PALLADIO

MAIN FEATURES

FAMILY FEELING:

The PC-562 directly refers to the Sonetto Collection for the choice of materials, the electroacoustic project and design.

The satin aluminum trim that frame the tweeter recalls the aesthetic of the "Voice of Sonus faber".

MAGNETIC GRILLES:

The PC-562 is equipped with a magnetic edgeless round metal grille, ready to be painted. The square metal grille is optionally available.

QUICK INSTALLATION:

Thanks to the swing out dogs fixing system, all Palladio speakers can be secured quickly and effectively to plasterboard.







MAGNETIC ROUND METAL GRILLE



MAGNETIC SQUARE METAL GRILLE

MID-WOOFER:

The custom diaphragm is made in natural fiber and cellulose pulp, according to the most natural sound.

TWEETER:

DAD™ (Damped Apex Dome) silk dome tweeter.

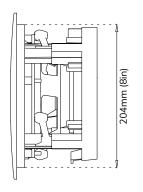


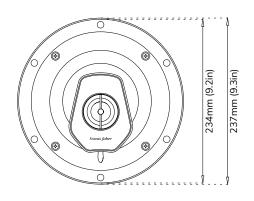
PARACROSS TOPOLOGY ™

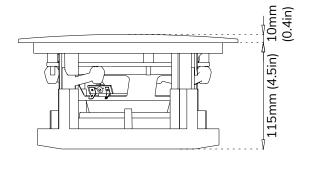
The anti-resonant design of the x-over network features the Paracross Topology™ circuitry, to guarantee a better definition and purity of sound.

TWEETER - DAD™ DRIVER 29 mm / 1.1 in 165 mm / 6.5 in CROSSOVER FREQUENCY - PARACROSS TOPOLOGY™ 3,000 Hz FREQUENCY RESPONSE 50 - 25,000 Hz SENSITIVITY (2.83 Vrms @ 1m) 90 dBspt. NOMINAL IMPEDANCE 4Ω COVERAGE ANGLE (1 kHz, @-6 dB) ± 60° H - ± 60° V SUGGESTED AMPLIFIER POWER OUTPUT 40 - 200W without clipping LONG-TERM MAX INPUT VOLTAGE (IEC 60268-5) FRAME OUTER 0 234 mm / 9.2 in 0 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 kg / 6.8 lb Bezel-Free round magnetic grille • ADDITIONAL FITTINGS					
MIDWOOFER 165 mm / 6.5 in CROSSOVER FREQUENCY - PARACROSS TOPOLOGY™ 3.000 Hz FREQUENCY RESPONSE 50 - 25,000 Hz SENSITIVITY (2.83 Vrms @ 1m) NOMINAL IMPEDANCE 4 Ω COVERAGE ANGLE (1 kHz, @-6 dB) ± 60° H - ± 60° V SUGGESTED AMPLIFIER POWER OUTPUT 40 - 200W without clipping LONG-TERM MAX INPUT VOLTAGE (IEC 60268-5) FRAME OUTER 0 234 mm / 9.2 in CUT OUT 0 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb Ezel-Free round magnetic grille Pre-mount kit	LOUDSPEAKER SYSTEM	Two-way In-ceiling system. Infinite baffle			
CROSSOVER FREQUENCY - PARACROSS TOPOLOGY™ 3,000 Hz FREQUENCY RESPONSE 50 - 25,000 Hz SENSITIVITY (2.83 Vrms @ 1m) 90 dBspt. NOMINAL IMPEDANCE 4Ω COVERAGE ANGLE (1 kHz, @-6 dB) ± 60° H - ± 60° V SUGGESTED AMPLIFIER POWER OUTPUT 40 - 200W without clipping LONG-TERM MAX INPUT VOLTAGE (IEC 60268-5) FRAME OUTER 0 234 mm / 9.2 in CUT OUT 0 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb Ezel-Free round magnetic grille Pre-mount kit	TWEETER - DAD™ DRIVER	29 mm / 1.1 in			
FREQUENCY RESPONSE 50 – 25,000 Hz	MIDWOOFER	165 mm / 6.5 in			
SENSITIVITY (2.83 Vrms @ 1m) 90 dBspL NOMINAL IMPEDANCE 4 Ω COVERAGE ANGLE (1 kHz, @-6 dB) ± 60° H - ± 60° V SUGGESTED AMPLIFIER POWER OUTPUT 40 - 200W without clipping LONG-TERM MAX INPUT VOLTAGE (IEC 60268-5) 20 Vrms FRAME OUTER Ø 234 mm / 9.2 in CUT OUT Ø 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb INCLUDED IN THE BOX Bezel-Free round magnetic grille Pre-mount kit Pre-mount kit	CROSSOVER FREQUENCY - PARACROSS TOPOLOGY™	3,000 Hz			
NOMINAL IMPEDANCE 4 Ω COVERAGE ANGLE (1 kHz, @-6 dB) ± 60° H - ± 60° V SUGGESTED AMPLIFIER POWER OUTPUT 40 − 200W without clipping LONG-TERM MAX INPUT VOLTAGE (IEC 60268-5) 70 20 Vrms FRAME OUTER 0 234 mm / 9.2 in CUT OUT 0 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb • INCLUDED IN THE BOX Bezel-Free round magnetic grille Pre-mount kit	FREQUENCY RESPONSE	50 – 25,000 Hz			
COVERAGE ANGLE (1 kHz, @-6 dB) ± 60° H - ± 60° V SUGGESTED AMPLIFIER POWER OUTPUT 40 - 200W without clipping LONG-TERM MAX INPUT VOLTAGE (IEC 60268-5) 70 Vrms FRAME OUTER 60 234 mm / 9.2 in 60 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb • INCLUDED IN THE BOX Bezel-Free round magnetic grille Pre-mount kit	SENSITIVITY (2.83 Vrms @ 1m)	90 dBspL			
SUGGESTED AMPLIFIER POWER OUTPUT 40 – 200W without clipping 20 Vrms FRAME OUTER Ø 234 mm / 9.2 in CUT OUT Ø 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 1.1Kg / 6.8 lb Bezel-Free round magnetic grille Pre-mount kit	NOMINAL IMPEDANCE	4 Ω			
LONG-TERM MAX INPUT VOLTAGE (IEC 60268-5) FRAME OUTER Ø 234 mm / 9.2 in Ø 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb Bezel-Free round magnetic grille Pre-mount kit	COVERAGE ANGLE (1 kHz, @-6 dB)	± 60° H - ± 60° V			
FRAME OUTER Ø 234 mm/9.2 in Ø 208 mm/8.19 in DEPTH BEHIND SURFACE 115 mm/4.52 in PROTRUSION 10 mm/0.40 in NET WEIGHT 3.1 Kg/6.8 lb PROTRUSION Bezel-Free round magnetic grille Pre-mount kit	SUGGESTED AMPLIFIER POWER OUTPUT	40 – 200W without clipping			
CUT OUT Ø 208 mm / 8.19 in DEPTH BEHIND SURFACE 115 mm / 4.52 in PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb • INCLUDED IN THE BOX Bezel-Free round magnetic grille Pre-mount kit	LONG-TERM MAX INPUT VOLTAGE (IEC 60268-5)	20 Vrms			
DEPTH BEHIND SURFACE 115 mm / 4.52 in 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb INCLUDED IN THE BOX Bezel-Free round magnetic grille Pre-mount kit	FRAME OUTER	Ø 234 mm / 9.2 in			
PROTRUSION 10 mm / 0.40 in NET WEIGHT 3.1 Kg / 6.8 lb INCLUDED IN THE BOX Bezel-Free round magnetic grille Pre-mount kit	сит оит	Ø 208 mm / 8.19 in			
NET WEIGHT 3.1 Kg / 6.8 lb • INCLUDED IN THE BOX Bezel-Free round magnetic grille Pre-mount kit	DEPTH BEHIND SURFACE	115 mm / 4.52 in			
INCLUDED IN THE BOX Bezel-Free round magnetic grille Pre-mount kit ADDITIONAL FITTINGS	PROTRUSION	10 mm / 0.40 in			
• ADDITIONAL FITTINGS Pre-mount kit	NET WEIGHT	3.1 Kg / 6.8 lb			
ADDITIONAL FITTINGS	INCLUDED IN THE BOX	Bezel-Free round magnetic grille			
		Pre-mount kit			
Bezel-Free square magnetic grille	ADDITIONAL FITTINGS	Bezel-Free square magnetic grille			

PALLADIO



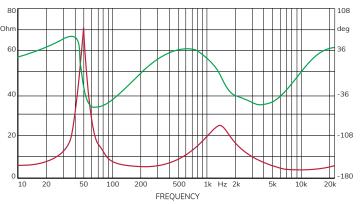




THIRD OCTAVE AXIAL RESPONSE @1m

IMPEDANCE [MODULE AND PHASE]





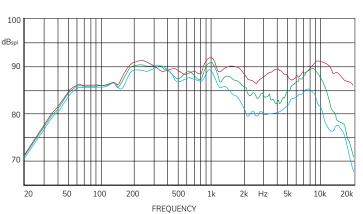
AMPLIFIER OUTPUT POWER REQUIREMENTS VS. LISTENING DISTANCE (PER SINGLE CHANNEL) *

	LISTENING DISTANCE [m]							
	1.50	1.75	2.00	2.50	3.00	3.50	4.00	
W CONTINUOUS (RMS)	1.4	1.9	2.5	4	5.7	7.8	10	
W PEAK	2.9	3.9	5.1	7.9	11.4	15.5	20	

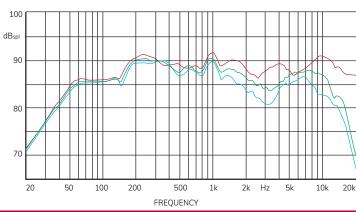
	LISTENING DISTANCE [m]								
	1.50	1.75	2.00	2.50	3.00	3.50	4.00		
W CONTINUOUS (RMS)	11.3	15.4	20.1	32	45	62	80		
W PEAK	45	60	80	125	180	246	320		

The huge difference between the values depends on the signals that have been considered in the two examples. A simple sine tone is the most elementary one while the IEC signal is quite complex. In a real world, while the first could conveniently represent the power needs for speech, the second gives an idea of the power needs for wide frequency range, large headroom music.

HORIZONTAL DISPERSION [@1m WITH 2.83 VRMS]



VERTICAL DISPERSION [@1m WITH 2.83 VRMS]



^{* [}FOR A DIRECT SPL=85 dB; 1 kHz SINE TONE]

^{* [}FOR A DIRECT SPL=85 dB; IEC TEST SIGNAL SIMULATING A NORMAL PROGRAM]