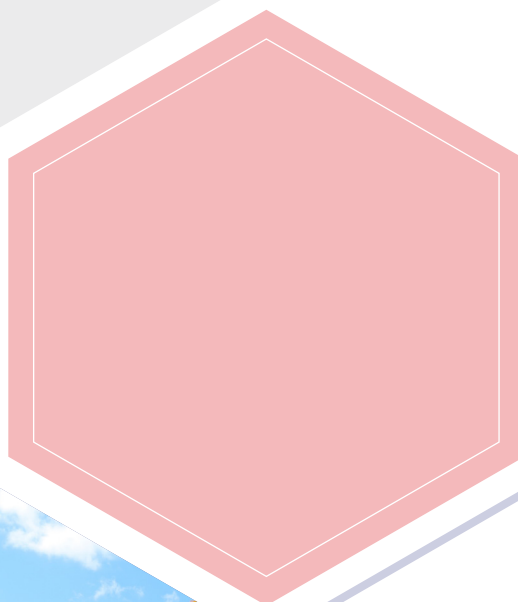


COLUMN SPEAKER



CU-20 Series



CU-7000 Series



CU-20 Series
CU-40 Series
CU-7000 Series
CU-9000 Series



CU-40 Series



COLUMN
SPEAKER



CU-9000 Series



COLUMN SPEAKER

CU-20 SERIES

CU-21F/22F/24F, CU-21FO/22FO/24FO



CU-40 SERIES

CU-41F/42F/44F, CU-41FO/42FO/44FO



CU-7000 SERIES

CU-7060/7120

CU-9000 SERIES

CU-9030/9060/9120



Column speaker is for public address and can be used for the purposes of announcement for delivering mainly messages and notifications of emergency broadcasting for safe evacuation in the event of disaster, and BGM broadcasting for creating natural atmosphere and image. You can select 100V/70V, 100/50 output for Inter-M column speaker and it can respond to various use environment by providing indoor speaker and outdoor speaker applied waterproof and dustproof design. Inter-M continuously provides multiple speaker line-ups with high reliability, high durability, and high quality.

CU-20 SERIES



CU-20 series models are column speakers achieving the reasonable price while maintaining the performance for announcement and emergency broadcasting. They are speakers with solid designs using simple and clean aluminum bodies. They also provide indoor and outdoor types in order to use them at various places such as **shopping mall, school, parking lot, hotel, convention center, station, and airport.**

CU-40 SERIES



CU-40 series models are standard column speakers achieving broad frequency band in order to be used for multi-purposes like emergency broadcasting, general broadcasting, and BGM broadcasting. They have a solid design through aluminum body and steel grill and provide wall mounting knuckles and U-brackets. They also provide indoor and outdoor types in order to use them at various places such as **station, airport, shopping mall, theme park, and parking lot.**

CU-7000 SERIES



The CU-7000 series is an indoor column speaker specialized for places where rich sound pressure and high quality music reproduction are required. Designed to minimize driver-to-driver interference, it delivers clear and rich sound with high-frequency and low-loss professional-quality audio. It is suitable for indoor space such as **churches, religious facilities, hotel lobby, restaurant, etc.**

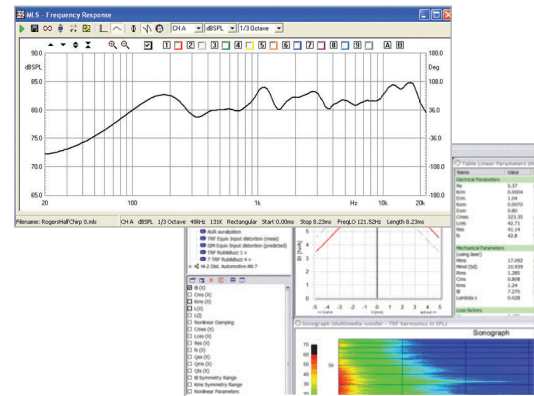
CU-9000 SERIES



The CU-9000 series is a high-performance column speaker specialized in demanding environments. It is equipped with a high-performance speaker driver that enables clear voice transmission from a distance, and is designed to be durable with a waterproof and dust-proof design (IP65), an aluminium body and a galvanized steel grille. Therefore, it can be applied to **special facilities such as brine, port facilities that need to cope with corrosion, and factories that require dust prevention.**

Quality Control – Provision of Reliability

Inter-M ships only reliable products with strict quality control through various tests such as 100-hour full power operation in a row, temperature (-10°C~40°C) and humidity(90~95%) to all of PA speakers including column speaker.



Outdoor Type Speaker with Waterproof & Moistureproof Features

Outdoor type column speaker of Inter-M is certified for waterproof & moistureproof so that it can provide optimal performance even in poor outdoor environment.

IP34 : CU-21/22/24F/FO, CU-41/42/44F/FO, IP65 : CU-9030/9060/9120

Even use at outside for long time, it prevents deformation and fault.

1st Digit – SOLID (Degree of protection against solid objects)

| | | | |
|--|--|--|---|
| | 1 Protected against a solid object greater than 50mm, such as a hand. | | 4 Protected against a solid object greater than 2mm, such as a thin strap. |
| | 2 Protected against a solid object greater than 12mm, such as a finger. | | 5 Dust protected. Prevents ingress of dust sufficient to cause harm. |
| | 3 Protected against a solid object greater than 2.5mm, such as a wire. | | 6 Dust tight. No ingress of dust. |



2nd Digit – LIQUID (Degree of protection against water)

| | | | | | |
|--|--|--|--|--|---|
| | 1 Protected against water drops. | | 4 Protected against water splashing from any angle. | | 7 Protected against the effects of temporary submersion in water. (30 minutes at 3 feet) |
| | 2 Protected against water drops at a 15 degree angle. | | 5 Protected against water jets from any angle. | | 8 Protected against the effects of permanent submersion in water. (Up to 13 feet) |
| | 3 Protected against water spray at 60 degree angle. | | 6 Protected against powerful water jets and heavy seas. | | |

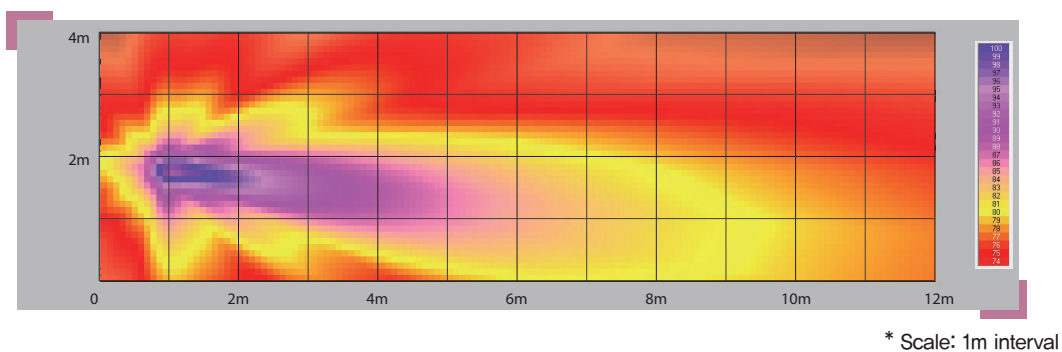
Selection of Long Distance Transfer and Output

Inter-M column speaker is designed to transmit the sound without any loss even in broaden area where having high-rise buildings and needing long distance transfer by applying high quality of matching transformer (high impedance, 100V line). In addition, it can correspond to various environments as it can select 100V/70V, 100/50 output.

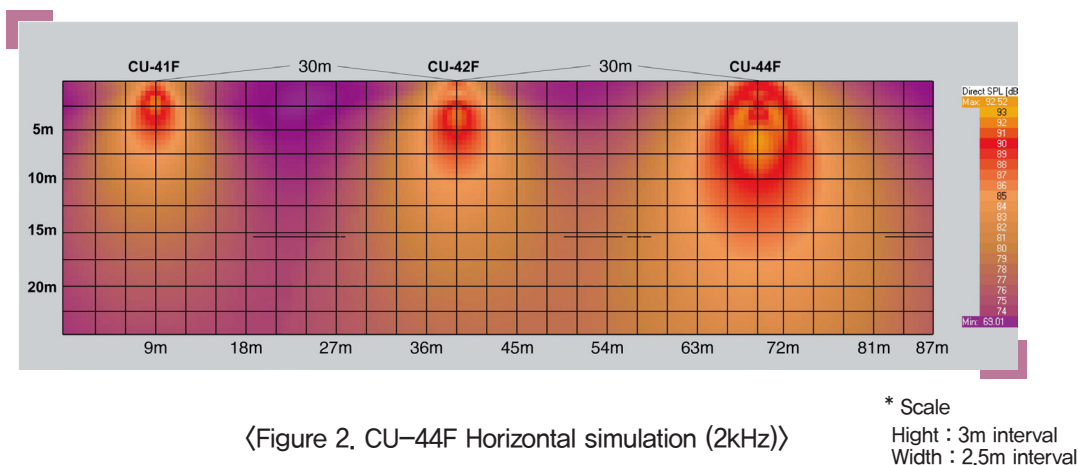
Recommended usage of Column speakers

Column speakers are used in a wide variety of applications such as Emergency/Announcement broadcasting, BGM in various facilities, etc. The column speaker has a wide horizontal directional angle, and vertical directional angle can be narrowed and concentrated without spreading extra sound energy above and below. In outdoor use such as parks and outdoor parking lot, it can transmit a sound farther and cover a wide area. Also, in facilities with large reverberations such as airports, stations, and underground parking lots, the sound can be delivered directly to people where they are located, ensuring good intelligibility.

Intelligibility is an important factor when conveying information including BGM with a voice. If the intelligibility is poor, it can lose the ability to transmit information and cause simple noise. The articulation of the voice, which is a combination of vowels and consonants, is determined by the listening level of consonants. The vowels that occupy most of the voice energy are concentrated in the frequency band below about 1-2kHz. In addition, consonants that influence intelligibility are concentrated in the frequency band over 2kHz, and the frequency ranges from 7 to 8kHz depending on the pronunciation. Since human hearing is the most sensitive in the 2kHz to 4kHz band, it requires more than 3kHz to 4kHz playback in the mid-range to deliver the voice with good intelligibility.



〈Figure 1. Simulation with CU-44F viewed vertically (2kHz)〉



〈Figure 2. CU-44F Horizontal simulation (2kHz)〉

Viewed in horizontal and vertical directions, CU-44F is a simulation of 2kHz EASE sound pressure distribution, a standard column speaker that can support from announcement to BGM playback.

At the frequency of 2-4 kHz, which influences intelligibility, the horizontal has a wide spreading characteristic of 130 °, and the vertical is made narrower by about 30 °.

When used indoors, the energy reflection and reverberation on the ceiling is reduced, thus paging becomes more intelligible. Maintaining performance for announcement/emergency broadcasting, Inter-M's Column CU series is equipped with the CU-20 series of a more reasonable price, indoor CU-7000 series specialized for music playback, and the high-performance CU-9000 series specialized in demanding outdoor environments to be used for multipurpose for Guide/Emergency broadcasting and BGM, in addition to the CU-40 series, which is a column standard that realizes a wide frequency band.

* Required sound pressure level according to noise

The following table is showing the noise level and the sound pressure level of each space.

It is clear when the broadcasting is delivered at a sound pressure with 6dB higher than the noise level where the space using, and optimal playback is possible which is not masked by noise

<Sound pressure standard table>

| Space | Average noise level (dB) | Broadcast sound pressure level | |
|-----------------------------|--------------------------|--------------------------------|--------------|
| | | BGM (Music) | Announcement |
| Train platform, parking lot | 80 ~ 90 | 93 | 96 |
| Factory, workspace | 75 ~ 85 | 88 | 91 |
| General store, waiting room | 70 ~ 80 | 83 | 86 |
| Hotel, office, etc | 60 ~ 70 | 73 | 76 |

When installing a speaker, EASE simulation can visually express the speaker's cover range, sound pressure level, and articulation, including architectural sound. It is simulation software commonly used in the professional market because it allows an accurate simulation at the design level.

| Series | Item | Model | Input Power | Max SPL | Weight | Dimension (mm) | IP | Page |
|--------------------|---------|---------|----------------------|---------|--------|-----------------|------|------|
| 20 Series | Indoor | CU-21F | 10W/7.5W/ 5W/2.5W | 97dB | 1.8kg | 135 x 280 x 109 | - | P10 |
| | | CU-22F | 20W/15W/ 10W/5W | 103dB | 3kg | 135 x 280 x 109 | - | |
| | | CU-24F | 40W/30W/ 20W/10W | 107dB | 4.65kg | 135 x 280 x 109 | - | |
| | Outdoor | CU-21FO | 10W/7.5W/ 5W/2.5W | 97dB | 1.8kg | 135 x 280 x 109 | IP34 | P11 |
| | | CU-22FO | 20W/15W/ 10W/5W | 103dB | 3kg | 135 x 280 x 109 | IP34 | |
| | | CU-24FO | 40W/30W/ 20W/10W | 107dB | 4.65kg | 135 x 280 x 109 | IP34 | |
| 40 Series | Indoor | CU-41F | 10W/7.5W/ 5W/2.5W | 98dB | 1.95kg | 156 x 300 x 129 | - | P12 |
| | | CU-42F | 20W/15W/ 10W/5W | 103dB | 3.15kg | 156 x 400 x 129 | - | |
| | | CU-44F | 40W/30W/ 20W/10W | 108dB | 4.75kg | 156 x 600 x 129 | - | |
| | Outdoor | CU-41FO | 10W/7.5W/ 5W/2.5W | 98dB | 1.95kg | 156 x 300 x 129 | IP34 | P13 |
| | | CU-42FO | 20W/15W/ 10W/5W | 103dB | 3.15kg | 156 x 400 x 129 | IP34 | |
| | | CU-44FO | 40W/30W/ 20W/10W | 108dB | 4.75kg | 156 x 600 x 129 | IP34 | |
| 7000 Series | Indoor | CU-7060 | 60W/30W | 111dB | 5.42kg | 130 x 420 x 195 | - | P14 |
| | | CU-7120 | 120W/60W | 116dB | 8.02kg | 130 x 620 x 195 | - | |
| 9000 Series | Special | CU-9030 | 30W/15W | 106dB | 3.09kg | 130 x 320 x 125 | IP65 | P15 |
| | | CU-9060 | 60W/30W | 110dB | 4.66kg | 130 x 450 x 125 | IP65 | |
| | | CU-9120 | 120W/60W | 112dB | 7.05kg | 130 x 650 x 125 | IP65 | |

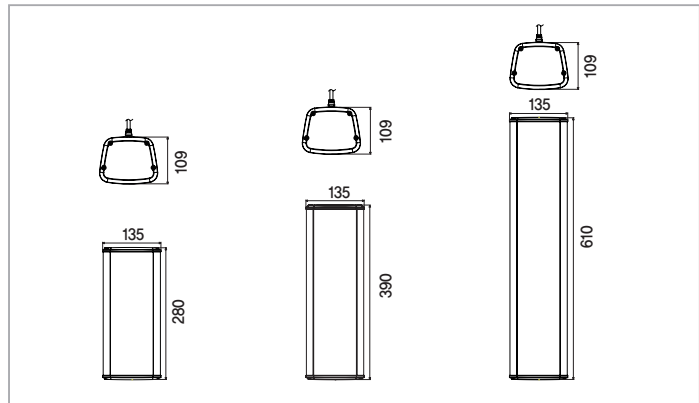
Speaker Guide by Use Place

☆ : BEST, ○ : GOOD

| Item | | For Indoor Use | | | For Outdoor Use | | Special Use |
|-----------------------|--------------------------------|----------------|--------|---------|-----------------|---------|-------------|
| Series | | CU 20F | CU 40F | CU 7000 | CU 20FO | CU 40FO | CU 9000 |
| Education Facilities | School | ○ | ☆ | | ○ | ☆ | ○ |
| | University | ○ | ☆ | ○ | ○ | ☆ | ○ |
| | Training Institute | ○ | ☆ | ○ | ○ | ☆ | ○ |
| Cultural Facilities | Exhibition Hall | ○ | ☆ | | ○ | ☆ | |
| | Religious Facility | | ○ | ☆ | ○ | ☆ | |
| | Theme Park | | ☆ | ○ | | ○ | ☆ |
| Commercial Facilities | Shopping Center | ○ | ☆ | ○ | ○ | ☆ | |
| | Restaurant | | ○ | ☆ | ○ | ☆ | |
| | Cafe | | ○ | ☆ | ○ | ☆ | |
| | Department Store | | ○ | ☆ | ○ | ☆ | |
| | Government Office | ○ | ☆ | ○ | | ○ | ☆ |
| | Factory | ○ | ☆ | | | ○ | ☆ |
| | Airport | | ☆ | ○ | | ○ | ☆ |
| | Station | ○ | ☆ | | | ○ | ☆ |
| | Hospital | ○ | ☆ | ○ | | ○ | ☆ |
| Sports Facilities | Gym | ○ | ☆ | | ○ | ☆ | |
| | Stadium | ○ | ☆ | | | ○ | ☆ |
| | Park | | | | ○ | ○ | ☆ |
| Other Facilities | Apartment | ○ | ☆ | | ○ | ☆ | |
| | High-Rise Residential Building | ○ | ☆ | ○ | ○ | ☆ | |
| | Military Facility | ○ | ☆ | | | ○ | ☆ |
| | Port Facility | ○ | ☆ | | | ○ | ☆ |
| | Parking Lot | ○ | ☆ | | | ○ | ☆ |

1. Decide the use place first and then select if it is for indoor or outdoor.
2. CU-20 series are entry-level indoor/outdoor products and CU-40 series are standard-level indoor/outdoor products
CU-7000 series are exclusive indoor product for BGM and CU-9000 series are exclusive outdoor product corresponding to EN54.
3. For more details, you can check at the right page and move to the page.

CU-21F/22F/24F



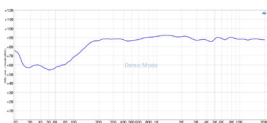
- ◆ Use 4" full-range of driver having excellent sound quality/articulation/durability
- ◆ Indoor type, 100V/70V line of high impedance model
- ◆ Use solid aluminum body and flame retarding grill
- ◆ Are installed harmoniously to interior architectural design using clean & simple design and silver color
- ◆ Providing 3 models to choose 10W / 20W / 40W power depending on the application
- ◆ Show the maximum feature of exclusive speaker unit with the use of high-performance matching transformer produced by Inter-M
- ◆ Easy input power selection through wiring
- ◆ Provide U-bracket which can be easily installed to street lamp and pole

SPECIFICATION

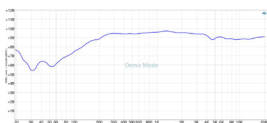
| Model | | CU-21F | CU-22F | CU-24F |
|----------------------------|------|--|-----------------------------------|-----------------------------------|
| Type | | Single 4" Full-range Column Speaker | Dual 4" Full-range Column Speaker | Quad 4" Full-range Column Speaker |
| Driver | | 4" x 1 | 4" x 2 | 4" x 4 |
| Power Handling (AES) | | 10W | 20W | 40W |
| Input Power | 100V | 10/7.5/5/2.5W | 20/15/10/5W | 40/30/20/10W |
| | 70V | 10/7.5/5/2.5W | 20/15/10/5W | 40/30/20/10W |
| Impedance | 100V | 1k/1.3k/2k/4kΩ | 500/660/1k/2kΩ | 250/330/500/1kΩ |
| | 70V | 500/660/1k/2kΩ | 250/330/500/1KΩ | 125/160/250/500Ω |
| Power Selection | | By Wiring | | |
| Frequency Range(-10dB) | | 127Hz ~ 20kHz | 137Hz ~ 20kHz | 128Hz ~ 20kHz |
| Frequency Range(-20%) | | 100Hz ~ 20kHz | 108Hz ~ 20kHz | 94Hz ~ 20kHz |
| Sensitivity (1W/1m, 1kHz) | | 87dB | 90dB | 91dB |
| Maximum SPL[Cont] | | 97dB | 103dB | 107dB |
| Nominal Dispersion(HxV) | 1kHz | 205° x 154° | 220° x 120° | 208° x 60° |
| | 4kHz | 122° x 141° | 103° x 33° | 106° x 16° |
| Input Connection | | Bi-Wired INPUT Line Direct Connection | | |
| Enclosure Material | | Body : AL/Top, Bottom : Composite PP(GP-3152F), INSERT NUT | | |
| Enclosure Color | | Body : Silver/Top, Bottom : Black | | |
| Grille Material | | EGI 0.8T | EGI 0.8T | EGI 0.8T |
| Grille Color | | SILVER | SILVER | SILVER |
| Weight(Net) | | 1.8kg | 3kg | 4.65kg |
| Dimensions(Net, WxHxD, mm) | | 135 x 280 x 109 | 135 x 390 x 109 | 135 x 610 x 109 |
| Flame Resistant | | O | O | O |
| Included Accessories | | U Bracket | | |

FREQUENCY RANGE

• CU-21F



• CU-24F

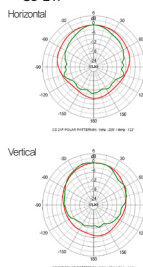


• CU-22F

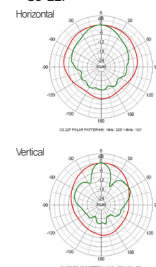


POLAR PATTERN (1kHz/4kHz)

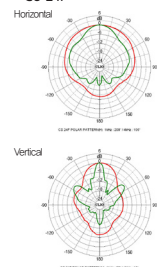
• CU-21F



• CU-22F

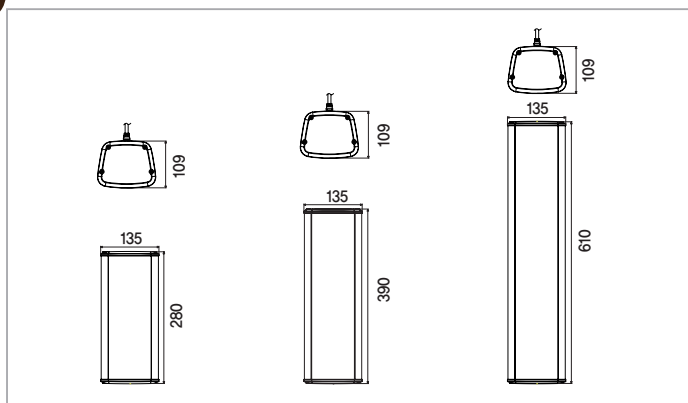


• CU-24F



— 1kHz
— 4kHz

CU-21FO/22FO/24FO



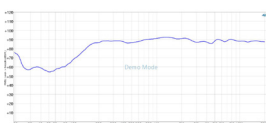
- ◆ Use 4" full-range of driver having excellent sound quality/articulation/durability
- ◆ Outdoor type, 100V/70V line of high impedance model
- ◆ Use solid aluminum body and flame retarding grill
- ◆ Use titanium color which does not damage the landscape of outdoor facility and prevents the discoloration even for long time use with clean & simple design
- ◆ Excellent waterproof, moistureproof, and dustproof (IP34)
- ◆ Providing 3 models to choose 10W / 20W / 40W power depending on the application
- ◆ Show the maximum feature of exclusive speaker unit with the use of high-performance matching transformer produced by Inter-M
- ◆ Easy input power selection through wiring
- ◆ Provide exclusive knuckle bracket which enables the angle adjustment 30 degree downward and each 90 degree toward right and left

SPECIFICATION

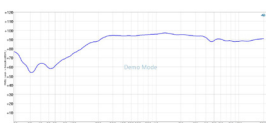
| Model | | CU-21FO | CU-22FO | CU-24FO |
|----------------------------|------|--|-----------------------------------|-----------------------------------|
| Type | | Single 4" Full-range Column Speaker | Dual 4" Full-range Column Speaker | Quad 4" Full-range Column Speaker |
| Driver | | 4" x 1 | 4" x 2 | 4" x 4 |
| Power Handling(AES) | | 10W | 20W | 40W |
| Input Power | 100V | 10/7.5/5/2.5W | 20/15/10/5W | 40/30/20/10W |
| | 100V | 10/7.5/5/2.5W | 20/15/10/5W | 40/30/20/10W |
| Impedance | 100V | 1k/1.3k/2k/4kΩ | 500/660/1k/2kΩ | 250/330/500/1kΩ |
| | 100V | 500/660/1k/2kΩ | 250/330/500/1kΩ | 125/160/250/500Ω |
| Power Selection | | By Wiring | | |
| Frequency Range(-10dB) | | 127Hz ~ 20kHz | 137Hz ~ 20kHz | 128Hz ~ 20kHz |
| Frequency Range(-20%) | | 100Hz ~ 20kHz | 108Hz ~ 20kHz | 94Hz ~ 20kHz |
| Sensitivity(1W/1m, 1kHz) | | 87dB | 90dB | 91dB |
| Maximum SPL[Cont] | | 97dB | 103dB | 107dB |
| Nominal Dispersion(HxV) | 1kHz | 205° x 154° | 220° x 120° | 208° x 60° |
| | 4kHz | 122° x 141° | 103° x 33° | 106° x 16° |
| Input Connection | | Bi-Wired INPUT Line Direct Connection | | |
| Enclosure Material | | Body : AL/Top, Bottom : Composite PP(GP-3152F), INSERT NUT | | |
| Enclosure Color | | Body : Light Brown/Top, Bottom : Black | | |
| Grille Material | | EGI 0.8T | | |
| Grille Color | | Light Brown | | |
| Weight(Net) | | 1.8kg | 3kg | 4.65kg |
| Dimensions(Net, WxHxD, mm) | | 135 x 280 x 109 | 135 x 390 x 109 | 135 x 610 x 109 |
| Weather Resistant | | IP34 | | |
| Flame Resistant | | O | O | O |
| Included Accessories | | U Bracket | | |

FREQUENCY RANGE

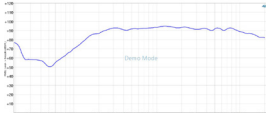
• CU-21FO



• CU-24FO



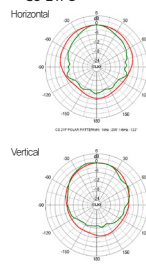
• CU-22FO



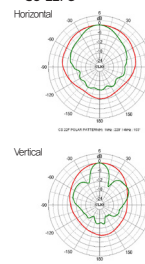
POLAR PATTERN (1kHz/4kHz)

— 1kHz
— 4kHz

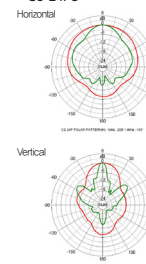
• CU-21FO



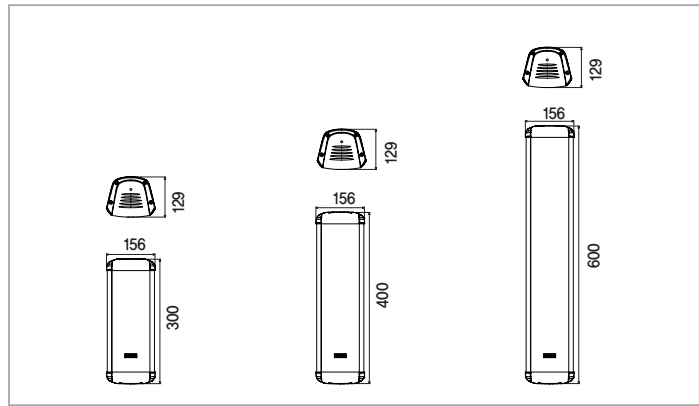
• CU-22FO



• CU-24FO



CU-41F/42F/44F



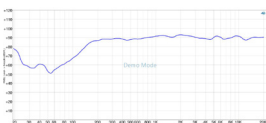
- ◆ Use 4" full-range of driver having excellent sound quality/articulation/durability
- ◆ Indoor type, 100V/70V line of high impedance steel model
- ◆ Use solid aluminum body and flame retarding grill
- ◆ Are suitable to announcement and emergency broadcasting as well as BGM play with the feature of broad frequency response
- ◆ Are installed harmoniously to the architectural design with light grey color
- ◆ Providing 3 models to choose 10W / 20W / 40W power depending on the application
- ◆ Show the maximum feature of exclusive speaker unit with the use of high-performance matching transformer produced by Inter-M
- ◆ Easy input power selection through wiring
- ◆ Provide exclusive knuckle bracket which enables the angle adjustment 30 degree downward and each 90 degree toward right and left

SPECIFICATION

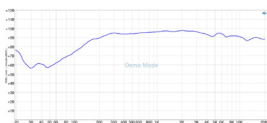
| Model | | CU-41F | | CU-42F | | CU-44F | |
|-----------------------------|------|---------------------------------------|--|-----------------------------------|--|-----------------------------------|--|
| Type | | Single 4" Full-range Column Speaker | | Dual 4" Full-range Column Speaker | | Quad 4" Full-range Column Speaker | |
| Driver | | 4" x 1 | | 4" x 2 | | 4" x 4 | |
| Power Handling (AES) | | 10W | | 20W | | 40W | |
| Input Power | 100V | 10/7.5/5/2.5W | | 20/15/10/5W | | 40/30/20/10W | |
| Impedance | 100V | 1k/1.3k/2k/4kΩ | | 500/660/1k/2kΩ | | 250/330/500/1kΩ | |
| Power Selection | | By Wiring | | | | | |
| Frequency Range(-10dB) | | 166Hz ~ 20kHz | | 169Hz ~ 20kHz | | 194Hz ~ 20kHz | |
| Frequency Range(-20%) | | 149Hz ~ 20kHz | | 149Hz ~ 20kHz | | 150Hz ~ 20kHz | |
| Sensitivity (1W/1m, 1kHz) | | 135Hz ~ 20kHz | | 133Hz ~ 20kHz | | 130Hz ~ 20kHz | |
| Maximum SPL[Cont] | | 111Hz ~ 20kHz | | 100Hz ~ 20kHz | | 97Hz ~ 20kHz | |
| Nominal Dispersion(HxV) | 1kHz | 167° x 110° | | 176° x 103° | | 146° x 53° | |
| | 4kHz | 69° x 83° | | 95° x 29° | | 70° x 15° | |
| Input Connector | | Bi-Wired INPUT Line Direct Connection | | | | | |
| Enclosure Material | | AL Body/ABS top, bottom Cover | | | | | |
| Enclosure Color | | Light Gray | | | | | |
| Grille Material | | Metal Grille | | | | | |
| Grille Color | | Light Gray | | | | | |
| Weight (Net) | | 1.95kg | | 3.15kg | | 4.75kg | |
| Dimensions (Net, WxHxD, mm) | | 156 x 300 x 129 | | 156 x 400 x 129 | | 156 x 600 x 129 | |
| Flame Resistant | | O | | O | | O | |
| Certification | | KS | | | | | |
| Included Accessories | | Wall Bracket | | | | | |

FREQUENCY RANGE

• CU-41F



• CU-44F

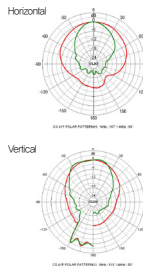


• CU-42F

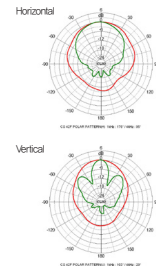


POLAR PATTERN (1kHz/4kHz)

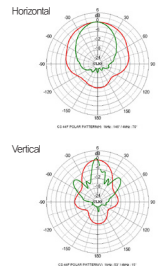
• CU-41F



• CU-42F

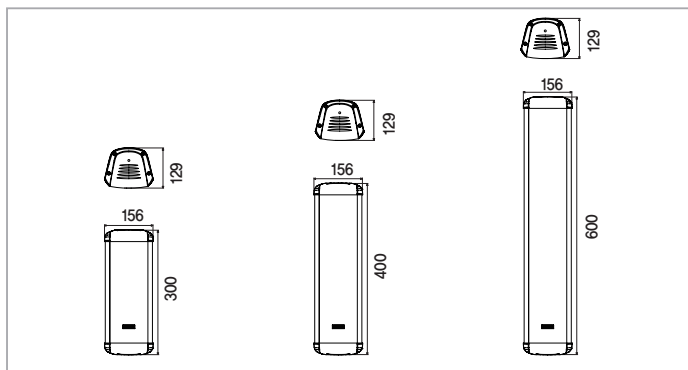


• CU-44F



— 1kHz
— 4kHz

CU-41FO/42FO/44FO



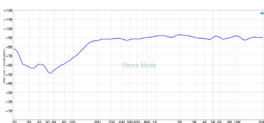
- ◆ Use 4" full-range of driver having excellent sound quality/articulation/durability
- ◆ Outdoor type, 100V/70V line of high impedance model
- ◆ Use solid aluminum body and flame retarding steel grill
- ◆ Are suitable to announcement and emergency broadcasting as well as BGM play with the feature of broad frequency response
- ◆ Are installed harmoniously to the architectural design with light grey color
- ◆ Excellent waterproof, moistureproof, and dustproof (IP34)
- ◆ Providing 3 models to choose 10W / 20W / 40W power depending on the application
- ◆ Show the maximum feature of exclusive speaker unit with the use of high-performance matching transformer produced by Inter-M
- ◆ Easy input power selection through wiring
- ◆ Provide exclusive knuckle bracket which enables the angle adjustment 30 degree downward and each 90 degree toward right and left

SPECIFICATION

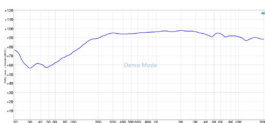
| Model | | CU-41FO/FOU | CU-42FO/FOU | CU-44FO/FOU |
|----------------------------|------|--|-----------------------------------|-----------------------------------|
| Type | | Single 4" Full-range Column Speaker | Dual 4" Full-range Column Speaker | Quad 4" Full-range Column Speaker |
| Driver | | 4" x 1 | 4" x 2 | 4" x 4 |
| Power Handling (AES) | | 10W | 20W | 40W |
| Input Power | 100V | 10/7.5/5/2.5W | 20/15/10/5W | 40/30/20/10W |
| Impedance | 100V | 1k/1.3k/2k/4kΩ | 500/660/1k/2kΩ | 250/330/500/1kΩ |
| Power Selection | | By Wiring | | |
| Frequency Range(-10dB) | | 135Hz ~ 20kHz | 133Hz ~ 20kHz | 130Hz ~ 20kHz |
| Frequency Range(-20%) | | 111Hz ~ 20kHz | 100Hz ~ 20kHz | 97Hz ~ 20kHz |
| Sensitivity (1W/1m, 1kHz) | | 88dB | 90dB | 92dB |
| Maximum SPL[Cont] | | 98dB | 103dB | 108dB |
| Nominal Dispersion(HxV) | 1kHz | 167° x 110° | 176° x 103° | 146° x 53° |
| | 4kHz | 69° x 83° | 95° x 29° | 70° x 15° |
| Input Connection | | Bi-Wired INPUT Line Direct Connection | | |
| Enclosure Material | | AL Body/ABS top, bottom Cover | | |
| Enclosure Color | | Light Brown | | |
| Grille Material | | Metal Grille | | |
| Grille Color | | Black | | |
| Weight(Net) | | 1.95kg | 3.15kg | 4.75kg |
| Dimensions(Net, WxHxD, mm) | | 156 x 300 x 129 | 156 x 400 x 129 | 156 x 600 x 129 |
| Weather Resistant | | IP34 | | |
| Flame Resistant | | O | O | O |
| Certification | | KS(CU-40FO Series) | KS(CU-40FO Series) | KS(CU-40FO Series) |
| Included Accessories | | Wall Bracket(CU-40FO Series) U Bracket(CU-40FOU Series) | | |

FREQUENCY RANGE

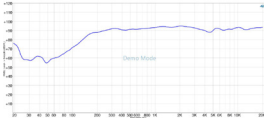
• CU-41FO



• CU-44FO



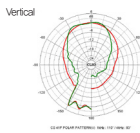
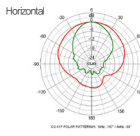
• CU-42FO



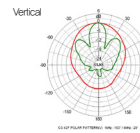
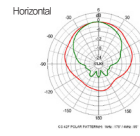
POLAR PATTERN (1kHz/4kHz)

— 1kHz
— 4kHz

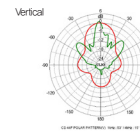
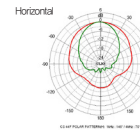
• CU-41FO



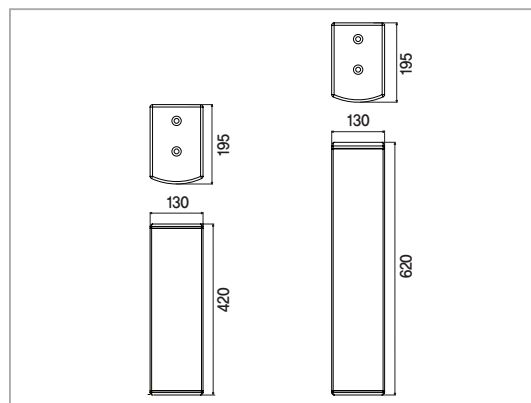
• CU-42FO



• CU-44FO



CU-7060/7120



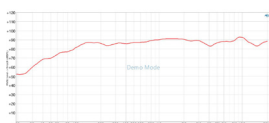
- ◆ Use unit having excellent sound quality/articulation/durability
- ◆ Indoor type, 100V/70V line of high impedance steel model
- ◆ Available to reproduce not only announcement but also high quality music
- ◆ Providing 2 models to choose 60W / 120W power depending on the application
- ◆ Applying high performance matching transformer to maximize the characteristics of dedicated speaker driver
- ◆ Screw Terminal for easy installation and connection (attached)
- ◆ Provide dedicated wall bracket which can be adjustable up to 11 degrees downward and left and right angles to 70 degrees.
- ◆ Built-in high-end tweeter which can reproduce clean and clear sound at high frequencies
- ◆ Wood enclosure

SPECIFICATION

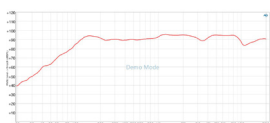
| Model | CU-7060 | | CU-7120 |
|-----------------------------|-----------------------------|-------------|-----------------------------|
| Type | Dual 4" 2Way Column Speaker | | Quad 4" 2Way Column Speaker |
| LF Driver | 4"x 2 | | 4"x 4 |
| HF Driver | 0.5"x 1 | | 0.5"x 2 |
| Power Handling (AES) | 60W | | 120W |
| Input Power | 100V | 60/30W | 120/60W |
| Impedance | 100V | 166/330Ω | 83/166Ω |
| | LOW | 8Ω | 8Ω |
| Power Selection | By Terminal | | |
| Frequency Range(-10dB) | 100Hz ~ 20kHz | | 95Hz ~ 20kHz |
| Frequency Range(-20%) | 55Hz ~ 20kHz | | 70Hz ~ 20kHz |
| Sensitivity (1W/1m, 1kHz) | 92dB | | 94dB |
| Maximum SPL[Cont] | 111dB | | 116dB |
| Nominal Dispersion(HxV) | 1kHz | 140° / 100° | 155° / 55° |
| | 4kHz | 180° / 106° | 70° / 20° |
| Input Connection | 4P Screw Terminal | | |
| Enclosure Material | 15T MDF Polyurea Coating | | |
| Enclosure Color | Black | | |
| Grille Material | EGI 0.8T | | |
| Grille Color | Black | | |
| Weight (Net) | 5.42kg | | 8.02kg |
| Dimensions (Net, WxHxD, mm) | 130 x 420 x 195 | | 130 x 620 x 195 |
| Included Accessories | Wall Bracket | | |

FREQUENCY RANGE

• CU-7060



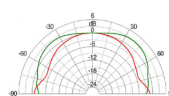
• CU-7120



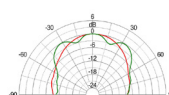
POLAR PATTERN (1kHz/4kHz)

• CU-7060

Horizontal

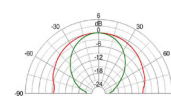


Vertical

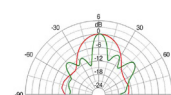


• CU-7120

Horizontal

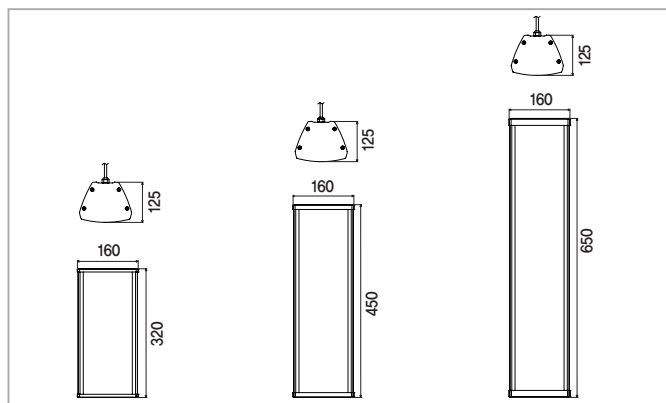


Vertical



— 1kHz
— 4kHz

CU-9030/9060/9120



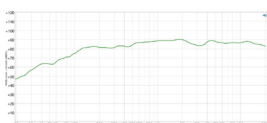
- ◆ Use unit having excellent sound quality/articulation/durability
- ◆ Use solid aluminum body and flame retarding steel grill
- ◆ Integrated aluminum galvanized steel
- ◆ Suitable for emergency broadcasting, announcement broadcasting as well as BGM playback because of excellent voice transmission performance at a long distance
- ◆ Easy-to-install design in sophisticated colors
- ◆ Excellent waterproof, moistureproof, and dustproof (IP65)
- ◆ Prevents corrosion and discoloration deformation even when used for long time
- ◆ Providing 3 models to choose 30W / 60W / 120W power depending on the application
- ◆ Applying high performance matching transformer to maximize the characteristics of dedicated speaker driver
- ◆ Easy input power selection via rotary switch
- ◆ Provide dedicated wall bracket which can be adjustable up to 11 degrees downward and left and right angles to 70 degrees.
- ◆ Built-in high-end tweeter which can reproduce clean and clear sound at high frequencies

SPECIFICATION

| Model | | CU-9030 | CU-9060 | CU-9120 |
|-----------------------------|------|---------------------------------------|-----------------------------|-----------------------------|
| Type | | Single 4" 2Way Column Speaker | Dual 4" 2Way Column Speaker | Quad 4" 2Way Column Speaker |
| LF Driver | | 4" x 1 | 4" x 2 | 4" x 4 |
| HF Driver | | 1" x 1 | 1" x 1 | 1" x 1 |
| Power Handling (AES) | | 30W | 60W | 120W |
| Input Power | 100V | 30/15W | 60/30W | 120/60W |
| Impedance | 100V | 330/660Ω | 166/330Ω | 83Ω/166Ω |
| Power Selection | | Rotary Switch | | |
| Frequency Range(-10dB) | | 115Hz ~ 20kHz | 105Hz ~ 20kHz | 105Hz ~ 15.5kHz |
| Frequency Range(-20%) | | 80Hz ~ 20kHz | 80Hz ~ 20kHz | 70Hz ~ 20kHz |
| Sensitivity (1W/1m, 1kHz) | | 88dB | 90dB | 90dB |
| Maximum SPL[Cont] | | 106dB | 110dB | 112dB |
| Nominal Dispersion(HxV) | 1kHz | 180° / 175° | 180° / 90° | 160° / 60° |
| | 4kHz | 130° / 110° | 120° / 40° | 100° / 20° |
| Input Connection | | Bi-Wired INPUT Line Direct Connection | | |
| Enclosure Material | | Top/Bottom/Body : AL | | |
| Enclosure Color | | Metal Brown(Light Brown) | | |
| Grille Material | | EGI 0.8T / Zn-plating | | |
| Grille Color | | Metal Brown(Light Brown) | | |
| Weight (Net) | | 3.09kg | 4.66kg | 7.05kg |
| Dimensions (Net, WxHxD, mm) | | 160 x 320 x 125 | 160 x 450 x 125 | 160 x 650 x 125 |
| Weather Resistant | | IP65 | | |
| Flame Resistant | | O | | |
| Included Accessories | | Wall Bracket | | |

FREQUENCY RANGE

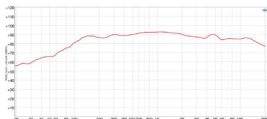
• CU-9030



• CU-9060



• CU-9120

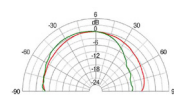


POLAR PATTERN (1kHz/4kHz)

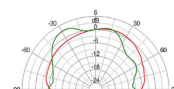
— 1kHz
— 4kHz

• CU-9030

Horizontal

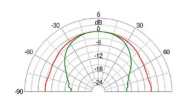


Vertical

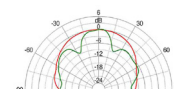


• CU-9060

Horizontal

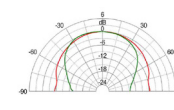


Vertical

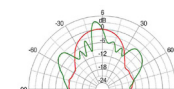


• CU-9120

Horizontal

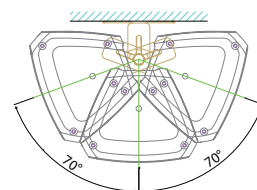
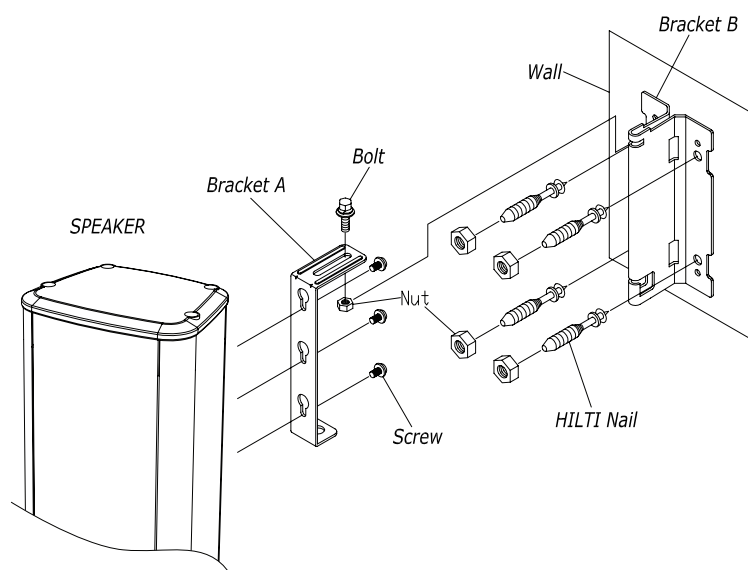


Vertical

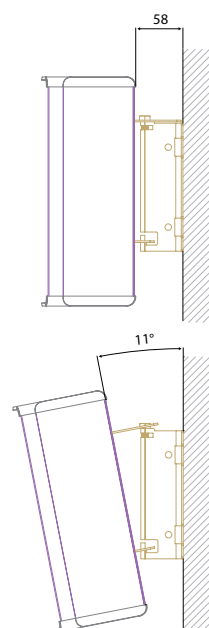


Accessories and Brackets

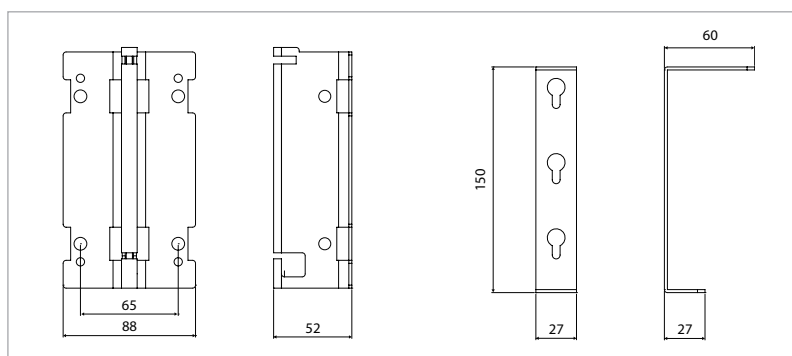
Wall Bracket_ CU-40 Series, CU-7000 Series, CU-9000 Series



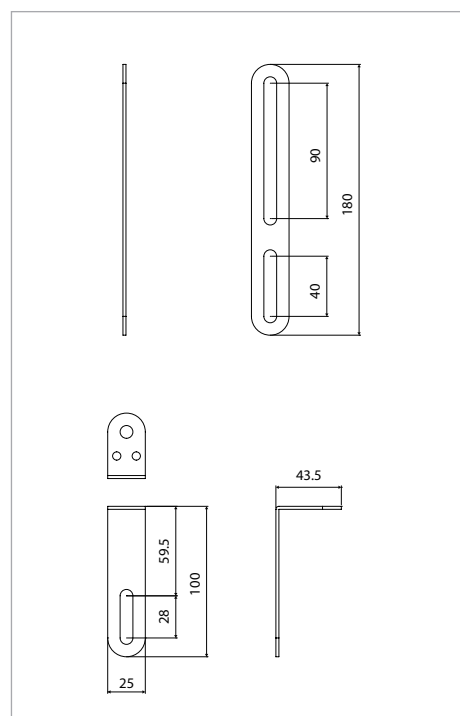
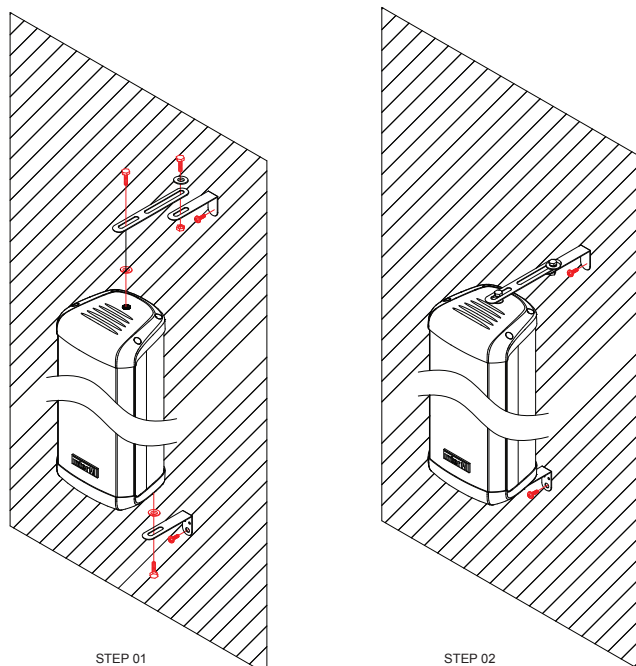
Horizontal maximum 70°
The horizontal angle varies depending on the vertical downward angle of the wall.



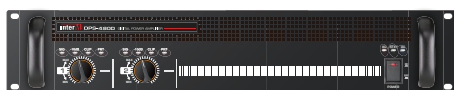
Vertical maximum 11°



U Bracket_ CU-20 Series, CU-40 Series



Recommended Amplifiers for Column Speakers



DPS Series Digital Power Amplifier

Single Digital Amplifier : DPS-240S/360S/480S/720S
Dual Digital Amplifier : DPS-240D/360D/480D
Power : 70V, 100V Line, 8Ω
240/360/480/720W



DPA Series Digital Power Amplifier

Single Digital Amplifier : DPA-300S/600S/900S/1200S
Dual Digital Amplifier : DPA-300D/600D
Triple Digital Amplifier : DPA-300T
Quad Digital Amplifier : DPA-150Q/300Q
Eight Digital Amplifier : DPA-50E
Power : 70V, 100V Line, 8Ω
50/150/300/600/900/1200W



PA Series USB Mixing Amplifier

PA-206 : 60W
PA-212 : 120W
PA-224 : 240W
Power : 70V, 100V Line, 8Ω



PM Series USB Mixing Amplifier

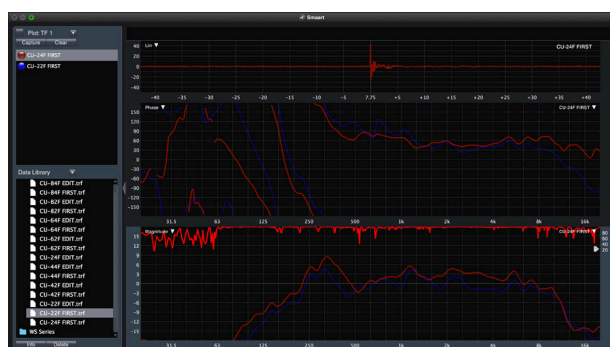
PM-236 : 360W
PM-248 : 480W
PM-260 : 600W
Power : 70V, 100V Line, 8Ω

Use cases of digital audio matrix system of NPX system

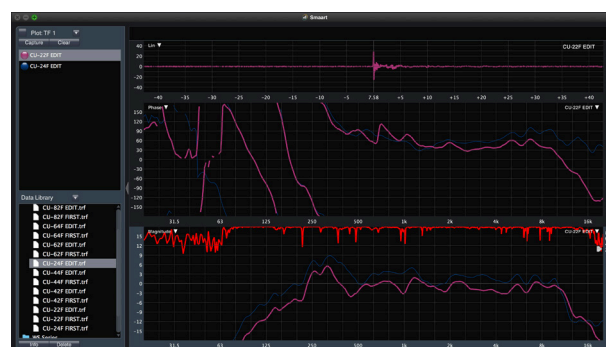
Inter-M's CU Series is all-round column speaker that can be used both indoor and outdoor such as educational, cultural, office, and gym facilities. Our new CU Series is composed of 4 series 14 models, and provides clear voice delivery and high quality BGM playback.

In addition, through a combination of CU Series column speaker and NPX system, users can adjust the sound parameter delicately with built-in DSP, which can improve CU Series column speaker's sound quality. For example, users can control the reflection sound from the ceiling or wall which allow the listener to have more clarity, and are able to set adequate sound at right time to avoid noise from crowd especially in shipping complex, train station, and airport, by scheduling function.

Ordinary frequency characteristics of CU-20 Series provide high clarity and sound quality, and the user can achieve even better sound by using NPX system's built-in DSP.



<CU-20 Series Column Speaker Original Frequency Features>



<Frequency features complementing the influence of the environment at the installation site>

Note

Note

