



Ceiling Mount Speaker

PC-1860BS / PC-1860S /
PC-1860F / PC-2360



85 years of experience



Consistently TOA has continued to strengthen its role as an innovative leader and redefined the standards of technical improvement. Founded 1934 in Kobe, Japan, we benefit from 85 years of experience in research, development and international sales and marketing of numerous products in the field of public address systems. Thereby our longstanding know-how guarantees proven quality and the utmost peace of mind.

It is our goal to provide you high quality products, as well as first-class sound, to find the ideal acoustic solution for each of your applications.

We are proud to be one of the first companies to develop a fully EN 54 compliant voice alarm systems and speakers.

4 different types of ceiling mount speaker

QUICK SELECTION GUIDE

	Features	PC-1860BS	PC-1860F	PC-1860S	PC-2360
Appearance					
Standard	EN54-24:2008	●			
	BS5839-8:2008	●			
	PN-EN54-24	●			
Size of speaker component	12 cm (5") cone-type	●	●	●	
	16 cm (6") cone-type				●
Mounting method	Spring clamp				●
	Spring catch	●	●	●	
Connection	Push wire connection (2 branch type)		●	●	●
	2 Steatite connector (3-pole)	●			
Safety	Fire dome	●	●		
	Thermal fuse	●			
	Safety wire connection	●	●		
Ceiling thickness	5 - 25 mm (0.2" - 0.98")	●	●		●
	3 - 25 mm (0.12" - 0.98")			●	

Why TOA ?

Speech Intelligibility

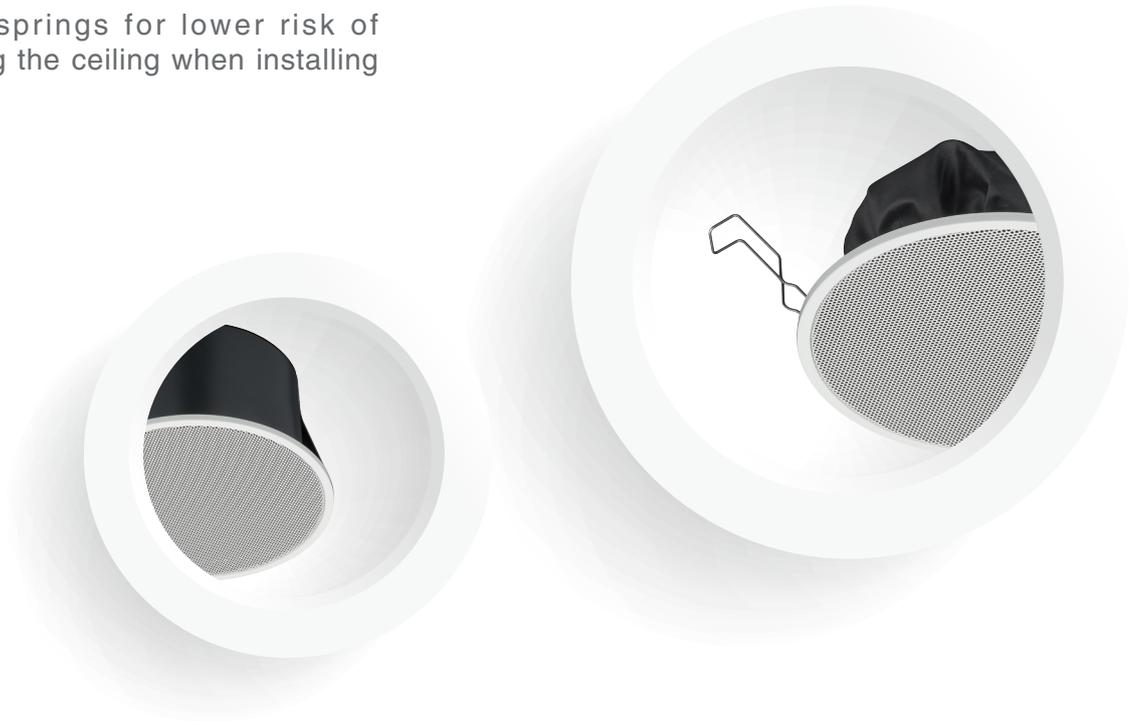
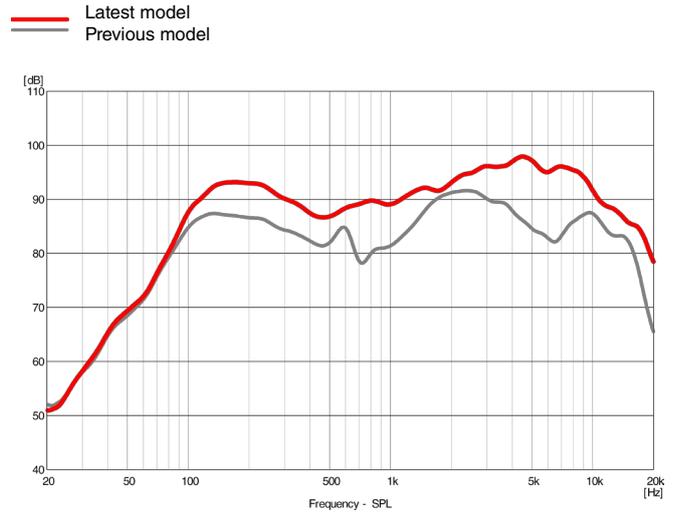
Our ceiling mount speakers are designed to achieve better frequency response in higher range for better speech intelligibility.

Powerful Sound

We have continuously improved the sound pressure level (SPL). You can clearly hear the voice even in spaces with high ceiling or noisy environments.

Product Design

- Bezel-less elegant look that harmonizes with venue's architecture and decor
- Wire springs for lower risk of scratching the ceiling when installing speakers



Installation



Office Buildings



Schools



Train Stations



Hospitals

SPRING CATCH TYPE

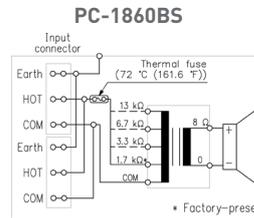


EN BS PC-1860BS

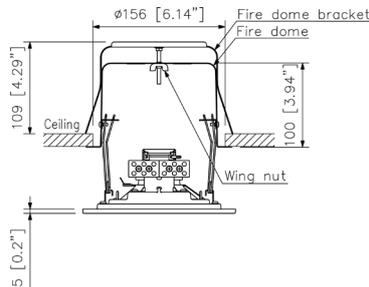
Features

- Suitable for voice alarm system and background music system use in high quality sound
- EN 54-24 certified
- BS 5839-8 compliant
- Fire Dome to protect and prevent the fire from spreading in the ceiling in case of an emergency

Wiring Diagram



Mounting Diagram



Specifications

Model	PC-1860BS
Rated Output	6 W (100 V Line), 3 W (70 V Line)
Rated Impedance	100 V line: 1.7 kΩ(6 W), 3.3 kΩ (3 W), 6.7 kΩ (1.5 W), 13 kΩ (0.8 W) 70 V line: 1.7 kΩ(3 W), 3.3 kΩ (1.5 W), 6.7 kΩ (0.8 W), 13 kΩ (0.4 W)
Sensitivity	95 dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise) 93 dB (1 W, 1 m) (100 Hz - 10 kHz, pink noise) 81 dB (1 W, 4 m) (100 Hz - 10 kHz, pink noise)
Maximum Sound Pressure Level	100 dB (6 W, 1 m) (100 Hz - 10 kHz, pink noise) 88 dB (6 W, 4 m) (100 Hz - 10 kHz, pink noise)
Frequency Response	170 Hz - 20 kHz (peak -20 dB)
Coverage Angle (-6 dB)	Horizontal and Vertical: 165°(500 Hz), 175°(1 kHz), 165°(2 kHz), 70°(4 kHz) according to EN 54-24
Environmental type	A (indoor applications)
Speaker Component	12 cm (5") cone-type
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Dimensions for Fixing Hole	Mounting hole: $\varnothing 156 \pm 3$ mm (6.14" \pm 0.12") Ceiling thickness: 5 - 25 mm (0.2" - 0.98")
Speaker Mounting Method	Spring Catch
Applicable Cable	Solid wire: 0.8 - 6 mm ² (AWG 18 - 10)
Connection	2-Steatite connector (3 pole)
Finish	Frame: Steel plate, white (RAL 9016 equivalent), paint Grille: Steel net, white (RAL 9016 equivalent), paint Fire dome: Steel plate, black, paint
Dimensions	$\varnothing 180 \times 5$ (exposed section) + 100 (D) mm (7.09" x 0.2" + 3.94")
Weight	1.1 kg (2.43 lb)
Accessory	Rubber grommet ... 2, Paper pattern ... 1

SPRING CATCH TYPE



PC-1860S



PC-1860F

PC-1860S

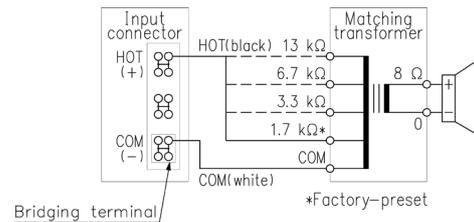
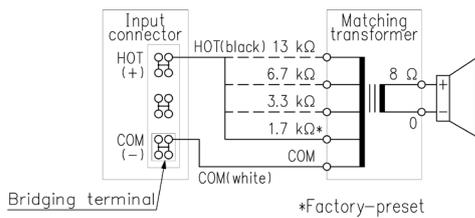
PC-1860F

Features

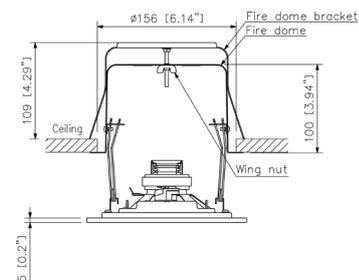
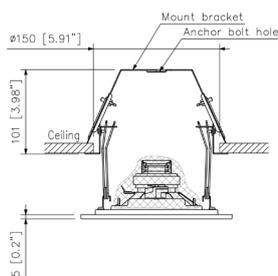
- Mounting bracket for safety installation
- Suitable for announcement and music use in high quality sound
- Speaker design that harmonize with venue's architecture and decor

- Iron-made dome that prevents the fire from spreading in the ceiling in case of an emergency situation
- Suitable for announcement and music use in high quality sound
- Speaker design that harmonize with venue's architecture and decor

Wiring Diagram



Mounting Diagram



Specifications

Model	PC-1860S	PC-1860F
Rated Output	6 W (100 V Line), 3 W (70 V Line)	
Rated Impedance	100 V line: 1.7 kΩ(6 W), 3.3 kΩ (3 W), 6.7 kΩ (1.5 W), 13 kΩ (0.8 W) 70 V line: 1.7 kΩ(3 W), 3.3 kΩ (1.5 W), 6.7 kΩ (0.8 W), 13 kΩ (0.4 W)	
Sensitivity	94 dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise)	95 dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise)
Frequency Response	80 Hz - 20 kHz (peak -20 dB)	170 Hz - 20 kHz (peak -20 dB)
Speaker Component	12 cm (5") cone-type	
Dimensions for Fixing Hole	Mounting hole: $\phi 150 \pm 3$ mm (5.91" \pm 0.12") Ceiling thickness: 5 - 25 mm (0.2" - 0.98")	Mounting hole: $\phi 156 \pm 3$ mm (6.14" \pm 0.12") Ceiling thickness: 5 - 25 mm (0.2" - 0.98")
Speaker Mounting Method	Spring Catch	
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)	
Applicable Cable	Solid wire: 0.5 - 3 mm ² (AWG 20 - 12)	
Connection	Push wire connection (Bridging terminal - 2 branch type)	
Finish	Frame: Steel plate, white (RAL 9016 equivalent), paint Grille: Steel net, white (RAL 9016 equivalent), paint Mounting bracket: Steel plate, plating	Frame: Steel plate, white (RAL 9016 equivalent), paint Grille: Steel net, white (RAL 9016 equivalent), paint Fire dome: Steel plate, black, paint
Dimensions	$\phi 180 \times 5$ (exposed section) + 101 (D) mm (7.09" \times 0.2" + 3.98")	$\phi 180 \times 5$ (exposed section) + 100 (D) mm (7.09" \times 0.2" + 3.94")
Weight	750 g (1.65 lb)	1 kg (2.2 lb)
Accessory	Paper pattern ... 1	Rubber grommet ... 2, Paper pattern ... 1

SPRING CLAMP TYPE

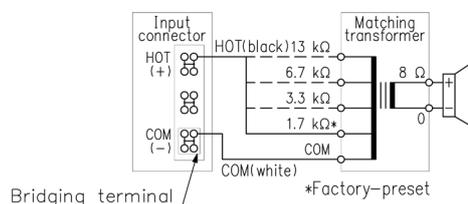


PC-2360

Features

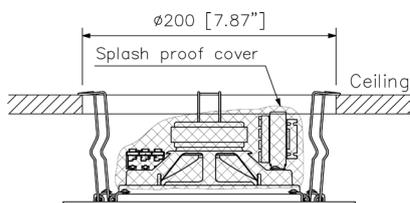
- Ideal for use in a background music system and voice announcement system
- All metallic construction
- Spring clamp mechanism for easy mounting to the ceiling
- Input impedance can be easily changed by changing the tap position of the transformer

Wiring Diagram



Mounting Diagram

PC-2360



Specifications

Model	PC-2360
Rated Output	6 W (100 V Line), 3 W (70 V Line)
Rated Impedance	100 V line: 1.7 kΩ(6 W), 3.3 kΩ (3 W), 6.7 kΩ (1.5 W), 13 kΩ (0.8 W) 70 V line: 1.7 kΩ(3 W), 3.3 kΩ (1.5 W), 6.7 kΩ (0.8 W), 13 kΩ (0.4 W)
Sensitivity	94 dB (1 W, 1 m) (500 Hz - 5 kHz, pink noise)
Frequency Response	60 Hz - 20 kHz (peak -20 dB)
Speaker Component	16 cm (5") cone-type
Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Dimensions for Fixing Hole	Mounting hole: ø200 ±3 mm (17.87" ± 0.12") Ceiling thickness: 5 - 25 mm (0.2" - 0.98")
Speaker Mounting Method	Spring Clamp
Applicable Cable	Solid wire: 0.5 - 3 mm ² (AWG 20 - 12)
Connection	Push wire connection (Bridging terminal - 2 branch type)
Finish	Frame: Steel plate, white (RAL 9016 equivalent), paint Grille: Steel net, white (RAL 9016 equivalent), paint
Dimensions	ø230 x 76 (D) mm (9.06" x 2.99")
Weight	740 g (1.63 lb)
Accessory	Paper pattern ... 1