



CONTRACTOR
CATALOGUE 2024/2025

Over 60 years of designing and manufacturing professional audio products in Italy, providing sound specialists worldwide with the best quality.

CRAFTED SOUND

Our Made in Italy DNA is driven by an inherent desire to explore and learn. **Research** and **innovation** are at the forefront of this pursuit, while still respecting the traditional methods of **craftsmanship**.

All departments under one roof. A standout feature of our company that allows us to be self-reliant throughout every stage of the production process: research and development, woodworking, finishing, metalworking, electronic assembly, electronic testing, speakers assembly, acoustic testing and logistics, including audio system design, sales, marketing and after-sales services.



WE PROVIDE THE INDUSTRY PROFESSIONALS WITH 360° ASSISTANCE.

_Support

Planning the workflow, defining specifications and functionality, performing acoustical measurements according to national/international standards. Site inspection on demand.

_System Commissioning

Support during installation by remote or through on-site inspections, audio system commissioning with acoustic measurements according to national/international standards, providing commissioning signed report and on-site technical service.

Our long and dedicated experience in the audio industry makes us the reliable partner we are today.

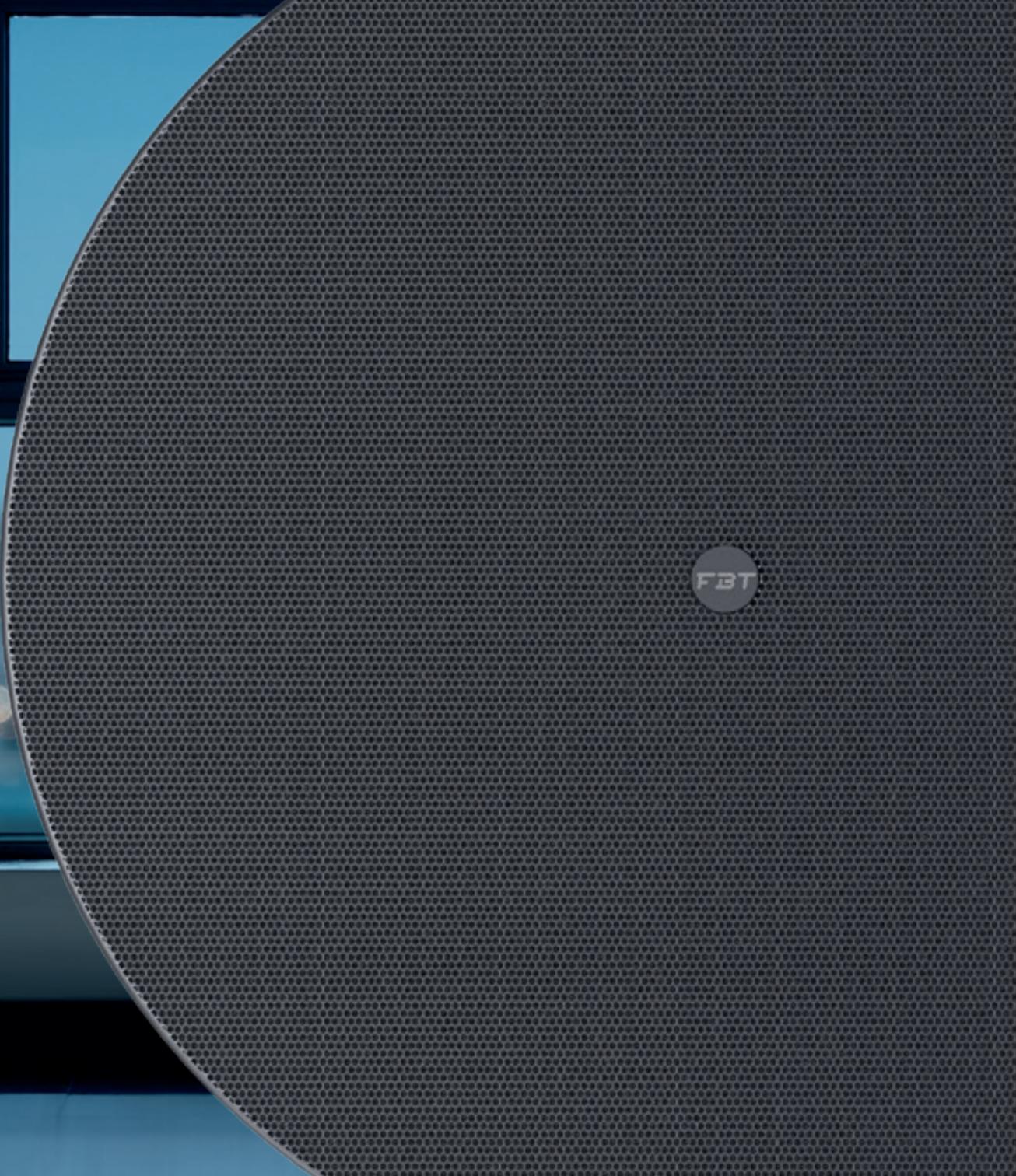
_Acoustical Modelling

Carrying out 2D/3D models of the venue, performing electro-acoustic simulation using EASE software packages and others, providing technical and acoustical reports.

_Training

Technical training programs on audio, acoustics and standards.

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KEIRON

Our extensive experience in the installation market has led to the creation of a new line of passive coaxial point source, the KEIRON series. It combines powerful mechanics and acoustics with aesthetic appeal, providing professional performance while boasting an elegant and refined design.

Built in wooden cabinets (HDF) with scratch-resistant paint finish, the KEIRON series is equipped with the finest professional high-end components housed in clean and discreetly designed enclosures. Each of the four models has its dedicated hardware to meet user friendly handling as well as aesthetic elegance. System connection is through a 4-pole Euroblock "in & thru" ensuring hassle-free installation process.

The KEIRON series offers an excellent solution for uniform sound distribution where intimacy low volume or high sound pressure are expected.

KEIRON can be integrated easily into any space. This series delivers unprecedented sound quality without compromising expectations, from small lounges to large halls requiring dynamics and intelligibility.

KEY FEATURES

- Uniform sound distribution
- Flexible installation features
- Custom finishes on request
- Euroblock in & thru connector
- Elegant magnetic front frame with fabric
- Ideal match with KEIRON 8S subwoofer

The ARCHITECTURAL series



KEIRON 8C

Code (Black / White)		45384 / 46174
Configuration	way	2 coax
LF transducer	inch	8 - 2 vc
HF transducer	inch	1 - 1,4 vc
Recommended Amplifier	W	250
Rated Long Term Power (IEC)	W	125
Rated Short Term Power (IEC)	W	500
Rated impedance	Ohm	8
Frequency response (@-6dB)	Hz	60 - 20.000
Sensitivity (@1W/1m)	dB	96
Max SPL (cont/peak)	dB	120 / 125
Nominal dispersion	H° x V°	80 conical
Materials		Wood / Fabric
Dimensions (WxHxD)	mm	260 x 400 x 226
	inch	10,23 x 16,14 x 8,89
Net weight	Kg	7,6
	Lb	16,8

KEIRON 5C

Code (Black / White)		45383 / 46173
Configuration	way	2 coax
LF transducer	inch	5 - 1,5 vc
HF transducer	inch	1 - 1 vc
Recommended Amplifier	W	120
Rated Long Term Power (IEC)	W	60
Rated Short Term Power (IEC)	W	240
Rated impedance	Ohm	16
Frequency response (@-6dB)	Hz	80 - 20.000
Sensitivity (@1W/1m)	dB	93
Max SPL (cont/peak)	dB	114 / 117
Nominal dispersion	H° x V°	90 conical
Materials		Wood / Fabric
Dimensions (WxHxD)	mm	164 x 270 x 165
	inch	6,45 x 10,62 x 6,49
Net weight	Kg	3,4
	Lb	7,5



KEIRON 4C

- Compact cubic shape 2-way coaxial system
- Ultimate clarity, detail and coverage in short-throw applications
- Smoother and consistent off-axis frequency response
- Extended application range by using subwoofer options
- Wide range of mounting options from ceiling to bookshelve

Code (Black / White)		45382 / 46172
Configuration	way	2 coax
LF transducer	inch	4 - 1,5 vc
HF transducer	inch	1 - 1 vc
Recommended Amplifier	W	100
Rated Long Term Power (IEC)	W	50
Rated Short Term Power (IEC)	W	200
Rated impedance	Ohm	16
Frequency response (@-6dB)	Hz	100 - 20.000
Sensitivity (@1W/1m)	dB	91
Max SPL (cont/peak)	dB	111 / 114
Nominal dispersion	H° x V°	90 conical
Materials		Wood / Fabric
Dimensions	mm	132 x 132 x 132
	inch	5,19 x 2,19 x 5,19
Weight	Kg	2,6
	Lb	5,7

Related accessories



WM-68

Code (Black / White): 44856 / 44865
Wall metal bracket for Keiron 8C



WM-45

Code (Black / White): 44855 / 44864
Wall metal bracket for Keiron 4C/5C



A **TOUCH**
of **ELEGANCE**

PROJECT

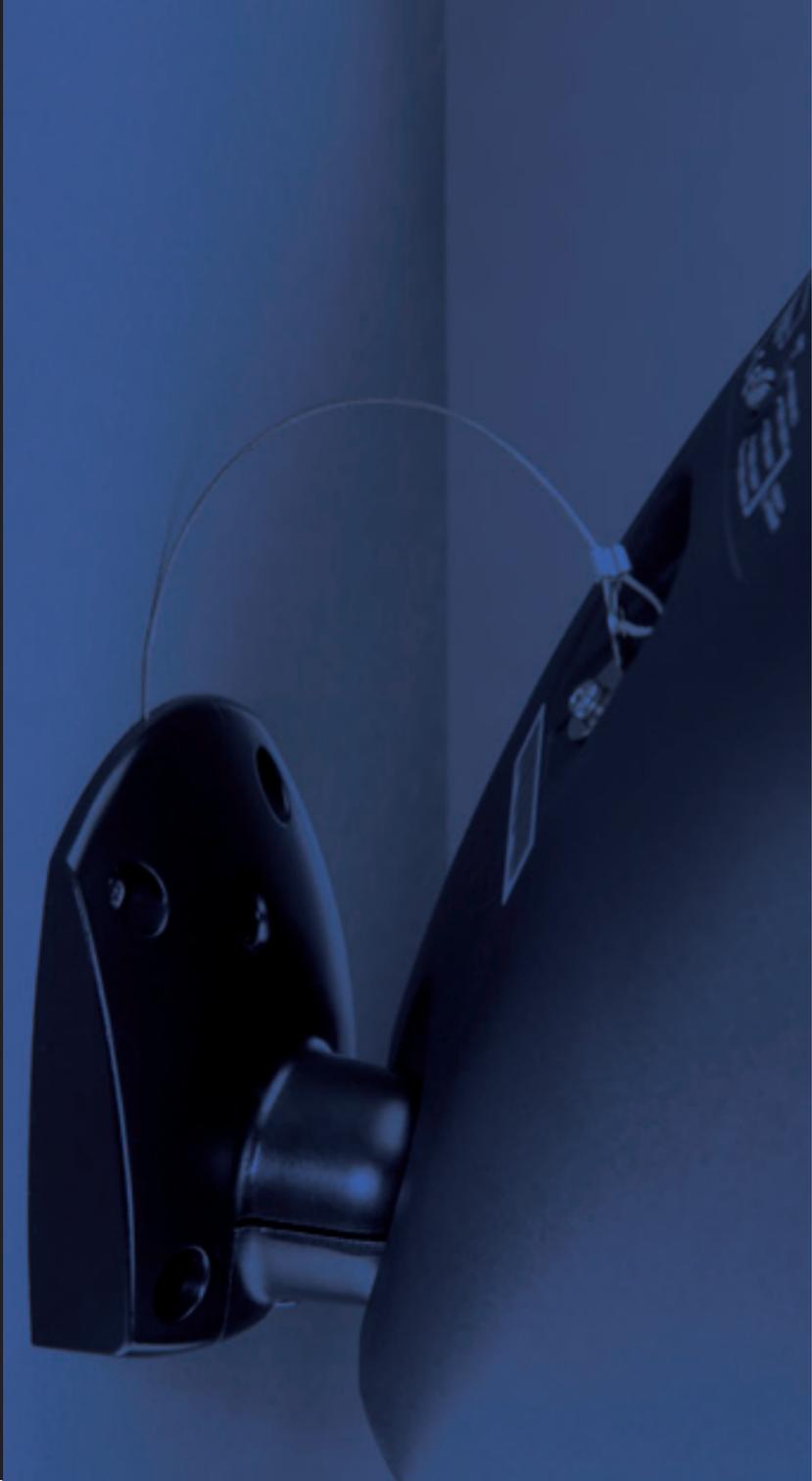
Featured by an exclusive and compact design, the PROJECT series is the ideal solution for any type of installation that requires clear and clean sound suitable for **vocal and background music applications**.

PROJECT speakers incorporate an exclusive fully adjustable wall bracket for **easy and user friendly installation**.

All models are made of ABS with a metal front grill. The PROJECT range is composed of 6 models equipped with a compact 2-way system from 3,5" to 6,5" and from 15W to 60W.

KEY FEATURES

- User friendly and cost effective installation
- 2-Pin euroblock input connector
- Bass-reflex enclosure design
- Low Frequencies extension by PROJECT 1020SA
- 70V/100V multitap line transformer or 8 Ohm
- Screwdriver-adjustable tap settings



PROJECT 600 SERIES

		660	640
Code (Black / White)		29229 / 32371	29227 / 32370
Configuration	Way	2	2
LF Transducer	inch	6,5	6,5
HF Transducer	inch	1	1
Recommended Amplifier	W	120	80
Rated Long Term Power (IEC)	W	60	40
Rated Short Term Power (IEC)	W	240	160
Rated Impedance	Ohm	8	8
Transformer Taps	W	60 / 45 / 30 / 15	40 / 30 / 20 / 10
Frequency Response (@-10dB)	Hz	70 - 20.000	70 - 20.000
Sensitivity (@1W/1m)	dB	90	89
Max SPL (cont/peak)	dB	111 / 114	108 / 111
Nominal Dispersion	H° x V°	90 x 90	90 x 90
Materials		ABS / Metal	ABS / Metal
Dimensions (WxHxD)	mm	218 x 312 x 219	218 x 312 x 219
	inch	8,58 x 12,29 x 8,62	8,58 x 12,29 x 8,62
Net Weight	Kg	3,7	3,7
	Lb	8	8



PROJECT 500 SERIES

		550	530
Code (Black / White)		29225 / 32369	29223 / 32368
Configuration	Way	2	2
LF Transducer	inch	5	5
HF Transducer	inch	0,75	0,75
Recommended Amplifier	W	100	60
Rated Long Term Power (IEC)	W	50	30
Rated Short Term Power (IEC)	W	200	120
Rated Impedance	Ohm	8	8
Transformer Taps	W	50 / 40 / 25 / 15	30 / 20 / 15 / 10
Frequency Response (@-10dB)	Hz	80 - 20.000	85 - 20.000
Sensitivity (@1W/1m)	dB	89	87,5
Max SPL (cont/peak)	dB	109 / 112	106 / 109
Nominal Dispersion	H° x V°	100 x 100	100 x 100
Materials		ABS / Metal	ABS / Metal
Dimensions (WxHxD)	mm	168 x 240 x 180	168 x 240 x 180
	inch	6,61 x 9,44 x 7,08	6,61 x 9,44 x 7,08
Net Weight	Kg	2,3	2,3
	Lb	5	5



PROJECT 300 SERIES

		320	315
Code (Black / White)		29221 / 32367	29350 / 32372
Configuration	Way	2	2
LF Transducer	inch	3,5	3,5
HF Transducer	inch	0,5	0,5
Recommended Amplifier	W	40	30
Rated Long Term Power (IEC)	W	20	15
Rated Short Term Power (IEC)	W	80	60
Rated Impedance	Ohm	8	8
Transformer Taps	W	20 / 15 / 8 / 4	15 / 7,5 / 4 / 2
Frequency Response (@-10dB)	Hz	100 - 20.000	100 - 15.000
Sensitivity (@1W/1m)	dB	87	85
Max SPL (cont/peak)	dB	103 / 106	100 / 103
Nominal Dispersion	H° x V°	120 x 120	120 x 120
Materials		ABS / Metal	ABS / Metal
Dimensions (WxHxD)	mm	143 x 204 x 162	143 x 204 x 162
	inch	5,62 x 8,03 x 6,37	5,62 x 8,03 x 6,37
Net Weight	Kg	1,5	1,5
	Lb	3,3	3,3

VERTUS DLA

Built in aluminium cabinets, the VERTUS DLA series is a **digitally steerable** self powered line array.

Available in two different models, **DLA 1244A** composed of 12 x 4" woofers and 4 x 1" neodymium dome tweeter, and **DLA 804A** composed of 8 x 4" full range woofers, these speakers are the perfect solution to many problems related to **reverberant environments**.

VERTUS DLA are modular elements that can be combined to form very directive long columns array. Their digital steering technology allows to control directivity, associating delays and filters, also keeping minimum overall volume with the possibility of installing the array to the wall.

With their **extended frequency response** they can be recommended for both voice and music reproduction. It is also possible to extend performance further at lower frequencies by connecting a self-powered sub to the dedicated Euroblock connector.

The wide range of controls makes DLA speakers **very easy to be configured** either by on-board control panel or by dedicated PC software with FBT USB-RS485 converter.

KEY FEATURES

- Improves speech intelligibility in challenging acoustics
- Digital steerable vertical beam angle and coverage
- Easy to set-up even without PC
- High directivity to reverberant ratio
- On-board powerful multichannel amplifier



VERTUS DLA 1244A

Code		36187
Configuration	Way	16 Active
LF Transducer	inch	12 x 4 - 1 vc
HF Transducer	inch	4 x 1 - 1 vc
Built-in Amplifier (cont)	W	16 x 40
Built-in Amplifier (max)	W	16 x 50
Built-in Amplifier (peak)	W	16 x 100
Input Impedance	Ohm	22.000
Transformer Taps	W	---
Frequency Response (@-6dB)	Hz	100 - 20.000
Sensitivity (@1W/1m)	dB	---
Max SPL (cont/peak)	dB	123 / 126
Nominal Dispersion	H° x V°	100 x Digitally controlled
Materials		Aluminium
Dimensions (WxHxD)	mm	130 x 1695 x 131
	inch	5,11 x 66,73 x 5,15
Net Weight	Kg	22
	Lb	48,5



VERTUS DLA 804A

Code		36186
Configuration	Way	8 Active
LF Transducer	inch	8 x 4 neo - 1 vc
HF Transducer	inch	---
Built-in Amplifier (cont)	W	8 x 40
Built-in Amplifier (max)	W	8 x 50
Built-in Amplifier (peak)	W	8 x 100
Input Impedance	Ohm	22.000
Transformer Taps	W	---
Frequency Response (@-6dB)	Hz	120 - 20.000
Sensitivity (@1W/1m)	dB	---
Max SPL (cont/peak)	dB	120 / 123
Nominal Dispersion	H° x V°	100 x Digitally controlled
Materials		Aluminium
Dimensions (WxHxD)	mm	130 x 964 x 131
	inch	5,11 x 37,95 x 5,15
Net Weight	Kg	13
	Lb	26,66

Related accessories



VT-J DLA
Code: 38381
Safety flange for VERTUS DLA



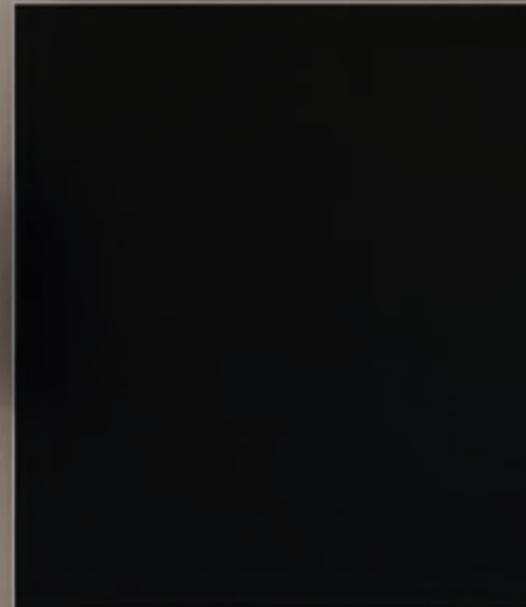
VT-W604
Code (Black / White): 35722 / 37043
Directional wall mount for CLA 604

VERTUS CLA

The VERTUS CLA series incorporates professional line array technology in extremely compact and elegant speaker columns.

The 4" VERTUS CLA 604 and CLA 204T share the same extruded aluminium cabinet, woofers and tweeters. The **CLA 604** is a true professional line array system equipped with 6 x 4" custom woofers with 25mm voice coil combined to 4 x 1" **neodymium** dome tweeter on waveguide. It is dedicated to all those demanding applications where acoustical intelligibility is required in particularly challenging installations. The **CLA 204T** point source delivers the same quality through a smaller cabinet with minimal design, which makes it easily adaptable in every environment with architectural features.

Suited for both indoor and IP55 outdoor applications, the 3" VERTUS CLA product range offers powerful new features when facing extreme conditions. The **CLA 803T**, **CLA 403T** line array and the compact 2-way **CLA 203T** point source models share the same sleek, lightweight and durable powder-coated aluminium housing. Completely **dustproof** and **weatherproof** also thanks to the **hydrophobic fabric** combined to the front grille. This range of speakers shows **high flexibility** on many heterogeneous venues thanks to the integrated passive directivity control system. Mechanical accessories allow them to be installed in different configurations, individually (on wall) or stack (in a flying array).



VERTUS CLA 204T

- High level of sound definition
- Compact and paintable aluminium cabinet
- Makes great sound experience combined with KEIRON 8S
- EN 54-24

Code (Black / White)		45502 / 45501
Configuration	Way	2
LF Transducer	inch	4 - 1 vc
HF Transducer	inch	1 - 1 vc
Recommended Amplifier	W	80
Rated Long Term Power (IEC)	W	40
Rated Short Term Power (IEC)	W	160
Rated Impedance	Ohm	8
Transformer Taps	W	30 / 20 / 10 / 5 / Bypass
Frequency Response (@-6dB)	Hz	130 - 20.000
Sensitivity (@1W/1m)	dB	88
Max SPL (cont/peak)	dB	103 / 110
Nominal Dispersion	H° x V°	120 x 130
Materials		Aluminium
Dimensions (WxHxD)	mm	130 x 312 x 130
	inch	5,11 x 12,28 x 5,11
Net Weight	Kg	3,4
	Lb	7,49



VERTUS CLA 604

- Narrow sound dispersion along vertical axis
- Suitable for mid-throw applications
- 2-way high performance column speaker design
- Also available in black color
- EN 54-24

Code		36145
Configuration	Way	2
LF Transducer	inch	6 x 4 - 1 vc
HF Transducer	inch	4 x 1 - 1 vc
Recommended Amplifier	W	250
Rated Long Term Power (IEC)	W	100
Rated Short Term Power (IEC)	W	500
Rated Impedance	Ohm	8
Transformer Taps	W	100 / 50 / Bypass
Frequency Response (@-6dB)	Hz	140 - 20.000
Sensitivity (@1W/1m)	dB	91
Max SPL (cont/peak)	dB	110 / 118
Nominal Dispersion	H° x V°	100 x 15
Materials		Aluminium
Dimensions (WxHxD)	mm	130 x 849 x 133
	inch	5,11 x 33,42 x 5,33
Net Weight	Kg	10,5
	Lb	23,14

Related accessories



VT-W604

Code (Black / White): 35722 / 37043
Directional wall mount for CLA 604



VT-WH3

Code: (Black / White): 45782 / 45783
Directional wall mount for CLA 203T / 204T



VT-J 604

Code: 41777
Safety flange for VERTUS CLA

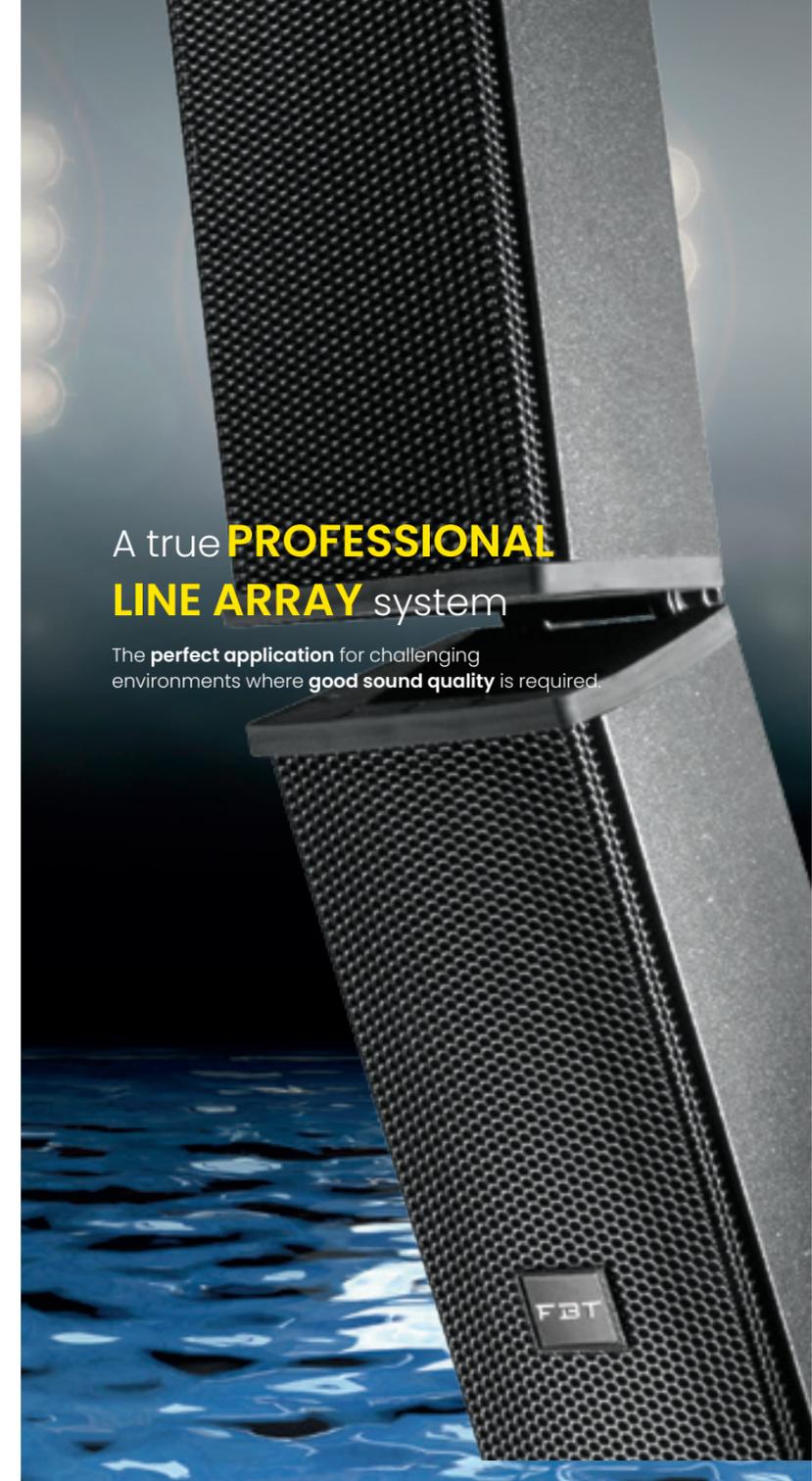


VERTUS CLA 803T

- Low profile enclosure and custom colors blend into any environment
- Sound proximity to audience
- Flexible arrayable configuration with CLA 803T and CLA 403T
- Ideal matching with CLA 112S subwoofer for background or foreground music application
- EN 54-24 / IP55

Code (Black / White)		41806 / 41823
Configuration	Way	1
Fullrange Transducer	inch	8 x 3 - 0,75 vc
Recommended Amplifier	W	200
Rated Long Term Power (IEC)	W	100
Rated Short Term Power (IEC)	W	400
Rated Impedance	Ohm	8
Transformer Taps	W	50 / 100
Frequency Response (@-6dB)	Hz	150 - 20.000
Sensitivity (@1W/1m)	dB	94
Max SPL (cont/peak)	dB	112 / 121
Nominal Dispersion	H° x V°	125 x 18 narrow mode 125 x 26 wide mode
Materials		Aluminium
Dimensions (WxHxD)	mm	100 x 704 x 125
	inch	3,93 x 27,71 x 4,92
Net Weight	Kg	5,5
	Lb	12,1

Related accessories



A true **PROFESSIONAL LINE ARRAY** system

The **perfect application** for challenging environments where **good sound quality** is required.

VERTUS CLA 403T

- Low profile enclosure and custom colors blend into any environment
- Sound proximity to audience
- Flexible arrayable configuration with CLA 803T and CLA 403T
- Ideal matching with CLA 112S subwoofer for background or foreground music application
- EN 54-24 / IP55

Code (Black / White)		41807 / 41824
Configuration	Way	1
Fullrange Transducer	inch	4 x 3 - 0,75 vc
Recommended Amplifier	W	120
Rated Long Term Power (IEC)	W	60
Rated Short Term Power (IEC)	W	240
Rated Impedance	Ohm	16
Transformer Taps	W	25 / 50
Frequency Response (@-6dB)	Hz	150 - 20.000
Sensitivity (@1W/1m)	dB	91
Max SPL (cont/peak)	dB	106 / 115
Nominal Dispersion	H° x V°	125 x 28 narrow mode 125 x 36 wide mode
Materials		Aluminium
Dimensions(WxHxD)	mm	100 x 368 x 125
	inch	3,93 x 14,48 x 4,92
Net Weight	Kg	3
	Lb	6,6



Related accessories



VERTUS CLA 203T

- 2-way ultra compact version of CLA speaker range
- Bright sound reproduction
- Very compact and extruded aluminium housing
- Ideal matching with KEIRON 8S or CLA 112S subwoofers for background or foreground music application
- EN 54-24 / IP55

Code (Black / White)		45510 / 45351
Configuration	Way	2
LF Transducer	inch	2 x 3 - 0,75 vc
HF Transducer	inch	1 - 1 vc
Recommended Amplifier	W	60
Rated Long Term Power (IEC)	W	30
Rated Short Term Power (IEC)	W	120
Rated Impedance	Ohm	8
Transformer Taps	W	5 / 10 / 20 / 30
Frequency Response (@-6dB)	Hz	160 - 20.000
Sensitivity (@1W/1m)	dB	87
Max SPL (cont/peak)	dB	101 / 108
Nominal Dispersion	H° x V°	120 x 110
Materials		Aluminium
Dimensions (WxHxD)	mm	100 x 249 x 105
	inch	3,93 x 9,80 x 4,13
Net Weight	Kg	1,5
	Lb	3,3



CS SERIES

CS Series has the purpose to offer a **cost-effective solution** without compromising quality. Designed with a **robust aluminum cabinet**, this column line array series not only enhances durability but also boasts a **minimal** visual impact.

"L-brackets" mounting system makes these speakers **easy** and **fast** to be **installed** saving time and effort.

KEY FEATURES

- Easy installation
- Robust extruded aluminium housing
- Minimal visual impact
- High efficiency for voice application

SLIM columns
that fit **EVERYWHERE**

CS 3180T

Code		37924
Configuration	Way	2
LF Transducer	inch	14 x 2 - 1 vc
HF Transducer	inch	1 - 1 vc
Recommended Amplifier	W	160
Rated Long Term Power (IEC)	W	80
Rated Short Term Power (IEC)	W	320
Rated Impedance	Ohm	28
Transformer Taps	W	80 / 40 / 20 / Bypass
Frequency Response (@-10dB)	Hz	200 - 15.000
Sensitivity (@1W/1m)	dB	91
Max SPL (cont/peak)	dB	113 / 116
Nominal Dispersion	H° x V°	150 x 20
Materials		Aluminium
Dimensions (WxHxD)	mm	74,5 x 1018 x 69
	inch	2,93 x 40,07 x 2,7
Net Weight	Kg	4,4
	Lb	9,7

CS 3150T

Code		37923
Configuration	Way	2
LF Transducer	inch	10 x 2 - 1 vc
HF Transducer	inch	1 - 1 vc
Recommended Amplifier	W	100
Rated Long Term Power (IEC)	W	50
Rated Short Term Power (IEC)	W	200
Rated Impedance	Ohm	20
Transformer Taps	W	50 / 25 / 12,5 / Bypass
Frequency Response (@-10dB)	Hz	200 - 15.000
Sensitivity (@1W/1m)	dB	91
Max SPL (cont/peak)	dB	111 / 114
Nominal Dispersion	H° x V°	150 x 30
Materials		Aluminium
Dimensions (WxHxD)	mm	74,5 x 802 x 69
	inch	2,93 x 31,57 x 2,7
Net Weight	Kg	3,5
	Lb	7,72

CS 3130T

Code		37922
Configuration	Way	2
LF Transducer	inch	4 x 2 - 1 vc
HF Transducer	inch	1 - 1 vc
Recommended Amplifier	W	60
Rated Long Term Power (IEC)	W	30
Rated Short Term Power (IEC)	W	120
Rated Impedance	Ohm	8
Transformer Taps	W	30 / 15 / 7,5 / Bypass
Frequency Response (@-10dB)	Hz	180 - 18.000
Sensitivity (@1W/1m)	dB	91
Max SPL (cont/peak)	dB	109 / 112
Nominal Dispersion	H° x V°	150 x 40
Materials		Aluminium
Dimensions (WxHxD)	mm	74,5 x 405 x 69
	inch	2,93 x 15,94 x 2,7
Net Weight	Kg	1,7
	Lb	3,7

LIBRA 5CT

The new **LIBRA 5CT** pendant speaker has been engineered specifically for high or open-ceiling spaces such as airports, malls, retails, restaurants and more. Its elegant design houses a 5" 2-way **coaxial transducer** in a ported **high-quality polypropylene enclosure**.

LIBRA 5CT provides a natural sound feeling, perfect for both speech and music applications. The rear cover can be placed after the installation and hides the connection and suspension on the speaker end.



When **FORM** meets
FUNCTIONALITY



LIBRA 5CT

- Natural sound feeling reproduction
- Compact and light-weight enclosure
- 2-way loudspeaker design
- 70V/100V multitap line transformer or 16 ohm
- Bass-reflex enclosure
- Ideal match with LIBRA 8S subwoofer
- EN 54-24

Code (Black / White)		45511 / 45483
Configuration	Way	2 coax
LF Transducer	inch	5
HF Transducer	inch	1
Recommended Amplifier	W	120
Rated Long Term Power (IEC)	W	60
Rated Short Term Power (IEC)	W	240
Rated Impedance	Ohm	16
Transformer Taps	W	64 / 32 / 16 / 10 / Bypass
Frequency Response (@-6dB)	Hz	80 - 20.000
Sensitivity (@1W/1m)	dB	86
Max SPL (cont/peak)	dB	104 / 110
Nominal Dispersion	H° x V°	85 conical
Materials		ABS / Metal
Dimensions (WxHxD)	mm	Ø215 x 275
	inch	Ø8,46 x 10,82
Net Weight	Kg	3,9
	Lb	8,6

ELYSION

Specifically designed for applications that demand top-notch music reproduction, clear speech intelligibility and a sleek design that seamlessly blends into any environment. ELYSION 4CT is a 4" 2-way speaker with a shallow cabinet for **easy installation in most false ceilings**. ELYSION 6CT is a 6,5" 2-way speaker that guarantees increased power output.

Even if in different material and dimensions, the models share the same concept on the cabinet design: **magnetic paintable front grille**, springlock mounting clamps safety hook, front power switch. Both models are equipped with **line transformer for Hi-Z application** and a 5 pin ceramic terminal block with thermal fuse that allows to link other speakers directly onboard.

All models are available in black or white front grille standard colors, also allowing for **customization** to suit any decoration.

Whether you are looking to upgrade your home audio system, enhance your office's sound quality, or create an immersive entertainment space, ELYSION's in-ceiling speakers are the perfect solution. Experience **high quality sound** with **deep bass** like never before, without compromising on style or integration.

KEY FEATURES

- Clear and warm low-frequencies reproduction
- Bass-reflex enclosure
- Fast installation with springlock mounting clamps
- Paintable magnetic front grille
- Ideal match with ELYSION 8S subwoofer
- EN 54-24



ELYSION 6CT

Code (Black / White)		47328 / 47329
Configuration	Way	2
LF Transducer	inch	6,5
HF Transducer	inch	0,75
Recommended Amplifier	W	120
Rated Long Term Power (IEC)	W	60
Rated Short Term Power (IEC)	W	240
Rated Impedance	Ohm	16
Transformer Taps (@100V)	W	60 / 30 / 15 / 7,5 / Bypass
Frequency Response (@-6dB)	Hz	62 - 20.000
Sensitivity (@1W/1m)	dB	87
Max SPL (cont/peak)	dB	111 / 114
Nominal Dispersion	H° x V°	100 conical
Materials		ABS / Steel
Dimensions (WxHxD)	mm inch	Ø323 x 202 Ø12,7 x 7,9
Net Weight	Kg Lb	6,5 14,3



ELYSION 4CT

Code (Black / White)		47330 / 47331
Configuration	Way	2
LF Transducer	inch	4
HF Transducer	inch	0,75
Recommended Amplifier	W	60
Rated Long Term Power (IEC)	W	30
Rated Short Term Power (IEC)	W	120
Rated Impedance	Ohm	16
Transformer Taps (@100V)	W	30 / 15 / 7,5 / Bypass
Frequency Response (@-6dB)	Hz	70 - 20.000
Sensitivity (@1W/1m)	dB	87
Max SPL (cont/peak)	dB	104 / 107
Nominal Dispersion	H° x V°	120 conical
Materials		ABS / Steel
Dimensions (WxHxD)	mm inch	Ø323 x 98 Ø12,7 x 3,8
Net Weight	Kg Lb	3 6,6

CSL SERIES

CSL series provides reliable and cost effective in-ceiling solutions for background music and accurate speech reproduction.

Different models meet different requirements in terms of: mechanical size, backcan presence, full-range 2-way electro-acoustic configuration, **waterproof protection degree** and materials (metal and/or sturdy ABS).

KEY FEATURES

- 2-way loudspeaker configuration
- Clear voice reproduction
- Metal backcan
- Dogears mounting system
- 70V/100V multitap line transformer or 8 ohm
- Spring clip input connector



CSL 840TIC

Code		29418
Configuration	Way	2
LF Transducer	inch	8
HF Transducer	inch	0,5
Recommended Amplifier	W	80
Rated Long Term Power (IEC)	W	40
Rated Short Term Power (IEC)	W	160
Rated Impedance	Ohm	8
Transformer Taps	W	40 / 20 / 10 / 5 / Bypass
Frequency Response (@-6dB)	Hz	90 - 20.000
Sensitivity (@1W/1m)	dB	88
Max SPL (cont/peak)	dB	107 / 110
Nominal Dispersion	H° x V°	90 conical
Materials		ABS / Metal
Dimension (WxHxD)	mm	Ø270 x 185
	inch	Ø10,62 x 7,28
Net Weight	Kg	2,92
	Lb	6,44



CSL 630TIC

Code		29417
Configuration	Way	2
LF Transducer	inch	6
HF Transducer	inch	0,5
Recommended Amplifier	W	60
Rated Long Term Power (IEC)	W	30
Rated Short Term Power (IEC)	W	120
Rated Impedance	Ohm	8
Transformer Taps	W	30 / 15 / 7,5 / 3,8
Frequency Response (@-6dB)	Hz	120 - 20.000
Sensitivity (@1W/1m)	dB	88
Max SPL (cont/peak)	dB	106 / 109
Nominal Dispersion	H° x V°	90 conical
Materials		ABS / Metal
Dimensions (WxHxD)	mm	Ø230 x 150
	inch	Ø9,05 x 5,90
Net Weight	Kg	2,16
	Lb	4,76



CSL 520TIC

Code		29416
Configuration	Way	2
LF Transducer	inch	5
HF Transducer	inch	0,5
Recommended Amplifier	W	40
Rated Long Term Power (IEC)	W	20
Rated Short Term Power (IEC)	W	80
Rated Impedance	Ohm	8
Transformer Taps	W	20 / 10 / 5 / 2,5 / Bypass
Frequency Response (@-6dB)	Hz	120 - 20.000
Sensitivity (@1W/1m)	dB	88
Max SPL (cont/peak)	dB	104 / 107
Nominal Dispersion	H° x V°	90 conical
Materials		ABS / Metal
Dimensions (WxHxD)	mm	Ø203 x 145
	inch	Ø7,99 x 5,70
Net Weight	Kg	1,68
	Lb	3,7



CSL 106T

- Ultra depthless enclosure design
- Cost-effective solution for public spaces
- Lightweight cabinet
- Spring clamps mounting system

Code		29427
Configuration	Way	1
Fullrange Transducer	inch	5
Recommended Amplifier	W	---
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Rated Impedance	Ohm	---
Transformer Taps	W @100V	6 / 3
Frequency Response (@-6dB)	Hz	100 - 15.000
Sensitivity (@1W/1m)	dB	93
Max SPL (cont/peak)	dB	101 / 104
Nominal Dispersion	H° x V°	90 conical
Materials		ABS / Metal
Dimensions (WxHxD)	mm inch	Ø175 x 60 Ø2,36 x 6,88
Net Weight	Kg Lb	0,5 1,10



CSL 606TWP

- 2-way loudspeaker configuration
- Pleasant music reproduction
- Suitable for damp environments
- Screw fixing system

Cod		29428
Configuration	Way	2
LF Transducer	inch	5
HF Transducer	inch	1
Recommended Amplifier	W	---
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Rated Impedance	Ohm	---
Transformer Taps	W	20
Frequency Response (@-6dB)	Hz	95 - 20.000
Sensitivity (@1W/1m)	dB	90
Max SPL (cont/peak)	dB	103 / 106
Nominal Dispersion	H° x V°	90 conical
Materials		ABS
Dimensions (WxHxD)	mm inch	Ø167 x 115 Ø6,57 x 4,52
Net Weight	Kg Lb	0,7 1,54

MCSL SERIES

The in-ceiling MCSL series comprises two models that house 2,5" and 4" full-range loudspeakers. The general purpose applications are **back-ground music** and **paging**. The TWP model is particularly suitable for bathrooms and other **high humidity areas**.

The MCSL series is characterized by an ultra-compact design united with a fine perforated grill make the speaker aesthetically pleasing.

In addition, the MCSL range is designed to be user-friendly, with an **easy installation process** that uses spring mechanism.



MCSL 006TWP

- Ultra-compact design
- Waterproof enclosure
- Powder coated iron front grill
- Spring clamps mounting system

Code		29426
Configuration	Way	1
Fullrange Transducer	inch	4
Recommended Amplifier	W	---
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Rated Impedance	Ohm	---
Transformer Taps	W	6 / 3
Frequency Response (@-6dB)	Hz	160 - 20.000
Sensitivity (@1W/1m)	dB	91
Max SPL (cont/peak)	dB	99 / 102
Nominal Dispersion	H° x V°	100 conical
Materials		ABS / Metal
Dimensions (WxHxD)	mm inch	Ø140 x 122 Ø5,51 x 4,80
Net Weight	Kg Lb	0,88 1,94



MCSL 006TW

- Ultra-slim design
- Sleek and modern look
- Lightweight cabinet
- Spring clamps mounting system

Code		29425
Configuration	Way	1
Fullrange Transducer	inch	2,5
Recommended Amplifier	W	---
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Rated Impedance	Ohm	---
Transformer Taps	W	6 / 3
Frequency Response (@-6dB)	Hz	120 - 15.000
Sensitivity (@1W/1m)	dB	87
Max SPL (cont/peak)	dB	95 / 98
Nominal Dispersion	H° x V°	120 conical
Materials		ABS / Metal
Dimensions (WxHxD)	mm inch	Ø103 x 80 Ø4,05 x 3,14
Net Weight	Kg Lb	0,5 1,10

SHADOW

A complete range of **high-performance speakers** designed to provide great music and voice reproduction in **rough or severe weather conditions**, ensuring **long-term exposure**.

The SHADOW series is composed by three different models from 5" to 12", manufactured with top quality materials such as **PE rotomolded enclosure**, **fully UV protected** and **stainless steel hardware**.

Additionally, the **IP55 certification** makes SHADOW the right choice to handle a wide range of applications, from sport fields to swimming pools, from skiing areas to tropical beach resorts.

KEY FEATURES

- Sturdy rotomolded PP enclosure
- Water-stop grille with 3 layers of protection
- Stainless steel hardware
- IP55

IP55

All-weather SHADOW speaker range will provide long term reliability for temporary and permanent outdoor installations, as these speaker systems are manufactured applying **the most severe standard** expected from the classification of International Protection Rating IP55. Finished in a standard grey color (RAL 7011).



SHADOW 112CT

Code		36194
Configuration	Way	2 coax
LF Transducer	inch	12 - 2,5 vc
HF Transducer	inch	1 - 1,7 vc
Recommended Amplifier	W	600
Rated Long Term Power (IEC)	W	300
Rated Short Term Power (IEC)	W	1200
Rated Impedance	Ohm	8
Transformer Taps	W	100 / 200
Frequency Response (@-6dB)	Hz	70 - 20.000
Sensitivity (@1W/1m)	dB	98
Max SPL (cont/peak)	dB	124 / 128
Nominal Dispersion	H° x V°	90 x 90
Materials		PE / Stainless Steel
Dimensions (WxHxD)	mm	430 x 430 x 400
	inch	16,92 x 16,92 x 15,74
Net weight	Kg	15
	Lb	33



SHADOW 108CT

Code		36193
Configuration	Way	2 coax
LF Transducer	inch	8 - 2 vc
HF Transducer	inch	1 - 1,4 vc
Recommended Amplifier	W	450
Rated Long Term Power (IEC)	W	225
Rated Short Term Power (IEC)	W	900
Rated Impedance	Ohm	8
Transformer Taps	W	50 / 100
Frequency Response (@-6dB)	Hz	80 - 20.000
Sensitivity (@1W/1m)	dB	95
Max SPL (cont/peak)	dB	120 / 124
Nominal Dispersion	H° x V°	90 x 90
Materials		PE / Stainless Steel
Dimensions (WxHxD)	mm	285 x 285 x 250
	inch	11,22 x 11,22 x 9,84
Net weight	Kg	9
	Lb	19,8



SHADOW 105T

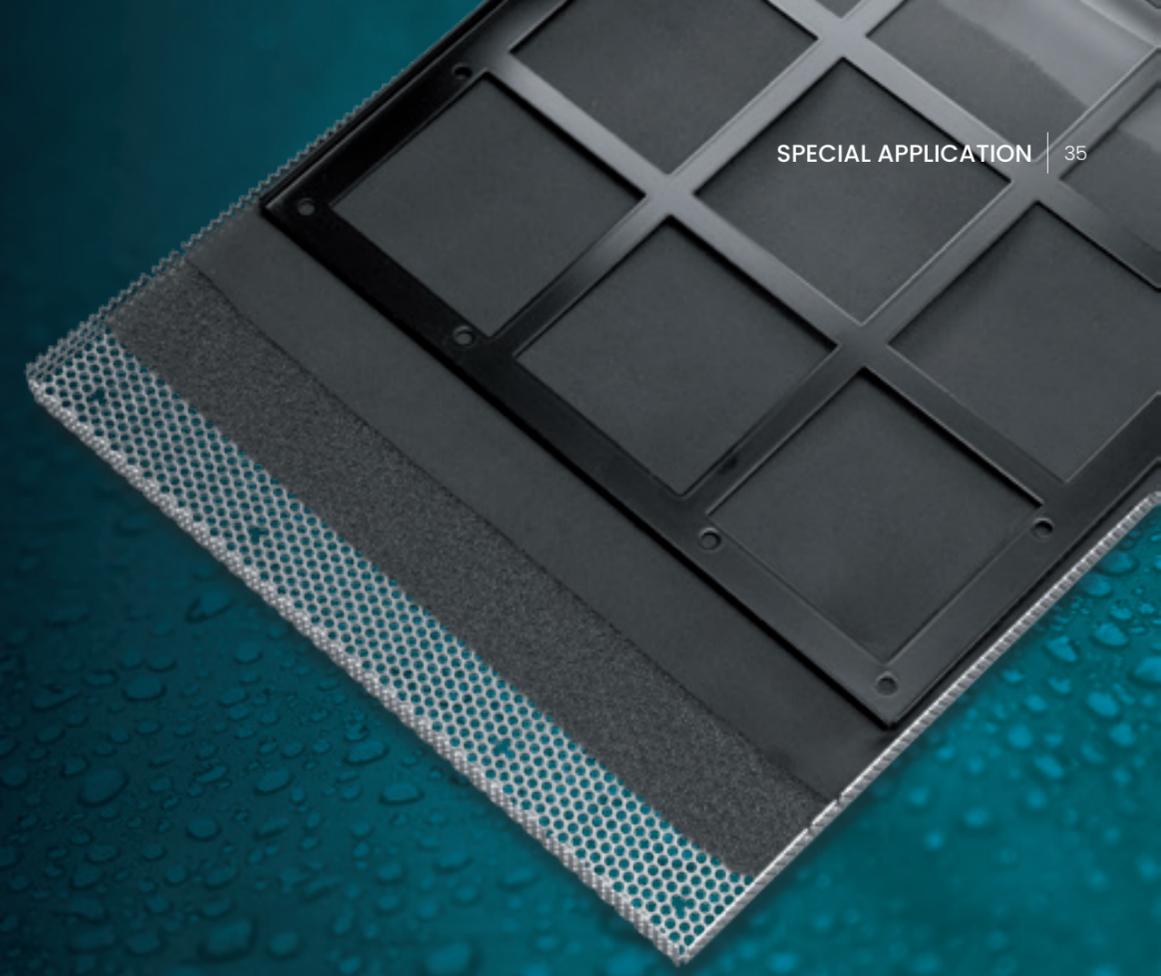
- Modern look with balanced sound reproduction
- Rugged enclosure IP55 rated
- Built-in die-cast aluminum wall bracket with ball/socket
- 7-core cable provides Hi-Z and Lo-Z power tapplings

Code		36192
Configuration	Way	2
LF Transducer	inch	5 - 1 vc
HF Transducer	inch	1 dome
Recommended Amplifier	W	120
Rated Long Term Power (IEC)	W	60
Rated Short Term Power (IEC)	W	240
Rated Impedance	Ohm	8
Transformer Taps	W	15 / 25 / 40 / 50
Frequency Response (@-6dB)	Hz	90 - 20.000
Sensitivity (@1W/1m)	dB	89
Max SPL (cont/peak)	dB	109 / 112
Nominal Dispersion	H° x V°	100 x 100
Materials		PE / Stainless Steel
Dimensions (WxHxD)	mm	168 x 222 x 165
	inch	6,61 x 8,74 x 6,14
Net weight	Kg	4,5
	Lb	9,5



WATER STOP GRILL

The exceptionally **weather resistant driver** is further protected by the **water-stop grille** that stops the elements, solid or liquid, from getting inside the enclosure. Each protective grille is a **3 layers structure** that consists of an external perforated stainless steel panel treated with special protection, a center layer of reticulated foam and an inner layer of water-repellent polyester mesh, providing maximum protection and minimal acoustical attenuation.



CIRCUITRY PROTECTION & ROTOMOLDED ENCLOSURES

The cabinet of these loudspeakers is a **single piece rotomolded enclosure**, made in polyethylene, fully UV protected equipped with a stainless steel U-Bracket for fixed installation. The **curved shape** helps to reduce acoustical reflections and standing waves within the enclosure, for improved LF performance, and in outside the rounded shape inhibits standing water.

DUNE 660

This garden speaker is designed to easily blend into any residential areas or outdoor facilities such as theme parks, hotels and resorts.

A **relaxing sound experience** is guaranteed by the **360° horizontal dispersion** pattern that this 6,5" 2 way speaker design offers.

The **downward speaker design** and the **sturdy polyethylene enclosure** will protect DUNE 660 from dust and water condensation.



DUNE 660

- Warm sound reproduction
- Waterproof
- 2-way speaker design
- 70V/100V multitap line transformer or 8 Ohm
- 360° outdoor coverage
- IP66

Code (Brown - Green)		47048 / 47049
Configuration	way	2
LF transducer	inch	6,5
HF transducer	inch	1
Recommended Amplifier	W	120
Rated Long Term Power (IEC)	W	60
Rated Short Term Power (IEC)	W	240
Rated impedance	Ohm	8
Transformer taps	W	60 -30 - 15 / Bypass
Frequency response (@-10dB)	Hz	70 - 20.000
Sensitivity (@1W/1m)	dB	79
Max SPL (cont/peak)	dB	96 / 103
Nominal dispersion	H° x V°	omni
Materials		ABS
Dimensions (WxHxD)	mm	330 x 552 x 270
	inch	12,99 x 21,73 x 10,62
Net weight	Kg	3,8
	Lb	8,38

CSP 610 TMG/EN

The constructive features and materials make this in-ceiling speaker suitable for marine applications, indoor swimming pools and **cleanroom** applications such as dust-sensitive manufacturing plants, laboratories, hospitals and testing facilities.

The flat design enclosure made in **high quality polypropylene** offers permanent protection from seawater and UV rays. The CSP is equipped with a 6,5" full-range loudspeaker.



CSP 610 TMG/EN

- Suitable for marine and cleanroom application
- Compact and lightweight enclosure
- Balanced sound reproduction
- PG9 IN/OUT entry cables connection
- 5 pin terminal connector

Code		45891
Configuration	way	1
Fullrange transducer	inch	6,5
Recommended Amplifier	W	---
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Rated impedance	Ohm	---
Transformer taps	W	10 / 6 / 3 / 1,5
Frequency response (@-6dB)	Hz	42 - 25.000
Sensitivity (@1W/1m)	dB	91
Max SPL (cont/peak)	dB	98,2 / 101,2
Nominal dispersion	H° x V°	145 conical
Materials		ABS
Dimensions (WxHxD)	mm	Ø220 x 76
	inch	Ø8,66 x 2,98
Net weight	Kg	1,2
	Lb	2,64

VERTUS CLA 112S

CLA 112S is the new **IP55 waterproof subwoofer**. The 12" long excursion driver mounted down-firing in an clean and elegant cubic shape cabinet made in aluminium, provides **deep bass** reproduction.

Not only excellent acoustic but also pleasing aesthetics.

This subwoofer blends into indoor and outdoor venues like no other as the painting finish can be customized in every RAL color.

KEY FEATURES

- Deep bass reproduction
- All-weather application
- Custom finishes on request
- Terminal strip In & Thru connector
- Ideal match with KEIRON, VERTUS CLA and SHADOW series
- IP55



VERTUS CLA 112S

Code (Black / White)		46116 / 46115
Configuration	way	1
LF transducer	inch	12 - 2,5 vc
HF transducer	inch	---
Recommended Amplifier	W	600
Rated Long Term Power (IEC)	W	300
Rated Short Term Power (IEC)	W	1200
Rated impedance	Ohm	8
Transformer taps	W	---
Frequency response (@-6dB)	Hz	40 - 300
Sensitivity (@1W/1m)	dB	96
Max SPL (cont/peak)	dB	127 / 130
Nominal dispersion	H° x V°	omni
Materials		Aluminium
Dimensions (WxDxH)	mm	400 x 410 x 400
	inch	15,74 x 16,14 x 15,74
Net weight	Kg	24
	Lb	53



LIBRA 8S

The new elegant pendant subwoofer is manufactured in **baltic birch plywood**. It can be customized in **colors** and **wood finishing**.

The 8" long excursion driver is mounted down-firing in an minimal design enclosure. LIBRA 8S features **natural and warm sound**, wide coverage in mid/low height venues and delivers excellent low frequency response for background/foreground music applications.

The suspension system keeps hardware and connections out of sight. The perfect solution for environments with difficulties to sounding from walls.

KEY FEATURES

- Natural low-frequencies reproduction
- Compact cylinder-enclosure shape
- 8" long excursion driver
- Bass-reflex enclosure
- Custom finishes on request
- Euroblock in & thru connector
- Ideal match with LIBRA 5CT pendant



LIBRA 8S

Code (Black / White)		46118 / 46117
Configuration	way	1
LF transducer	inch	8
HF transducer	inch	---
Recommended Amplifier	W	300
Rated Long Term Power (IEC)	W	150
Rated Short Term Power (IEC)	W	600
Rated impedance	Ohm	8
Transformer taps	W	---
Frequency response (@-6dB)	Hz	42 - 300
Sensitivity (@1W/1m)	dB	89
Max SPL (cont/peak)	dB	114 / 117
Nominal dispersion	H° x V°	omni
Materials		Baltic birch plywood / Steel
Dimensions (WxHxD)	mm	Ø326 x 27,4
	inch	Ø12,83 x 10,78
Net weight	Kg	6,1
	Lb	13,4



Examples of possible customizations according to availability



KEIRON 8S

Equipped with an 8" long excursion driver in a vented enclosure, 4 **removable rubber feet** for ground use, the KEIRON 8S is a compact subwoofer suitable for **floor or wall mounting** with its dedicated bracket.

Made in **baltic birch plywood** and scratch-resistant paint finish, it can be customized in different colors upon request.

With its slim and clean design, KEIRON 8S can be easily integrated in any sophisticated venue.

KEY FEATURES

- Clear and warm low-frequencies reproduction
- Bass-reflex enclosure
- Flexible installation features
- Custom finishes on request
- Euroblock in & thru connector
- Ideal match with KEIRON, VERTUS CLA and PROJECT series



KEIRON 8S

Code (Black / White)		46385 / 45175
Configuration	way	1
LF transducer	inch	8 - 1,5 vc
HF transducer	inch	---
Recommended Amplifier	W	300
Rated Long Term Power (IEC)	W	150
Rated Short Term Power (IEC)	W	600
Rated impedance	Ohm	8
Transformer taps	W	---
Frequency response (@-6dB)	Hz	42 - 300
Sensitivity (@1W/1m)	dB	89
Max SPL (cont/peak)	dB	114 / 117
Nominal dispersion	H° x V°	omni
Materials		HDF
Dimensions (WxHxD)	mm	390 x 190 x 390
	inch	15,35 x 6,06 x 15,35
Net weight	Kg	8
	Lb	17,64

Related accessories



KR-W 8S

Code: (Black / White): 45581 / 46182
Wall metal bracket for Keiron 8S



PROJECT 1020SA

PROJECT 1020SA is an extremely compact and powerful 10" active subwoofer designed to be a **plug and play** solution for any **cost effective** installation.

This subwoofer features a 150W built-in amplifier, stereo inputs/outputs with low-cut regulation and master controls which include volume, crossover and phase regulations.

KEY FEATURES

- Warm bass reproduction
- XLR stereo outputs with low-cut frequency control
- Auto-standby switch mode
- Stereo XLR/TRS balanced - Stereo RCA unbalanced inputs
- Bass-reflex enclosure
- Unobtrusive textured finish
- 100 V/240 V- 50/60 Hz switchable power input
- Ideal match with PROJECT and CSL series



PROJECT 1020SA

Code (Black / White)		44147 / 44222
Configuration	way	1
LF transducer	inch	10
HF transducer	inch	---
Built-in Amplifier	W	150
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Input impedance	Ohm	10 kOhm balanced / 20 k unbalanced
Transformer taps (@100V)	W	---
Frequency response (@-6dB)	Hz	40 - 150
Sensitivity (@1W/1m)	dB	---
Max SPL (cont/peak)	dB	110
Nominal dispersion	H° x V°	360
Materials		MDF
Dimensions (WxHxD)	mm	330 x 367 x 365
	inch	13 x 14,44 x 14,37
Net weight	Kg	16
	Lb	35

ELYSION 8ST

ELYSION 8S is an in-ceiling 8" subwoofer **designed to enhance bass performance** in different applications. The cabinet hosts a magnetic paintable front grille, a springlock mounting clamp safety hook and a front power switch.

ELYSION 8S is equipped with **line transformer for Hi-Z applications** and 5 pin ceramic terminal block with thermal fuse that allow to link other speakers directly onboard.

The standard front grille can be black or white with the possibility to customize the product in every RAL color.

KEY FEATURES

- Bass-reflex enclosure
- Fast installation with springlock mounting clamps
- Paintable front grille
- Ideal match with ELYSION series



ELYSION 8ST

Code (Black / White)		47332 / 47333
Configuration	way	1
LF transducer	inch	8
HF transducer	inch	---
Recommended Amplifier	W	200
Rated Long Term Power (IEC)	W	100
Rated Short Term Power (IEC)	W	400
Rated impedance	Ohm	8
Transformer taps (@100V)	W	60 / 30 / 15 / Bypass
Frequency response (@-6dB)	Hz	28 - 208
Sensitivity (@1W/1m)	dB	90
Max SPL (cont/peak)	dB	113 / 116
Nominal dispersion	H° x V°	360
Materials		Steel / Steel
Dimensions (WxHxD)	mm	Ø409 x 255
	inch	Ø16,1 x 10
Net weight	Kg	10
	Lb	22

SOP SERIES

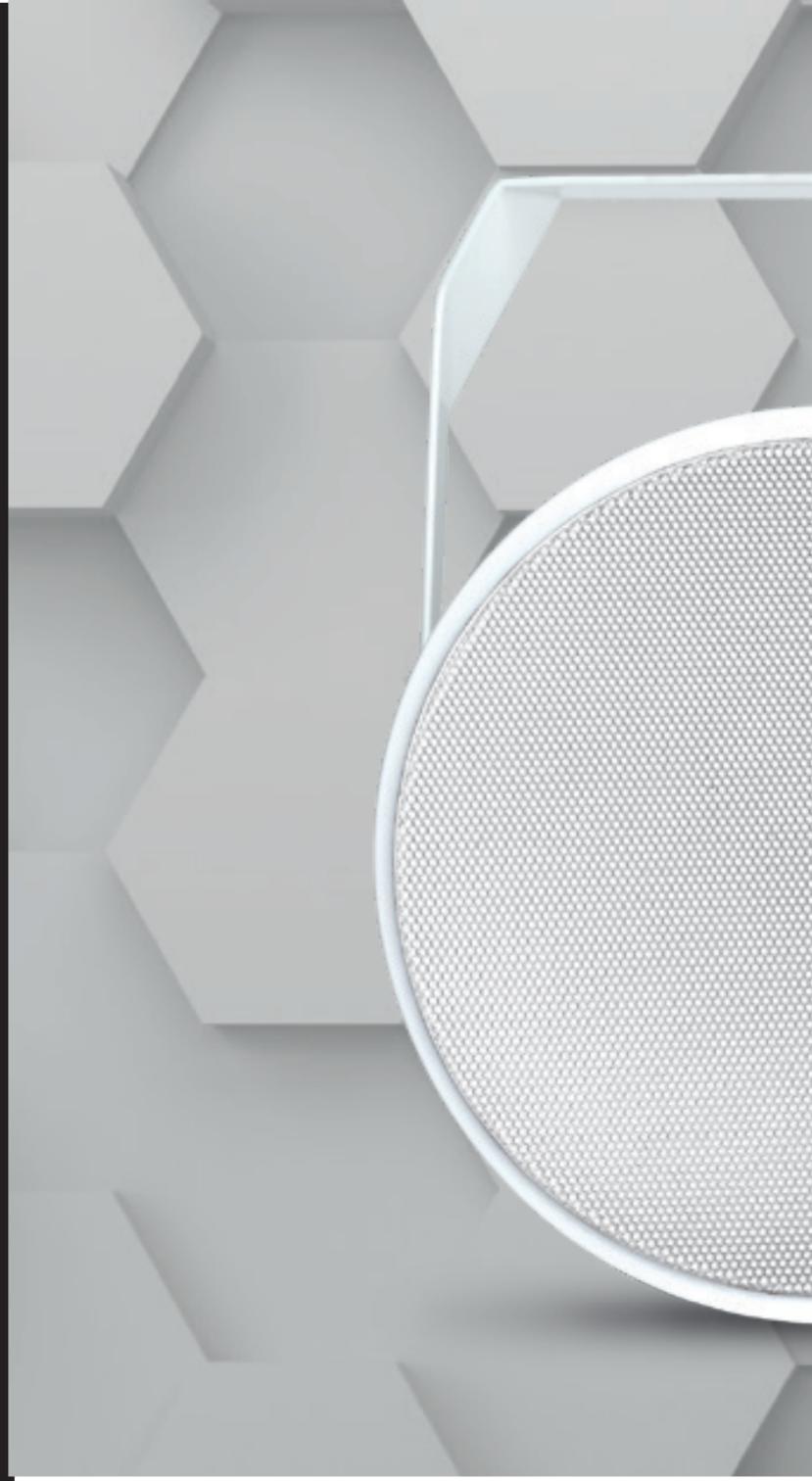
The SOP series, high efficiency sound projectors with a new 5,25" dual cone driver, is designed to provide clear speech and background music reproduction.

The discreet and elegant design is combined with a rugged construction made in **ABS** and **IP66 rating**. These sound projectors are the ideal choice for shopping centres, railway stations, parking areas, theme parks etc.

A **mono-directional** and a **bi-directional** model, both available in black or white with integrated junction box that makes wiring quick and easy.

KEY FEATURES

- IP66 junction box with in/thru connection
- Ceramic terminal block
- Elegant and modern design
- High reliability speaker design
- ABS rugged body and coated aluminium grille



SOP 522T

Code (Black / White)		47324 / 47325
Configuration	way	1
Fullrange Transducer	inch	2 x 5,25
Recommended Amplifier	W	---
Long Term Power (cont)	W	---
Short Term Power (peak)	W	---
Rated Impedance	Ohm	500 / 1000 / 2000
Transformer Taps (@100V)	W	20 / 10 / 5
Frequency Response (@-6dB)	Hz	50 - 18.000
Sensitivity (@1W/1m)	dB	90
Max SPL (cont/peak)	dB	103 / 109
Nominal Dispersion	H° x V°	2 x 90 conical
Materials		ABS / Aluminium
Dimensions (WxHxD)	mm	280 x 190 x 196
	inch	11 x 7,48 x 7,72
Net Weight	Kg	2,67
	Lb	5,89



SOP 521T

Code (Black / White)		47326 / 47327
Configuration	way	1
Fullrange Transducer	inch	5,25
Recommended Amplifier	W	---
Long Term Power (cont)	W	---
Short Term Power (peak)	W	---
Rated Impedance	Ohm	500 / 1000 / 2000
Transformer Taps (@100V)	W	20 / 10 / 5
Frequency Response (@-6dB)	Hz	50 - 18.000
Sensitivity (@1W/1m)	dB	90
Max SPL (cont/peak)	dB	103 / 109
Nominal Dispersion	H° x V°	90 conical
Materials		ABS / Aluminium
Dimensions (WxHxD)	mm	221 x 170 x 166
	inch	8,70 x 6,69 x 6,53
Net Weight	Kg	1,56
	Lb	3,44

HS SERIES

Both the two MSH50T and HS50T sound projectors feature horn design, rugged construction material, waterproof grade, high sensitivity and narrow sound dispersion overall the speech spectrum.

The 2-way MSH50T model provides **extended frequency response** suitable for music and voice applications, indoor and outdoor, such as warehouses, parkhouses and swimming pools.

The **aluminum horn speaker** of the HS50T model is renowned for both **high reliability** and superb efficiency in **speech applications**. This makes the speaker suitable for all industrial environments.



MSH 50T

- 2-way horn speaker system design
- Extended frequency response
- Stainless steel bracket
- Rugged ABS cabinet
- Waterproof termination junction box

Code		29431
Configuration	Way	2
LF Transducer	inch	6
HF Transducer	inch	1
Recommended Amplifier	W	100
Rated Long Term Power (IEC)	W	50
Rated Short Term Power (IEC)	W	200
Rated Impedance	Ohm	8
Transformer Taps	W	50 / 25 / 12,5 / 9 / 4,5 / 3,5 / Bypass
Frequency Response (@-6dB)	Hz	90 - 20.000
Sensitivity (@1W/1m)	dB	99
Max SPL (cont/peak)	dB	119 / 122
Nominal Dispersion	H° x V°	70 x 30
Materials		ABS / Steel
Dimensions (WxHxD)	mm	362 x 315 x 300
	inch	14,52 x 12,40 x 11,81
Net Weight	Kg	3,9
	Lb	8,6



HS 50T

- Aluminium horn with durable powder coating
- High reliability horn speaker design
- High SPL level
- Stainless steel bracket
- Power selection by rotary switch

Code		29422
Configuration	Way	1
Fullrange Transducer	inch	---
Recommended Amplifier	W	---
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Rated Impedance	Ohm	---
Transformer Taps	W	50 / 25
Frequency Response (@-6dB)	Hz	380 - 6.500
Sensitivity (@1W/1m)	dB	109
Max SPL (cont/peak)	dB	129 / 132
Nominal Dispersion	H° x V°	60 conical
Materials		Aluminium / Steel
Dimensions (WxHxD)	mm	Ø325 x 350
	inch	Ø12,79 x 13,77
Net Weight	Kg	2,58
	Lb	5,67

W SERIES

This surface-mounting series offers a **quick and easy installation procedure, saving time and costs.**

Their ideal application range vary from office to educational buildings where clear announcements and occasional background music is needed.

WCS 650 is equipped with a 10W 6,5" fullrange driver housed in a ABS cabinet, while **WSH 1006** is equipped with a 6W 5,5" fullrange driver housed in a ABS cabinet with powder coated iron mesh grill.



WCS 650

- On-ceiling recommended installing
- Springs clamps mounting type
- Very lightweight cabinet
- Cost effective

Code		29470
Configuration	way	1
Fullrange Transducer	inch	6,5
Recommended Amplifier	W	---
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Rated Impedance	Ohm	---
Transformer Taps	W	10 / 5 / 2,5
Frequency Response (@-6dB)	Hz	120 - 18.000
Sensitivity (@1W/1m)	dB	93
Max SPL (cont/peak)	dB	103 / 106
Nominal Dispersion	H° x V°	150 conical
Materials		ABS
Dimensions (WxHxD)	mm	Ø265 x 85
	inch	Ø10,43 x 3,34
Net Weight	Kg	1,6
	Lb	2,55



WSH 1006

- On-wall recommended installing
- Hidden screws mounting type
- High sensitivity level
- Cost effective

Code		29419
Configuration	way	1
Fullrange Transducer	inch	5,5
Recommended Amplifier	W	---
Rated Long Term Power (IEC)	W	---
Rated Short Term Power (IEC)	W	---
Rated Impedance	Ohm	---
Transformer Taps	W	6 / 3
Frequency Response (@-6dB)	Hz	150 - 15.000
Sensitivity (@1W/1m)	dB	98
Max SPL (cont/peak)	dB	106 / 109
Nominal Dispersion	H° x V°	120 conical
Materials		ABS / Metal
Dimensions (WxHxD)	mm	210 x 320 x 85
	inch	8,26 x 12,59 x 3,34
Net Weight	Kg	1,21
	Lb	2,66



POWER AMPLIFIERS

56 DIGITAL

60 ANALOG

MDA SERIES

The MDA 4000 series of power amplifiers combines a full **4x4 matrix** with DSP in a flexible **class D** power platform.

From small to medium scale installations, MDA amplifiers perfectly fit different types of multi-zone applications, either in a **stand alone** mode or in **complex centralized audio systems**.

This compact series offers three 4 channels models with a total power from 500W to 3000W in either Hi-Z or Low-Z output configuration. The MDA series can meet the requirements of every speaker system, offering a **dynamic listening experience** and a more satisfying environment.

All models offer multiple analog and digital input options, built in wireless access point, wired LAN connection and programmable control inputs that can be used for remote control.

KEY FEATURES

- Highly reliable 4-channel class D power amplifier
- Flexible Hi-Z and Lo-Z speaker outputs configuration
- In/Out S/PDIF features makes easy extend the system
- Remote control through integrated WiFi access point or ethernet port
- Intuitive browser-based user interface offers full managing features
- Speaker preset libraries allow to reduce time of system settings
- 8-pins GPIO interface adds standard remote control features
- Class-leading Energy Star® rating



MDA 4800

Code		46066
Channels		4x Lo-Z / 2x Hi-Z
Amplifier Topology		Class D
Lo-Z Output Power	W	4 x 750W - 4 Ohm
Hi-Z Output Power	W	2 x 1500W - 100V
Audio Inputs		4 x Line / 1 x SPDIF
On board sources		Noise generator
Audio Outputs		1 x SPDIF
GPIO (Control IN/OUT)		8-pins
Controls		Web Browser
Frequency Response	Hz	20 - 20.000
S/N Ratio	dB	>106
THD + N	%	<0.05
Power Supply	V	100 - 240 (50Hz - 60Hz)
Power Consumption (@230V)	W	700
Dimensions (WxHxD)	mm	220 x 44 x 320
	inch	8,66 x 1,73 x 12,59
Net Weight	Kg	7,9
	Lb	17,41



MDA 4500

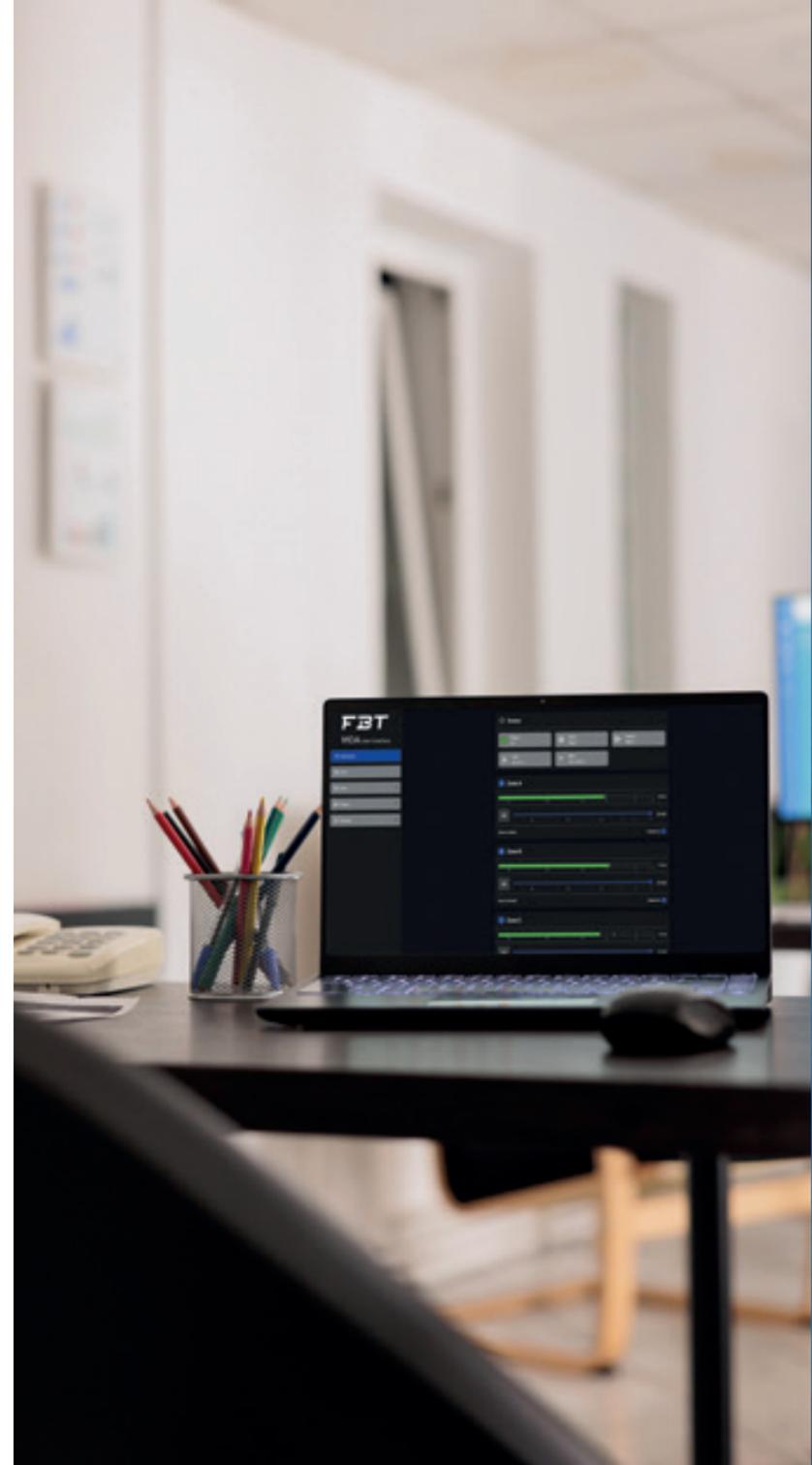
Code		46065
Channels		4x Lo-Z / 2x Hi-Z
Amplifier Topology		Class D
Lo-Z Output Power	W	4 x 500W - 4 Ohm
Hi-Z Output Power	W	2 x 1000W - 100V
Audio Inputs		4 x Line / 1 x SPDIF
On board sources		Noise generator
Audio Outputs		1 x SPDIF
GPIO (Control IN/OUT)		8-pins
Controls		Web Browser
Frequency Response	Hz	20 - 20.000
S/N Ratio	dB	>106
THD + N	%	<0.05
Power Supply	V	100 - 240 (50Hz - 60Hz)
Power Consumption (@230V)	W	700
Dimensions (WxHxD)	mm	440 x 88 x 320
	inch	17,32 x 3,46 x 12,59
Net Weight	Kg	7,9
	Lb	17,41



MDA 4125

Code		46064
Channels		4 x Lo-Z / 2 x Hi-Z
Amplifier Topology		Class D
Lo-Z Output Power	W	4 x 125W - 4 Ohm
Hi-Z Output Power	W	2 x 250W - 100V
Audio Inputs		4 x Line / 1 x SPDIF
On board sources		Noise generator
Audio Outputs		1 x SPDIF
GPIO (Control IN/OUT)		8-pins
Controls		Web Browser
Frequency Response	Hz	20 - 20.000
S/N Ratio	dB	>106
THD + N	%	<0.05
Power Supply	V	100 - 240 (50Hz - 60Hz)
Power Consumption (@230V)	W	150
Dimensions (WxHxD)	mm	220 x 44 x 320
	inch	8,66 x 1,73 x 12,59
Net Weight	Kg	2,8
	Lb	6,17

Related accessories



CONNECT, set up
and **MANAGE**

Any smartphone, tablet or PC can access the **intuitive interface** directly via **web browser**, making it easier to control, configure and monitor the amplifier. **Custom speaker libraries** will help the installers, providing them a quick and **fluid configuration workflow**.

MPA 5480 / 5240 / 5120



MPA SERIES

This range of power units is specifically designed for broadcast and background music applications. Reliability, minimal design and robust structures make the MPA amplifiers the ideal product for quality amplification, with a particularly interesting **cost effective ratio**. Available in three different power sizes **from 120W up to 480W**, they all run either at high-Z or low-Z ensuring the same quality. The front panel gives access to basic tone and level controls. When used in **emergency systems**, it is possible to disable all the front-panel controls (tone and level controls) preventing any possible accidental modification from the original setting, ensuring higher levels of security. A simple system management affordable for everyone.

KEY FEATURES

- Operation on AC or on DC 24 V to match any installation requirements
- 100/70/50 V line or 8 Ω speaker outputs
- Deactivable front panel controls for emergency purpose
- Easy connection with MBT 1101 paging stations
- Two 19' RU size

		MPA 5480	MPA 5240	MPA 5120
Code		37491	37489	37490
Channels		1 x Lo-Z / 1 x Hi-Z	1 x Lo-Z / 1 x Hi-Z	1 x Lo-Z / 1 x Hi-Z
Amplifier Topology		Class AB	Class AB	Class AB
Lo-Z Output Power	W	1 x 500W - 8 Ohm	1 x 240W - 8 Ohm	1 x 120W - 8 Ohm
Hi-Z Output Power	W	1 x 500W - 100V	1 x 240W - 100V	1 x 120W - 100V
Audio Inputs		1 x Line / 1 x Mic (RJ45) / 1 x Emg/Tel		
On board sources		---	---	---
Audio Outputs		1 x Line	1 x Line	1 x Line
GPIO (Control IN/OUT)		1 x Precedence	1 x Precedence	1 x Precedence
Controls		Front panel	Front panel	Front panel
Frequency Response	Hz	30 - 20.000	30 - 20.000	30 - 20.000
S/N Ratio	dB	>75	>75	>75
THD + N	%	<1	<1	<1
Power Supply	V	115 (50Hz-60Hz) / 230 (50Hz-60Hz)		
Power Consumption (@230V)	W	1160 (@230VAC)	535 (@230VAC)	280 (@230VAC)
Dimensions (WxHxD)	mm	432 x 88 x 272	432 x 88 x 272	432 x 88 x 272
	inch	17 x 3,46 x 10,70	17 x 3,46 x 10,70	17 x 3,46 x 10,70
Net Weight	Kg	16	10	8,2
	Lb	35,3	22	18

Related accessories



RMK-5000
Code: 18016
Rack mount brackets

MXA 1120 / 1060



MXA SERIES

These integrated mixer-amplifiers provide the perfect balance of **flexibility, functionality** and **affordability**. They combine basic mixer functionalities with a robust single-channel power amplification board. Engineered for versatility and cost-effectiveness, the MXA series is composed of two models with a total power of **60W or 120W** in either Hi-Z or Low-Z output configuration. With multiple mic/line inputs, program selection, basic tones and level management, these amplifiers are designed to adapt to a variety of audio needs, from basic **background music** distribution, **paging** or **emergency** purposes. The clean front panel featuring only essential controls makes these amplifiers **very intuitive to manage**: volume controls are dedicated to each input channel, while the master volume, bass and treble controls and a power switch are dedicated to the main control.

KEY FEATURES

- Wide range of MIC and LINE inputs
- Available phantom power on MIC inputs
- Inputs priority and settings by micro-switches
- 100/70/50 V line or 8 Ω speaker outputs
- Easy connection with MBT 1101 paging stations
- Two 19' RU size

		MXA 1120	MXA 1060
Code		37639	37638
Channels		1 x Lo-Z / 1 x Hi-Z	1 x Lo-Z / 1 x Hi-Z
Amplifier Topology		Class AB	Class AB
Lo-Z Output Power	W	1 x 120W - 8 Ohm	1 x 60W - 8 Ohm
Hi-Z Output Power	W	1 x 120W - 100V	1 x 60W - 100V
Audio Inputs		2 x Mic (1 x VOX) - 1 x Mic (RJ45) - 1 x Mic/Line - 2 x Aux - 1 x Emg/Tel	
On board sources		---	---
Audio Outputs		1 x Line	1 x Line
GPIO (Control IN/OUT)		1 x Precedence	1 x Precedence
Controls		Front panel	Front panel
Frequency Response	Hz	40 - 20.000	40 - 20.000
S/N Ratio	dB	MIC: 66dB / LINE: 75dB	
THD + N	%	<1	<1
Power Supply	V	120 - 230 (50Hz - 60Hz)	
Power Consumption (@230V)	W	270	130
Dimension (WxHxD)	mm	432 x 88 x 234	432 x 88 x 234
	inch	17 x 3,46 x 9,21	17 x 3,46 x 9,21
Net Weight	Kg	9	6,5
	Lb	19,8	14,33

Related accessories



RMK-5000
Code: 18016
Rack mount brackets

MDS 1240 / 1120 / 1060



MDS SERIES

The MDS series of integrated amplifiers combines in a compact metal chassis all you need to make a **quick and easy set-up** for your sound system. This is the ideal audio solution for any retail store or cafe that needs an intuitive operating system **without using any software** or special configuration. This series offers **three single-channel** amplifier models from 60W to 240W which are all equipped with 4 mic/line inputs and one line output, MP3 player and FM tuner module. The speaker output is compatible with Lo-Z or Hi-Z power distribution.

KEY FEATURES

- Built-in music sources: USB, SD/MMC and FM Radio
- User-friendly front panel allows easy operation
- Wide range of MIC and LINE inputs
- Available phantom power on MIC inputs
- In/Out connectors allow to add external audio processor
- 100/70/50 V line or 4 Ω speaker outputs
- Two 19" RU size

		MDS 1240	MDS 1120	MDS 1060
Code		37497	37496	37495
Channels		1 x Lo-Z / 1 x Hi-Z	1 x Lo-Z / 1 x Hi-Z	1 x Lo-Z / 1 x Hi-Z
Amplifier Topology		Class AB	Class AB	Class AB
Lo-Z Output Power	W	1 x 240W - 4 Ohm	1 x 120W - 4 Ohm	1 x 60W - 4 Ohm
Hi-Z Output Power	W	1 x 240W - 100V	1 x 120W - 100V	1 x 60W - 100V
Audio Inputs		3 x Mic/Line - 1 x Aux	3 x Mic/Line - 1 x Aux	3 x Mic/Line - 1 x Aux
On Board Sources		USB - SD - FM	USB - SD - FM	USB - SD - FM
Audio Outputs		1 x Line	1 x Line	1 x Line
GPIO (Control IN/OUT)		1 x Precedence	1 x Precedence	1 x Precedence
Controls		Front panel	Front panel	Front panel
Frequency Response	Hz	30 - 18.000	30 - 18.000	30 - 18.000
S/N Ratio	dB	80	80	78
THD + N	%	<1	<1	<1
Power Supply	V	120 - 230 (50Hz - 60Hz)	120 - 230 (50Hz - 60Hz)	120 - 230 (50Hz - 60Hz)
Power Consumption (@230V)	W	600	300	150
Dimensions (WxHxD)	mm	432 x 88 x 10,62	432 x 88 x 10,62	432 x 88 x 10,62
	inch	17 x 3,46 x 10,62	17 x 3,46 x 10,62	17 x 3,46 x 10,62
Net Weight	Kg	10,5	8,3	6,3
	Lb	23,15	18,3	13,89

Related accessories



RMK-5000
Code: 18016
Rack mount brackets

AM 5040



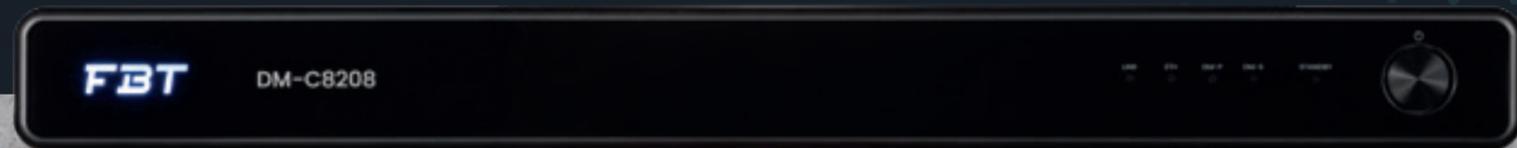
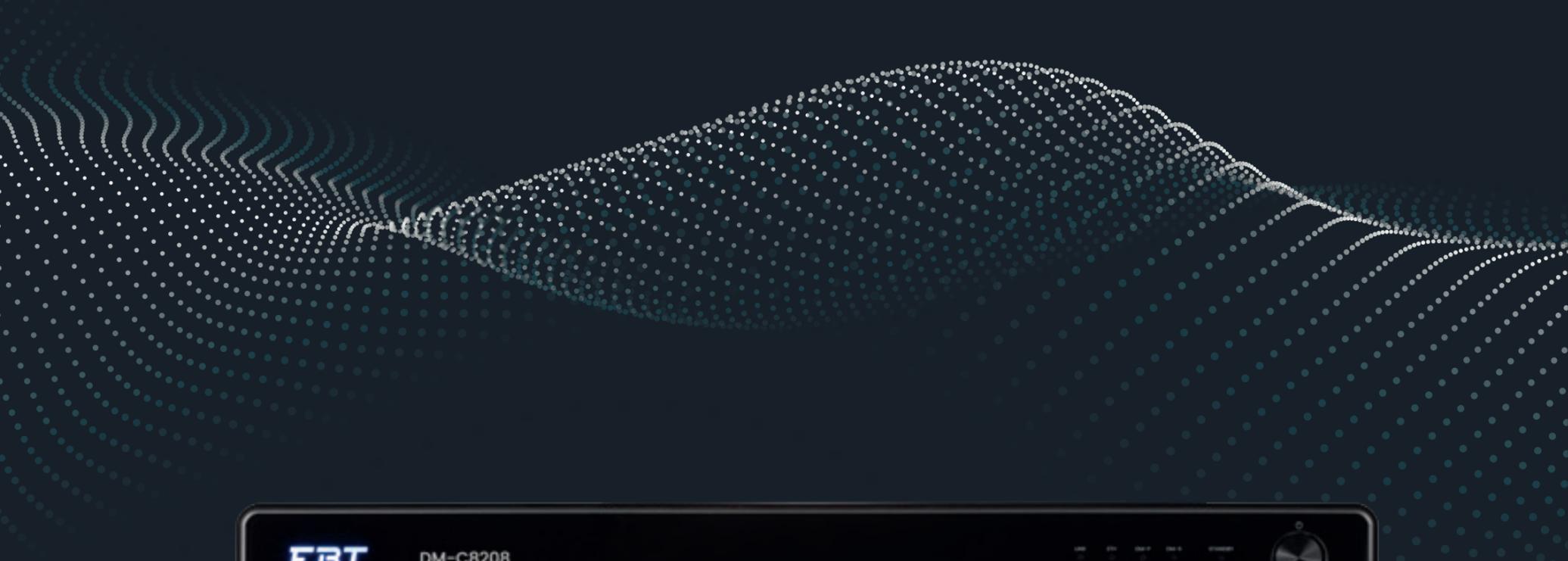
AM 5040

With its 40W, this is the smallest of our mixer amplifiers. Particularly suitable for **small installations**, it offers considerable **flexibility** ensuring **various inputs and outputs**. The AM 5040 has two microphone inputs on the back and on the front panel, with **VOX priority**. Two auxiliary inputs for sound sources are selectable via the front panel and an audio input with precedence for emergency or telephone with VOX function completes the amplifier.

KEY FEATURES

- Compact and lightweight design
- Flexible MIC and LINE input connections
- Balanced MIC input (with VOX) on front panel
- 100/70/50 V line or 8 Ω speaker outputs
- Operation on AC or on DC 24 V to match any installation requirements

Code		43767
Channels		1 x Lo-Z / 1 x Hi-Z
Amplifier Topology		Class AB
Lo-Z Output Power	W	1 x 40W - 8 Ohm
Hi-Z Output Power	W	1x 40W - 100V
Audio Inputs		2 x Mic (1 x VOX) - 2 x Aux - 1 x Emg/Tel (VOX)
On board sources		---
Audio Outputs		1 x Line
GPIO (Control IN/OUT)		1 x Precedence
Controls		Front panel
Frequency Response	Hz	35 - 20.000
S/N Ratio	dB	>61
THD + N	%	<1
Power Supply	V	115 - 230 (50Hz - 60Hz)
Power Consumption (@230V)	W	100
Dimensions (WxHxD)	mm	275 x 88 x 230
	inch	10,82 x 3,46 x 9,05
Net Weight	Kg	4,2
	Lb	9,26



CONTROL SYSTEMS

66 DIGITAL MATRIX

68 DIGITAL MIXER

69 ANALOG MIXER

DM-8208

The DM-8208 Digital Matrix System is specially designed to be **flexible** and **powerful, easy to configure**, install and manage.

With audio quality tailored for a wide range of applications including background/foreground and paging, the DM-8208 Digital Matrix System provides **complete control** over the audio configuration and signal processing.

Basic user controls such as volume and source selection within a zone can be operated with ease with the wall mounted panel controller DM-P8208.

More advanced users who need control over multiple zones can use the Graphical User Interface (GUI) for PC or smart devices.

The DM-C8208 can be controlled via Ethernet, for an easy integration with a wide range of building management and control systems. With the remote paging station DM-S8208, users can select parts of the desired zone or the entire area to broadcast live calls and local music source.



DM-S8208

Paging Station

- User-friendly interface allows easy operation
- Local music input with volume control
- Priority and chime configuration by switches
- Up to 8 paging stations each controller DM-C8208

Code		45810
Mic inputs		XLR connector
Audio Outputs		3,5mm jack
Frequency Response	Hz	MIC: 100 - 15.000 / AUX: 20 - 20.000
S/N Ratio	dB	MIC >50 - AUX >80
THD + N	%	MIC < 0,5 - AUX <0,2
Microphone type		Cardioid - Electret
Indicators		Leds
Controls		Keyboard
Paging Port		2 x RJ45
Protocol		RS-485
Power Supply	V	24 (DC) 500mA (from DM-C8208 or external)
Power Consumption (@24VDC)	W	12
Dimensions (WxHxD)	mm	264 x 135 x 62
	inch	10,45 x 5,3 x 2,4
Net Weight	Kg	1
	Lb	2,2



DM-P8208

Wall Panel

- Aesthetic and compact design
- One-zone volume and program selection
- Daisy-chain through LINK RJ45 terminal
- Up to 8 wall panels for each DM-C8208 controller

Code		45809
Display		LCD
Controls		Rotary encoder / push button
Control Protocol		RS-485
Port		2 x RJ45
Power Supply	V	24VDC (by DM-C8208)
Power Consumption (@24VDC)	W	0,5
Dimensions (WxHxD)	mm	115 x 78 x 17
	inch	4,5 x 3,1 x 0,7
Net Weight	Kg	0,1
	Lb	0,22



DM-C8208

Digital Matrix

- Multi-purpose 8-channel DSP matrix controller for easy daily managing
- Flexible remote control featured by PC, smartphone, wall panel and custom by using GPIO
- 8 balanced mic/line inputs with Phantom power
- Priority paging features available by using DM-S8208

Code		45808
Audio Inputs		8 x MIC/LINE
Audio Outputs		8 x LINE
Frequency Response	Hz	20 - 20.000
S/N Ratio	dN	>80
THD + N	%	<0,01
Crosstalk	dB	>80
GPIO (Control IN/OUT)		12 IN - 6 OUT
Controls		Software / App
Paging Port		2 x RJ45
Panels Port		1 x RJ45
Power Supply	V	100 - 240V (50Hz - 60Hz) 24VDC
Power Consumption (@230V)	W	45
Dimensions (WxHxD)	mm	482 x 44 x 300
	inch	19 x 1,7 x 11,8
Net Weight	Kg	3,4
	Lb	7,49



WP 8008

Wall panel for DMM 8008

- Two available working modes: master and zone
- Intuitive front panel controls managing
- Provides lock and stand-by features
- Requires 12VDC external power supply

Code		38929
Display		LCD
Controls		Rotary ecoder with push button
Control Protocol		RS-485
Port		Phoenix connectors
Power Supply		12VDC (150mA)
Power Consumption (@230V)	V	0,5
Net Weight	Kg	0,1
	Lb	0,22

DMM 8008

Specially designed for commercial and professional applications such as conference rooms, auditoriums, public entertainment venues, the DMM 8008 is a professional multi-application **Digital Matrix/Mixer** with independent configurable mic/line balanced inputs, balanced line outputs and logic controls. The complete addressing between inputs and outputs in the matrix is ideal for **multi-zone applications** where the WP 8008 remote panel provides **dual control function** on single zone or global. Automixing function automatically adjusts input level to make operating easier using NOM or Gain sharing. The **powerful DSP** inside offers parametric EQ, crossover filters, compressor section and peak limiter, phase and delay control and 8 In/Out logical ports. Every input has priority level selection for management of emergency messages and microphone signals. On the front panel there are 8 knobs for the fine adjustment of sensitivity on input channels microphones. The device is equipped with **PC software** which allows configuration via TCP/IP or USB connection.

KEY FEATURES

- Full-featured DSP capabilities with excellent audio performance
- Remote control featured by PC, wall panel or custom by third-part devices
- Front panel and GPIO controls makes easy daily managing
- Automixing features optimized fro conferencing and speech applications

Code		38885
Audio Inputs		8 x MIC/LINE
Audio Outputs		8 x LINE
Frequency Response	Hz	20 - 20.000
S/N Ratio	dB	> 104
THD + N	%	< 0.005
Crosstalk	dB	> 80
GPIO (Control IN/OUT)		4 IN / 4 OUT
Controls		Software
Paging Port		---
Panels Port		2 x RJ45
Power Supply	V	90 - 240V (50Hz - 60Hz)
Power Consumption (@230V)	W	40
Dimensions (WxHxD)	mm	482 x 44 x 229
	inch	18,97 x 1,73 x 9
Net Weight	Kg	3,5
	Lb	7,71



M12X4

M12X4 is a **12 channels stereo mixer** ideal for compact installations and suitable for schools, shops, restaurants, houses of worship and other presentation or entertainment venues who are looking for a **user-friendly interface**. It features four Mic/Line inputs with priority controls overall four stereo music inputs, two stereo outputs with dedicated volume controls plus one stereo output used for recording. Microphone inputs provides phantom power and voice control in order to adjust speech intelligibility.

KEY FEATURES

- Low-distortion mic pre-amp with high dynamic range
- Flexible input connector plugs
- Priority switches on Mic/Line mono inputs
- Output left/right channels with independent volume control

Code		18147
Mono MIC / Line Inputs		4 x Combo (XLR / 6,3mm Jack)
Stereo Line Inputs		8 x RCA (STEREO)
Line Outputs	W	2 x XLR-M + 2 x RCA (STEREO)
Recording Output	W	2 x RCA (STEREO)
Frequency Response	Hz	20 - 20.000
S/N Ratio	dB	> 90
THD + N	%	< 0,025
Impedance	kOhm	2.2 (MIC IN) - 33 (LINE IN) - 22 (STEREO IN)
Phantom Power	VDC	24
Max Output Level	dB	22
Indicators	%	LEDS
Controls		Front / Rear Panel
Power Supply	V	100 - 240V (50Hz - 60Hz)
Power Consumption (@230V)	W	15
Dimensions (WxHxD)	mm	482 x 44 x 229
	inch	18,97 x 1,73 x 9
Net Weight	Kg	2,2
	Lb	4,85



MUSIC SOURCES

72 AUDIO STREAMER

73 DUAL CHANNEL PLAYER

4WAVE

4WAVE is a **wireless streaming preamplifier** with network and Bluetooth 5.0 connectivity.

Applying 4WAVE to your current stereo system will enable you to stream music from your **smart devices**, USB, NAS or **streaming services**, such as Spotify, Tidal or Qobuz in high resolution by 4STREAM app, AirPlay, Bluetooth or other third-party compatible apps.

It supports streaming high-quality music in sample rates up to 24bit, 192kHz and supports decoding lossless audio formats such as FLAC, APE, WAV. By adding more units you can set up a **wireless multiroom** or **multi-zone whole house** audio system for a new and great experience to play and enjoy music.

KEY FEATURES

- Managed through 4STREAM app
- Access to most famous streaming services, including Internet radio
- WiFi and ethernet network connectivity
- Built-in wireless Bluetooth
- Linkable to other 4WAVE devices to share sources
- Versatile In/Out connections including AUX In/Out and USB
- IR remote control



Spotify connect



Wireless



AirPlay



Multi-Room



4WAVE

Code		47245
Connectivity		WAP - ETH - BT - USB
Audio Inputs		1 x Aux
Audio Outputs		1 x Aux
Frequency Response	Hz	20 - 20.000
S/N Ratio	dB	>91
THD + N	%	<0.03
Controls		App / Remote
Indicators		Led lights
Protocols		AirPlay, DLNA, UpnU, Spotify Connect, Uplay
Frequency Sampling		Up to 24bit / 192 KHz
Audio Format		FLAC / MP3 / AAC / AAC+ / ALAC / APE / WAV
Power Supply	V	5VDC - 1A
Dimensions (WxHxD)	mm	116 x 22,6 x 64
	inch	4,57 x 0,98 x 2,52
Net Weight	Kg	0,2
	Lb	0,44

MS02CD3/T

The MS02CD3/T **dual channel player** combines different sources in a small 19" 1RU housing, perfect for fixed installations such as pubs, shops, hotels, restaurants and shopping malls.

It plays back sound from audio CDs, SD memory cards, MP3 from USB and AM/FM radio. Controls are accessible from the front panel along with an LCD display or from the included remote control. MS02CD3/T provides two fixed stereo RCA outputs.

Perfect for **multi-zone installations** as FM radio and media/CD-player can operate simultaneously and send different music to their separate outputs.

KEY FEATURES

- Two independent stereo outputs (multimedia CD + AM/FM)
- Plays CD, CD-R, CD-R/W, USB, SD/MMC Card, AM/FM Radio
- Flexible source control by front panel or IR remote
- 1RU 19" standard rack mounting type



MS02CD3/T

Code		27867
Audio Inputs		USB Port - SD/MMC card slot - CD port for disk
Tuner Receiving Frequency	MHz	87,5 - 108
Line Outputs		4 x RCA (Stereo CD + FM sections)
Frequency Response	Hz	20 - 20.000
S/N Ratio	dB	>70
THD + N	%	<0,1
Output Level	dBV	0
Indicators		2 x LCD + LEDS
Controls		Front panel + IR Remote
Power Supply	V	230 (50Hz - 60Hz)
Power Consumption (@230V)	W	50
Dimensions (WxHxD)	mm	482 x 44 x 250
	inch	18,97 x 1,73 x 9,84
Net Weight	Kg	4,5
	Lb	10



CONFERENCE SYSTEMS

76 WIRELESS

78 WIRED

CS4000

This **wireless conference system** with the **newest wireless and conferencing technology** is an ideal choice for town halls, local business centers and courtrooms.

Designed to be user-friendly and to provide reliable, clear and intelligible communication and maximized compatible channels with a given bandwidth. It is composed of the **CSU4000 receiver**, the **CST4000 transmitter** and dedicated accessories.

The built-in logic circuit provides conferencing features. This user-friendly system makes meetings easier and it is also an ideal solution for rental companies who can use it for their day-to-day mobile set-ups.



CST4000-CH1 / CH12

- Average charging time, depending on condition of rechargeable batteries used
- LED for indicating battery's charging status
- Protection against overload, short-circuit and deep discharge

Code		45880 / 45881 + 45882
System		Charging Station Units
Slots		1 / 12
Charging Time	H	≈ 5h (2000mAh rechargeable battery)
Charging Voltage	VDC	12
Indicators		LEDS
Power Supply	V	100 - 240 (50Hz - 60Hz)
Power Consumption (@230V)	W	---
Weight	Kg	CST4000-CH1 0,2/0,44
	Lb	CST4000-CH12 11/24,25



CSU4000

- Easily cascading up to 10 CSU4000 without additional splitter
- REMOSET technology for receiver/transmitter synchronisation
- Power supply for optional antenna booster
- Conference modes: override, priority and open mode

Code		45878
System		4-channel diversity UHF PLL wideband receiver
Frequency Range	MHz	470 - 694
Frequency Response	Hz	80 - 16.000
S/N Ratio	dB	> 105dB
THD + N		< 0.6 @1KHz
Audio Inputs		1 x LINK (8-pin mini-DIN)
Audio Outputs		1 x LINK (8-pin mini-DIN) / 4 x CHANNELS (XLR-M) 1 x MIX (XLR-M) / 1 x MIX (6.3mm Jack)
Antenna IN/OUT		2 x BNC (+ DC12V/100mA) / 2x LINK
Voltage Outputs		5-pins / + 5VDC
Indicators		LCD + LEDS
Controls		Front Panels
Mounting		Stand alone / 19"rack
Power Supply		100 - 240 (50Hz-60Hz)
Power Consumption (@230V)		20
Dimensions (WxD)	mm	485 x 45 x 260
	inch	19,09 x 1,77 x 10,23
Weight	Kg	2,4
	Lb	5,29



CST4000

- 400 mm removable gooseneck
- LCD for indicating group/channel, audio level and battery status
- Switchable transmitting power
- Priority function for chairman
- Automatic switch-off

Code		45879
System		UHF PLL microphone console transmitter
Frequency range	MHz	470 - 694
Frequency response	Hz	60 - 16.000
Microphone Type		Super-cardioid Electret Condenser
Microphone Length	mm	400
Transmitting Power	mW	10 / 50
Operating Time	H	≈ 25
MIC Input Connector		4-pole mini XLR
Indicators		LCD + LEDS
Controls		Front Panel
Power Supply		UM3, AA x 2 (Supported Rechargeable type)
Power Consumption (@230V)		---
Weight	Kg	0,76
	Lb	1,67

CS2000

The **CS2000 wired conference system** has been designed to be easy-to-use and to offer reliable, clear and intelligible communication to significantly increase meeting experience. It consists of the **CSU2000 control unit**, the **CSD2000 delegate microphone unit**, the **CSC2000 chairman microphone unit** and dedicated accessories.

This wired conference system is equipped with intelligent automatic mixing technology, integrated acoustic and mechanical design, providing a turn-key solution for quick, **plug-and-play** installation.

It is ideal for small to medium scale meetings that seek versatility in a **cost-effective** solution such as town halls, local business centers and courtrooms.



CSU2000

- Managing up to 50 delegate/chairman units (up to 150 using extender boards EXS-1, EXM-1)
- Built-in MP3 recording function by USB memory stick
- Built-in monitor speaker system
- LCD display for setting and displaying mode status
- Easy daily managing

Code		45887
System		Control Unit with recording
Frequency Response	Hz	35 - 20.000
S/N Ratio	dB	> 70dB (A)
THD + N	%	< 0.06 @1kHz
Audio Inputs		1 x Tel (RCA) - 1 x insert (RCA) 1 x Rec (RCA) - 1 x Line (RCA) 1 x Mic (XLR-F)
Audio Outputs		1 x Tel (RCA) - 1 x insert (RCA) 1 x Rec (RCA) - 1 x Line (RCA) 1 x Headphone (3,5mm Jack)
Delegate / Chairman connectors		2 x 7-pole DIN
Recording		USB3.0 32GByte
Indicators		LCD + LEDs
Controls		Front Panels
Mounting		Stand alone
Power Supply	V	100 - 240 (50Hz - 60Hz)
Power Consumption (@230V)	W	90
Dimensions (WxHxD)	mm	360 x 90 x 150
	inch	14,17 x 3,54 x 5,90
Weight	Kg	1,7
	Lb	3,75



CSC2000 / CSD2000

- Cost effective installation
- Microphone "ring-on" indicator
- Built-in monitor speaker system
- Priority button setting switch
- Easy daily managing

Code (CSC2000 / CSD2000)		45888 / 45889
System		Chairman / Delegate microphone unit
Microphone type		Cardioid Electret Condenser
Frequency response (MIC)	Hz	50 - 18.000
Max SPL	dB	125
Gooseneck lenght	mm	400
Input Connector		1 x 2 m connection cable with 7-pole DIN plug (male)
Output Connector		1 x 7-pole DIN jack (female)
Headphone Outputs		2 x 3.5mm jack with volume control
Indicators		LEDs
Controls		Microphone ON/OFF push-button, priority button (only chairman version)
Power Supply	V	By CSU2000
Power Consumption (@230V)	W	---
Weight	Kg	1,1
	Lb	2,43

Related accessories



EXS-1
Code: 37647
Expansion kit slave



EXM-1
Code: 37646
Expansion kit master



UHF MICROPHONE SYSTEMS

82 U9000

84 U8000

86 ACCESSORIES

U9000

Scalability and reliability within an easy installation. The U9000 system is the newest generation of **quad multi-channel wireless technology**.

Designed for professional applications and for anyone requiring high performance in minimum space. With the DRU9004, THU9000, TBU9000 and ABU9000 models, this series offers a range of **options to meet the needs of any application**, no matter how demanding they may be.

The U9000 system is designed to make your business operations **easier and more efficient**. It comes in **both single and dual channel versions** and boasts unparalleled performance and reliability.

The U9000 series is comprised of DRU8002, DRU8001, THU8000 and TBU8000, all of which are designed to cater to your specific business needs.



DRU9004

- Ultra compact 4 channel receiver in a 1RU
- RF output and mains voltage output for easily cascading
- Power supply for optional antenna booster
- Auto-scan function
- Switchable Mic/Line for single outputs and mixed outputs

Code		45883
System		4-channel diversity UHF PLL wideband receiver
Frequency Range	MHz	470 - 694
Frequency Response	Hz	50 - 18.000
S/N Ratio	dB	> 106dB
THD + N	%	< 0.5 @1KHz
Audio Outputs		4 x CHANNELS (XLR-M) - 1 x MIX (XLR-M) - 1 x MIX (6,3mm Jack)
Antenna IN/OUT		2 x BNC (+ DC12V/100mA) + 2 x LINK
Indicators		LCD + LEDs
Controls		Front Panels
Mounting		Stand alone / 19" rack
Power Supply	V	100 - 240 (50Hz - 60Hz)
Power Consumption (@230V)	W	30
Dimensions (WxHxD)	mm	485 x 45 x 260
	inch	19,09 x 1,77 x 10,23
Weight	Kg	2,65
	Lb	5,84



THU9000

- Chassis made in aluminium alloy
- REMOSET technology for receiver/transmitter synchronisation
- Lock function/mute function
- 4-level display features
- Switchable transmitting power



TBU9000

- Suitable for combination with microphones with 4-pole mini XLR connector
- REMOSET technology for receiver/transmitter synchronisation
- Lock function/mute function
- 6-level display features
- Switchable transmitting power

		THU9000	TBU9000
Code		45884	45885
System		Diversity UHF PLL hand-held transmitter	Diversity UHF PLL body-pack transmitter
Frequency Range	MHz	470 - 694	470 - 694
Spurious Emissions	dBc	<- 50	<- 50
Frequency Response	Hz	50 - 18.000	50 - 18.000
Microphone Type		Condenser - cardioid polar pattern	CM501 / CX504 (not included)
Transmitting Power	mW	10 / 50	10 / 50
Operating Time	H	≈ 20	≈ 20
MIC Input Connector		---	4-pin mini XLR
Indicators		LCD + LEDs	LCD + LEDs
Controls		On board	On board
Power Supply	V	UM3, AA x 2	UM3, AA x 2
Power Consumption (@230V)	W	---	---
Weight	Kg	0,26	0,075
	Lb	0,57	0,16

U8000

The new U8000 system is available in a **single or dual channels** version and will make your business life easier with its performance and reliability.

The **DRU8000** and **DRU8001 receivers** feature compact design. Easy to use with the **hand-held transmitter model THU8000**, a perfect mix of convenience and performance.

The **TBU8000 body-pack transmitter** completes the range and it can be used with headset and lavalier microphones CX-504 and CM-501.



THU8000

- Special design to reduce handling noise, Structure-Borne noise and acoustical feedback
- REMOSET technology for receiver/transmitter synchronisation
- Lock function/mute function
- Sensitivity adjustment and transmitting power can be configured via receiver
- Low battery alert

Code		45875
System		Diversity UHF PLL hand-held transmitter
Frequency Range	MHz	470 - 694
Spurious Emissions	dBc	<- 50
Frequency Response	Hz	60 - 15.000
Microphone Type		Dynamic - cardioid polar pattern
Transmitting Power	mW	10 / 50
Operating Time	H	≈ 30
MIC Input Connector		---
Indicators		LEDs
Controls		On board
Power Supply	V	UM3, AA x 2
Power Consumption (@230V)		---
Weight	Kg	0,235
	Lb	0,52



TBU8000

- Suitable for combination with microphones with 4-pole mini XLR connector
- REMOSET technology for receiver/transmitter synchronisation
- Lock function/mute function
- Sensitivity adjustment and transmitting power can be configured via receiver
- Low battery alert

Code		45876
System		Diversity UHF PLL body-pack transmitter
Frequency Range	MHz	470 - 694
Spurious Emissions	dBc	<- 50
Frequency Response	Hz	60 - 15.000
Microphone Type		CM501 / CX504 (not included)
Transmitting Power	mW	10 / 50
Operating Time	H	≈ 30
MIC Input Connector		4-pin mini XLR
Indicators		LCD + LEDs
Controls		On board
Power Supply	V	UM3, AA x 2
Power Consumption (@230V)		---
Weight	Kg	0,069
	Lb	0,15



DRU8001

- Pilot tone squelch and noise mute
- Fixed antennas
- Auto-scan function
- Backlit display with status indications

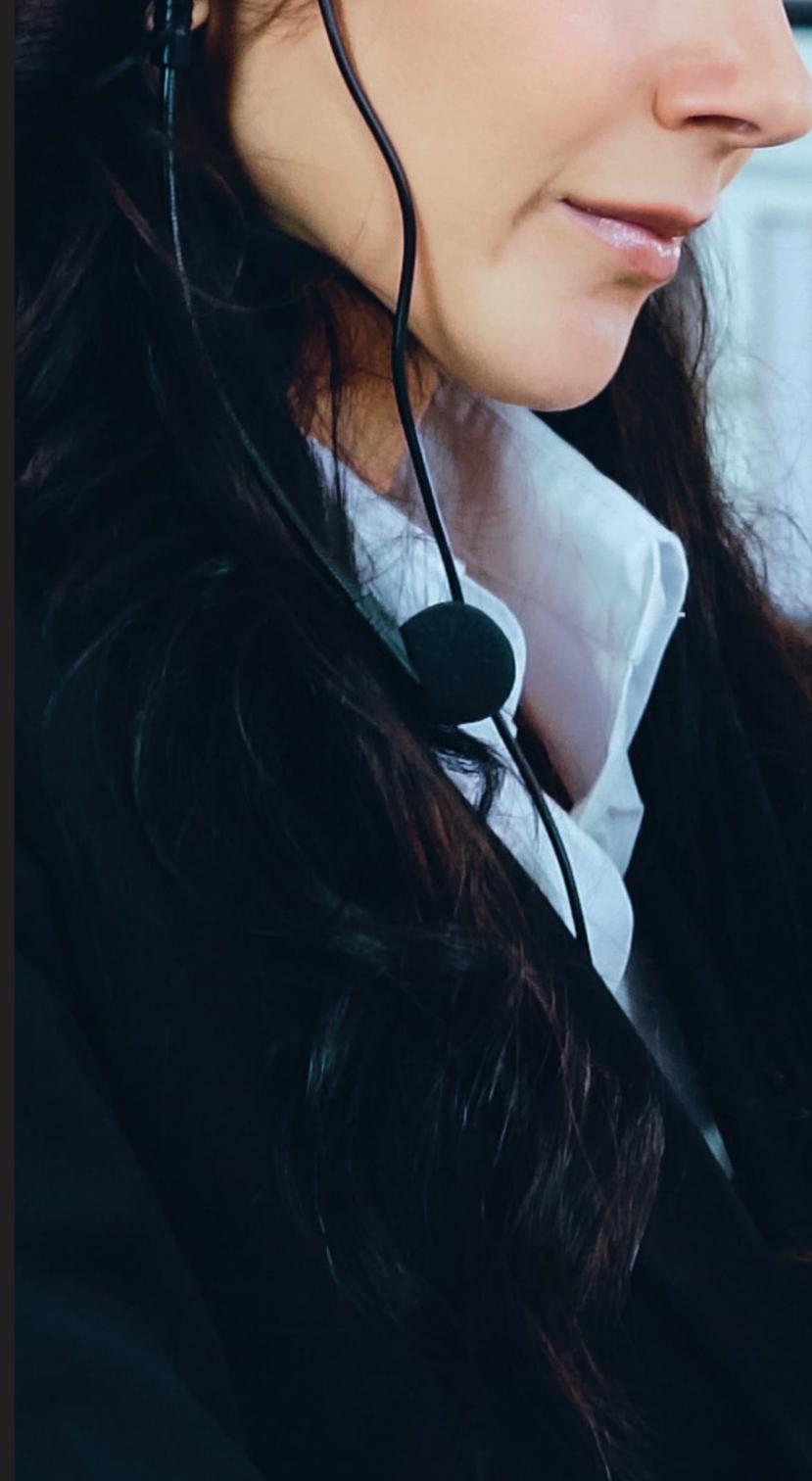
		DRU8001 - DRU8002
Code		45874 - 45877
System		1-channel / 2 channels diversity UHF PLL receiver
Frequency range	MHz	470 - 694
Frequency response	Hz	50 - 16.000
S/N Ratio	dB	> 105dB
THD + N	%	< 0.6 @1KHz
Audio Outputs		DRU8001: 2 (1 x XLR-M, 1 x 6.3mm Jack) / DRU8002: 4 (2 x XLR-M, 2 x 6.3mm Jack)
Antenna IN		2 x BNC (+ DC12V / 100mA) only for DRU8002
Indicators		LCD + LEDs
Controls		Front Panels
Mounting		Stand alone
Power Supply	V	12 - 15 (DC)
Power Consumption (@230V)	mA	300 / 500
Dimensions (WxHxD)	mm/ inch	212 x 38 x 144 / 8,35 x 1,5 x 5,66
Weight	Kg / Lb	DRU8001: 0,457 / 1 - DRU8002: 0,507 / 1,11



DRU8002

- Pilot tone squelch and noise mute
- Removable antennas (BNC connection)
- Power supply for optional antenna booster
- Auto-scan function
- Backlit display with status indications

U8000-U9000 ACCESSORIES



CM-501

- Cardioid polar pattern, suitable for educational and conference applications
- Supplied with clip for easy attach to a tie, lapel, dress etc
- Supplied with windshield

Code		27497
System		Lavalier Microphone
Microphone Type		Cardioid - Electret
Frequency Response	Hz	100 - 15.000
Sensitivity	dB	-60dB @ 1KHz
Max SPL	dB	130
Impedance	kOhm	2,2
Connector		4 - pin mini XLR
Weight	Kg	0,021
	Lb	0,047



CX-504

- Ergonomic design ensures comfortable wearing
- Cardioid polar pattern
- Supplied with windshield

Code		27498
System		Headset Microphone
Microphone Type		Cardioid - Electret
Frequency Response	Hz	30 - 18.000
Sensitivity	dB	-68dB @ 1KHz
Max SPL	dB	130
Impedance	kOhm	2,2
Connector		4 - pin mini XLR
Weight	Kg	0,056
	Lb	0,12



ABU9000

- Power supply via DRU9000/DRU8000 receivers
- DC feed-through output for cascading up to 2 ABU9000
- Can be mounted on-wall or onto microphone stand with 16mm thread
- Antenna excluded

Code		45886
System		Antenna Booster
Frequency Range	MHz	470 - 694
Antenna Gain	dB	10
Coverage	°	360
Indicator		LED
Mounting Type		Wall bracket or 16mm stand (excluded)
Power Supply	V	8 - 12 (DC)
Weight	Kg	0,056
	Lb	0,12

WIRED MICROPHONES

90 HAND-HELD

91 BOUNDARY

92 GOOSENECKS AND BASES

MD-S1000 SERIES

A series of **professional hand-held dynamic microphones** designed for a wide range of applications from presentations to vocal performances. The series includes two models, MD-S1100 and MD-S1300, both made to **improve handling noise suppression and feedback reduction**. MD-S1100 mounts a **dynamic microphone capsule** with **cardioid polar pattern** while the MD-S1300 mounts a **hyper-cardioid microphone capsule** combined with high quality voice reproduction and low distortion, making it suitable for professional vocal performances.



MD-S 1100

- Durable mechanical construction
- Uniform cardioid directionality
- Frequency response tailored for speech and paging
- Built-in spherical wind and pop filter
- Includes Integrated on/off switch

Code		10040
System		Dynamic Hand-held microphone
Directivity		Cardioid
Frequency Response	Hz	80 - 13.000
Sensitivity	dBV/Pa	-75 @ 1KHz
Impedance	Ohm	500
Connector		XLR-M
Controls		ON / OFF switch
Material		Diecast zinc body
Mounting		Adapter for stand mounting not provided
Weight	Kg	0,207
	Lb	0,45



MD-S 1300

- Durable mechanical construction
- Uniform hyper cardioid directionality
- Frequency response tailored for vocals
- Built-in spherical wind and pop filter
- Includes Integrated on/off switch

Code		10042
System		Dynamic Hand-held microphone
Directivity		Hyper Cardioid
Frequency Response	Hz	50 - 18.000
Sensitivity	dBV/Pa	-72 @ 1KHz
Impedance	Ohm	250
Connector		XLR-M
Controls		ON / OFF switch
Material		Diecast zinc body
Mounting		Adapter for stand mounting not provided
Weight	Kg	0,362
	Lb	0,8

CM-601

Boundary microphone CM-601 is designed for speech applications in meeting, conferencing and house of worship based environments. With its **low-profile design** combined with **hemispherical pickup pattern**, it provides consistent even pickup in-front and rejects unwanted sound from the back. CM-601 features **configurable push-button**, standby LED and elastic cartridge suspension for preventing impact sound and structure-borne noise.



CM 601

- Dual low cut filter (80 Hz/120 Hz)
- Configurable push-button (PTT, PTM or switching function)
- Robust and shock-absorbing body
- Elastic cartridge suspension for preventing structure-borne noise and impact sound
- Includes 8 m cable mini XLR jack to XLR plug
- With preformed outline at the bottom for possible wall mounting

Code		27516
System		Electret Condenser boundary microphone
Directivity		Half-Cardioid
Frequency Response	Hz	30 - 12.000
Sensitivity	dBV/Pa	-53 @ 1KHz
Impedance	Ohm	100
Max SPL	dB	125
S/N	dB	67
Phantom	VDC	12 - 52
Connector		3P mini XLR-m
Controls		configurable ON / OFF push button
Material		Diecast metal body
Mounting		---
Weight	Kg	0,088
	Lb	0,194

GM SERIES

The GM series of electret gooseneck microphones is available in **three different lengths**. With supercardioid polar pattern and **natural sound frequency response**, it is the ideal choice for meetings, conference rooms and houses of worship. The series provides **low susceptibility to acoustical feedback**, reliable and high-quality construction for a **long service life**. Terminating with an integrated 3 pin male XLR connector, it allows easy installation into a metal switch base model ST 5050 or a shock-mount connection plate.

KEY FEATURES

- Gooseneck with integrated 3-pole XLR male plug
- Minimum susceptibility to acoustical feedback
- LED for indicating operating status
- Includes foam windscreen



		GM-5206L	GM-5212L	GM-5218L
Code		27515	27514	27513
Characteristics		Electret gooseneck microphone	Electret gooseneck microphone	Electret gooseneck microphone
Directivity		Super Cardioid	Super Cardioid	Super Cardioid
Frequency response	kHz	80 - 18.000	80 - 18.000	80 - 18.000
Sensitivity	dB	-61 @1kHz	-61 @1kHz	-61 @1kHz
Impedance	Ohm	220	220	220
Max SPL	dB	125	125	125
Phantom	Vdc	36 - 52	36 - 52	36 - 52
Connector		XLR-M	XLR-M	XLR-M
Indicators		LED	LED	LED
Material		Metal body	Metal body	Metal body
Weight	Kg	0,145	0,165	0,185
	Lb	0,320	0,363	0,407

ST5050

A multipurpose microphone base **suitable for all kinds of condensers** and **dynamic gooseneck microphones**. It can be quickly mounted using professional XLR female socket inbuilt the **robust metal diecast base**. ST5050 is the ideal complement of GM gooseneck microphone series.



KEY FEATURES

- Programmable switch can be set as push on/push off, push to talk and push to mute
- Special anti-slip pad ensures firm standing and less bounced noise from desk
- Microphone selecting switch is designed for optimum masking effect
- Available for all kinds of condenser and dynamic gooseneck microphones

Code		27499
System		Universal Gooseneck Microphone Base
Frequency Response	Hz	20 - 20.000
MIC Connector		XLR-F
OUT Connector		XLR-M
Phantom	VDC	9 - 52 or battery
Battery	VDC	9
Consumption	mA	2,07 mA (BAL), 1,34 mA (UNBAL)
Indicator		LED
Controls		ON/OFF - MIC selection - Switch mode
Material		Diecast metal body
Weight	Kg	0,82
	Lb	1,8



MBT1101

The pre-amplified microphone base MBT1101 features an **electret microphone on a flexible gooseneck**. It provides **quick installation** and **easy daily managing** when combined with the MPA and MXA compact amplifier series, offering a **cost effective solution** in any paging application such as warehouses or retails. MBT1101 can be mixed with one another or interlocked with two priority levels. The level of the microphone signal and chime tone can be adjusted via the rear panel.



KEY FEATURES

- PTT or LOCK push button with status led indication
- Chime and sensitivity level control by trimmer
- Integrated dynamic limiter feature
- Configurable mixing and interlocked mode

Code		37739
System		Pre-amplified electret microphone base
Frequency Response	Hz	100 - 15.000
Output Audio Level	V	1,2 (RMS- Balanced)
Connectors		2 x RJ45
Indicators		LED
Controls		PTT-LOCK
Power Supply	VDC	12 - 24 through RJ45
Consumption	mA	45 - 60
Material		Robust ABS body
Weight	Kg	0,8
	Lb	1,76

MB-T6400S

This **compact** and **user-friendly** desktop microphone is ideal for announcements in commercial spaces like warehouses, factories and retails and it offers **great sturdiness** and reliability that make it suitable for industrial environments. It is equipped with a **dynamic cardioid microphone capsule** featuring a **push-to-lock switch**. The MB-T6400S comes with 5m cable terminated by a professional XLR (male) plus 2 conductors for priority activation.



KEY FEATURES

- User friendly and plug and play
- Fully flexible gooseneck stalk that is shock-mounted to a heavy zinc die cast base
- Low sensitivity to breath and popping sound
- Includes 5m cable terminated with XLR-M plug

Code		28840
System		Dynamic desktop microphone
Directivity		Cardioid
Frequency response	Hz	100 - 16.000
Sensitivity	dBV/Pa	-79 @ 1KHz
Impedance	Ohm	350
Connector		XLR-M
Controls		ON/OFF push-to-lock button
Material		Diecast zinc body
Weight	Kg	1,65
	Lb	3,63

BF-T5043S

The BF-T5043L gooseneck condenser microphone with integrated desktop base comes with an elegant design with tailored response to reproduce **clear and clean speech programs**. It can be used as an **all-in-one solution** for sound reinforcement in small to mid sized discussion systems such as AV conferencing, meetings, public speaking systems, and more. It is equipped with configurable touch on/off button, 5m cable terminated with XLR male plug that ensures a **quick set up** on podiums or desktops.



KEY FEATURES

- Best-in-class performance, construction and design
- Cardioid polar pattern with tailored response for speech maximises intelligibility
- LED for indicating operating status
- Includes 5m cable terminated with XLR-M plug

Code		18322
System		Electret desktop microphone
Directivity		Cardioid
Frequency response	Hz	70 - 18.000
Sensitivity	dBV/Pa	-59 @ 1KHz
Impedance	Ohm	250
Phantom	VDC	12-48
Connector		XLR-M
Controls		ON / OFF touch button
Material		Diecast zinc body
Weight	Kg	0,786
	Lb	1,73

RACK SYSTEMS

98 RACK

100 ACCESSORIES

RACK SYSTEMS

The new floor standing racks series is specifically designed to house all types of 19" equipment needed in audio system applications. These racks are engineered with a **sturdy structure** that can support the heavy weight of a fully loaded cabinet with professional audio devices.

The series consists of **three models** of rack cabinets: **15**, **27**, and **42** rack units, providing options for different storage needs. Additionally, there are **many accessories available** to cater to various applications.

The lockable sides make wire management **convenient and secure** while ensuring that all cables are **organized and protected** within the rack cabinet.

Constructed from cold rolled steel frame finished in a sleek black powder coating, the rack series is not only solid and durable but also elegant in design. The **tempered glass front door** adds a touch of elegance to the overall appearance of the racks. This series of floor standing racks offers a reliable and professional solution to house audio equipment, with a focus on both functionality and aesthetics.



RC 4268

Code		45752
Material		Steel
Static Load	Kg / Lb	1000 / 2204.62
Dimensions (WxHxD)	mm	600 x 2055 x 800
	inch	23,62 x 80,90 x 31,49
Net Weight	Kg	99
	Lb	218



RC 2768

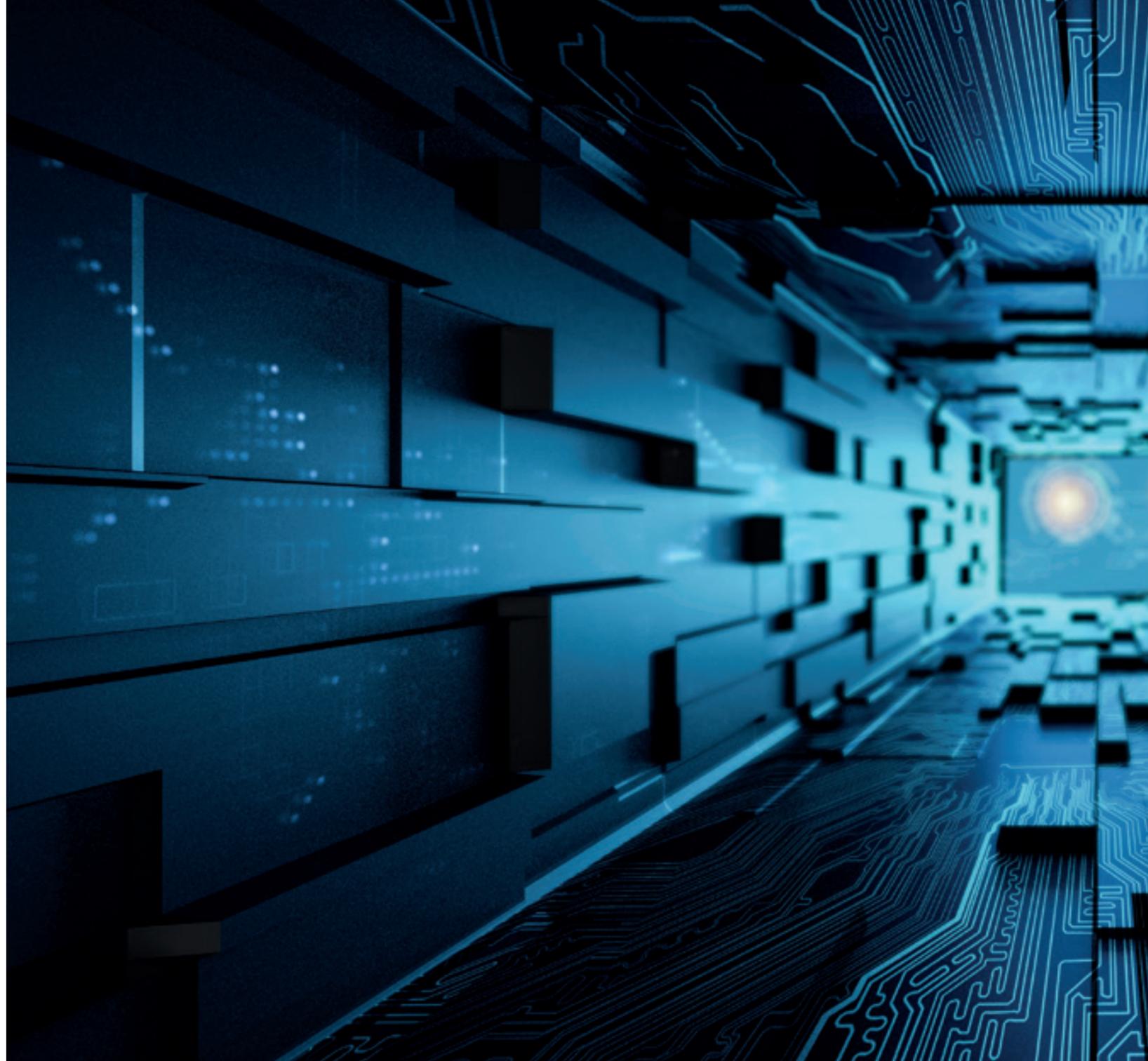
Code		45751
Material		Steel
Static Load	Kg / Lb	1000 / 2204.62
Dimensions (WxHxD)	mm	600 x 1388 x 800
	inch	23,62 x 54,64 x 31,49
Net Weight	Kg	71
	Lb	156,5



RC 1566

Code		45749
Material		Steel
Static Load	Kg / Lb	1000 / 2204.62
Dimensions (WxHxD)	mm	600 x 855 x 600
	inch	23,62 x 33,66 x 23,62
Net Weight	Kg	43
	Lb	97,8

	RMD4	45753	4U Rack driver
	RFS600	45754	Fixed shelf 485x350 for rack cabinet 600x600
	RFS800	45755	Fixed shelf 485x350 for rack cabinet 600x800
	RSS800	45756	Sliding shelf 420x550 for rack 19" cabinets
	RMR600	45757	Set of two mounting rails 350mm dedicated to rack cabinets 600x600
	RMR800	45758	Set of two mounting rails 350mm dedicated to rack cabinets 600x800
	RBP1	45759	Blanking panel 1U
	RBP2	45760	Blanking panel 2U
	RBP3	45761	Blanking panel 3U
	RBP4	45762	Blanking panel 4U
	RBPIT	45763	Brush grommet for rack cabinets
	RBP1F	45764	Brush strip panel with the rack 1U
	RCMIH	45765	Cable management panel, horizontal, metallic 1U flat



	RCMIHP	45766	Cable management panel, horizontal, plastic 1U
	RCMIV	45767	Cable management panel, vertical, type rack cabinets
	RMP4	45777	4U mounting plate with DIN-TH35-24xS rail for rack 19"
	RCU1	45768	4 fan unit with thermostat for rack cabinets 1U
	RPDI	45769	Power distribution unit 230VAC, 8 sockets / type F
	RBK800	45770	Plinth 1000mm for floor standing cabinets 600x800mm
	RWK1	45771	Caste 2" without brake for floor standing cabinet
	RWK1B	45772	Caste 2" with brake for floor standing cabinet
	RLF1	45773	Leveling foot for floor standing cabinet
	RRL1	45774	Universal round lock 25
	RRL1S	45775	Slide panel lock, round 16
	RLK1	45776	Universal front door lock for rack cabinets

AUDIO SOLUTIONS

The following audio solution guide is crafted to serve as a comprehensive resource for professionals across various sectors seeking to enhance their auditory communication system.

- 104** BACKGROUND MUSIC
- 108** FOREGROUND MUSIC
- 110** MEETING & CONFERENCE
- 112** PAGING & BGM
- 114** SPEECH
- 116** SPORT FACILITY

BACKGROUND MUSIC

These audio solutions are suitable for applications where the reproduction of musical content at low to medium levels is required, with good spatial distribution and adequate tonal balance. The loudspeakers used in these applications are aesthetically compact, in some cases with customizable aesthetics, and they have an adequate frequency response that offers a comfortable and relaxing listening experience.

The management and amplification system can be either integrated or scalable and, in any case, will feature an intuitive user interface with analog controls or via APP.

The optimization of installation procedures and the competitiveness of performance complete the profile of audio solutions for background music.

CAFÈ

ZONES:
SINGLE

SPEAKER WIRING:
HIGH IMPEDANCE

EQUIPMENT RANGE:
PROJECT SERIES, 4WAVE, MDS SERIES

COVERAGE AREA



SOUND LVL



RESTAURANT

ZONES:
SINGLE

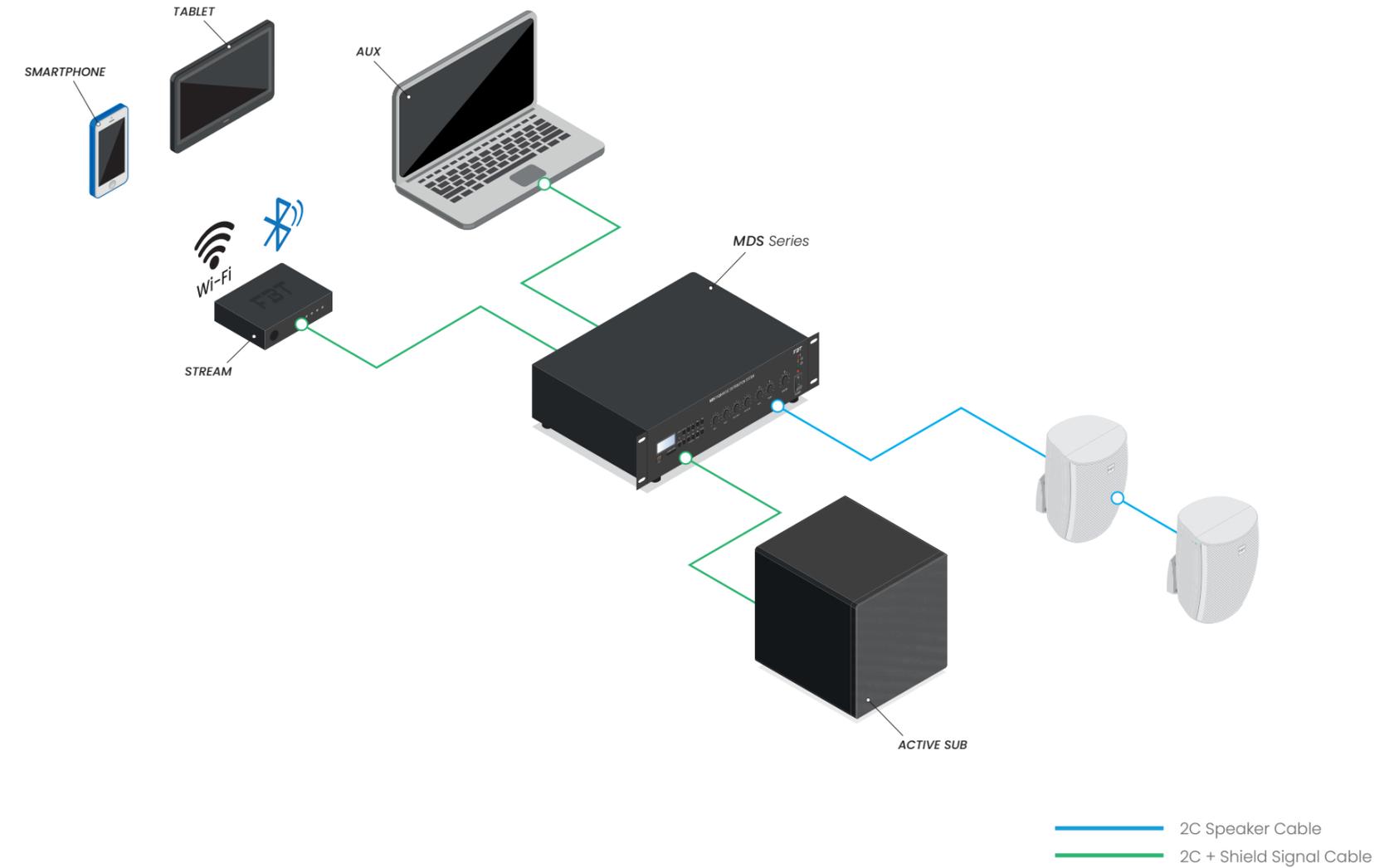
SPEAKER WIRING:
HIGH IMPEDANCE

EQUIPMENT RANGE:
KEIRON 4C, 4WAVE, MDA SERIES

COVERAGE AREA



SOUND LVL



STORE & SHOP

ZONES:
SINGLE

SPEAKER WIRING:
LOW IMPEDANCE

EQUIPMENT RANGE:
KEIRON 5C, KEIRON 8S, 4WAVE, MDA SERIES

COVERAGE AREA



SOUND LVL



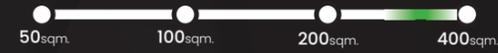
SHOWROOM & DEALER

ZONES:
SINGLE

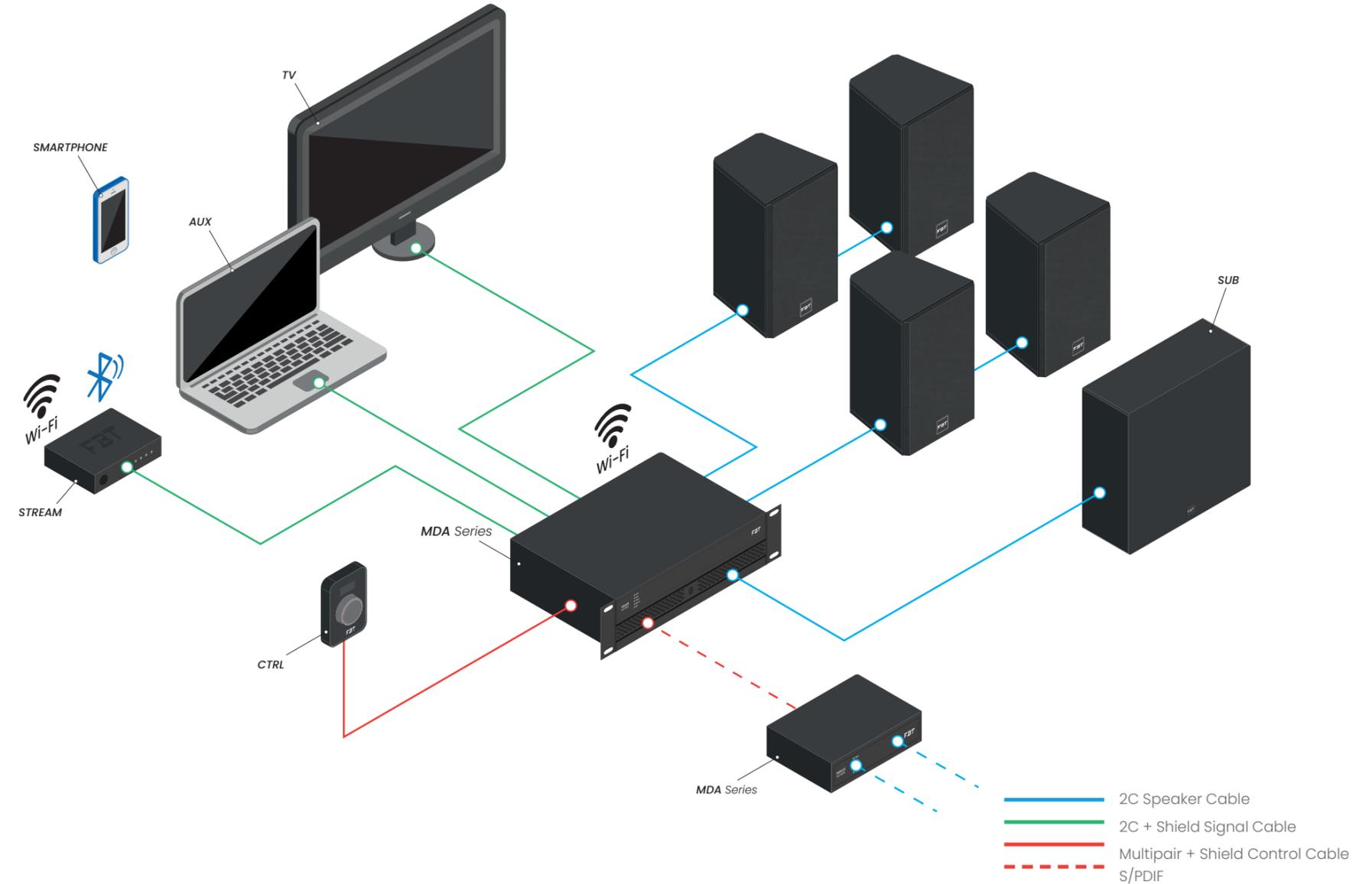
SPEAKER WIRING:
LOW IMPEDANCE

EQUIPMENT RANGE:
LIBRA SERIES, ELYSION, STREAMER, MDA SERIES

COVERAGE AREA



SOUND LVL



FOREGROUND MUSIC

Custom-designed sound reinforcement systems that extend across multiple audio zones with varied acoustic environments and usage requirements, necessitating a medium/high level of reproduction, extensive frequency response, and adaptable tonal balance to suit the context of use: "background music," "live music," "DJ set."

The loudspeakers offer uncompromising performance while maintaining compact and elegant lines with customizable finishes to seamlessly integrate into design contexts.

The management system can be either centralized or scalable. The complexity in audio signal processing is matched by a simple and effective user interface for managing sources, scenes, and audio zones.

LUXURY HOME

ZONES:
4 (1 STEREO)

SPEAKER WIRING:
LOW IMPEDANCE

EQUIPMENT RANGE:
KEIRON 5C, CLA 204T, CLA 803T, CLA 112S, KEIRON 8S, DM-8208, MDA SERIES

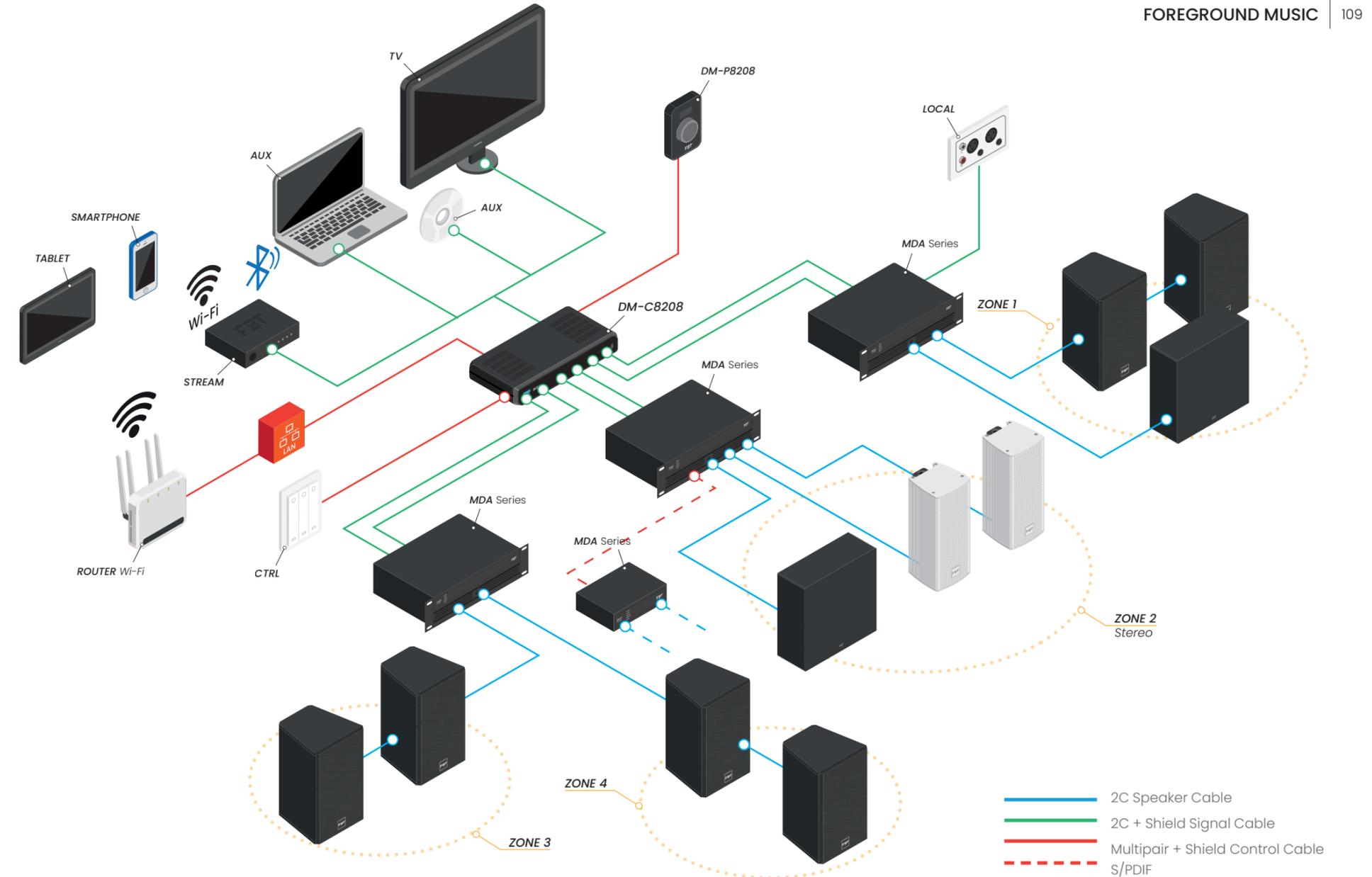
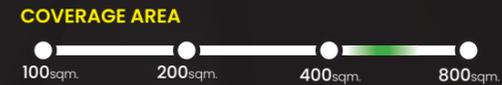


LOUNGE / BAR / RESTAURANT

ZONES:
5 (2 STEREO)

SPEAKER WIRING:
LOW IMPEDANCE

EQUIPMENT RANGE:
KEIRON 8C, KEIRON 5C, CLA204T, KEIRON 8S, DM-8208, MDA4 SERIES



MEETING & CONFERENCE

Solutions built for all those applications that require dynamic and effective management of multiple and varied audio sources: microphones, wireless microphones, conference systems, A/V recording/playback devices with wide-range reproduction suitable for both voice and multimedia content.

"Line array" type loudspeakers boast an emission directivity that maximizes the direct field/reverberated field ratio in the listening area in order to achieve adequate speech intelligibility, which is fundamental for understanding semantically complex content.

Audio solutions of this type usually require an open user interface, designed upon specific request.

CONVENTION CENTER

ZONES:
1

SPEAKER WIRING:
LOW IMPEDANCE / POWERED SPEAKERS

EQUIPMENT RANGE:
DLA SERIES, CLA SERIES, CSU SERIES, MDA SERIES

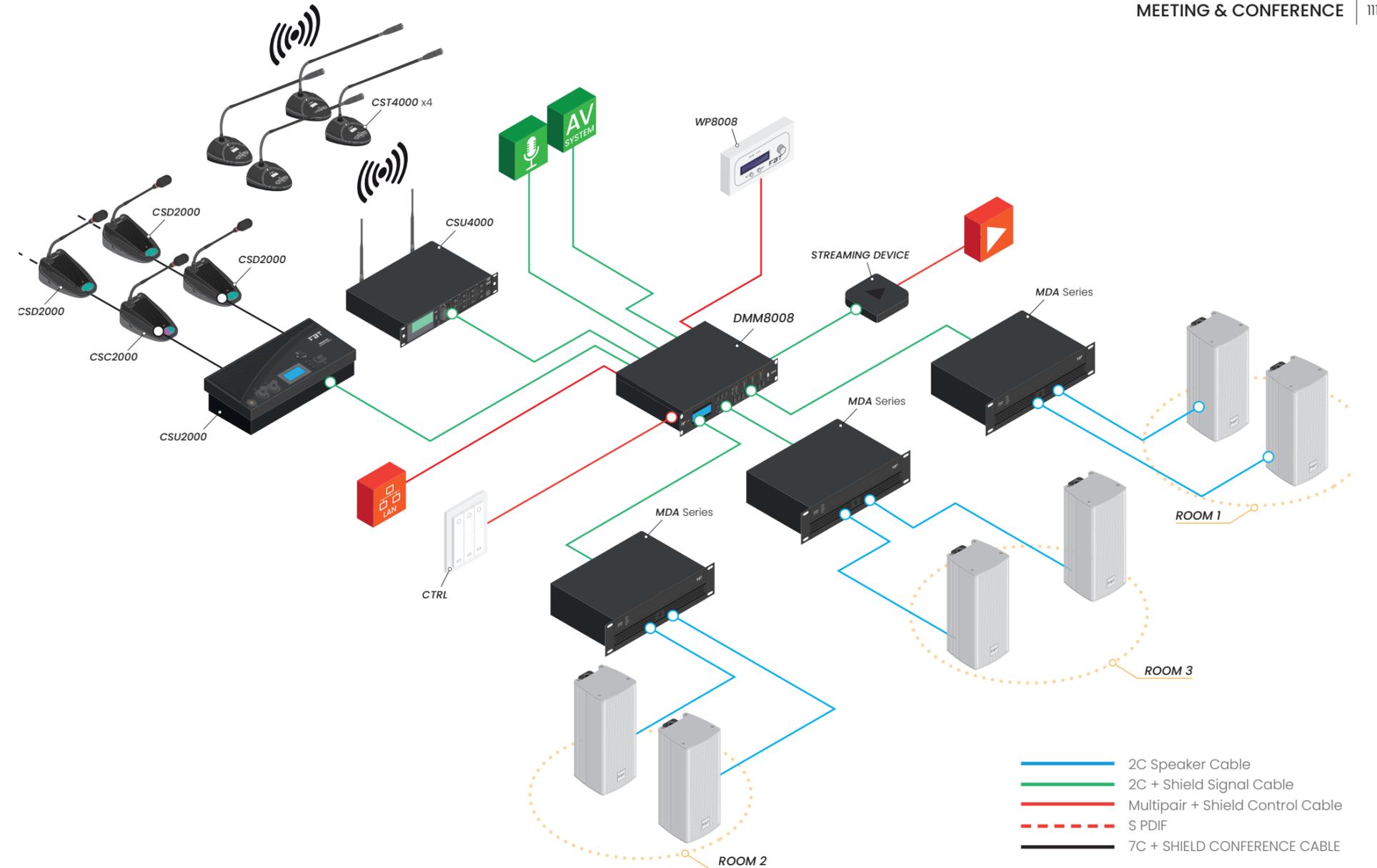


LARGE & MODULAR CONFERENCE ROOMS

ZONES:
3

SPEAKER WIRING:
LOW IMPEDANCE / POWERED SPEAKERS

EQUIPMENT RANGE:
DLA SERIES, CLA SERIES, CSU SERIES, DMM8008, MDA SERIES



PAGING & BGM

The audio systems in this category meet the fundamental requirement of being centrally managed.

One or more operators can direct voice messages and/or background music to individual zones or groups of zones which can be managed remotely, meaning that in each individual zone the music source will be selected and the listening volume set.

Typical applications include hotels, commercial parks, and any multifunctional facility that hosts various activities interconnected by common areas.

Accordingly, the choice of acoustic speakers will follow this need for versatility from an installation perspective with in-ceiling, suspended, or wall-mounted solutions, as well as design with customizable colors, all without sacrificing reproduction quality.

HOTEL & RESORT

ZONES:
6

SPEAKER WIRING:
HIGH IMPEDANCE

EQUIPMENT RANGE:
CSL SERIES, CLA 204, ELYSION, LIBRA, DM-8208,
MDA SERIES, KEIRON 4C

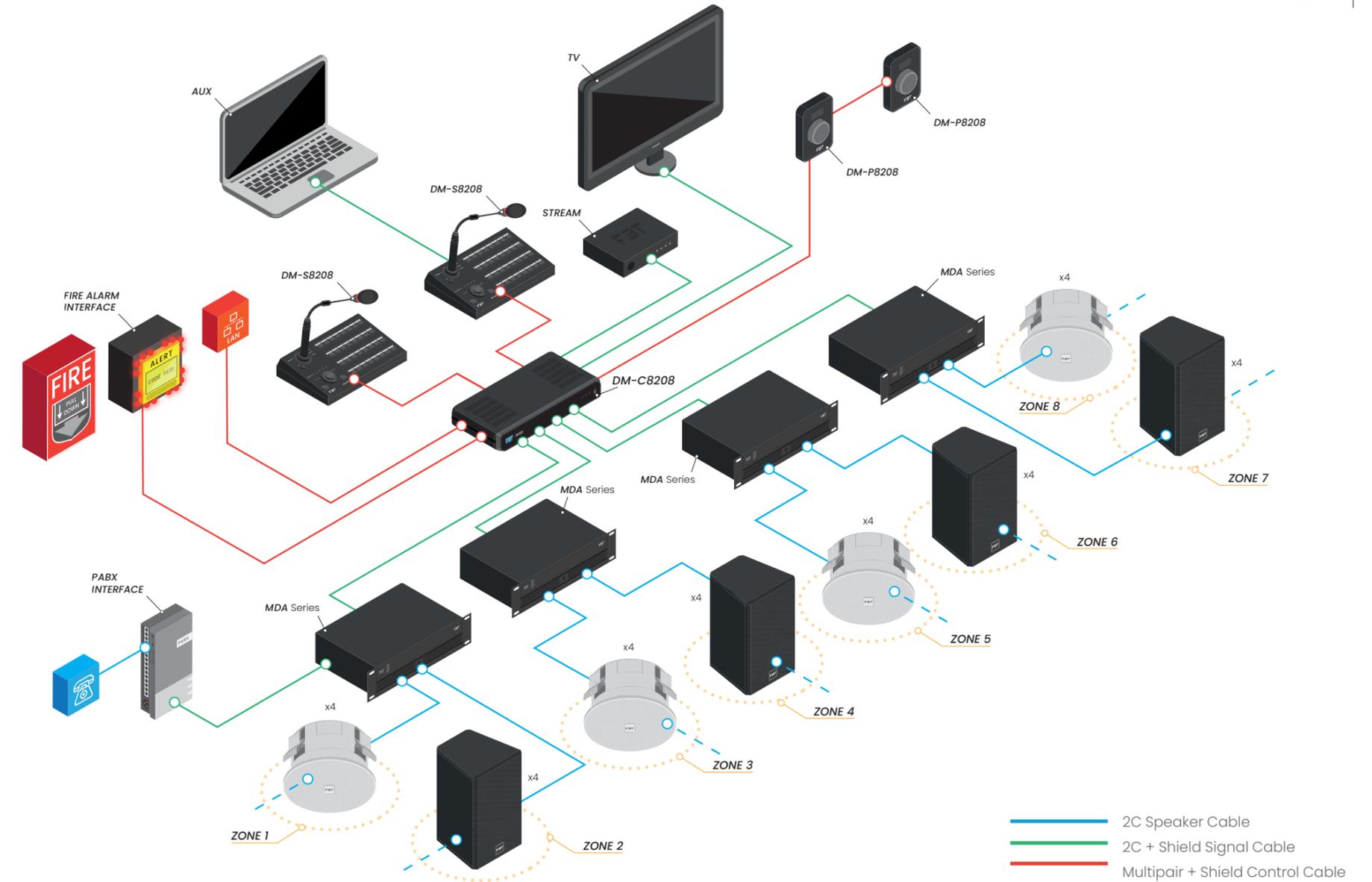


SHOPPING MALL

ZONES:
8

SPEAKER WIRING:
HIGH IMPEDANCE

EQUIPMENT RANGE:
CSL SERIES, CLA 204, KEIRON 4C, ELYSION, LIBRA,
DM-8208, MDA SERIES



SPEECH

The goal of "speech" solutions is to achieve an acceptable speech intelligibility index in acoustically critical environments while adhering to constraints on the installation points of loudspeakers.

The design of these solutions requires an engineering approach that assesses all critical factors through 3D modeling to achieve the desired performance.

Whether in simpler applications such as university classrooms or more complex ones like cathedrals, loudspeakers are of the line array type, passive or active with digital beam steering control, to minimize the reverberant field in the listening area.

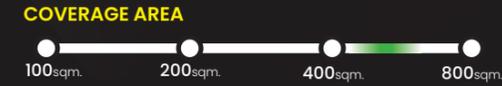
The management and amplification system will be capable, through sophisticated digital automixing algorithms, of effectively handling multiple types of microphones and audio sources.

CLASSROOM & LECTURE HALL

ZONES:
1

SPEAKER WIRING:
LOW IMPEDANCE

EQUIPMENT RANGE:
CLA SERIES, CSU SERIES, DMM8008, MDA SERIES

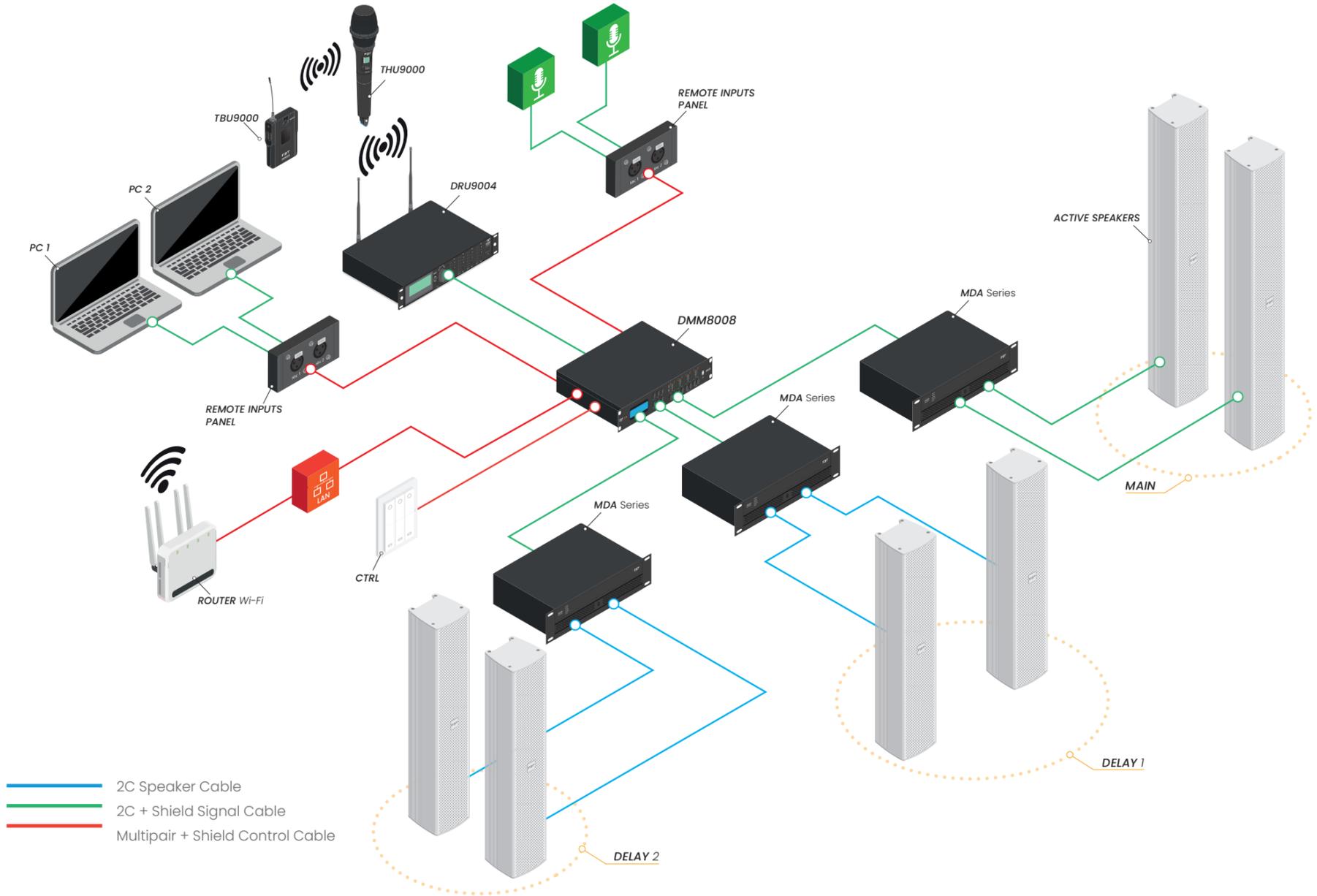


CHURCH & CATHEDRAL

ZONES:
2

SPEAKER WIRING:
LOW IMPEDANCE / POWERED SPEAKERS

EQUIPMENT RANGE:
DLA SERIES, CLA SERIES, GM SERIES, DRU SERIES, DMM 8008, MDA SERIES



SPORT FACILITY

The focus of modern sports arenas is to stimulate an immersive experience for the audience, increasing their physical and emotional engagement.

Central to this goal is the meticulous design of the audio system, which must deliver a consistent frequency response across the entire listening area, featuring deep, intense bass and well-defined mid-highs.

The listening level must ensure an adequate signal-to-noise ratio for proper comprehension of communications directed at the audience.

The speakers designed for these applications are built with technical/mechanical measures and electro-acoustic components that enhance their reliability, performance, and IP protection rating.

The management and amplification system must be capable of supporting networking for both audio transport and control, which should be flexible and open for interfacing with third-party systems.

MULTIPURPOSE INDOOR ARENA

ZONES:
4

SPEAKER WIRING:
LOW / HIGH IMPEDANCE

EQUIPMENT RANGE:
SHADOW 112CT, SHADOW 108CT, DM-8208,
MDA SERIES

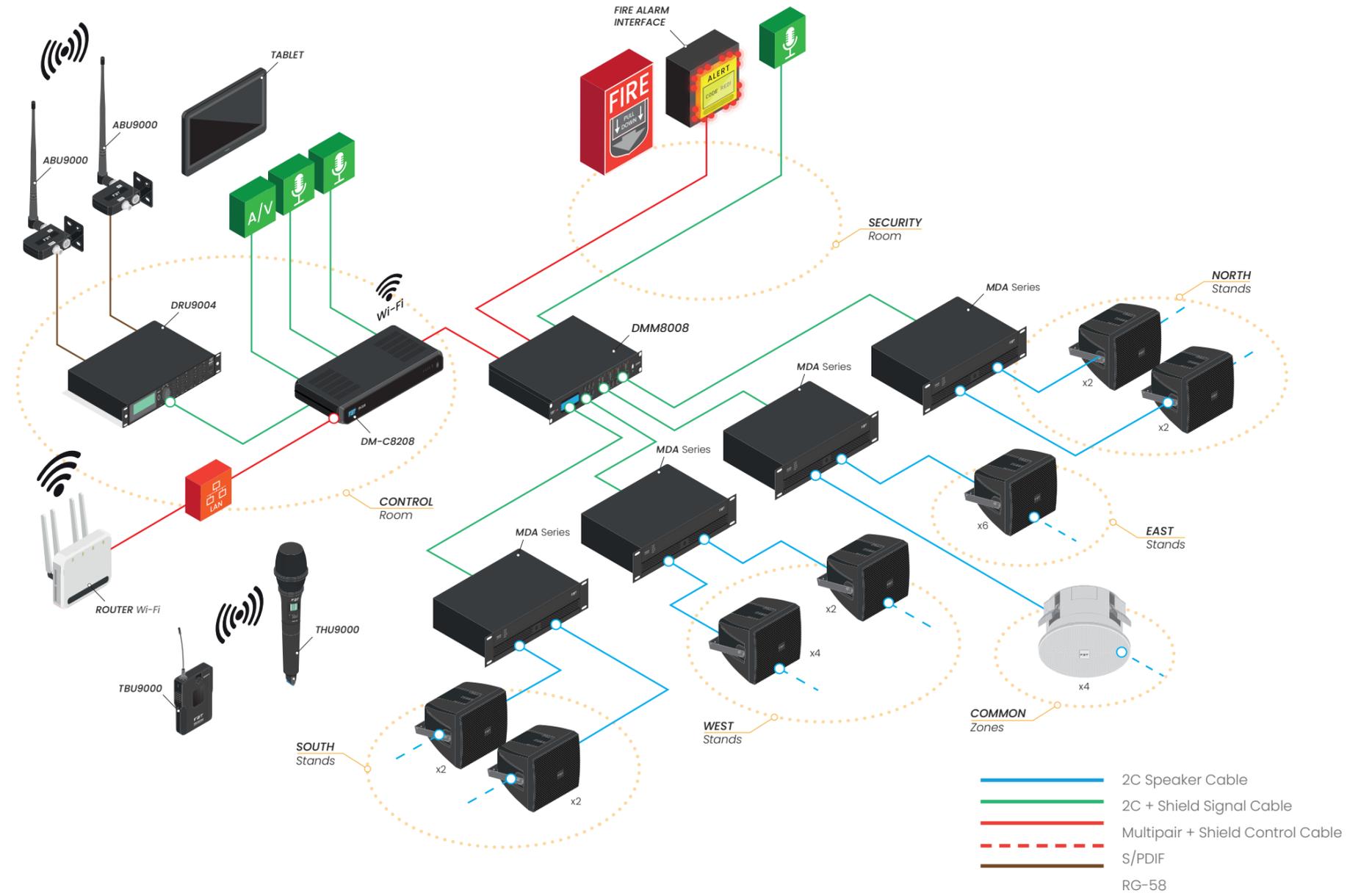


OUTDOOR STADIUM

ZONES:
6

SPEAKER WIRING:
LOW / HIGH IMPEDANCE

EQUIPMENT RANGE:
SHADOW 142L, SHADOW 112CT, DM-8208,
DMM 8008, MDA SERIES





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FBT strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

All data presented on this catalogue represents the basic performance specifications for each model. For a detailed analysis of specifications please check the technical documentation of the products available at www.fbt.it.

The "Audio Solutions" section includes examples of how FBT products can be combined to offer complete systems for a wide range of applications and it must be considered as general guide in order to reach standard performances usually required in the relative scenarios. Each venue design must be approached individually to address the performance requirements. Contact FBT design department for any support.

CONTRACTOR CATALOGUE
Ver. 1.0 (07/2024)



CONTRACTOR
CATALOGUE 2024/2025