE	8Ω	8Ω
SENSITIVITY (1W/1m)	88dB	90dB
MAXIMUM SPL	108dB (cont)	113dB (cont)
CROSSOVER	Full range — no crossover	Full range — no crossover
70V TAPS	7.5, 15, 30, 60W	7.5, 15, 30, 60W
100V TAPS	15, 30, 60, 120W	15, 30, 60, 120W
DISPERSION (–6dB)	150°H × 7°V	150°H × 5°V
ENCLOSURE	ABS	ABS
FINISH	Black or white	Black or white
PROTECTIVE GRILLE	Painted steel	Painted steel
CONNECTORS	4-pin Euroblock	4-pin Euroblock
PIN CONNECTIONS	+/- input with link-out terminals	+/- input with link-out terminals
FITTINGS	8× M5 mounting points	8× M5 mounting points
DIMENSIONS W × H × D	100 × 610 × 155 mm 3.94 × 24.02 × 6.10 in	100 × 1100 × 155 mm 3.94 × 43.31 × 6.10 in
WEIGHT	5kg (11.02lb)	8kg (17.64lb)
ACCESSORIES (included)	Pan-and-tilt bracket, safety strap, IP54 kit, spare grille cloth	Pan-and-tilt bracket, safety strap, IP54 kit, spare grille cloth
RECOMMENDED SUB	Sub 6, Sub 10	Sub 10, Sub 15



Loudspeakers

Technical Specifications

	Sub 6	Sub 10	Sub 15	Sub 18
TYPE	Sub-bass loudspeaker	Sub-bass loudspeaker	Sub-bass loudspeaker	Sub-bass loudspeaker
FREQUENCY RESPONSE	41Hz–200Hz ±3dB, –10dB @ 37Hz	50Hz–150Hz ±3dB, –10dB @ 42Hz	45Hz–150Hz ±3dB, –10dB @ 40Hz	42Hz–150Hz ±3dB, –10dB @ 36Hz
DRIVERS	LF: 6" (152mm)	LF: 10" (250mm)	LF: 15" (380mm)	LF: 18" (460mm)
RATED POWER	250W (AES) 1000W peak	250W (AES) 1000W peak	500W (AES) 2000W peak	800W (AES) 3200W peak
NOMINAL IMPEDANCE	8Ω	8Ω	8Ω	8Ω
SENSITIVITY (1W/1m)	88dB (half space)	97dB (half space)	102dB (half space)	101dB (half space)
MAXIMUM SPL	112dB cont, 118dB peak (half space)	121dB cont, 127dB peak (half space)	129dB cont, 135dB peak (half space)	130dB cont, 136dB peak (half space)
ENCLOSURE	MDF	Plywood	Plywood	Plywood
FINISH	Black or white textured paint	Black textured paint	Black textured paint	Black textured paint
PROTECTIVE GRILLE	Perforated steel	Perforated steel	Perforated steel	Perforated steel
CONNECTORS	Euroblock type	Euroblock type	Euroblock type	Euroblock type
PIN CONNECTIONS	4-pin Euroblock with link-out	4-pin Euroblock with link-out	4-pin Euroblock with link-out	4-pin Euroblock with link-out
FITTINGS	16× M8 inset bolts	12× M8 inset bolts	12× M8 inset bolts	12× M8 inset bolts
DIMENSIONS W × H × D	200 × 310 × 400 mm (excl. feet) 7.9 × 12.2 × 15.7 in (excl. feet)	470 × 297 × 353 mm 18.50 × 11.7 × 13.9 in	716 × 443 × 480 mm 28.19 × 17.4 × 18.9 in	756 × 530 × 544 mm 29.76 × 20.86 × 21.42 in
WEIGHT	11.5kg (25.3lb)	12.9kg (28.4lb)	34.3kg (75.6lb)	47.0kg (103.6lb)
ACCESSORIES (separately)	Sub bracket (pair), M8 eye bolt	Sub bracket (pair), M8 eye bolt	M8 eye bolt	M8 eye bolt



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