
CEILING SPEAKER



Ceiling Speaker



Inter-M ceiling speakers providing a natural and smooth sound with a variety of it fits to any places that announcements and BGM required such as buildings, apartments, hotels and etc. It has variety of line-up from 3" 1W to 8" 2Way type high powered speaker. And it ensures the quality and durability by acquiring KS certification in the Korea's first.

Korean Industrial Standards speaker (KS certification)



Inter-M acquired a KS certification for speaker system as the first's Korea speaker system manufacturer.

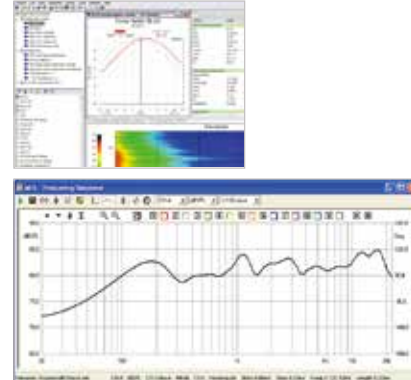
The relevant certification is given to the factory of Korea speaker system manufacturer.

It ensures KS certification observance for all speakers in the certification items manufactured at the relevant facilities Furthermore, Inter-M speaker provides the durability and reliable quality to user by adding the AES, CEA used in the domestic and international market aside from the KS certification.



Thorough quality control

The products passing a variety test including a 100 hours full power noise, high temperature, low temperature, humidity are assigned with 'PASS' to provide a stable and equal quality in the market. The relevant test is proceeded through the automated equipment and support the exact verification about the products.



The combination between speaker and amplifier



10W x 24



300W

It was used and designed with matching the volume of amplifier and speaker output as the past PA system are consist of mainly speech broadcasting such as a emergency broadcasting and announcement. But the recent PA system is used for mainly BGM music in addition to speech broadcasting.

Therefore, it requires the higher output of amplifier and speaker than the previous amplifier output to make a good quality of music broadcasting and clearer announcement. In comparison with the volume of the speaker output, the output of amplifier should be designed minimum over 2 times of the output to make the sound quality and sound articulation.

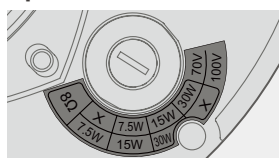


CS-430F is a high quality 2Way speaker which provides high power and clear sound with dome tweeter. CS-430F allows users to apply it to various sizes and applications such as fancy restaurant, exhibition room, cafe, conference room, and even lecture hall that need both High quality sound and clear voice.

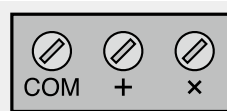


FEATURES

- 2Way speaker (4" Low/Mid driver + 1/2" tweeter)
- High quality matching transformer
- Contains a premium grade speaker driver
- Best reliability
- The beautiful and graceful cabinet design
- Easy installing and convenience
- Rotary switch offers an easy way to change taps on a transformer



- Input terminal



SPECIFICATION

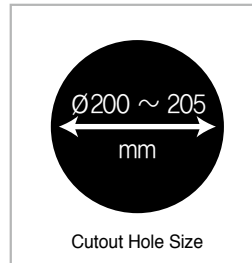
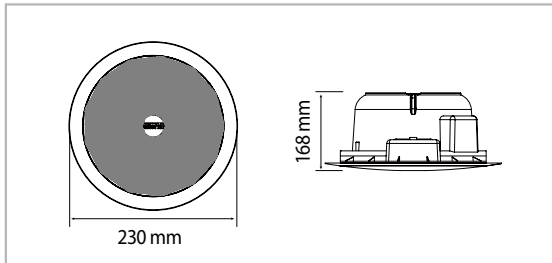
Model		CS-430F
Type		4" 2Way Ceiling Speaker
Unit		LF : 4", HF : 1/2"
Power Handling (AES)		30W
Input Power	100V	30/15/7.5W
	70V	30/15/7.5W
Impedance	100V	333/667/1.3kΩ
	70V	163/333/667Ω
	LOW	8Ω
Power Selection		Rotary Switch
Frequency Response (-10dB)		100Hz ~ 20kHz
Sensitivity (1W/1m 300,400,500,600Hz avg.)		84dB
Maximum SPL [Cont]		99dB
Norminal Dispersion		70°
Input Connector		3P Euroblock
Enclosure Material		ABS (V0)
Enclosure Color (Front)		Light Gray
Grill Material		Metal Grill
Grill Color		Light Gray
Cut-Out Diameter (Ø, mm)		Ø200 ~ 205
Weight (Net)		1.8kg
Dimensions (Ø(WxH) x D, mm)		Ø230 x 168
Weather Resistant		-
Flame Resistant		O
Certification		-
Included Accessories		Cut-out Template

CS-430F

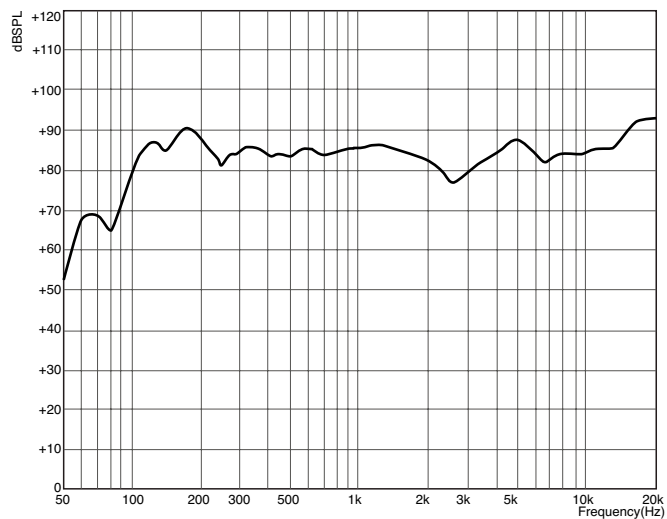
Ceiling
Speaker

TECHNICAL DATA

DIMENSION

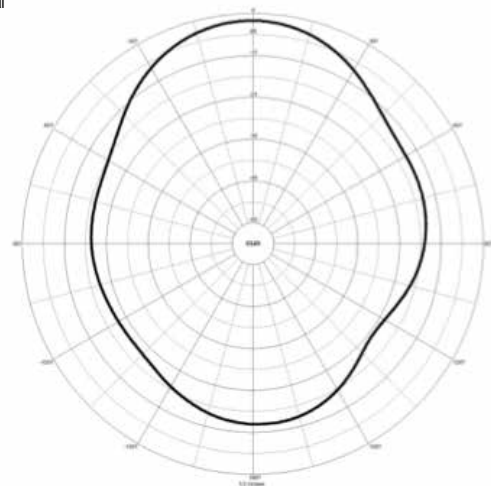


FREQUENCY RANGE

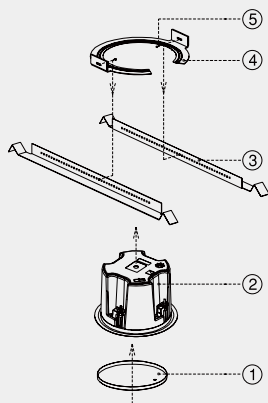


POLAR PATTERN (1kHz)

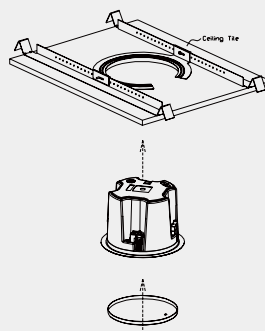
Conical



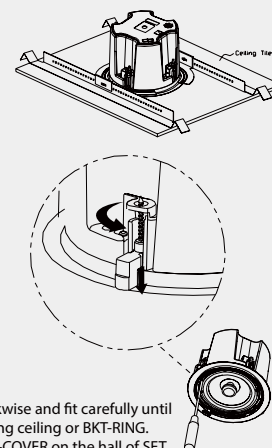
SPEAKER INSTALLATION GUIDE



5	SCREW 1WPTC 4 x 12B	2
4	BKT-RING	1
3	BKT-RAIL	2
2	SET	1
1	GRILL COVER	1
NO	NAME	QTY



※ Ceiling Hole Size : $\varnothing 200 \sim \varnothing 205$



1. Turn clockwise and fit carefully until approaching ceiling or BKT-RING.
2. Put GRILL-COVER on the hall of SET and press to be combined.

CS-610M is Korea standard ceiling speaker which is the most selling in Korea market with good design and high reliability. It have presented the standard of ceiling speaker for emergency broadcasting with the preventing dust, design, easy installation.



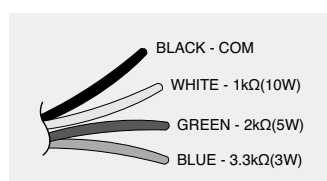
FEATURES

- **6.5" Full-range speaker**
- **Power selection**
Power selector by input cable.
- **Using High quality matching transformer (100V)**
- **High sound pressure level and wide frequency response**
Satisfies international standard required for emergency broadcasting speakers. Possible to play a wider frequency range than 400Hz~4kHz.
- **Dust filter**
Use a dust filter inside the grill to block dust ingress and maintain a clean grill.

- **Easy installation**

Easy to install in the way connecting the separate grill with the spring ring without the needs of additional tools.

- **Connection for power selection**



SPECIFICATION

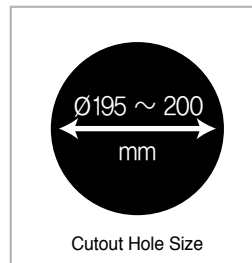
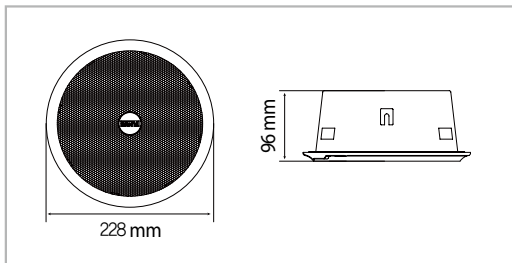
Model		CS-610M
Type		6.5" Full-range Ceiling Speaker
Unit		6.5"
Power Handling (AES)		10W
Input Power	100V	10/5/3W
	70V	-
Impedance	100V	1k/2k/3.3kΩ
	70V	-
	LOW	-
Power Selection		By wiring
Frequency Response (-10dB)		140Hz ~ 13kHz
Sensitivity (1W/1m 300,400,500,600Hz avg.)		90dB
Maximum SPL [Cont]		100dB
Norminal Dispersion		-
Input Connector		Bi-Wired
Enclosure Material		Aluminum
Enclosure Color (Front)		White
Grill Material		Metal Grill
Grill Color		Gray
Cut-Out Diameter (Ø, mm)		Ø195 ~ 200
Weight (Net)		960g
Dimensions (Ø(WxH) x D, mm)		Ø228 x 96
Weather Resistant		-
Flame Resistant		O
Certification		-
Included Accessories		-

CS-610M

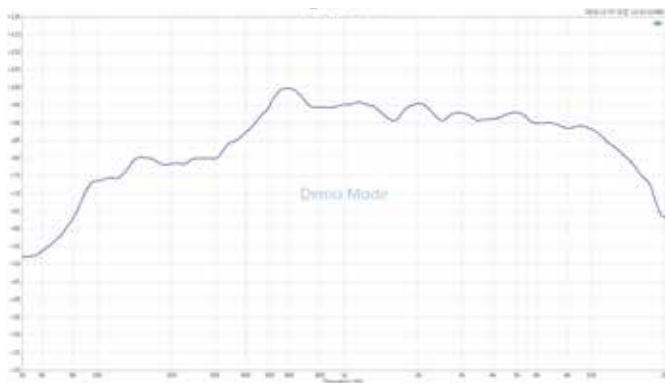
Ceiling
Speaker

TECHNICAL DATA

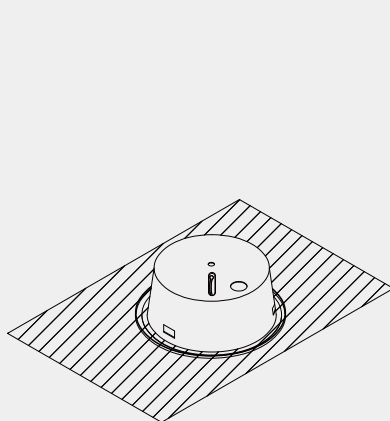
DIMENSION



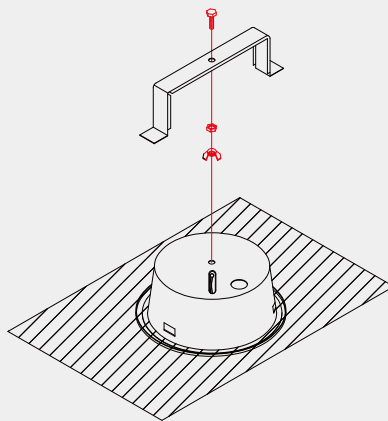
FREQUENCY RANGE



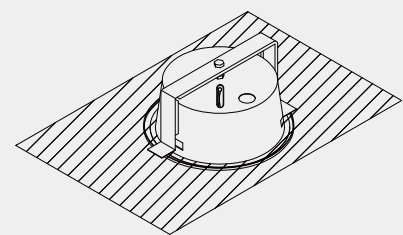
SPEAKER INSTALLATION GUIDE



STEP 01



STEP 02



STEP 03

CS-610 is Korea standard ceiling speaker which is the most selling in Korea market with good design and high reliability. It have presented the standard of ceiling speaker for emergency broadcasting with the preventing dust, design, easy installation.



FEATURES

- **6.5" Full-range speaker**

- **Power selection**

Power selector by input cable.

- **Using High quality matching transformer (100V)**

- **High sound pressure level and wide frequency response**

Satisfies international standard required for emergency broadcasting speakers. Possible to play a wider frequency range than 400Hz~4kHz.

- **Corrosion protection**

Apply corrosion protection coating to enable installation and operation in humid environments.

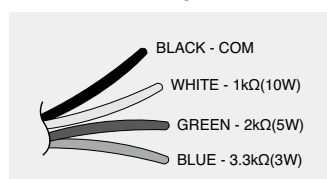
- **Dust filter**

Use a dust filter inside the grill to block dust ingress and maintain a clean grill.

- **Easy installation**

Easy to install in the way connecting the separate grill with the spring ring without the needs of additional tools.

- **Connection for power selection**



SPECIFICATION

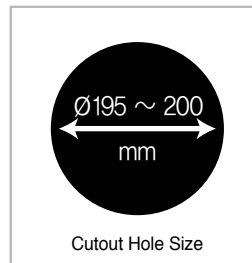
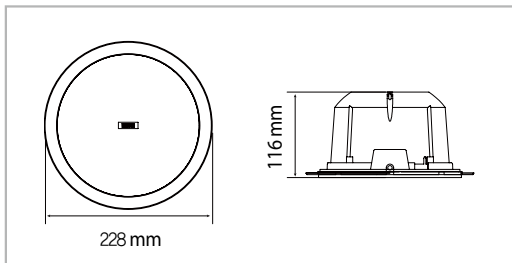
Model		CS-610
Type		6.5" Full-range Ceiling Speaker
Unit		6.5"
Power Handling (AES)		10 W
Input Power	100V	10/5/3W
	70V	-
Impedance	100V	1k/2k/3.3kΩ
	70V	-
	LOW	-
Power Selection		By Wiring
Frequency Response (-10dB)		355Hz ~ 10kHz
Sensitivity (1W/1m 300,400,500,600Hz avg.)		89dB
Maximum SPL [Cont]		99dB
Norminal Dispersion		-
Input Connector		Bi-Wired
Enclosure Material		HIPS (HB)
Enclosure Color (Front)		Light Gray
Grill Material		Metal Grill
Grill Color		Light Gray
Cut-Out Diameter (Ø, mm)		Ø195 ~ 200
Weight (Net)		870g
Dimensions (Ø(WxH) x D, mm)		Ø228 x 116
Weather Resistant		-
Flame Resistant		-
Certification		-
Included Accessories		-

CS-610

Ceiling
Speaker

TECHNICAL DATA

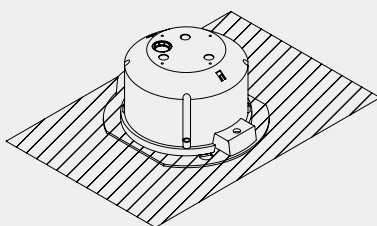
DIMENSION



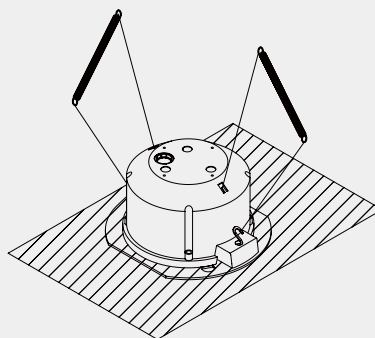
FREQUENCY RANGE



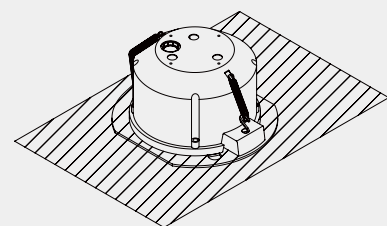
SPEAKER INSTALLATION GUIDE



STEP 01



STEP 02



STEP 03

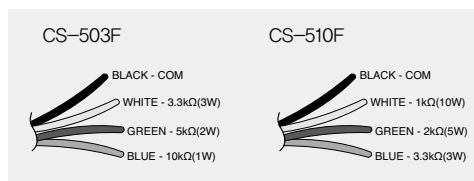


Inter-M is famous for its beautiful, elegant designs and high reliability products. Present a new standard for the 5" ceiling speakers.

FEATURES

- **5" Full-range speaker**
- **Using High quality matching transformer (100V)**
- **150mm cut-out dimension**
With the same size of the ordinary cut-out dimension of lighting equipment, it is easy to conduct field installation.
- **Dust filter**
Use a dust filter inside the grill to block dust ingress and maintain a clean grill.

- **Easy installation**
It is easy to install as ceiling clip type without additional tools.
- **Connection for power selection**



SPECIFICATION

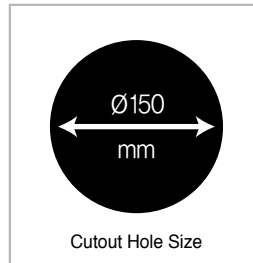
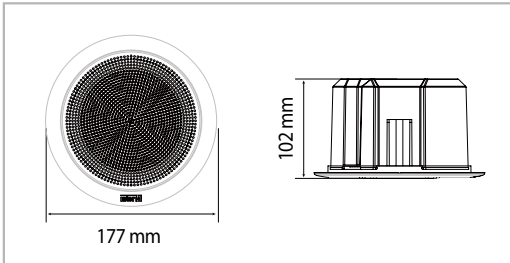
Model		CS-503F	CS-510F
Type		5" Full-range Ceiling Speaker	
Unit		5"	
Power Handling (AES)		3W	10W
Input Power	100V	3/2/1W	10/5/3W
	70V	-	-
Impedance	100V	3.3k/5k/10kΩ	1k/2k/3.3kΩ
	70V	-	-
	LOW	-	-
Power Selection		By Wiring	
Frequency Response (-10dB)		250Hz ~ 20kHz	130Hz ~ 13.2kHz
Sensitivity (1W/1m 300,400,500,600Hz avg.)		91dB	91dB
Maximum SPL [Cont]		95dB	101dB
Normal Dispersion		-	
Input Connector		INPUT Line Direct Connection	
Enclosure Material		HIPS (V0)	
Enclosure Color (Front)		White	
Grill Material		HIPS (V0)	
Grill Color		White	
Cut-Out Diameter (Ø, mm)		Ø150	
Weight (Net)		530g	690g
Dimensions (Ø(WxH) x D, mm)		Ø177 x 102	
Weather Resistant		-	
Flame Resistant		O	
Certification		KS	
Included Accessories		-	

CS-503F/510F

Ceiling
Speaker

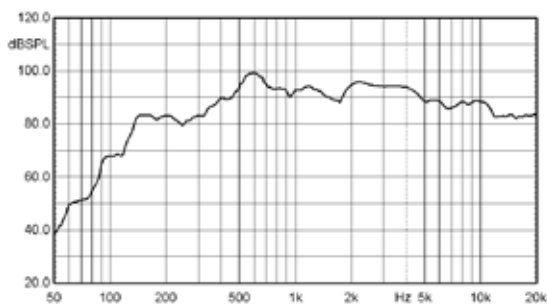
TECHNICAL DATA

DIMENSION

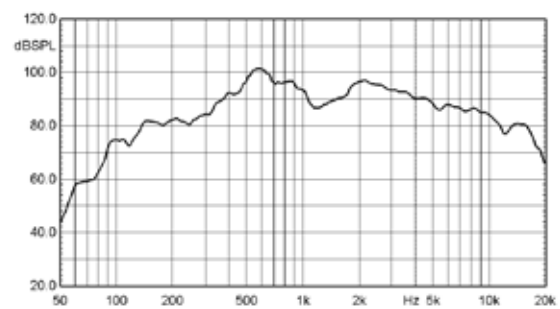


FREQUENCY RANGE

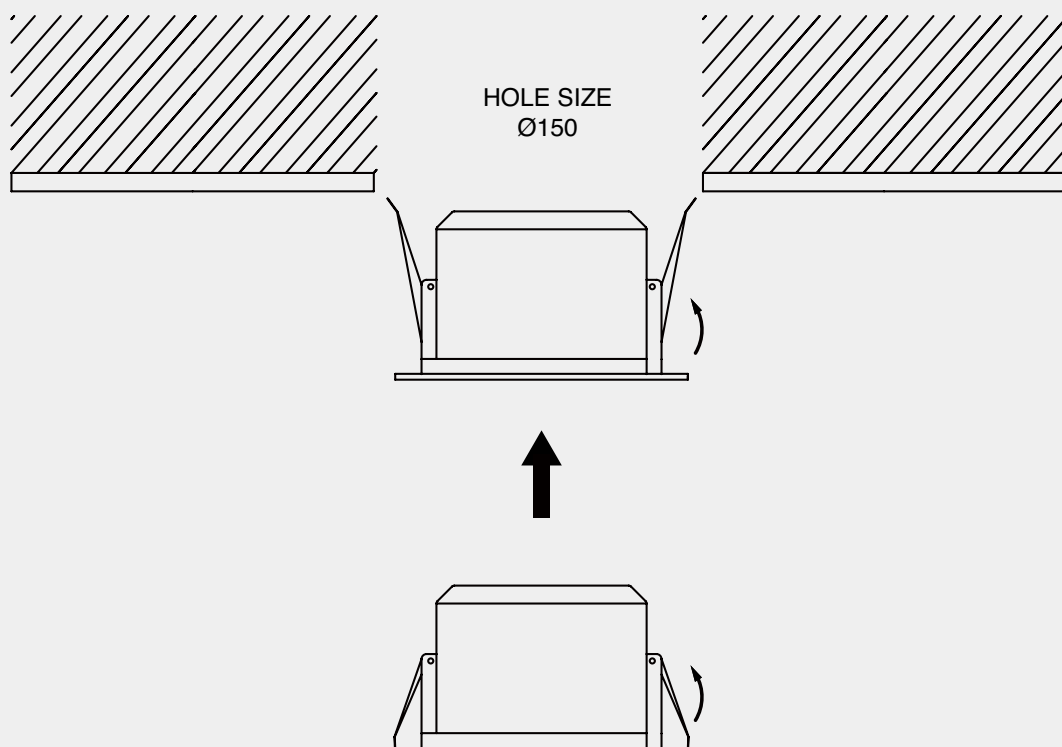
• CS-503F



• CS-510F



SPEAKER INSTALLATION GUIDE



CS-610F/615F is the speaker observing the standard. It is possible to make an announcement for a long time at an emergency situation such as fire as made with the incombustible materials(V0 grade). It is High quality speaker which can prevent from outbreak or expansion of fire caused by the speaker.



FEATURES

- **6.5" Full-range speaker**
- **Using High quality matching transformer (100V)**
- **High sound pressure level and wide frequency response**

Satisfies international standard required for emergency broadcasting speakers. Possible to play a wider frequency range than 400Hz~4kHz.

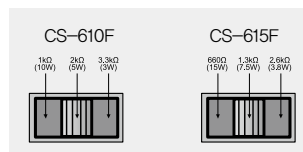
- **Corrosion protection**

Apply corrosion protection coating to enable installation and operation in humid environments.

- **Dust filter**

Use a dust filter inside the grill to block dust ingress and maintain a clean grill.

- **Connection/slide Switch for power selection**



SPECIFICATION

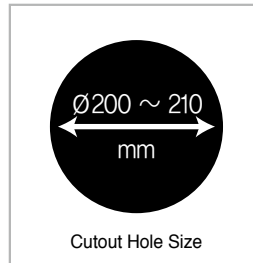
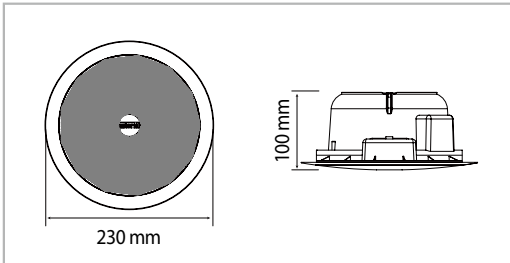
Model		CS-610F	CS-615F
Type		6.5" Full-range Ceiling Speaker	
Unit		6.5"	
Power Handling (AES)		10W	15W
Input Power	100V	10/5/3W	15/7.5/3.8W
	70V	-	-
Impedance	100V	1kΩ/2kΩ/3.3kΩ	660/1.3k/2.6kΩ
	70V	-	-
	LOW	-	-
Power Selection		Slide Switch	
Frequency Response (-10dB)		350Hz ~ 12kHz	350Hz ~ 14kHz
Sensitivity (1W/1m 300,400,500,600Hz avg.)		92dB	93dB
Maximum SPL [Cont]		102dB	105dB
Norminal Dispersion		100°	130°
Input Connector		Bi-Wired	
Enclosure Material		HIPS (V0)	
Enclosure Color (Front)		Gray	
Grill Material		Metal Grill	
Grill Color		Light Gray	
Cut-Out Diameter (Ø, mm)		Ø200 ~ 210	
Weight (Net)		850g	870g
Dimensions (Ø(WxH) x D, mm)		Ø230 x 100	
Weather Resistant		-	
Flame Resistant		O	
Certification		-	
Included Accessories		-	

CS-610F/615F

Ceiling
Speaker

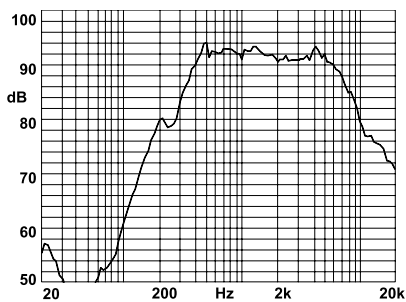
TECHNICAL DATA

DIMENSION

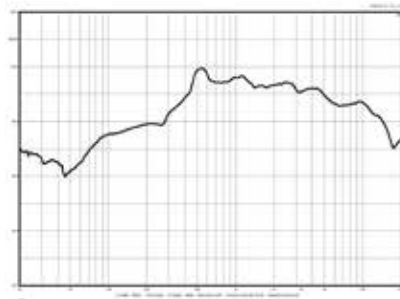


FREQUENCY RANGE

• CS-610F

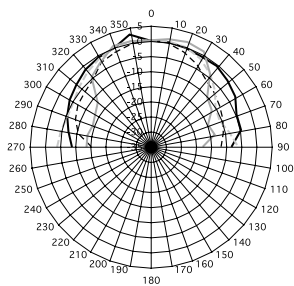


• CS-615F

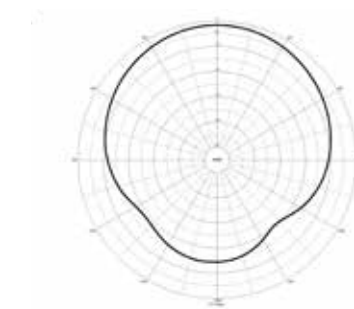


POLAR PATTERN

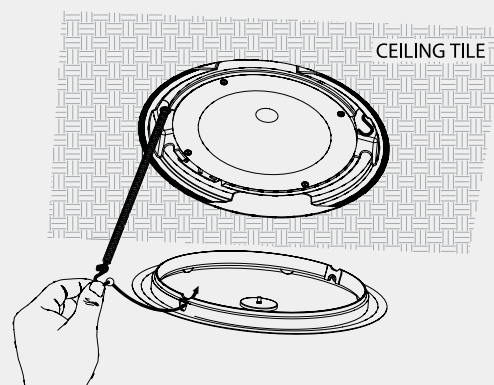
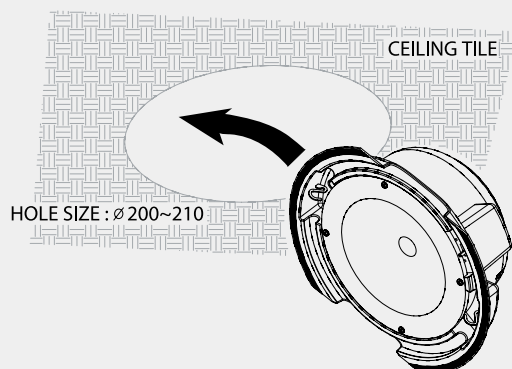
• CS-610F



• CS-615F



SPEAKER INSTALLATION GUIDE



CS-620FH/630FH/680FH is the speaker for playing music using coaxial 2 way driver.

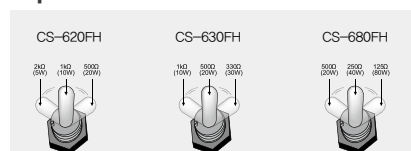
It is the finest solution for the space such as class room, meeting room which needs High quality sound and high intelligibility.



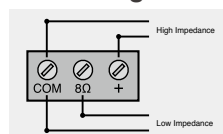
FEATURES

- **6.5" Coaxial 2Way speaker**
- **Using High quality matching transformer (100V)**
- **Low impedance input terminal**
Provides a connection terminal for low impedance (8Ω) to play high quality music.
- **Suitable for music playing**
It is suitable for playing music with a wide band bandwidth ranging from 400Hz~4kHz.
- **Offering an installation bracket**
It ensures an safe installation of speaker by providing High-quality speaker installation tools made up with bracket-ring and bracket-rail.

Tap switch



Connecting the each output cable of speaker



SPECIFICATION

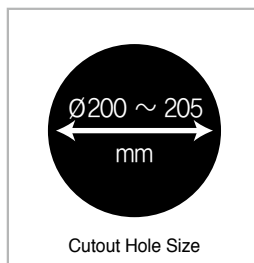
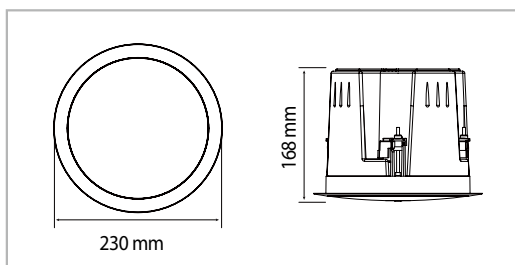
Model		CS-620FH	CS-630FH	CS-680FH
Type		6.5" 2Way Coaxial Ceiling Speaker		
Unit		LF : 6.5", HF : 1"		
Power Handling (AES)		20W	30W	80W
Input Power	100V	20/10/5W	30/20/10W	80/40/20W
	70V	-	-	-
Impedance	100V	500/1k/2k Ω	330/500/1k Ω	125/250/500 Ω
	70V	-	-	-
	LOW	8 Ω		
Power Selection		Toggle Switch		
Frequency Response (-10dB)		200Hz ~ 20kHz		
Sensitivity (1W/1m 300,400,500,600Hz avg.)		88dB	90dB	88dB
Maximum SPL [Cont]		101dB	105dB	107dB
Norminal Dispersion		130°	70°	130°
Input Connector		3P Euroblock		
Enclosure Material		ABS (V0)		
Enclosure Color (Front)		Light Gray		
Grill Material		Metal Grill		
Grill Color		Light Gray		
Cut-Out Diameter (\varnothing , mm)		\varnothing 200 ~ 205		
Weight (Net)		2kg	2.42kg	3.57kg
Dimensions (\varnothing (WxH) x D, mm)		\varnothing 230 x 168		
Weather Resistant		IP34		
Flame Resistant		O		
Certification		-		
Included Accessories		-		

CS-620FH/630FH/680FH

Ceiling
Speaker

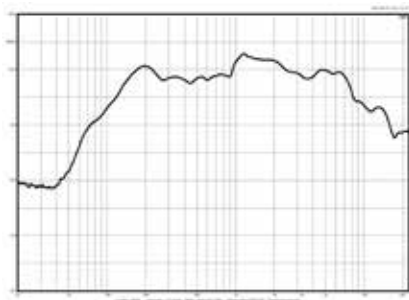
TECHNICAL DATA

DIMENSION

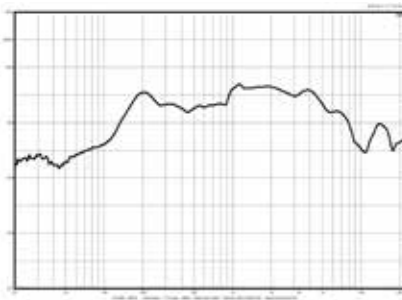


FREQUENCY RANGE

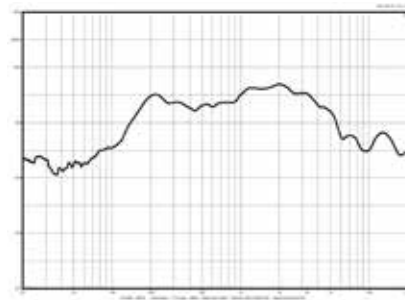
• CS-620FH



• CS-630FH

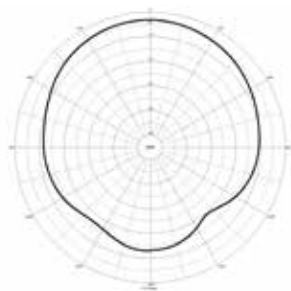


• CS-680FH

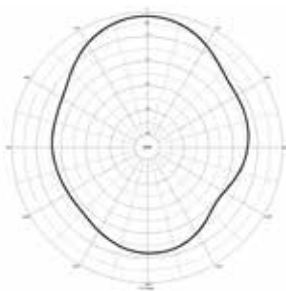


POLAR PATTERN

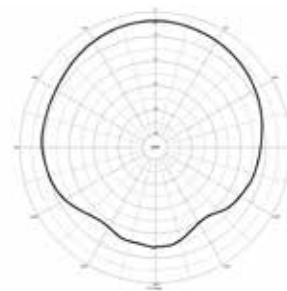
• CS-620FH



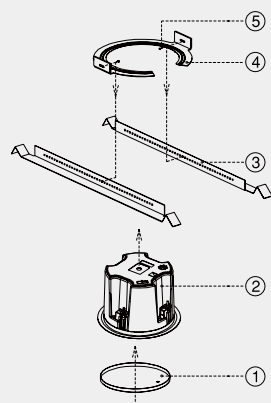
• CS-630FH



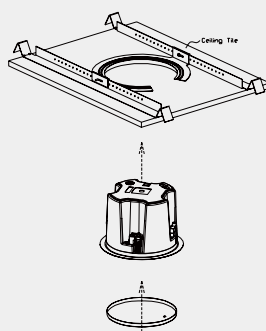
• CS-680FH



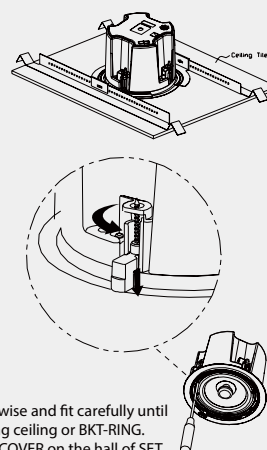
SPEAKER INSTALLATION GUIDE



5	SCREW 1WPTC 4 x 12B	2
4	BKT-RING	1
3	BKT-RAIL	2
2	SET	1
1	GRILL COVER	1
NO	NAME	QTY



※ Ceiling Hole Size : $\varnothing 200 \sim \varnothing 205$



1. Turn clockwise and fit carefully until approaching ceiling or BKT-RING.
2. Put GRILL-COVER on the hall of SET and press to be combined.

CS-503FE is a surface mounted ceiling speaker which enables to be installed without a cut-out hole. In addition, it uses V0 rated flame resistant material. The speaker can perfectly conduct a long-hour operation even in emergency situations such as sudden disasters and fire.



FEATURES

- **5" Full-range speaker**
- **High quality matching transformer (100V)**
- **Easy to installation**

It is possible to install on the wall surface without the need for a cut-out hole.

- **Water-resistant cone of the speaker**

CS-503FE adopts PP made water-resistant cone of the speaker that prevents the unit from corrosion. So, the speaker even maximizes its strength in high humidity environments.

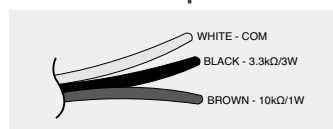
- **V0 rated flame resistant material**

By made up of HIPS V0 rated flame resistant material, it is safe to conduct a long-hour operation even in emergency situations such as sudden disasters and fire.

- **High sound pressure level and wide frequency response**

It has a wide frequency range of 260Hz~10kHz that is broader than national standard of emergency broadcasting speaker.

- **Connection for power selection**



SPECIFICATION

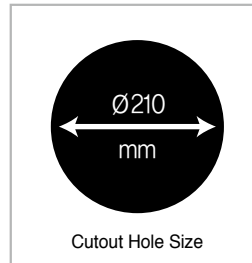
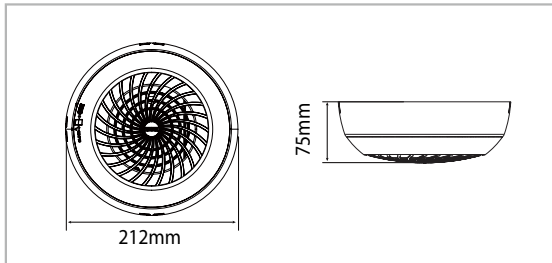
Model		CS-503FE
Type		5" Exposure Ceiling Speaker
Unit		5"
Power Handling (AES)		3W
Input Power	100V	3/1W
	70V	-
Impedance	100V	3.3k/10kΩ
	70V	-
	LOW	-
Power Selection		By Terminal
Frequency Response (-10dB)		260Hz ~ 10kHz
Sensitivity (1W/1m 300,400,500,600Hz avg.)		95dB
Maximum SPL [Cont]		99dB
Norminal Dispersion		-
Input Connector		Euroblock [PCB]
Enclosure Material		HIPS (V0)
Enclosure Color (Front)		White
Grill Material		HIPS (V0)
Grill Color		White
Cut-Out Diameter (Ø, mm)		Ø210
Weight (Net)		760g
Dimensions (Ø(WxH) x D, mm)		Ø212 x 75
Weather Resistant		-
Flame Resistant		O
Certification		KS
Included Accessories		-

CS-503FE

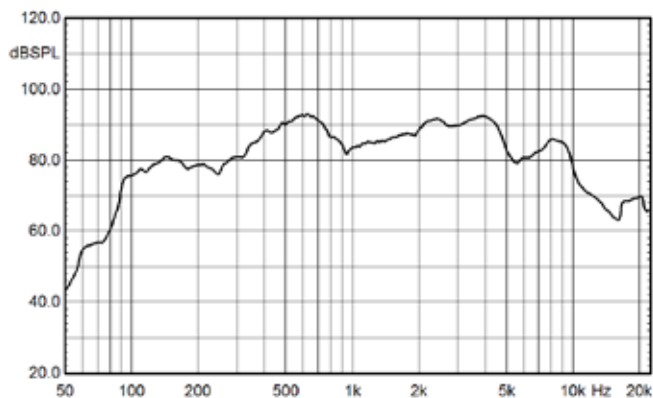
Ceiling
Speaker

TECHNICAL DATA

DIMENSION

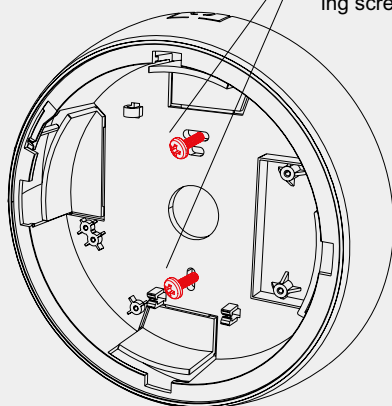


FREQUENCY RANGE

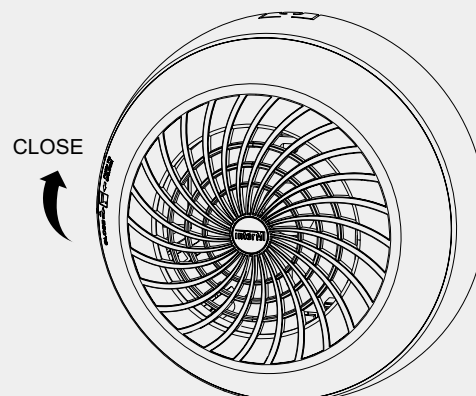


SPEAKER INSTALLATION GUIDE

SCREW(2EA)
It is able to use as surface
mounted speaker by connect-
ing screws to speaker.



STEP 01



STEP 02

CS-301FC/303FC is the speaker can be used in such places as hotel and other residential places to make an announcement or play the music.



FEATURES

- 1Way speaker system
- High quality trans version
- Aesthetic design
- Easy installation (Clip type)
- Nonflammable material

SPECIFICATION

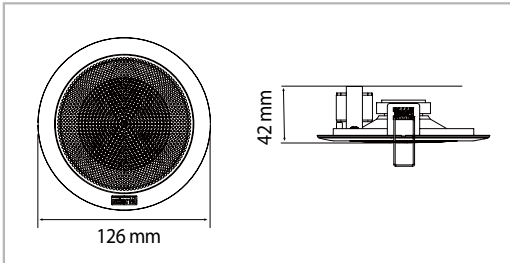
Model		CS-301FC	CS-303FC
Type		3" Full-range Ceiling Type Apart Speaker	
Unit		3"	
Power Handling (AES)		1W	3W
Input Power	100V	1W	3W
	70V	-	-
Impedance	100V	10kΩ	3.14kΩ
	70V	-	-
	LOW	-	-
Power Selection		By Wiring	
Frequency Response (-10dB)		200Hz ~ 15kHz	200Hz ~ 13kHz
Sensitivity (1W/1m 300,400,500,600Hz avg.)		80dB	83dB
Maximum SPL [Cont]		80dB	87dB
Normal Dispersion		-	
Input Connector		Bi-Wired	
Enclosure Material		ABS+PC (V0)	
Enclosure Color (Front)		White	
Grill Material		ABS+PC (V0)	
Grill Color		White	
Cut-Out Diameter (Ø, mm)		-	
Weight (Net)		173g	203g
Dimensions (Ø(WxH) x D, mm)		Ø126 x 42	
Weather Resistant		-	
Flame Resistant		O	
Certification		-	
Included Accessories		-	

CS-301FC/303FC

Ceiling
Speaker

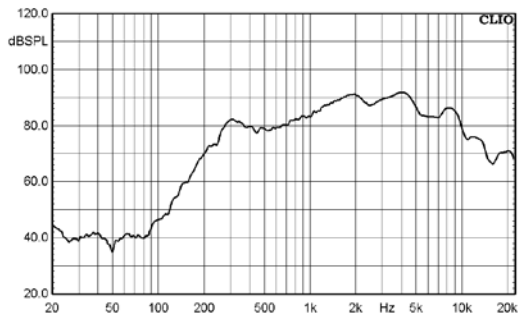
TECHNICAL DATA

DIMENSION

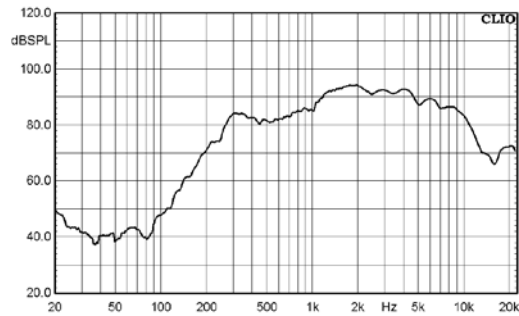


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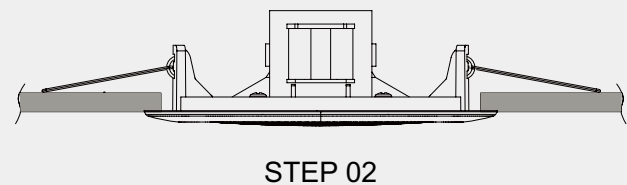
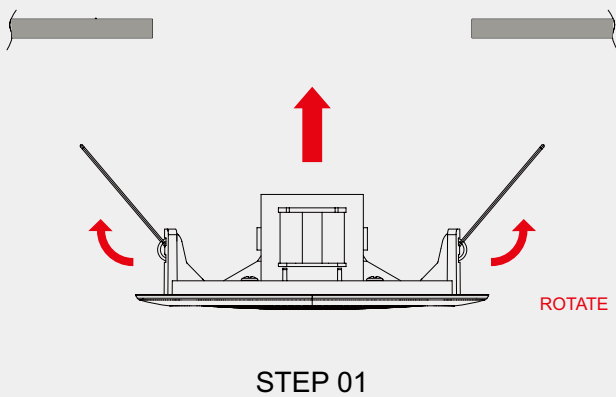
• CS-301FC



• CS-303FC



SPEAKER INSTALLATION GUIDE



CS-301FQ/303FQ is the speaker can be used in such places as hotel and other residential places to make an announcement or play the music.



FEATURES

- 1Way speaker system
- High quality trans version
- Aesthetic design
- Easy installation
- Nonflammable material

SPECIFICATION

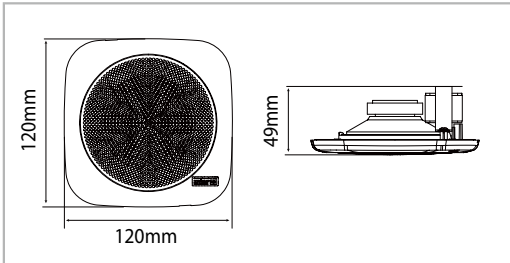
Model		CS-301FQ	CS-303FQ
Type		3" Full-range Square Wall Type Apart Speaker	
Unit		3"	
Power Handling (AES)		1W	3W
Input Power	100V	1W	3W
	70V	-	-
Impedance	100V	10kΩ	3.14kΩ
	70V	-	-
	LOW	-	-
Power Selection		By Wiring	
Frequency Response (-10dB)		180Hz ~ 19kHz	200Hz ~ 19kHz
Sensitivity (1W/1m 300,400,500,600Hz avg.)		80dB	82dB
Maximum SPL [Cont]		80dB	86dB
Normal Dispersion		-	
Input Connector		Bi-Wired	
Enclosure Material		ABS+PC (V0)	
Enclosure Color (Front)		White	
Grill Material		ABS+PC (V0)	
Grill Color		White	
Cut-Out Diameter (Ø, mm)		-	
Weight (Net)		189g	217g
Dimensions (Ø(WxH) x D, mm)		120 x 120 x 49	
Weather Resistant		-	
Flame Resistant		O	
Certification		-	
Included Accessories		M4 SCREW 4EA	

CS-301FQ/303FQ

Ceiling
Speaker

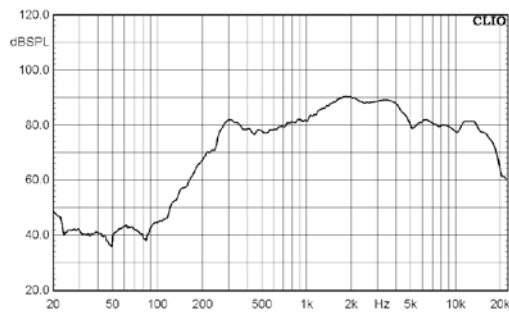
TECHNICAL DATA

DIMENSION

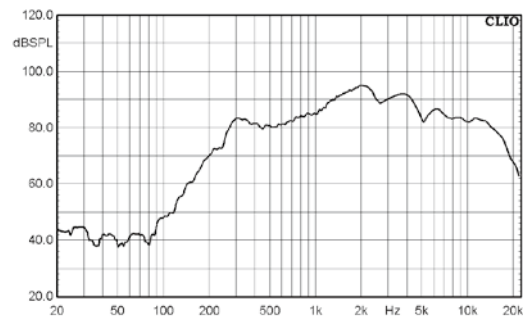


FREQUENCY RANGE

• CS-301FQ



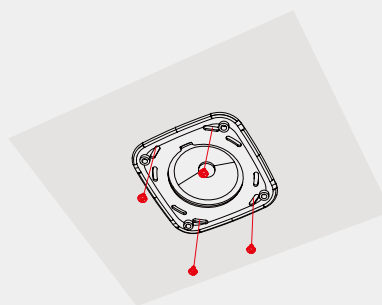
• CS-303FQ



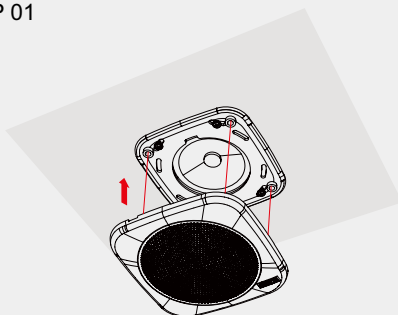
SPEAKER INSTALLATION GUIDE



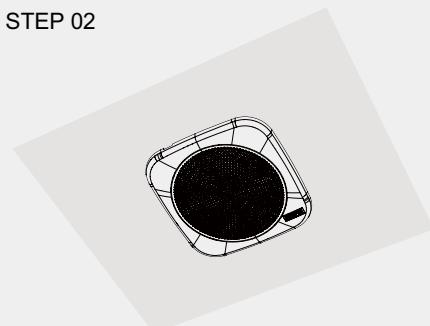
STEP 01



STEP 02



STEP 03



STEP 04



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※ Design and specification are subject to be changed for the improvement of product quality without pre notice.

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