



Case Study

Ö Magazin Al Pörto. Rapallo, Italy.



Link

SPECIFICATIONS



	MQ 50C	PL 8X	PL 6X	PL 60
Acoustical specifications				
Frequency Response (-10dB)	70 Hz - 20000 Hz	60 Hz - 20000 Hz	70 Hz - 20000 Hz	90 Hz - 20000 Hz
Max SPL @ 1m	112 dB	109 dB	106 dB	107 dB
Coverage angle	120°	80°	100°	90°
System Sensitivity	91 dB	93 dB	92 dB	91 dB
Power section				
Amplification	Full Range	Full Range	Full Range	Full Range
Nominal Impedance	16 ohm	-	-	8 ohm
Power Handling	60 W	20 W RMS	12 W RMS	6 W
Peak Power Handling	240 W PEAK	80 W PEAK	48 W PEAK	24 W PEAK
Transducers				
Dome Tweeter	1 x 1.0" neo	1.0"	1.0"	-
Woofer	1 x 5.0" neo	8"	6.0"	-
Fullrange	-	-	-	1 x 6.0"
Input/Output section				
Input connectors	Euroblock	Screw Terminals	Screw Terminals	Screw Terminals
Output connectors	Euroblock	Screw Terminals	Screw Terminals	Screw Terminals
Constant Voltage Transformer	100 V	70/100 V	70/100 V	70/100 V
Power selection 1	30 W - 333 ohm	20 W - 500 ohm	12 W - 833 ohm	6 W - 1667 ohm
Power selection 2	20 W - 500 ohm	10 W - 1000 ohm	6 W - 1667 ohm	3 W - 3333 ohm
Power selection 3	10 W - 1000 ohm	5 W - 2000 ohm	3 W - 3333 ohm	1.5 W - 6667 ohm
Power selection 4	5 W - 2000 ohm	2.5 W - 4000 ohm	1.5 W - 6667 ohm	-
Power selection 5	-	-	-	-
Standard compliance				
IP protection grade	-	IP 44	IP 44	-
Safety agency	CE compliant	CE compliant	CE compliant	CE compliant
Physical specifications				
Cabinet/Case Material	Plastic	Plastic	Plastic	Plastic
Hardware	Plastic Material	Plastic Material	Plastic Material	Plastic Material
Grille	Steel	Aluminium	Aluminium	Steel
Color	Black - RAL 9005 White - RAL 9016	Black - RAL 9005 White - RAL 9003	Black - RAL 9005 White - RAL 9003	White - RAL 9003
Size / Weight				
Depth	156 mm / 6.14"	88 mm / 3.46"	73 mm / 2.87"	75 mm / 2.95"
Recessed Depth	140 mm / 5.51 inches	80 mm / 3.15"	66 mm / 2.6"	69 mm / 2.72"
Diameter	266 mm / 10.47"	247 mm / 9.72"	204 mm / 8.03"	204 mm / 8.03"
Cut out diameter	245 mm / 9.65"	224 mm / 8.82"	182 mm / 7.17"	-
Weight	2.1 kg / 4.63 lbs	1.23 kg / 2.71 lbs	0.78 kg / 1.72 lbs	0.34 kg / 0.75 lbs
Part Number				
Black	13100089	13100088	13100087	-
White	13000081	13133043	13133042	13110214



PL 50	PL 40
100 Hz - 20000 Hz	90 Hz - 20000 Hz
98 dB	100 dB
150°	120°
90 dB	88 dB
Full Range	Full Range
-	-
6 W	8 W RMS
24 W PEAK	32 W PEAK
-	-
-	-
1 x 6.0"	1 x 3.5"
Screw Terminals	Screw Terminals
Screw Terminals	Screw Terminals
100 V	100 V
6 W - 1667 ohm	8 W - 1250 ohm
3 W - 3333 ohm	6 W - 1667 ohm
-	4 W - 2500 ohm
-	2 W - 5000 ohm
-	-
-	IP 44
CE compliant	CE compliant
Plastic	Plastic
Metal	Plastic Material
Plastic	Aluminium
White - RAL 9003	White - RAL 9003
65 mm / 2.56"	110 mm / 4.33"
59 mm / 2.32"	103 mm / 4.06"
186 mm / 7.32"	130 mm / 5.12"
-	122 mm / 4.8"
0.5 kg / 1.1 lbs	0.38 kg / 0.84 lbs
-	-
13133060	13133045

ACCESSORIES

RIGGING / MOUNTING

A 1360

13320107

The A 1360 accessory is an adapter designed for surface mount installation of the PL 60 ceiling speaker. It is made of plastic UL94 V0 with rear plate in metal, providing an excellent aesthetic and functional combination with the speaker.



Link

SPECIFICATIONS



	MR 50T	MR 50	MR 40T	MR 40
Acoustical specifications				
Frequency Response (-10dB)	60 Hz - 20000 Hz	60 Hz - 20000 Hz	70 Hz - 20000 Hz	70 Hz - 20000 Hz
Max SPL @ 1m	110 dB	110 dB	108 dB	108 dB
Horizontal coverage angle	110°	110°	110°	110°
Vertical coverage angle	100°	100°	100°	100°
Coverage angle	-	-	-	-
Directivity index Q	7	7	7	7
System Sensitivity	87 dB	87 dB	86 dB	86 dB
Power section				
Amplification	Full Range	Full Range	Full Range	Full Range
Nominal Impedance	8 ohm	8 ohm	8 ohm	8 ohm
Power Handling	60 W	60 W	40 W	40 W
Peak Power Handling	240 W PEAK	240 W PEAK	160 W PEAK	160 W PEAK
Protections	Bulb lamp	Bulb lamp	Bulb lamp	Bulb lamp
Crossover Frequencies	3000 Hz	3000 Hz	3000 Hz	3000 Hz
Transducers				
Fullrange	-	-	-	-
Dome Tweeter	1 x 1.0" neo, 0.8" v.c	1 x 1.0" neo, 0.8" v.c	1 x 1.0" neo, 0.8" v.c	1 x 1.0" neo, 0.8" v.c
Woofers	1 x 5.0", 1.0" v.c	1 x 5.0", 1.0" v.c	1 x 4.0", 1.0" v.c	1 x 4.0", 1.0" v.c
Input/Output section				
Input connectors	Euroblock	Euroblock	Euroblock	Euroblock
Output connectors	Euroblock	Euroblock	Euroblock	Euroblock
Constant Voltage Transformer	70/100 V	-	70/100 V	-
Power selection 1	40 W - 250 ohm	-	20 W - 500 ohm	-
Power selection 2	20 W - 500 ohm	-	10 W - 1000 ohm	-
Power selection 3	10 W - 1000 ohm	-	5 W - 2000 ohm	-
Power selection 4	5 W - 2000 ohm	-	2.5 W - 4000 ohm	-
Power selection 5	-	-	-	-
Standard compliance				
IP protection grade	IP 55	IP 55	IP 55	IP 55
Safety agency	CE compliant	CE compliant	CE compliant	CE compliant
Physical specifications				
Cabinet/Case Material	Plastic	Plastic	Plastic	Plastic
Hardware	Wall mount bracket	Wall mount bracket	Wall mount bracket	Wall mount bracket
Grille	Aluminium	Aluminium	Aluminium	Aluminium
Color	Black - RAL 9005 White - RAL 9003	Black - RAL 9005 White - RAL 9003	Black - RAL 9005 White - RAL 9003	Black - RAL 9005 White - RAL 9003
Size / Weight				
Height	270 mm / 10.63"	270 mm / 10.63"	216 mm / 8.5"	216 mm / 8.5"
Width	187 mm / 7.36"	187 mm / 7.36"	154 mm / 6.06"	154 mm / 6.06"
Depth	167 mm / 6.57"	167 mm / 6.57"	135 mm / 5.31"	135 mm / 5.31"
Weight	4 kg / 8.82 lbs	3.8 kg / 8.38 lbs	2.3 kg / 5.07 lbs	2.2 kg / 4.85 lbs
Part Number				
Black	13100039	13100038	13100035	13100034
White	13100041	13100040	13100037	13100036



MQ 80P	DM61	DM41
100 Hz - 20000 Hz	70 Hz - 20000 Hz	100 Hz - 20000 Hz
114 dB	106 dB	102 dB
90°	120°	180°
60°	140°	170°
-	-	-
-	-	-
94 dB	89 dB	87 dB
Full Range	Full Range	Full Range
8 ohm	8 ohm	8 ohm
60 W	25 W	15 W
240 W PEAK	100 W PEAK	60 W PEAK
-	-	-
3000 Hz	6000 Hz	2.5 Hz
-	-	-
1 x 1.0"	1 x 1.0'	1 x 1.0'
1 x 5.0"	1 x 6.0"	1 x 3.5"
Cable	Cable	Cable
Cable	Cable	Cable
100 V	100 V	100 V
30 W - 333 ohm	25 W - 400 ohm	15 W - 667 ohm
20 W - 500 ohm	12.5 W - 800 ohm	7.5 W - 1333 ohm
10 W - 1000 ohm	7.5 W - 1333 ohm	5 W - 2000 ohm
5 W - 2000 ohm	5 W - 2000 ohm	2.5 W - 4000 ohm
-	2.5 W - 4000 ohm	1.25 W - 8000 ohm
IP 55	IP 55	IP 55
CE compliant	CE compliant	CE compliant
Plastic	Plastic	Plastic
Wall mount bracket	Aluminium U bracket	Aluminium U bracket
Steel	Aluminium	Aluminium
Black - RAL 9005 White - RAL 9016	White - RAL 9002	Black - RAL 9005 White - RAL 9002
223 mm / 8.78"	289 mm / 11.38"	197 mm / 7.76"
191 mm / 7.52"	216 mm / 8.5"	130 mm / 5.12"
236 mm / 9.29"	177 mm / 6.97"	115 mm / 4.53"
3.65 kg / 8.05 lbs	3.98 kg / 8.77 lbs	1.7 kg / 3.75 lbs
13000094	-	13000387
13000096	13000050	13000049

ACCESSORIES

RIGGING / MOUNTING

MA 5

13360369 (B)

13360370 (W)

MA 5 is a U bracket for wall mounting all models of MR 50 speakers. It is available both in black and white colour.

MA 4

13360367 (B)

13360368 (W)

MA 4 is a U bracket for wall mounting all models of MR 40 speakers. It is available both in black and white colour.



Link

SPECIFICATIONS



	L 2406T	MQ 100L	CS 3082	WMF 33EN
Acoustical specifications				
Frequency Response (-10dB)	100 Hz - 20000 Hz	130 Hz - 20000 Hz	200 Hz - 20000 Hz	80 Hz - 22000 Hz
Max SPL @ 1m	126 dB	112 dB	106 dB	105 dB
Horizontal coverage angle	150°	180°	180°	100°
Vertical coverage angle	30°	60°	30°	160°
Coverage angle	-	-	-	-
Directivity index Q	9	-	-	-
System Sensitivity	97 dB	93 dB	91 dB	88 dB
Power section				
Amplification	Full Range	Full Range	-	Full Range
Nominal Impedance	8 ohm	16 ohm	8 ohm	8 ohm
Power Handling	200 W	80 W	30 W	40 W
Peak Power Handling	800 W PEAK	320 W PEAK	120 W PEAK	160 W PEAK
Protections	Dynamic active mosfet	PTC on tweeter	-	Thermal fuse - PTC
Crossover Frequencies	2000 Hz	2000 Hz	-	2500 Hz
Transducers				
Fullrange	-	-	-	-
Dome Tweeter	4 x 1.0", 1.0" v.c	2 x 0.75"	2 x 1.0"	1 x 1.0" neo, 1.0" v.c
Midrange	-	2 x 3.5"	-	-
Woofer	6 x 5.0", 1.0" v.c	2 x 3.5"	1 x 5.0", 1.0" v.c	2 x 3.0", 1.0" v.c
Input/Output section				
Input connectors	Euroblock	Euroblock	Screw Terminals	Ceramic screw terminals
Output connectors	-	Euroblock	Screw Terminals	Ceramic screw terminals
Constant Voltage Transformer	100 V	100 V	100 V	70/100 V
Power selection 1	60 W - 167 ohm	40 W - 250 ohm	30 W - 333 ohm	40 W - 250 ohm
Power selection 2	30 W - 333 ohm	20 W - 500 ohm	20 W - 500 ohm	20 W - 500 ohm
Power selection 3	15 W - 667 ohm	10 W - 1000 ohm	10 W - 1000 ohm	10 W - 1000 ohm
Power selection 4	10 W - 1000 ohm	5 W - 2000 ohm	-	5 W - 2000 ohm
Power selection 5	-	-	-	2.5 W - 4000 ohm
Standard compliance				
IP protection grade	-	-	IP 55	-
Safety agency	CE compliant	CE compliant	CE compliant	CE compliant
EN54-24 certified	-	-	-	0068/CPR/057-2019
Physical specifications				
Cabinet/Case Material	Baltic birch plywood	Plastic	Aluminum	ABS
Hardware	4 x M5 inserts	Wall mount bracket	Wall mount bracket	Wall mount bracket
Grille	Steel	Steel	Steel	Steel
Color	Black - RAL 9005 White - RAL 9003	Black - RAL 9005 White - RAL 9016	White - RAL 9016	Black - RAL 9005
Size / Weight				
Height	826 mm / 32.52"	500 mm / 19.69"	670 mm / 26.38"	399 mm / 15.71"
Width	135 mm / 5.31"	120 mm / 4.72"	78 mm / 3.07"	92 mm / 3.62"
Depth	140 mm / 5.51"	167 mm / 6.57"	66 mm / 2.6"	236 mm / 9.29"
Recessed Depth	-	-	-	-
Weight	12.8 kg / 28.22 lbs	2.73 kg / 6.02 lbs	2.7 kg / 5.95 lbs	5 kg / 11.02 lbs
Part Number				
Black	13000169	13000186	-	13100046
White	13000177	13000187	13000232	-



MF 33EN	DP 5EN	BS 5EN
80 Hz - 22000 Hz	80 Hz - 20000 Hz	80 Hz - 20000 Hz
105 dB	101 dB	101 dB
100°	-	-
160°	-	-
-	210°	170°
-	-	-
88 dB	88 dB	88 dB
Full Range	Full Range	Full Range
8 ohm	-	-
40 W	20 W	20 W
160 W PEAK	80 W PEAK	80 W PEAK
Thermal fuse - PTC	Thermal fuse	Thermal fuse
2500 Hz	6000 Hz	6000 Hz
-	1 x 5.0"	-
1 x 1.0" neo, 1.0" v.c	-	1 x 0.75"
-	-	-
2 x 3.0", 1.0" v.c	-	1 x Coaxial 5.0"
Ceramic screw terminals	Ceramic screw terminals	Ceramic screw terminals
Ceramic screw terminals	Ceramic screw terminals	Ceramic screw terminals
70/100 V	100 V	100 V
40 W - 250 ohm	20 W - 500 ohm	20 W - 500 ohm
20 W - 500 ohm	10 W - 1000 ohm	10 W - 1000 ohm
10 W - 1000 ohm	5 W - 2000 ohm	5 W - 2000 ohm
5 W - 2000 ohm	2.5 W - 4000 ohm	2.5 W - 4000 ohm
2.5 W - 4000 ohm	-	-
-	IP 65	IP 65
CE compliant	CE compliant	CE compliant
0068/CPR/057-2019	0068-CPR-058/2014	0068-CPR-058/2014
ABS	ABS	ABS
Ceiling mount brackets	Wall mount metal plate	Wall mount metal plate
Steel	Steel	Steel
Black - RAL 9005	White - RAL 9016	White - RAL 9016
516 mm / 20.31"	183 mm / 7.2"	261 mm / 10.28"
94 mm / 3.7"	176 mm / 6.93"	176 mm / 6.93"
181 mm / 7.13"	261 mm / 10.28"	183 mm / 7.2"
178 mm / 7.01"	-	-
3.4 kg / 7.5 lbs	2.61 kg / 5.75 lbs	2.79 kg / 6.15 lbs
13100043	-	-
-	13133076	13133078



Link

VSA SERIES

DIGITALLY STEERABLE COLUMN SPEAKER

Advanced column array speakers with adjustable vertical directivity. Suitable for acoustically critical applications or spaces with architectural constraints.

The VSA II system allows the audio signal to be addressed exactly to the listening area, avoiding the radiation of the acoustic energy to ceilings and empty floors; this eliminates any bad reflections that would affect speech intelligibility, mainly in critical environments with high reverberation. VSA offers a precise directivity and control to give high intelligibility performance with wide frequency response, high-dynamics and coherence at distance. Thanks to the reliable and powerful amplifiers, the accurate speaker design, and the high efficiency of the digital technology, VSA II is able to achieve an extended and stable coverage, preserving at the same time a smooth uniform horizontal coverage.



The state of the art transducer developed for the VSA II offers the highest possible intelligibility and wider frequency response, according to RCF philosophy. A 1,4 tesla flux density is the result of the massive neodymium magnet to get an incredible mid frequency dynamic range. The neodymium magnet is very lightweight and helps to compact the size of the overall system.

BEAM CONTROL

Three different operational modes are available for a precise and fast set up of the column in any environment.

- **“EASY FOCUS” CONFIGURATION**

Simple, easy and suitable for all systems, advisable for users and installers that are not so experienced. Only two parameters are necessary: the loudspeaker installation height and the maximum distance to be covered.

- **“EASY BEAM” CONFIGURATION**

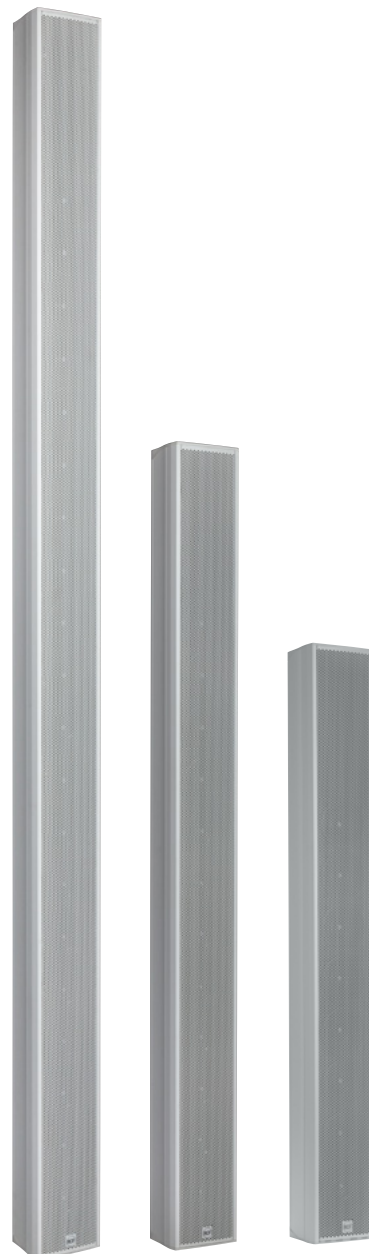
For experts/installers, it allows the setting of both loudspeakers tilt and beam parameters.

- **“FREE BEAM” CONFIGURATION**

Allows specifying the listening area by selecting a preset.

ARCHITECTURAL CAMOUFLAGE

The unobtrusive and robust aluminum cabinet blends seamlessly in any architecturally sensitive environments. The standard colors are black RAL 9005 and white RAL 9003, and custom colors are available on request. The modular design approach offers a uniform heat dissipation for maximum consistency over time. The installation is particularly simple thanks to the drilling template on the wooden package and the lightweight of the speaker. Optional swivel brackets are available on request if the column has to be oriented horizontally.





Case Study

Lugano Cathedral. Lugano, Switzerland.



Link

SPECIFICATIONS

		VSA 2050 II	VSA 1250 II	VSA 850 II
Acoustical specifications				
Frequency Response		100 Hz - 18000 Hz	120 Hz - 18000 Hz	130 Hz - 18000 Hz
Max SPL @ 30m		96 dB	94 dB	93 dB
Horizontal coverage angle		130°	130°	130°
Vertical coverage angle		30°	30°	30°
Transducers				
Fullrange		20 x 3.5" neo, 1.0" v.c	12 x 3.5" neo, 1.0" v.c	8 x 3.5" neo, 1.0" v.c
Input/Output section				
Input signal		bal/unbal	bal/unbal	bal/unbal
Input connectors		Ceramic screw terminals	Ceramic screw terminals	Ceramic screw terminals
Input sensitivity		0 dBu	0 dBu	0 dBu
Processor section				
Protections		Thermal, short circuit	Thermal, short circuit	Thermal, short circuit
Limiter		Soft Limiter	Soft Limiter	Soft Limiter
RDNet		Onboard	Onboard	Onboard
Power section				
Total Power		1300 W Peak, 650 W RMS	1300 W Peak, 650 W RMS	1300 W Peak, 650 W RMS
Cooling		Convection	Convection	Convection
Connections		VDE	VDE	VDE
Standard compliance				
Safety agency		CE compliant	CE compliant	CE compliant
Physical specifications				
Cabinet/Case Material		Aluminum	Aluminum	Aluminum
Hardware		2 x wall mounting flange	2 x wall mounting flange	2 x wall mounting flange
Color		White, Custom color	White, Custom color	White, Custom color
Size / Weight				
Height		2070 mm / 81.5 inches	1340 mm / 52.76 inches	980 mm / 38.58 inches
Width		125 mm / 4.92 inches	125 mm / 4.92 inches	125 mm / 4.92 inches
Depth		97 mm / 3.82 inches	97 mm / 3.82 inches	97 mm / 3.82 inches
Weight		20 kg / 44.09 lbs	13.8 kg / 30.42 lbs	11.2 kg / 24.69 lbs
Part Number				
220-240V	White	13100022	13100025	13100028
115V	White	13100023	13100026	13100029
220-240V	Custom	13100024	13100027	13100030
115V	Custom	13100031	13100032	13100033

ACCESSORIES

RIGGING / MOUNTING

SWM-BR VSA II	13360442 (B)
	13360410 (W)

Each kit includes a pair of swivel brackets for wall mounting of a single RCF VSA 2050 II \ VSA 1250 II \ VSA 850 II Digitally steerable array loudspeaker system, with a horizontal angle pointing up to 60°.

ELECTRONICS

VSA SMART RC	13360330
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VSA SMART RC is a remote control for VSA column speakers that works in conjunction with a dedicated application for smartphones running on iOS and Android OS. The remote control works via infrared communication, so it is necessary to point it properly to the speaker to be adjusted. Functions management is performed by the application. The kit includes the USB / RS485 adapter with RJ45 connection cable to setup the speaker through PC software.

TA1000 VSA	13360318
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TA 1000 is an accessory that consists of a small printed circuit board with a transformer that allows the connection of a 100 V line (amplifier output) directly to the aux audio input (0 dBu) of an active speaker.



VSA SMART RC

The VSA-RC is an easy way to control the VSA speakers through the VSA Remote App available on iOS or Android. The following data are configurable on each VSA through the VSA-RC remote control:

- Select the proper beaming and tilting configuration
- Delay in metres
- Voice/music optimization filters
- Polarity
- Mute
- Volume
- Stand-By



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VSA SERIES

SUB SERIES

HIGH POWER SUBWOOFERS

Engineered with the latest transducer innovations from our laboratories and featuring a weatherproof design with IP67 connectors, S 29 and S 19 subwoofers deliver consistent, high-performance sound in any environmental condition.

S 29 & S 19

S 29 and S 19 are high-power subwoofers suitable for high-powered applications. The bass-reflex design ensures an efficient acoustic response down to 25 Hz. The high-quality plywood cabinet is finished with a black, heavy-duty polyurea coating and protected by a powder-coated metal grille. An M20 pole mount adaptor on top of the cabinet and handles on both sides are provided. The enclosure can be ground-stacked and cardioid-arrayable for improved rear rejection. For enhanced weather resistance, the WP model features an acoustically transparent, water-repellent fabric discreetly embedded within the grille assembly and IP67 Amphenol Ecomate power connectors.

POLYUREA COATING

S 29 and S 19 enclosures are finished with a highly durable polyurea coating that provides excellent waterproofing and corrosion protection. The coating also withstands abrasion, impacts, mechanical stress, and its high elasticity maintains flexibility even in low temperatures. It also exhibits strong chemical resistance and does not emit any VOCs (volatile organic compounds), making it environmentally friendly and safe for human health.

ADVANCED TRANSDUCER TECHNOLOGY

S 29 and S 19 subwoofers incorporate the latest transducer technology from our labs. The 19-inch cone size is the ideal balance between the traditional high-speed 18" and the slower 21" and inherits the best characteristics of the two sizes. Employing lightweight aluminum core coils, high-damping cellulose cone material, composite spiders and a 4-layer inside-outside voice coil, the ultra-long excursion moving mass (65mm/2.5" safe peak-to-peak) gains high power with fast acceleration. Despite their small and lightweight footprints, S 29 and S 19 produce powerful yet articulate bass, remaining true to even the most subtle low-frequency variations.





Case Study

SchwarzGold. Dortmund, Germany.



Link

SPECIFICATIONS



	S 29	S 29 WP	S 19	S 19 WP
Acoustical specifications				
Frequency Response (-10dB)	25 Hz - 200 Hz	25 Hz - 200 Hz	30 Hz - 200 Hz	30 Hz - 200 Hz
Max SPL @ 1m	143 dB	143 dB	139 dB	139 dB
Power section				
Amplification	Full Range	Full Range	Full Range	Full Range
Nominal Impedance	4 ohm	4 ohm	8 ohm	8 ohm
Power Handling	3000 W	3000 W	1500 W	1500 W
Peak Power Handling	12000 W PEAK	12000 W PEAK	6000 W PEAK	6000 W PEAK
Transducers				
Woofer	2 x 19" neo, 4.0" v.c	2 x 19" neo, 4.0" v.c	1 x 19" neo, 4.0" v.c	1 x 19" neo, 4.0" v.c
Input/Output section				
Input connectors:	Speakon® NL4	Amphenol eco/mat IP 67	Speakon® NL4	Amphenol eco/mat IP 67
Output connectors:	Speakon® NL4	Amphenol eco/mat IP 67	Speakon® NL4	Amphenol eco/mat IP 67
Standard compliance				
Safety agency	CE compliant	CE compliant	CE compliant	CE compliant
Physical specifications				
Cabinet/Case Material	Plywood	Plywood	Plywood	Plywood
Handles	2 side	2 side	2 side	2 side
Pole mount/Cap	M20 thread	M20 thread	M20 thread	M20 thread
Grille	Steel with clothing	Steel grille with water-repellent protection	Steel with clothing	Steel grille with water-repellent protection
Size / Weight				
Height:	534 mm / 21.02 inches	534 mm / 21.02 inches	534 mm / 21.02 inches	534 mm / 21.02 inches
Width:	1300 mm / 51.18 inches	1300 mm / 51.18 inches	650 mm / 25.59 inches	650 mm / 25.59 inches
Depth:	730 mm / 28.74 inches	730 mm / 28.74 inches	730 mm / 28.74 inches	730 mm / 28.74 inches
Weight:	85 kg / 187.39 lbs	85 kg / 187.39 lbs	44 kg / 97 lbs	44 kg / 97 lbs
Part Number	13100097	13100108	13100096	13100117

ACCESSORIES

RIGGING / MOUNTING

FLB60676	13360676
The FLB60676 is a universal flybar designed for flexible subwoofer rigging.	
FLB60673	13360673
The FLB60673 side suspension brackets are designed for flexible subwoofer rigging.	
FLB60720	13360720
The FLB60720 is a robust bracket engineered to align flown systems, enhancing structural stability precisely. It must be used in combination with FLB60676 fly bar and FLB60673 brackets for the suspension of S 19 and S 19 WP subwoofers. Each package includes 2 brackets.	
FLB60739	13360739
The FLB60739 is a robust top spacer engineered to align flown S 29 I S 29 W systems, enhancing structural stability precisely. Each package includes 2 spacers. <i>Please note that the kit for model S29 is available exclusively for the Flyable version.</i>	
FLB60742	13360742
FLB60742 is a kit of 2 brackets designed for hanging a COMPACT C 32 speaker under a S 19 subwoofer. The kit must be used in combination with FLB60676 suspension bar, FLB60720 and FLB60673 brackets. Suitable also for WP versions.	



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SUB SERIES

COMPACT SUBWOOFERS

High-power, compact subwoofers designed for installations that demand impactful low frequencies in a minimal footprint. Their efficient design delivers output levels comparable to much larger enclosures, making them ideal for music playback in clubs, bars, cafés, theatres, and corporate environments.

POWERFUL LOWS

RCF subwoofers are the first choice of many sound engineers, due to their very high SPL levels at very low frequencies, smaller dimensions compared to the competitors, and impressive size/weight to SPL output ratio. Your audience will enjoy an engaging immersive musical experience.

STATE OF THE ART TRANSDUCERS

The low-frequency transducers are a 10", 12" and a 15" high-power woofers, both with a 2.5" voice coil. Their design is the result of the latest refinements in compact subwoofers production, resulting in a fast and controlled reproduction of the bass frequency range.

MULTIPURPOSE SOUND

Elegant design aesthetic, multiple formats and RCF signature sound quality that allows to deliver a supreme audio experience in any application, from restaurant and retail shops to clubs, corporate spaces and venues.

IMPROVE THE AUDIO ATMOSPHERE

Music helps engagement and will improve the hospitality of your activity, especially if the perceived sound quality is higher. This is the aim of RCF SUB S Series - optimal performance in both background music and high-powered foreground audio.





Case Study
BOX. Nottingham, UK.



Link

SPECIFICATIONS



	S 15	S 12	S 10
Acoustical specifications			
Frequency Response (-10dB):	35 Hz - 200 Hz	40 Hz - 200 Hz	45 Hz - 200 Hz
Max SPL @ 1m:	126 dB	125 dB	124 dB
System Sensitivity:	95 dB	93 dB	92 dB
Power section			
Amplification:	Full Range	Full Range	Full Range
Nominal Impedance:	8 ohm	8 ohm	8 ohm
Power Handling:	500 W RMS	400 W RMS	400 W RMS
Peak Power Handling:	2000 W PEAK	1600 W PEAK	1600 W PEAK
Transducers			
Woofer:	1 x 15", 3.0" v.c	1 x 12", 2.5" v.c	1 x 10", 2.5" v.c
Input/Output section			
Input connectors:	Euroblock	Euroblock	Euroblock
Output connectors:	Euroblock	Euroblock	Euroblock
Standard compliance			
Safety agency:	CE compliant	CE compliant	CE compliant
Physical specifications			
Cabinet/Case Material:	Plywood	Plywood	Plywood
Hardware:	12 x M10	12 x M10	12 x M10
Pole mount/Cap:	M20 thread	M20 thread	M20 thread
Grille:	Steel with clothing	Steel with clothing	Steel with clothing
Color:	Black	Black	Black
Size / Weight			
Height:	443 mm / 17.44 inches	373 mm / 14.69 inches	318 mm / 12.52 inches
Width:	630 mm / 24.8 inches	530 mm / 20.87 inches	450 mm / 17.72 inches
Depth:	500 mm / 19.69 inches	425 mm / 16.73 inches	360 mm / 14.17 inches
Weight:	27.5 kg / 60.63 lbs	24.6 kg / 54.23 lbs	19.6 kg / 43.21 lbs
Part Number	13000667	13000618	13000617

ACCESSORIES

UPGRADE KITS

PNL IN-OUT AMPHENOL	12399063
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PNL IN-OUT AMPHENOL is an optional panel that allows to switch input/output connectors to AMPHENOL IP 67, making them fully weatherproof. This can be done easily thanks to the single connector on the back.

PNL IN-OUT SPEAKON	12399062
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PNL IN-OUT is an optional panel that allows to switch from EUROBLOCK to SpeakON input / output connectors. This can be done easily thanks to the single connector on the back.



Link

SUB SERIES

ACOUSTICA SERIES

The legendary subwoofer line boasts low-frequency power and precision for your sound system.

POWERFUL LOW-FREQUENCY FOUNDATION

The SUB Subwoofers Series delivers deep, controlled bass in compact enclosures, designed for permanent installations in clubs, theatres, and outdoor environments.

ADVANCED RCF TRANSDUCERS

Equipped with high-efficiency RCF Precision woofers featuring high-performance Inside/Outside voice coils and hyper-vented magnet assemblies, these subs ensure maximum reliability, low power compression, and consistent output under continuous use.

HIGH OUTPUT AND EXTENDED RESPONSE

With frequency extension down to 35 Hz and maximum SPL levels up to 133 dB, the series provides tight, impactful low end that rivals much larger systems, supporting both music playback and live performance applications.

RUGGED INSTALLATION-READY DESIGN

Constructed from Baltic birch plywood with durable textured coatings, reinforced steel grilles, integrated handles, pole mounts, and NL4 connectors, these subwoofers are built to withstand demanding installations while ensuring easy integration and long-term reliability.





Case Study

MainRo. Los Angeles, California, USA.



Link

SPECIFICATIONS



	S 8028 II	S 8018 II	S 8015 II
Acoustical specifications			
Frequency Response (-10dB):	30 Hz - 200 Hz	30 Hz - 200 Hz	35 Hz - 200 Hz
Max SPL @ 1m:	141 dB	137 dB	133 dB
System Sensitivity:	101 dB	100 dB	98 dB
Power section			
Amplification:	Full Range	Full Range	Full Range
Nominal Impedance:	4 ohm	8 ohm	8 ohm
Power Handling:	3000 W	1500 W	1500 W
Peak Power Handling:	12000 W PEAK	6000 W PEAK	6000 W PEAK
Transducers			
Woofer:	2 x 18", 4.0" v.c	18" neo, 4.0" v.c	15" neo, 4.0" v.c
Input/Output section			
Input connectors:	Speakon® NL4	Speakon® NL4	Speakon® NL4
Output connectors:	Speakon® NL4	Speakon® NL4	Speakon® NL4
Standard compliance			
Safety agency:	CE compliant	CE compliant	CE compliant
Physical specifications			
Cabinet/Case Material:	Baltic birch plywood	Baltic birch plywood	Baltic birch plywood
Handles:	Integrated hand carry points	Integrated hand carry points	Integrated hand carry points
Pole mount/Cap:	M20 thread	M20 thread	M20 thread
Grille:	Metal	Metal	Steel
Color:	Black	Black	Black
Size / Weight			
Height:	639 mm / 25.16 inches	639 mm / 25.16 inches	529 mm / 20.83 inches
Width:	1045 mm / 41.14 inches	530 mm / 20.87 inches	440 mm / 17.32 inches
Depth:	770 mm / 30.31 inches	770 mm / 30.31 inches	615 mm / 24.21 inches
Weight:	80 kg / 176.37 lbs	43 kg / 94.8 lbs	34 kg / 74.96 lbs
Part Number	13000391	13000390	13000398



S 8015LP

43 Hz - 250 Hz

135 dB

99 dB

Full Range

8 ohm

800 W

3200 W PEAK

15", 4.0" v.c

Speakon® NL4

Speakon® NL4

CE compliant

Baltic birch plywood

-

-

-

Black

310 mm / 12.2 inches

900 mm / 35.43 inches

380 mm / 14.96 inches

25.2 kg / 55.56 lbs

13000168



[Link](#)

SUB SERIES

ULTRA-COMPACT SUBWOOFERS

High-power subwoofers designed for installations requiring ultra-compact enclosures. The S 08-A active subwoofer—with a built-in mixer and power outputs—and its matching passive sub, the S 08, are ideal for high-quality multimedia and music playback in clubs, bars, cafes, theaters, and corporate settings.

The S 08-A is a self-powered, compact subwoofer system designed to deliver impactful performance in a space-saving enclosure, making it an ideal choice for clubs, bars, theaters, and corporate spaces. It features an 8" woofer, a powerful 4 x 250-watt amplifier, and a fully integrated mixer. Three power outputs allow driving two satellite speakers and an additional subwoofer. Bluetooth connectivity enables seamless audio streaming from any mobile device, complemented by traditional RCA, 4 combo inputs (2 mic), and 3.5mm jack inputs. The S 08-A offers eight equalization presets optimized for both music and voice reproduction. Specific crossover filter values ensure smooth integration with a wide range of RCF speaker models for maximum application flexibility.

ALL IN ONE SOLUTION

S 08-A is a self-powered music system providing all those features required for a complete environment sonorization. It features a four channel class D amplifier able to power the integrated 8" woofer, 2 satellites lines for both mono and stereo applications, and an additional passive S 08 subwoofer. Line and mic inputs can be mixed in an optimized way balancing each single level.

INTEGRATED BLUETOOTH

Bluetooth connectivity allows audio streaming from any mobile device, and comes alongside traditional RCA, combo XLR and 3.5mm jack connectors.

HIGH POWER OUTPUT

Superior and incredible SPL levels both in open air at a long distance.

ULTRA DEEP BASS SOUND

The integrated subwoofer features a professional high power 8" woofer offering great bass sound and low frequency punch. A dedicated power output allows for connecting an additional S 08.

SPEAKER EQ

S 08-A offers 8 different equalizations, optimized for music and voice reproduction. Specific HI-PASS filter values allow to combine the system with a wide range of RCF speaker models, ensuring high application flexibility.

HIGH PERFORMANCE SYSTEM

Ideal for those installations where a great sound impact with physical small size is desired. The extended frequency response and efficient design make it capable to provide output levels normally associated with considerably larger enclosures.





SPECIFICATIONS



	S 08-A
Acoustical specifications	
Amplifier Class	D
Output Power	4 x 250 W @ 4 ohm 4 x 250 W @ 8 ohm
Frequency Response (-3dB)	20 Hz - 20000 Hz
Transducers	
Woofer	1 x 8", 1.5" v.c
Input section	
Total number of inputs	4
Mic inputs	2
Mic connectors	Combo XLR/Jack
Line inputs	2
Line connectors	Combo XLR/Jack, JACK, RCA
Output section	
Power output connectors	Euroblock
Processing	
DSP	Yes
EQ Filters	8 different equalizations, optimized for music and voice reproduction
Configuration and control	
Configuration	Front panel
Number of programs/presets	8
Protections	
	Short circuit, Thermal, DC, Fuses, VHF (Very High Frequencies)
Audio sources	
Bluetooth	Yes
Power requirement	
Operating voltage	90-240 V~ 50/60Hz
Standard compliance	
Safety agency	CE compliant
Physical specifications	
Cabinet/Case Material	Plywood
Grille	Steel with clothing
Color	Black
Size / Weight	
Height:	319 mm / 12.56 inches
Width:	370 mm / 14.57 inches
Depth:	337 mm / 13.27 inches
Weight:	10.2 kg / 22.49 lbs
Part Number	
90-240V	13000936

SPECIFICATIONS



	S 08
Acoustical specifications	
Frequency Response (-10dB)	40 Hz - 160 Hz
Max SPL @ 1m	110 dB
System Sensitivity	92 dB
Power section	
Amplification	Full Range
Nominal Impedance	4 ohm
Power Handling	120 W RMS
Peak Power Handling	480 W PEAK
Transducers	
Woofer	1 x 8", 1.5" v.c
Input/Output section	
Input connectors	Euroblock
Output connectors	Euroblock
Standard compliance	
Safety agency	CE compliant
Physical specifications	
Cabinet/Case Material	Plywood
Grille	Steel with clothing
Color	Black
Size / Weight	
Height:	319 mm / 12.56 inches
Width:	370 mm / 14.57 inches
Depth:	337 mm / 13.27 inches
Weight:	8.7 kg / 19.18 lbs
Part Number	
90-240V	13000937

XPS SERIES

HIGH-POWER 4-CHANNEL DSP AMPLIFIERS

XPS provides extreme power density in 2 RU space for both touring and installed sound systems. The unit features 4 analog and digital AES/EBU inputs/outputs, a Dante Network ready design, and complete signal processing, tuning, and routing capability all at 96 kHz.

POWER YOU CAN TRUST

RCF's effort in assisting both installers and sound providers with the best audio technology and clear, powerful sound is at the core of the company's beliefs. Since 1949, providing both power amplifiers and transducers to the professional market, the RCF experience marks a new milestone with XPS.

FULLY SELF-PROTECTING AND DESIGNED ON AN "AUDIO-AT-ALL-TIMES" PRINCIPLE

XPS is self-protected and continues to operate regularly in challenging conditions. All fault protection features are implemented individually for each channel. The universal power supply adapts to a wide range of AC power, from 110 VAC single-phase to 380 VAC three-phase @50/60 Hz, allowing their use in many different countries and venues.

NEW ATTITUDE IN SOUND MANAGEMENT

XPS supports the RCF philosophy with a power-agnostic approach, where the sound system engineer has complete freedom in choosing powered, or externally amplified, modules for their system. XPS offers a new solution for balancing portability, weight, ease of installation, cabling, fast setup speed, and complete remote management of each connected device, via RNet.

INTUITIVE OPERATION

A large 4.3" TFT color capacitive touchscreen provides full operational control of the amplifier. The user interface is clear and easy to navigate, providing large touch buttons and a practical edit knob, with high-contrast menus designed to avoid any ambiguity in very bright, or sunny environments. Proprietary RNet Over Ethernet Management Network and OSC protocol compatibility allow the sound system engineer to have complete remote control of the amplifier.

QUALITY POWER FOR FIXED SOUND SYSTEMS

XPS Series is the best choice for high-power installation systems such as auditoriums, theme parks, and performance venues. Whether perfectly integrating with RCF passive speakers with ready-to-use presets, XPS provides installation-specific features, including enhanced system status monitoring, GPIOs for extended capabilities, flexible routing, and perfect integration with our proprietary RNet management platform.

FINE TUNING FEATURES

The XPS digital architecture features advanced proprietary FIRPHASE filters, BMC woofer excursion management, fine-tuning algorithms such as BASS Shaper, Air Compensation and Mid-Low Correction. The amplifier includes output delays of up to 4000ms in increments of 0.10 ms and various filters and crossovers, such as Dynamic PEQ and High/Low-pass filters.

DIGITAL SIGNAL PROCESSING

Combining high-quality AD/DA converters at 96 kHz, two 40-bit floating-point SHARC DSP chips running at 96 kHz for audio processing and two more 32-bit DSP chips for signal routing, the internal DSP board ensures linear and low-noise operation over the entire frequency range.

SCALABLE XPS ECOSYSTEM

XPS 4K belongs to the scalable XPS platform, with a consistent RNet workflow and preset-driven system tuning across the range. From compact 2U deployments to higher-density solutions such as XPS 16K for up to 16,000 Watts continuous power, the ecosystem enables standardized monitoring, control, and system optimization while scaling to the needs of each project.





Case Study

Morgan Wallen's This Bar. Nashville, USA.



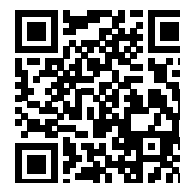
Link

SPECIFICATIONS



	XPS 16K	XPS 16KD	XPS 4K	XPS 4KD
Amplifier specifications				
Amplifier Class	D		D	
Output Power (EIAJ 8:32 all channels driven)	4 x 4000 W @ 2.7 ohm 4 x 2600 W @ 4 ohm 4 x 1400 W @ 8 ohm		4 x 1000 W @ 4 ohm 4 x 700 W @ 8 ohm	
Frequency Response (-3dB)	20 Hz - 23000 Hz		20 Hz - 23000 Hz	
SNR Analog inputs (unweighted)	>111 dB		>108 dB	
SNR Digital inputs (unweighted)	>115 dB		>112 dB	
Crosstalk	<70 dB		<70 dB	
Distortion (THD+N) (20 Hz - 20000 Hz, 1000 W @ 4 ohm)	<0.2 %		<0.2 %	
Gain (linear mode @ 0 dB)	32 dB		32 dB	
Damping factor (@ 4 ohm, 20 Hz - 1500 Hz)	>95		>200	
Max burst length (@ 50 Hz, CF = 7 dB, 4 ohm, 1% THD+N)	200 ms		100 ms	
Input section				
Total number of inputs	8	16	8	16
Line inputs	4		4	
Line connectors	XLR		XLR	
Digital inputs	4	12	4	12
Digital connectors	XLR	Ethercon, XLR	XLR	Ethercon, XLR
Digital type	AES/EBU	AES/EBU, DANTE	AES/EBU	AES/EBU, DANTE
General Purpose Inputs (GPI)	2		2	
Programmable GPI	Yes		Yes	
Photo-coupled GPI	2		2	
Output section				
Signal output number	4		4	
Signal output connectors	XLR		XLR	
Power output connectors	Speakon		Speakon	
General Purpose Outputs (GPO)	3		3	
Programmable GPO	Yes		Yes	
Processing				
DSP	2 SHARC, 40-bit floating point, 96 kHz 2 ADAU, 32-bit fixed point, 96 kHz		2 SHARC, 40-bit floating point, 96 kHz 2 ADAU, 32-bit fixed point, 96 kHz	
EQ Filters	Peaking HI/LO-shelving HI/LO-pass (Butterworth, Linkwitz-Riley, Bessel)		Peaking HI/LO-shelving HI/LO-pass (Butterworth, Linkwitz-Riley, Bessel)	
Advanced algorithms	FIRPHASE technology BASS shaper Air compensation Mid-low correction Driver excursion control	Dynamic PEQ multi-band Compressor Pilot tone detection Backup recovery strategy Impedance load measurement	FIRPHASE technology BASS shaper Air compensation Mid-low correction Driver excursion control	Dynamic PEQ multi-band Compressor Pilot tone detection Backup recovery strategy Impedance load measurement
Compressors	RMS limiter dynamic compressor power limiter thermal compressor		RMS limiter dynamic compressor power limiter thermal compressor	
Delay	0 - 4000 ms (each channel)		0 - 4000 ms (each channel)	
Tone controls	Yes		Yes	
High-pass filter	10 Hz - 1000 Hz		10 Hz - 1000 Hz	
Crossover	2500 - 3500 Hz		2500 - 3500 Hz	
Automatic Gain Control (ACG)	Yes		Yes	
Configuration and control				
Configuration	Front panel touch screen, PC Software		Front panel touch screen, PC Software	
Network	Gigabit ethernet		Gigabit ethernet	
RCF speakers presets	Yes		Yes	
Priority	Yes		Yes	
RDNet	Onboard		Onboard	
Protections	Cooling (Forced) Short circuit Thermal DC Fuses VHF (Very High Frequencies)		Cooling (Forced) Short circuit Thermal DC Fuses VHF (Very High Frequencies)	

		XPS 16K	XPS 16KD	XPS 4K	XPS 4KD
Operating conditions					
Temperature range - Continuous operation		-5°C - +40°C / +23°F - +104°F		-5°C - +40°C / +23°F - +104°F	
Temperature range - Reduced output power		-5°C to +50°C / +23°F to +122°F		-5°C to +50°C / +23°F to +122°F	
Fan noise idle		<35 dBA		<28 dBA	
Fan noise max		<64 dBA		<48 dBA	
Power requirement					
Operating voltage		90-240 V~ 50/60Hz		90-240 V~ 50/60Hz	
Nominal current AC @ 100-120 V		30 A		14 A	
Nominal current AC @ 220-240 V		16 A		8 A	
Stand by power consumption		20 W		30 W	
Idle power consumption		90 W		100 W	
Power consumption		5800 W		2600 W	
Main fuse		Internal		Internal	
Fuses Model		-	F 315 mA H 100 V	-	
Standard compliance					
Safety agency		CE compliant, UL 62368-1, 3rd Ed. CSA C22.2 No. 62368-1:19, 3rd Ed.		CE compliant	
Physical specifications					
Cabinet/Case Material		Metal		Metal	
Handles		2 metal handles for rack mount		2 metal handles for rack mount	
Color		Black - RAL 9005		Black - RAL 9005	
Rack mounting		19", 2U		19", 2U	
Size / Weight					
Height		88.7 mm / 3.49 inches		88.7 mm / 3.49 inches	
Width		482 mm / 18.98 inches		482 mm / 18.98 inches	
Depth		482.4 mm / 18.99 inches		482.4 mm / 18.99 inches	
Weight		15 kg / 33.07 lbs		11 kg / 24.25 lbs	
Part Number					
90-240 V	EU	12100037	12100064	12100083	12100084
90-240 V	US	12100074	12100075	12100085	12100086
90-240 V	UK	12100076	12100077	12100125	12100126



Link

XPS SERIES

KPS SERIES

MULTICHANNEL DSP AMPLIFIERS

High-density installation-specific multichannel amplifiers with adaptable power allocation across outputs, Advanced Processing and Flexible Matrix Routing.

MULTIPURPOSE SOUND SOLUTION

The KPS Series Class-D multichannel amplifiers for professional audio installations are designed to offer maximum flexibility in complex and demanding scenarios such as conference centers, corporate systems, retail environments, theme parks, and museums.

KPS amplifiers provide 160 W and 800 W per channel, available in 2-, 4-, and 8-channel configurations, with dynamic and asymmetric power allocation between channels without having to bridge channels or lose channel count. Outputs can be configured for low-impedance (2.7, 4 and 8 ohms) or high-impedance (70 / 100 V) systems.

ONBOARD DSP

The powerful onboard DSP enables precise and optimized signal processing in all situations, along with complete management of the input/output matrix. In addition, the preset library for RCF speakers makes KPS amplifiers a ready-to-use solution. Configuration is enabled through the RCF RDSpace software, available as both a desktop application and a web-based version accessible from mobile devices such as smartphones and tablets. In this mode, direct access to devices is also possible without the need for a network switch, thanks to native Wi-Fi connectivity. The device features an integrated wireless access point, enabling straightforward Wi-Fi configuration directly on the unit—no external access point required.

FLEXIBLE ROUTING AND INTEGRATION

In addition to balanced and unbalanced analog inputs, KPS amplifiers feature an S/PDIF digital input that can be forwarded to subsequent units, creating a common audio bus.

Every KPS Series model can be ordered with an integrated Audinate Dante™ audio-over-IP interface, providing bidirectional, low-latency, lossless multichannel audio transport over standard Ethernet infrastructure. The units enable seamless integration with automation ecosystems such as Q-SYS, AMX, Crestron, or Control4.

INTELLIGENT POWER ALLOCATION

The KPS 16X Series delivers class-leading power density, packing four independent 160 W RMS channels into a compact 1 U, half-rack-width chassis. Its intelligent power-sharing architecture can re-allocate up to 300 W to any individual channel, giving installers the freedom to distribute power asymmetrically across outputs without engaging bridge mode or sacrificing channel count—perfect for optimising headroom when driving RCF loudspeakers.

GLOBAL OPERATIONAL SAFETY

A universal, regulated switch-mode power supply (SMPS) with Power Factor Correction (PFC) and integral standby converter automatically adapts to any mains voltage from 100 V to 240 V, 50 – 60 Hz, delivering stable power worldwide. Comprehensive protection circuitry shields the unit from short circuits, DC offsets, high-frequency faults, undervoltage, excessive temperature, and overload conditions.



RDSpace

Control Software Platform

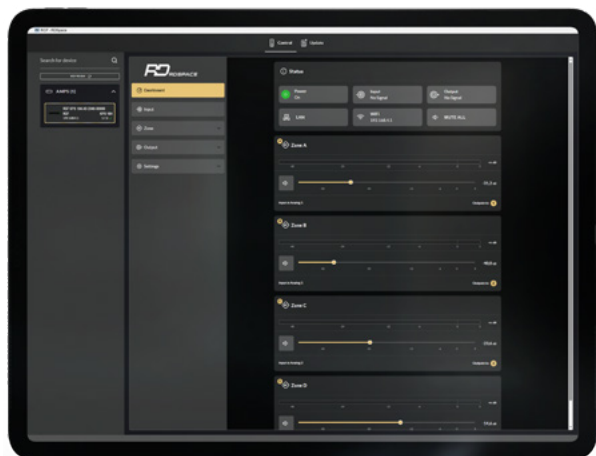


RDSpace is an adaptive software for managing KPS amplifiers in professional audio systems. Through a single interface, users can handle every stage of deployment—input routing, zone definition, output optimization, and speaker calibration—with real-time monitoring. The software scales smoothly from small venues to large, multi-zone networks, giving operators quick access to presets or deeper configuration tools as the project demands.

RDSpace allows management of linear-phase FIR filtering, speaker presets and user presets, flexible routing, parametric EQ, precision delay, and full device control. All configuration and monitoring take place in a single application, with the same unified interface, giving operators complete command of the entire audio system from every screen.

MULTI ZONES WALL CONTROLLER

The RC KPS is a wall-mounted, networked PoE controller designed for RCF KPS amplifiers that provide input selection and volume control. Its minimalist design uses high-performance polymer with a touch-friendly matte finish and concealed screws and offers dark and light display color schemes, brightness settings, and button backlight options, supports instant network pairing and configuration via RDSpace.



- Input mixing
- Speaker presets
- Multi-Zone setup
- End-user control
- Priority and ducking
- Input and output EQ
- S/PDIF output routing
- High-pass filter
- Compressors
- Limiters
- Delay
- In-room controller configuration

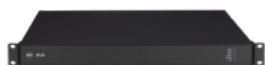
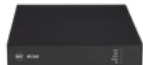
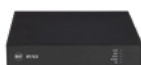


SPECIFICATIONS



	KPS 808	KPS 808D	KPS 804	KPS 804D	KPS 802	KPS 802D
Acoustical specifications	D		D		D	
Amplifier Class						
Output Power (all channels driven)	8 x 800 W @ 2 ohm 8 x 800 W @ 4 ohm 8 x 400 W @ 8 ohm 4 x 1600 W @ 4 ohm (bridge) 4 x 1600 W @ 8 ohm (bridge)		4 x 800 W @ 2 ohm 4 x 800 W @ 4 ohm 4 x 400 W @ 8 ohm 2 x 1600 W @ 4 ohm (bridge) 2 x 1600 W @ 8 ohm (bridge)		2 x 800 W @ 2 ohm 2 x 800 W @ 4 ohm 2 x 400 W @ 8 ohm 1 x 1600 W @ 4 ohm (bridge) 1 x 1600 W @ 8 ohm (bridge)	
Output power @ 100 V	4 x 1600 W @ 100 V		2 x 1600 W @ 100 V		2 x 1600 W @ 100 V	
Output power @ 70 V	4 x 1200 W @ 70 V		2 x 1200 W @ 70 V		2 x 1200 W @ 70 V	
Frequency Response (-3dB)	20 Hz - 20000 Hz		20 Hz - 20000 Hz		20 Hz - 20000 Hz	
SNR Analog inputs ("A" weighted)	>108 dB		>108 dB		>108 dB	
SNR Digital inputs ("A" weighted)	>108 dB		>108 dB		>108 dB	
Distortion (THD+N) (20 Hz - 20000 Hz, 400 W @ 8 ohm)	<0.05 %		<0.05 %		<0.05 %	
Input section						
Total number of inputs	9 13		5 9		5 9	
Mic+Line inputs	8		4		4	
Mic+Line connectors	Euroblock, RCA		Euroblock, RCA		Euroblock, RCA	
Digital inputs	1		1		1	
Digital connectors	RCA		RCA		RCA	
Digital type	S/PDIF DANTE, S/PDIF		S/PDIF DANTE, S/PDIF		S/PDIF DANTE, S/PDIF	
General Purpose Inputs (GPI)	5		4		4	
Programmable GPI	Yes		Yes		Yes	
Output section						
Signal output number	1		1		1	
Signal output connectors	RCA		RCA		RCA	
Power output connectors	Euroblock		Euroblock		Euroblock	
General Purpose Outputs (GPO)	5		5		5	
Programmable GPO	Yes		Yes		Yes	
Processing						
DSP	Yes		Yes		Yes	
Configuration and control						
Software Platform	RDSpace		RDSpace		RDSpace	
Network	Ethernet		Ethernet		Ethernet	
RCF speakers presets	Yes		Yes		Yes	
Priority	Yes		Yes		Yes	
Protocols for system integration	AMX, Control4, Elan, Q-SYS, RTI, Symetrix, URC		AMX, Control4, Elan, Q-SYS, RTI, Symetrix, URC		AMX, Control4, Elan, Q-SYS, RTI, Symetrix, URC	
Protections						
Cooling	Forced		Forced		Forced	
Short circuit, Thermal, DC, Fuses, VHF (Very High Frequencies)	Yes		Yes		Yes	
Power requirement						
Operating voltage	90-240 V~ 50/60Hz		90-240 V~ 50/60Hz		90-240 V~ 50/60Hz	
Power consumption	1400 W		700 W		350 W	
Standard compliance						
Safety agency	CE compliant, UL62368-1		CE compliant, UL62368-1		CE compliant, UL62368-1	
Physical specifications						
Cabinet/Case Material	Metal		Metal		Metal	
Rack mounting	19", 2U *		19", 2U *		19", 2U *	
Size / Weight						
Height:	88 mm / 3.46 inches		88 mm / 3.46 inches		88 mm / 3.46 inches	
Width:	483 mm / 19.02 inches		483 mm / 19.02 inches		483 mm / 19.02 inches	
Depth:	414 mm / 16.3 inches		320 mm / 12.6 inches		320 mm / 12.6 inches	
Weight:	11.6 kg / 25.57 lbs		7.4 kg / 16.31 lbs		5.9 kg / 13.01 lbs	
Part Number						
EU 90-240 V	12100098	12100099	12100096	12100097	12100094	12100095
US 90-240 V	12100122	12100123	12100120	12100121	12100118	12100119





KPS 168 | KPS 168D

KPS 164 | KPS 164D

KPS 162 | KPS 162D

D		D		D	
8 x 160 W @ 4 ohm 8 x 160 W @ 8 ohm 4 x 320 W @ 8 ohm (bridge)		4 x 160 W @ 4 ohm 4 x 160 W @ 8 ohm 2 x 320 W @ 8 ohm (bridge)		2 x 160 W @ 4 ohm 2 x 160 W @ 8 ohm 1 x 320 W @ 8 ohm (bridge)	
4 x 320 W @ 100 V 4 x 320 W @ 70 V 20 Hz - 20000 Hz >106 dB >106 dB <0.05 %		2 x 320 W @ 100 V 2 x 320 W @ 70 V 20 Hz - 20000 Hz >106 dB >106 dB <0.05 %		1 x 320 W @ 100 V 1 x 320 W @ 70 V 20 Hz - 20000 Hz >106 dB >106 dB <0.05 %	
9	13	5	9	5	9
8		4		4	
Euroblock, RCA		Euroblock, RCA		Euroblock, RCA	
1		5		1	
RCA		RCA		RCA	
S/PDIF	DANTE, S/PDIF	S/PDIF	DANTE, S/PDIF	S/PDIF	DANTE, S/PDIF
5		4		5	
Yes		Yes		Yes	
1		1		1	
RCA		RCA		RCA	
Euroblock		Euroblock		Euroblock	
5		5		5	
Yes		Yes		Yes	
Yes		Yes		Yes	
RDSpace		RDSpace		RDSpace	
Ethernet		Ethernet		Ethernet	
Yes		Yes		Yes	
Yes		Yes		Yes	
AMX, Q-SYS, Symetrix, RTI, Elan		AMX, Q-SYS, Symetrix, RTI, Elan		AMX, Q-SYS, Symetrix, RTI, Elan	
Forced		Forced		Forced	
Yes		Yes		Yes	
90-240 V~ 50/60Hz 300 W		90-240 V~ 50/60Hz 150 W		90-240 V~ 50/60Hz 75 W	
CE compliant, UL62368-1		CE compliant, UL62368-1		CE compliant, UL62368-1	
Metal		Metal		Metal	
19", 1U		1/2 19", 1U *		1/2 19", 1U *	
44 mm / 1.73 inches 483 mm / 19.02 inches 319 mm / 12.56 inches 3.8 kg / 8.38 lbs		44 mm / 1.73 inches 220 mm / 8.66 inches 319 mm / 12.56 inches 2.8 kg / 6.17 lbs		44 mm / 1.73 inches 220 mm / 8.66 inches 213 mm / 8.39 inches 2 kg / 4.41 lbs	
12100092	12100093	12100090	12100091	12100088	12100089
12100116	12100117	12100114	12100115	12100112	12100113

ACCESSORIES

ELECTRONICS

RC KPS US - W	12399117
Wall mount remote control.	
RC KPS US - B	12399116
Wall mount remote control.	
RC KPS EU - W	12399115
Wall mount remote control.	
RC KPS EU - B	12399114
Wall mount remote control.	

RC KPS US



RC KPS EU



RACK COMPONENT

RMK KPS	13360743
RMK KPS allows to install KPS amplifiers with 1/2 rack unit size into a standard 19" rack cabinet. The kit includes all those parts necessary to install one or two KPS units in the same rack slot.	
RRB KPS	13360746
RRB KPS offers a rear rack mount for KPS 1/2 rack unit amplifiers. It is particularly useful in all circumstances where absolute stability of the devices in the rack cabinet is required (e.g. during transport).	
WMK KPS	13360744
WMK KPS allows to install KPS amplifiers with 1/2 rack unit size on a wall, a ceiling or under a desk. It is particularly useful for distributed installation in complex environments.	



DMA SERIES

DIGITAL MATRIX AMPLIFIERS

Compact Class-D amplifiers equipped with a powerful DSP platform and remote control, ideal for a wide range of install applications.

FULL ON-BOARD PROCESSING

Equipped with a powerful DSP platform, DMA units integrate RCF advanced proprietary technologies, conceived to optimize speaker performance:

- FiRPHASE - FiR filtering technology
- BASS ENHANCER, a sophisticated algorithm that increases low frequencies perception.

PROCESSING FEATURES

Processing features include low-pass filters, hi-pass filters, 8 PEQ, high shelf, limiter, and gain.

SCALABLE ARCHITECTURE

To fit with any installation need, DMA amplifiers have been designed with a highly scalable architecture and each device can distribute 4 audio channels to satellite units. This allows increasing installed power and creating a multi-room architecture. The connection can be done with just 1 CAT5e cable. Each satellite unit can be differently set using the DIP-SWITCH on the rear panel to receive the desired channels.

ROBUST AND ATTRACTIVE DESIGN

Thanks to their attractive design, extremely compact size and environmental robustness, DMA represent a junction point between professional and consumer markets.

EASY AND FLEXIBLE CONFIGURATION

The configuration is a key point for the success of sound reinforcement systems: it's easy and flexible for any kind of user, from the less to the more skilled one. DMA amplifiers offer different configuration levels, from user-friendly front panel control interface to RDNet, for large and complex systems.

SPEAKERS PRESETS

Processing functions are combined in a highly distinctive feature, SPEAKERS PRESETS, pre-loaded equalization packages optimizing the performance of any RCF speaker. Just select the speakers connected to the amplifier to automatically get the right RCF signature sound.



The **DMA CONNECT** app for Android and iOS provides wireless control of RCF DMA Series Business Music amplifiers. Thanks to its accurate and user-friendly interface, it gives access to DMA settings such as input and output levels, equalizers, routing, speaker presets selection, device information, and real-time VU-meters. Advanced settings for expert users are also available together with many useful features, including customizable names for input, outputs, and devices.

The app is available as a free download on Apple Store and Google Play store. It shall be used in combination with BT BOARD DMA, the additional board that connects DMA amplifiers to mobile devices over Bluetooth, allowing audio streaming and control.





Case Study

ŻeromPark Family Activity Center. Sosnowiec, Poland.



Link

SPECIFICATIONS



	DMA 504	DMA 162	DMA 82	DMA 162P
Acoustical specifications				
Amplifier Class	D	D	D	D
Output Power (EIAJ 8:32 all channels driven)	4 x 700 W @ 2.7 ohm 4 x 500 W @ 4 ohm 4 x 300 W @ 8 ohm 2 x 1100 W @ 4 ohm (bridge) 2 x 1000 W @ 8 ohm (bridge)	2 x 160 W @ 4 ohm 2 x 160 W @ 8 ohm 1 x 320 W @ 4 ohm (bridge) 1 x 320 W @ 8 ohm (bridge)	2 x 80 W @ 4 ohm 2 x 80 W @ 8 ohm 1 x 160 W @ 4 ohm (bridge) 1 x 160 W @ 8 ohm (bridge)	2 x 160 W @ 4 ohm 2 x 160 W @ 8 ohm 1 x 320 W @ 4 ohm (bridge) 1 x 320 W @ 8 ohm (bridge)
Output power @ 70 V	2 x 1000 W @ 70 V	1 x 320 W @ 70 V	1 x 160 W @ 70 V	1 x 320 W @ 70 V
Frequency Response (-3dB)	20 Hz - 20000 Hz	20 Hz - 20000 Hz	20 Hz - 20000 Hz	20 Hz - 20000 Hz
SNR Analog inputs ("A" weighted)	-	-	-	>93 dB
Distortion (THD+N) @ 1 kHz nominal power	<0.05 %	<0.01 %	<0.01 %	<0.01 %
Input/Output section				
Total number of inputs	5	5	5	6
Balanced	2	2	2	4
Unbalanced	3	3	3	2
Mono	2	2	2	4
Stereo	3	3	3	2
Line inputs	3	3	3	6
Line connectors	JACK, Picoflex, RCA	JACK, Picoflex, RCA	JACK, Picoflex, RCA	JACK, Picoflex, RCA
Mic+Line inputs	1	1	1	-
Mic+Line connectors	Euroblock	Euroblock	Euroblock	-
VOX	Yes	Yes	Yes	-
Paging inputs	1	1	1	-
Paging connectors	RJ45	RJ45	RJ45	-
Paging command	Contact	Contact	Contact	-
General Purpose Inputs (GPI)	1	1	1	2
Output section				
Signal output number	1	1	1	1
Signal output connectors	RCA	RCA	RCA	RCA
Power output connectors	Euroblock	Euroblock	Euroblock	Euroblock
Processing				
DSP, EQ Filters, FIR, Compressors, Tone controls	Yes	Yes	Yes	Yes
High-pass filter	80 Hz - 200 Hz	80 Hz - 200 Hz	80 Hz - 200 Hz	80 Hz - 200 Hz
Configuration and control				
Configuration	Front panel, PC Software	-	Front panel, PC Software	DIP switch, PC Software
RCF speakers presets	Yes	Yes	Yes	Yes
Protocols for system integration	Proprietary	-	-	-
Protections				
Cooling	Forced	Forced	Forced	Forced
Short circuit, Thermal, DC, Fuses, VHF (Very High Frequencies)	Yes	Yes	Yes	Yes
Power requirement				
Operating voltage	90-240 V~ 50/60Hz	90-240 V~ 50/60Hz	90-240 V~ 50/60Hz	90-240 V~ 50/60Hz
Power consumption	800 W	400 W	200 W	400 W
Standard compliance				
Safety agency	CE compliant	CE compliant, UL 62368-1	CE compliant, UL 62368-1	CE compliant, UL 62368-1
Physical specifications				
Cabinet/Case Material	Metal	Metal	Metal	Metal
Color	Black	Black	Black	Black
Rack mounting	19", 2U	1/2 19", 1U, Optional rack mounting accessory required	1/2 19", 1U, Optional rack mounting accessory required	1/2 19", 1U, Optional rack mounting accessory required

		DMA 504	DMA 162	DMA 82	DMA 162P
Size / Weight					
Height		96 mm / 3.78 inches	44 mm / 1.73 inches	44 mm / 1.73 inches	44 mm / 1.73 inches
Width		430 mm / 16.93 inches	213 mm / 8.39 inches	213 mm / 8.39 inches	213 mm / 8.39 inches
Depth		360 mm / 14.17 inches	314 mm / 12.36 inches	314 mm / 12.36 inches	304 mm / 11.97 inches
Weight		6.2 kg / 13.67 lbs	1.7 kg / 3.75 lbs	1.7 kg / 3.75 lbs	1.65 kg / 3.64 lbs
Part Number					
90-240 V	EU	12100035	12100027		12100028
90-240 V	US	12100048	12100041		12100042
90-240 V	UK	12100049	12100044		12100045



RC 401 EU



RC 401 US



BM 504

ACCESSORIES

ELECTRONICS

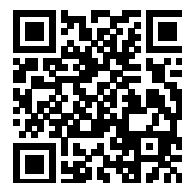
BT BOARD DMA	12399065
The BT BOARD is an additional board that allows to connect a DMA amplifier to a mobile device using Bluetooth technology.	
RDNET BOARD DMA	12399048
RDNET BOARD is an expansion board for DMA amplifiers units that instantly enables your devices into an RDNet network.	
BM 404	14322031
BM 404 is a desktop paging console that allows making selective calls to 4 zones.	
TRF-KIT DMA 162	12399069
TRF-KIT DMA 162 is a 2 line transformers kit that allows to convert each DMA 162 (or DMA 162P) amplifier low impedance speakers output into a 100V constant voltage line.	
TRF-KIT DMA 82	12399068
TRF-KIT DMA 82 is a 2 line transformers kit that allows to convert each DMA 82 amplifier low impedance speakers output into a 100V constant voltage line.	
RC 401 EU	12399051 (B)
	12399052 (W)
1 Volume & 2 Buttons equipped wall mount control panel for DMA 82 and DMA 162 units.	

ELECTRONICS

RC 401 US	12399053 (B)
	12399054 (W)
1 Volume & 2 Buttons equipped wall mount control panel for DMA 82 and DMA 162 units.	

RACK COMPONENTS

AR 1050	17360039
1 unit accessory for installation in RCF CR2600 series racks.	
RM-KIT DMA	13360426
RM-KIT DMA accessory provides mounting DMA amplifiers individually or two amps side by side in a standard 19" rack cabinets.	



Link

DMA SERIES

QPS SERIES

FOUR CHANNELS PROFESSIONAL POWER AMPLIFIERS

QPS Series is a range of four-channel professional amplifiers that combine high-quality performance and reliability with the latest power amplification technologies.

QPS Series products are high-performance, versatile power amplifiers for both touring and install applications, using sophisticated Class-HD topology with four single-channel outputs or one/two bridged outputs, parallel or stereo. Three dip-switches allow setting the maximum output voltage peak for each channel among eight values. High-efficiency heat sinks and variable-speed fans can withstand the most extreme heat conditions ensuring steady power output stability over time. High quality, low distortion audio output, RCF reliability, and industry-standard speakON connectors make QPS Series the hassle-free solution for sound systems and permanent installation applications.

- Fast response and low distortion
- Stereo, parallel, bridge modes
- Comprehensive protection circuits
- Variable speed cooling
- Signal, clip, fault led indicators
- Limiter on each channel

SELF-PROTECTING ARCHITECTURE

QPS amplifiers implement several safety strategies protecting both the amplifier and the sound system, including an effective peak limiting protection for the transducers. The temperature-controlled continuous variable speed double-fan system (front to back), combined with the high-efficiency heat sinks, allows the amplifier to maintain a safe, working temperature no matter the environmental temperature or the power output. The circuit is protected from overheating and short circuits, also including protections against infrasonic DC and Very High Frequency (VHF) peaks from non-musical signals that could damage transducers.

HD DESIGNED DRIVING POWER

Our HD amplifier technology features a very efficient power output section with a design focused on musicality, maintaining a natural and clear sound at all frequencies, with smooth highs and a tight, high impact low end. The power supply rails continuously track the input signal for remarkable signal purity while preserving the high efficiency of the Class-D design. QPS amplifiers are bridgeable and maintain high reliability with complex loads as low as 2 Ohms nominal.

REMARKABLE AUDIO PERFORMANCE

With a very high signal-to-noise ratio, QPS amplifiers also boast a very low total harmonic distortion, making it perfect for highly demanding music applications hence delivering perfect vocal intelligibility.

CUSTOMIZED QUALITY CONTROL

All amplifier modules are subjected to rigorous quality testing during the production process. Each device is quality controlled with automated equipment and human supervision. Our QC process ensures that every amplifier module performs best off the production line. This unique system ensures extremely tight quality loops, securing a high overall quality level.





Case Study
La Vela Sunrise. Caorle, Italy.

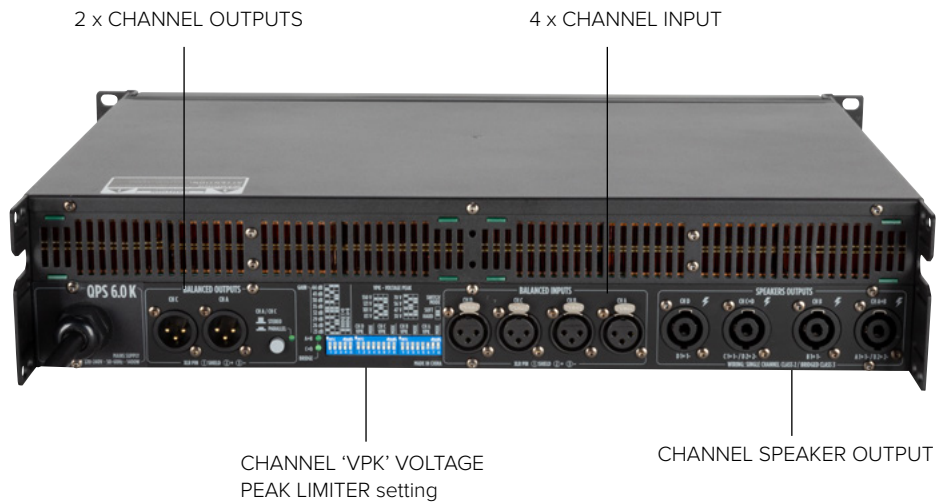


Link

SPECIFICATIONS



	QPS 10K	QPS 6.0K
Acoustical specifications		
Amplifier Class	HD	HD
Output Power	4 x 2500 W @ 2 ohm 4 x 2200 W @ 4 ohm 4 x 1400 W @ 8 ohm 2 x 5000 W @ 4 ohm (bridge) 2 x 4400 W @ 8 ohm (bridge)	4 x 1500 W @ 2 ohm 4 x 1300 W @ 4 ohm 4 x 700 W @ 8 ohm 2 x 3000 W @ 4 ohm (bridge) 2 x 2600 W @ 8 ohm (bridge)
Frequency Response (-3dB)	20 Hz - 20000 Hz	20 Hz - 20000 Hz
SNR Analog inputs ("A" weighted)	>110 dB	>110 dB
Crosstalk	<70 dB	<70 dB
Distortion (THD+N) @ 1 kHz nominal power	<0.05 %	<0.05 %
Input section		
Total number of inputs	4	4
Balanced	4	4
Mono	4	4
Line inputs	4	4
Line connectors	XLR	XLR
Output section		
Signal output number	2	2
Signal output connectors	XLR	XLR
Power output connectors	Speakon	Speakon
Configuration and control		
Configuration	DIP switch, Front panel	DIP switch, Front panel
Protections		
Cooling	Forced	Forced
Short circuit	Yes	Yes
Thermal	Yes	Yes
DC	Yes	Yes
Fuses	Yes	Yes
VHF (Very High Frequencies)	Yes	Yes
Power requirement		
Operating voltage	220-240/115 V~ 50/60Hz	220-240/115 V~ 50/60Hz
Power consumption	1900 W	1400 W
Standard compliance		
Safety agency	CE compliant	CE compliant
Physical specifications		
Cabinet/Case Material	Metal	Metal
Handles	Metal handles included in the front panel	Metal handles included in the front panel
Color	Black - RAL 9005	Black - RAL 9005
Rack mounting	19", 2U	19", 2U
Size / Weight		
Height	88 mm / 3.46 inches	88 mm / 3.46 inches
Width	483 mm / 19.02 inches	483 mm / 19.02 inches
Depth	399 mm / 15.71 inches	399 mm / 15.71 inches
Weight	14.2 kg / 31.31 lbs	13.7 kg / 30.2 lbs
Part Number		
220-240 V	12100057	12100055
100-120 V	12100058	12100056



[Link](#)

QPS series

IPS SERIES

TWO-CHANNEL PROFESSIONAL POWER AMPLIFIERS

IPS Series is a range of two-channel professional amplifiers that combine high-quality performance and reliability with the latest power technology.

ENERGIZE YOUR SOUND

IPS are high-performance, versatile 2U power amplifiers for install applications, using sophisticated Class-H topology for two single-channel outputs, two parallel outputs, or a single-channel bridge operativity. High quality, low distortion audio output, flawless reliability and safety, industry-standard speakON connectors, and binding post terminals make IPS Series electronics the workhorse solution for mobile sound systems and permanent installation applications.

- Fast response and low distortion
- Stereo, parallel, bridge modes
- Extensive protection circuits
- Variable speed cooling system
- Signal, clip, fault led indicators
- Limiter on each channel

SELF-PROTECTING ARCHITECTURE

IPS Amplifiers implement several safety strategies protecting both the amplifier and the sound system, including an effective peak limiting protection for the transducers. The temperature-controlled continuous variable speed double-fan system (front to back), combined with the high-efficiency heat sinks, allows the amplifier to maintain the optimal working temperature, no matter the environmental temperature or the power output. The circuit is protected from overheating and short circuits, also including protections against infrasonic DC and Very High Frequency (VHF) peaks from non-musical signals that could damage transducers.

THE ADVANTAGE OF CLASS H

Class-H amplifiers modulate the supply voltage to the amplifier output devices so that it is never higher than necessary to support the signal swing. This reduces dissipation across the output devices connected to that supply and allows the amplifier to operate with an optimized efficiency, regardless of output power level. Up to full power, a Class-H design will require less energy than a pure class AB design, and is better suited for high-power applications.

REMARKABLE AUDIO PERFORMANCE

With a very high signal-to-noise ratio, IPS amplifiers also boast a very low total harmonic distortion, making it perfect for highly demanding music applications hence delivering perfect vocal intelligibility.

CUSTOMIZED QUALITY CONTROL

All amplifier modules are subjected to rigorous quality testing during the production process. Each device is quality controlled with automated equipment and human supervision. Our QC process ensures that every individual amplifier module performs at best off the production line and into the box. This unique system ensures extremely tight quality loops, securing a high overall quality level.





Case Study
The Marina Fountain. Palermo, Italy.

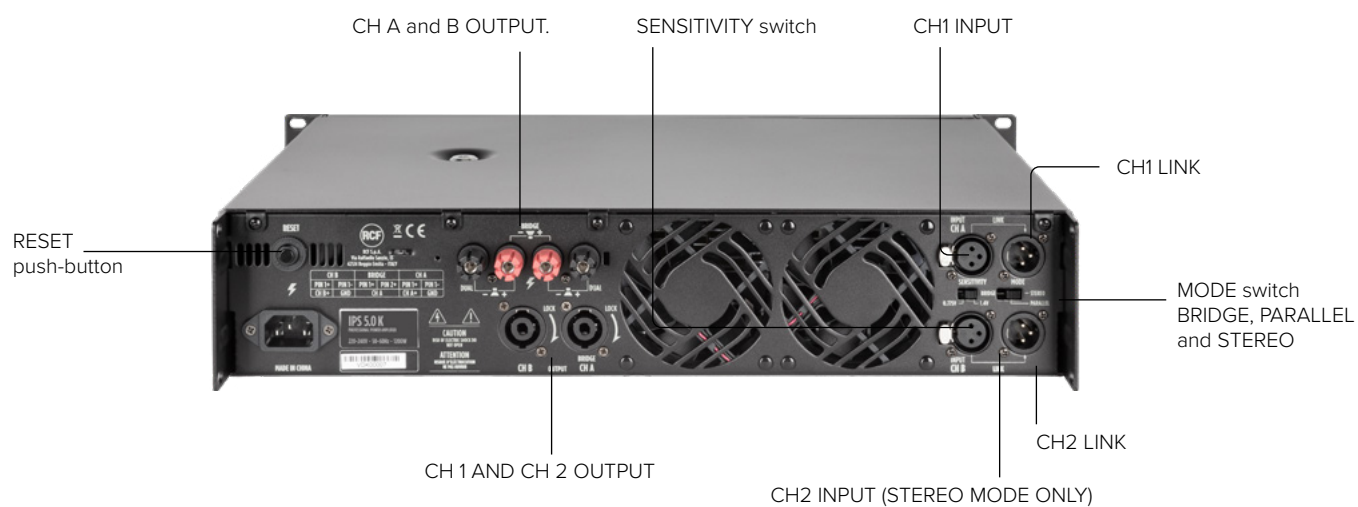
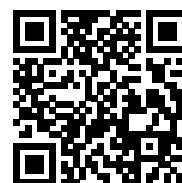


Link

SPECIFICATIONS



	IPS 5.0K	IPS 2.5K	IPS 1.5K
Acoustical specifications			
Amplifier Class	H	H	H
Output Power	2 x 2600 W @ 4 ohm 2 x 1500 W @ 8 ohm 1 x 5200 W @ 8 ohm (bridge)	2 x 1250 W @ 4 ohm 2 x 800 W @ 8 ohm 1 x 2500 W @ 8 ohm (bridge)	2 x 750 W @ 4 ohm 2 x 500 W @ 8 ohm 1 x 1500 W @ 8 ohm (bridge)
Frequency Response (-3dB)	20 Hz - 22000 Hz	20 Hz - 22000 Hz	20 Hz - 22000 Hz
Crosstalk	<70 dB	<80 dB	<73 dB
Distortion (THD+N) @ 1 kHz nominal power	<0.04 %	<0.01 %	<0.02 %
Input section			
Total number of inputs	2	2	2
Balanced	2	2	2
Mono	2	2	2
Line inputs	2	2	2
Line connectors	XLR	XLR	XLR
Output section			
Signal output number	2	2	2
Signal output connectors	XLR	XLR	XLR
Power output connectors	Binding Post, Speakon	Binding Post, Speakon	Binding Post, Speakon
Configuration and control			
Configuration	DIP switch, Front panel	DIP switch, Front panel	DIP switch, Front panel
Protections			
Cooling	Forced	Forced	Forced
Short circuit	Yes	Yes	Yes
Thermal	Yes	Yes	Yes
DC	Yes	Yes	Yes
Fuses	Yes	Yes	Yes
VHF (Very High Frequencies)	Yes	Yes	Yes
Power requirement			
Operating voltage	220-240/115 V~ 50/60Hz	220-240/115 V~ 50/60Hz	220-240/115 V~ 50/60Hz
Power consumption	1800 W	900 W	600 W
Standard compliance			
Safety agency	CE compliant	CE compliant	CE compliant
Physical specifications			
Cabinet/Case Material	Metal	Metal	Metal
Color	Black - RAL 9005	Black - RAL 9005	Black - RAL 9005
Rack mounting	19", 2U	19", 2U	19", 2U
Size / Weight			
Height	88 mm / 3.46 inches	88 mm / 3.46 inches	88 mm / 3.46 inches
Width	482 mm / 18.98 inches	482 mm / 18.98 inches	482 mm / 18.98 inches
Depth	325 mm / 12.8 inches	325 mm / 12.8 inches	264 mm / 10.39 inches
Weight	23.2 kg / 51.15 lbs	20.6 kg / 45.42 lbs	13.8 kg / 30.42 lbs
Part Number			
220-240 V	12100061	12100059	12100065
120 V	12100062	12100060	12100066



Link

IPS SERIES

DX 1616

MATRIX AUDIO PROCESSING UNIT

Powerful, robust, reliable device for routing DSP and audio networking.

MATRIX DSP

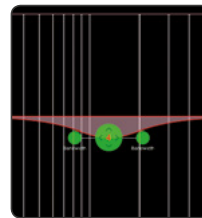
The RCF DX 1616 is a 16x16 matrix DSP audio processor designed for flexible routing and system processing in touring and installed sound. It runs a 48 kHz / 40-bit floating-point engine with low latency (up to 3 ms), and combines analog I/O, AES/EBU, and Dante AoIP in a single platform, with Ethernet connectivity and a dedicated Windows/macOS remote control GUI. On the processing side, it provides full input and output DSP blocks including HPF/LPF (6–48 dB/oct), 5-band parametric EQ, delay (up to 500 ms on inputs), compressor, plus output-stage tools such as shelving EQ, all-pass, additional delay, and limiting, enabling complete zone/array/feed management from one unit.

CONTROL SOFTWARE

DX 1616 AES-Dante remote software. This network-based software designed for Microsoft Windows and Mac OSX allows the management of the DX 1616 Matrix Sound Processor. -Pre-Amp configuration, selecting source types like analog, AES/EBU, Dante -Designing Input groups for festival applications -Input source processing with EQ, delay and compressor -Powerful 16x16 router to assign processing tasks to flexible output patches.

OUTPUT PATCH

With 16 analog outputs, DX 1616 offers flexible routing possibilities. The engineer can use up to 16 individual DSP modules for each output or he can even assign several analog outputs to a specific DSP module to use these outputs as high-quality line drivers. In combination with the RCF CP16 control panel any wiring configuration is supported.



DSP MODULE

The DSP module offers high pass filters, low pass filters, parametric EQ, all pass filters, level, compressor and output delay for perfect system control even if no RDNet controlled speaker is part of the system.

FEATURES

- Hybrid architecture DSP
- 48 KHz sampling, 40 bit floating point engine
- 16 x 16 I/O matrix
- Dante enabled network audio transport
- 8 AES/EBU inputs - 8 AES/EBU outputs
- Ethernet connectivity and control
- Maximum latency 3 ms
- Easy to use software GUI



SPECIFICATIONS

DX 1616

Audio performance

Frequency Response (-3dB):	20 Hz - 22 kHz
Crosstalk (on the whole bandwitch):	<-100 dB
Distortion (THD+N) @ 1 kHz nominal power:	<0.001 %
Dynamic range:	>110 dB
Common Mode Rejection Ratio (50 Hz to 10 kHz):	>100 dB

Digital audio performance

Resolution:	40
Sampling rate:	48
A/D - D/A converters:	24
Propagation delay:	3

Input section

Total number of inputs:	17
Balanced:	17
Mono:	16
Mic+Line inputs:	16
Mic+Line connectors:	Euroblock
Mic+Line Phantom:	21 V DC - 44 V DC
Digital inputs:	1
Digital connectors:	RJ45
Digital type:	Dante

Output section

Signal output number:	16
Signal output connectors:	Euroblock

Processing:

DSP:	Yes
EQ Filters:	Yes
Delay:	Yes
Tone controls:	Yes
High-pass filter:	20 Hz - 20000 Hz
Crossover:	20 - 20000 Hz

Controls

Configuration:	PC Software
Number of programs/presets:	70

Protections

Cooling:	Convection/Forced
Fuses:	Yes

Power requirement

Operating voltage:	90-240 V~ 50/60Hz
Voltage selection:	-
Power consumption:	20 W

Standard compliance

Safety agency:	CE compliant
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Physical specifications

Cabinet/Case Material:	Metal
Color:	Black
Rack mounting:	19", 1U

Size / Weight

Height:	44 mm / 1.73"
Width:	483 mm / 19.02"
Depth:	229 mm / 9.02"
Weight:	3.31 kg / 7.3 lbs

Part Numner

90-240 V	12399033
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CABLES ACCESSORIES

CONTROL AND AUDIO CABLES

AC XLR 3M3F	13360102
3 Female + 3 Male XLR 3-pole connectors with nickel body and silver contacts.	
CBL LKS 25-2 FANOUT	12399021
25 pin to 8X XLR, cable 1.0 meters, fanout 1.0 meters.	
CBL LK 25 MULTIPIN 20M	12399022
25 pin male female cable 20 meters.	
CBL LK 25 MULTIPIN 10M	12399023
25 pin male female cable 10 meters.	
CBL ETHERCON 0.7M	12399016
Ethercon cable 0.7 meters. Compatible with RDNET.	
CBL ETHERCON 1.5M	12399017
Ethercon cable 1.5 meters. Compatible with RDNET.	
CBL ETHERCON 1.5M	12399017
Ethercon cable 1.5 meters. Compatible with RDNET.	
CBL ETHERCON 3M	12399035
Ethercon cable 3 meters. Compatible with RDNET.	
CBL ETHERCON 5M	12399018
Ethercon cable 5 meters. Compatible with RDNET.	
CBL ETHERCON TO XLR F 0.2M	12399019
Adapter cable Ethercon to XLR female 0.2 meters.	
CBL ETHERCON TO XLR M 0.2M	12399020
Adapter cable Ethercon to XLR male 0.2 meters.	



Link

DX 1616

RDNET NETWORK CONTROL

RDNET INTERFACES

Hardware interfaces that connect RDNet-compatible systems to a PC for real-time monitoring and control.

RDNET CONTROL 8

The RDNet Control 8 is a real-time monitor and control system able to manage up to 256 devices linked in a bus or up to 128 devices in a ring topology. All the data collected from the slaves are delivered to the sound engineer by USB in a local installation or by Ethernet from remote locations. The interface can be directly connected to the DSP on board of every TT+ line array module through the exclusive RDNet protocol making it possible to address in single cabinets or groups, specific presets or modification parameters in real-time. The key point of RDNet Control 8, in fact, is to ensure minimum refresh time (at least 5 per second) of all the system data performance, for example: RMS signals, compressor activity, temperature, fans speed, warnings, etc. Data transfer can be routed also through the provided xlr connectors enabling the control of the system on traditional multi-cored cables.

8 OUTPUT MASTER UNIT

- Ethernet (remote control) and USB (direct control) PC connection to RDNet
- Control UP to 8 Sub-Nets of UP to 32 slave devices
- All devices are cyclically scanned ("polling") 10 times a second
- Auto detect device placement
- Controlling slave devices status and functions
- Monitoring and displaying faults and warnings sent from slave devices
- Storing subnet user filters configuration in a removable memory card



COMMUNICATION FLEXIBILITY

The link between the PC and the RDNet Control 8 unit can be made through USB port or Ethernet port.



TOPOLOGY FLEXIBILITY

The RDNet Control 8 unit can manage up to 8 subnets. Up to 32 audio devices can be connected to each subnet (8 subnets x 32 = total 256 audio devices).

General specifications

Number of subnets:	8
Connectors:	RJ 45, XLR
Max number of devices (for each subnet)	32
Configuration:	PC software
PC connection:	USB (type B), Ethernet
Data storage:	SD card (max. 4 GB)
Operating voltage:	90-240 V~ 50/60Hz
Power consumption (W):	15
RDNet:	Yes

Standard compliance

CE marking:	Yes
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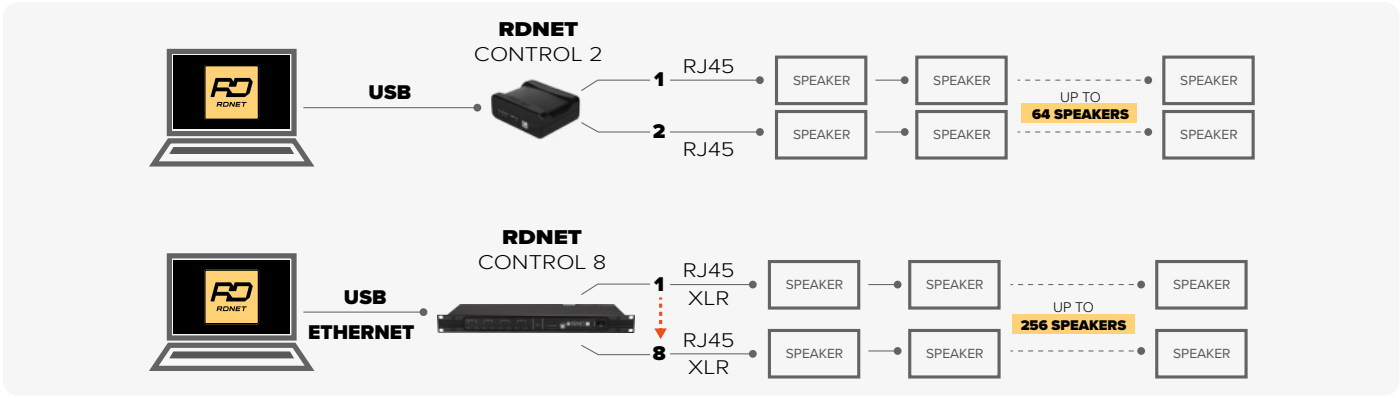
Physical specifications

Cabinet/Case Material:	Metal
Color:	Black
Rack mounting:	19", 1U

Size / Weight

Height:	44 mm / 1.73"
Width:	482 mm / 18.98"
Depth:	182 mm / 7.17"
Weight:	2.71 kg / 5.97 lbs
Part Number	17170154





RDNET CONTROL 2

The RDNet Control 2 is an hardware interface to connect RCF RDNet compatible devices (TTL 55-A, TTL 33-A II, TTL 31-A II, etc.) to a Personal Computer (PC) by means of an USB connection. The RDNet system was purposely developed to create a data network for monitoring and command of more systems. The RDNet Control 2 unit can manage up to 2 subnets. Up to 32 devices can be connected to each subnet (2 subnets x 32 = total 64 devices). The addressing of the various devices is handled automatically by RDNet Control 2 interface. Each device is assigned a unique address during the power on procedure of network. For the RDNET network operating, it is necessary to install the appropriate Software on PC, on Microsoft Windows® environment. From PC it is possible to check the operating of each single device connected to the network and edit its parameters output level, mute, equalization, delay, etc. The network and devices configuration can be saved as file in the PC and later reloaded. RDNET is a “real-time” system: Information relating to the functioning of the devices is acquired in real-time, a feature that allows a global view of connected devices.

2 OUTPUT MASTER UNIT

- Real-Time USB device monitoring and control
- Auto detect device placement
- Control up to 2 Sub-Nets of up to 32 slave devices
- All devices are cyclically scanned ("polling") 10 times a second
- Connected devices are automatically added to the software synoptic

General specifications

Number of subnets:	2
Connectors:	RJ 45, XLR
Max number of devices (for each subnet)	32
Configuration:	PC software
PC connection:	USB (typeB)
Power supply:	Powered by USB socket
RDNet:	Yes

Standard compliance

CE marking:	Yes
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Physical specifications

Cabinet/Case Material:	ABS
Color:	Black

Size / Weight

Height:	41 mm / 1.61"
Width:	111 mm / 4.37"
Depth:	90 mm / 3.54"
Weight:	0.17 kg / 0.37 lbs

Part Number

	17170163
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RDNet

RDNET IS A POWERFUL MANAGEMENT NETWORK AND CONTROL PLATFORM FOR SMALL TO ARENA-SIZED SOUND SYSTEMS AND LARGE-SCALE INSTALLATIONS.

TOOLBOX FOR SOUND SYSTEM DESIGN

RDNet is an advanced platform for integrated monitoring and control of sound systems - from small live and installed setups to massive arena systems. Based on a robust networked architecture, RDNet combines system control, line array design, and comprehensive audio measurements into a single powerful software package. Engineers and technicians can intuitively manage every device on the network, from individual components to multiple groups. The platform provides full DSP control of compatible devices, with flexible configuration tools for perfectly tuning the system response at maximum speed. Users have real-time access and oversight of all key settings from a centralized interface.

RDNET MEASURE

RDNet Measure is a powerful 4-input Dual-Channel FFT Audio Analyzer able to measure Magnitude, Phase, RTA, Coherence, and Impulse response. Functions included spans from a delay finder, a multiple signal generator, and an integrated SPL meter/logger with calibration tools. There's no need for external software to get the job done.

FEATURES

- Array and Zones Grouping for self- and externally-powered systems
- Real-time Discovery and Complete Monitoring
- Complete Real-Time FFT Analyzer with EQ integration and Auto-Alignment
- Adjust Hi-Pass, EQ, Gain, and Delay on individual components
- New IP-based RDNet-OE architecture
- Cloud Storage and Import full
- Shape Designer Array Calculator

GET THE MOST OUT OF YOUR SYSTEM

RDNet displays all audio devices connected to the network as objects on the main window. The real-time monitoring features a multitude of parameters such as fan speed, temperature, the inclination of a single speaker, VU Meters, peak levels, and more. The operator has complete control of time delay and equalization of every speaker, individually or grouped. With its built-in DSP, each device is an active part of the system, able to store presets, receive commands, and continuously send status information. Comprehensive monitoring is standard in RDNet: VU metering, clip indicator, limiter intervention, device inclination, communication issues—down to the status of a single component or a transducer—and much more.



Link



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