



Established  
in Taiwan  
in 1980

IP Rated Speaker

**CES Audio Inc.**   
Commercial Evolution in Sound



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## IP-66 Ingress Protection

# Music Horn Loudspeaker



Water  
Proof



Dust  
Proof



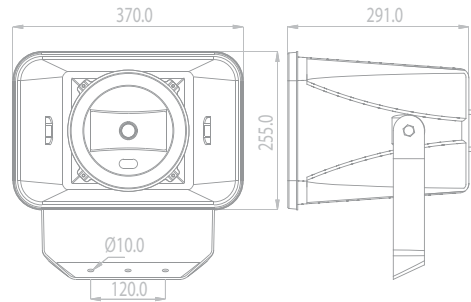
UV  
Protected



Vandal  
Proof

Engineered to provide the highest quality voice and music reproduction for both indoor and outdoor applications where long throw, large area coverage is desired in harsh environments. Suitable for Sports Stadium, Cruises, School, Swimming pool, Industrial area and Theme Park, etc.

- ☒ 100 Hours Life Tested
- ☒ CE Certified (EMC & LVD)
- ☒ IP Rated
- ☐ BS 5839-8 & EN60849
- ☒ Rustproof
- ☒ EASE Data
- ☒ RoHS Compliance
- ☒ UV Protected
- ☒ Withstanding/Insulation Tested


**Front**

**Side**

**Back**

<b>Rated Power (rms)</b>	30W
<b>Impedance</b>	167Ω, 333Ω, 667Ω, 1.33kΩ & 2.67kΩ
<b>Power Taps @ 100V</b>	30W, 15W, 7.5W & 3.75W
<b>Power Taps @ 70V</b>	30W, 15W, 7.5W, 3.75W & 1.9W
<b>SPL (1W / 1m)</b>	97 dB
<b>Max. SPL (Rated W / 1m)</b>	113 dB
<b>Frequency Range (-10dB)</b>	100 Hz ~20k Hz
<b>Frequency Range (-20dB)</b>	92 Hz ~ 20k Hz
<b>Dispersion 1k Hz / 4k Hz</b>	85°/ 45°
<b>Operating Temperature</b>	-30°C ~ +60°C
<b>Ingress Protection</b>	IEC 529 IP 66
<b>Power Selection</b>	Terminal Block
<b>Material</b>	High impact ABS with UV stable
<b>Colour / Finish</b>	Grey
<b>Dimensions</b>	370 W x 255 H x 291 D (mm)
<b>Net Weight (ea)</b>	4.6 kg
<b>Mounting</b>	U Type aluminium bracket

# SPECIFICATION

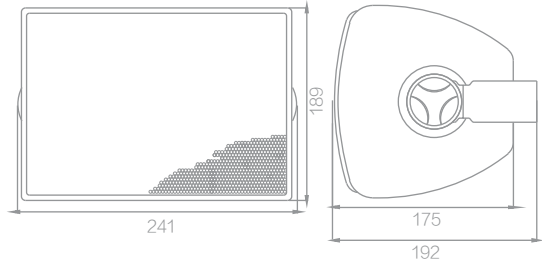


## Rotary Power Selector **Pro Audio Cabinet Loudspeaker**



Very high quality 2-way speaker system  
Rotary power selector  
Bass reflex design  
Designed for the pro audio & commercial market  
Finished in Black / White

- ☒ 100 Hours Life Tested
- ☒ CE Certified (EMC & LVD)
- ☐ IP Rated
- ☐ BS 5839-8 & EN60849
- ☐ Rustproof
- ☒ EASE Data
- ☒ RoHS Compliance
- ☐ UV Protected
- ☒ Withstanding/Insulation Tested



Front



Side



Back

<b>Rated Power (rms)</b>	30 W
<b>Impedance</b>	333Ω, 667Ω, 1.30kΩ & 2.60kΩ
<b>Power Taps @ 100V</b>	30W, 15W, 7.5W, 3.75W & 8Ω
<b>Power Taps @ 70V</b>	15W, 7.5W, 3.75W, 1.9W & 8Ω
<b>SPL (1W / 1m)</b>	89 dB
<b>Max. SPL (Rated W / 1m)</b>	104 dB
<b>Frequency Range (-10dB)</b>	75 Hz ~ 25 kHz
<b>Dispersion 1k Hz / 4k Hz</b>	190° / 125°
<b>Operating Temperature</b>	-20°C ~ +60°C
<b>Power Selection</b>	Rotary
<b>Termination Material</b>	Black / White
<b>Colour / Finish Dimensions</b>	241 W X 189 H X 175 D (mm)
<b>Net Weight (ea)</b>	2.66 kg
<b>Mounting</b>	U Type Steel Bracket

# SPECIFICATION





## Bass Reflex **2-Way Ceiling Loudspeaker**

**13oz**  
Magnet

**6.5"**  
Woofer

**0.75"**  
Tweeter

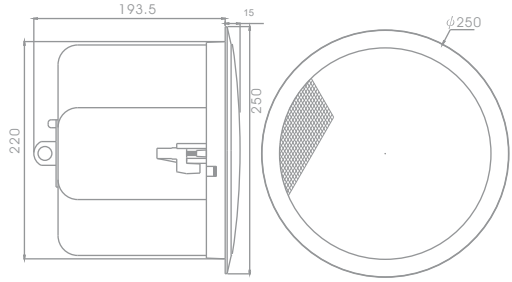
PP

PET

Very high quality 2-way speaker system  
Rotary power selector  
Fully rated for air handling spaces  
Dished grille design for acoustic integrity  
Ported internally damped enclosure for extended bass response



- ☒ 100 Hours Life Tested
- ☒ CE Certified (EMC & LVD)
- ☐ IP Rated
- ☐ BS 5839-8 & EN60849
- ☐ Rustproof
- ☒ EASE Data
- ☒ RoHS Compliance
- ☐ UV Protected
- ☒ Withstanding/Insulation Tested



Front



Side



Top

<b>Rated Power (rms)</b>	30W
<b>Impedance</b>	333Ω, 667Ω, 1.33kΩ, 2.67kΩ & 8Ω
<b>Power Taps @ 100V</b>	30W, 15W, 7.5W, 3.75W & 8Ω
<b>Power Taps @ 70V</b>	15W, 7.5W, 3.75W, 1.9W & 8Ω
<b>SPL (1W / 1m)</b>	89dB
<b>Max. SPL (Rated W / 1m)</b>	104dB
<b>Frequency Range (-10dB)</b>	75 Hz ~ 25k Hz
<b>Dispersion 1k Hz / 4k Hz</b>	140° / 75°
<b>Operating Temperature</b>	-30°C ~ +60°C
<b>Power Selection</b>	Selecting switch
<b>Termination</b>	Removable locking connector with screw-down terminals, 2 input terminals and 2 loop-thru output terminals
<b>Colour / Finish</b>	White
<b>Dimensions</b>	250 Dia. X 208.5 H (mm)
<b>Net Weight (ea)</b>	3.58 kg
<b>Mounting</b>	Rotating mount tabs

# SPECIFICATION



## IP-66 Ingress Protection **Column Loudspeaker**



Water  
Proof



Dust  
Proof



UV  
Protected



Vandal  
Proof

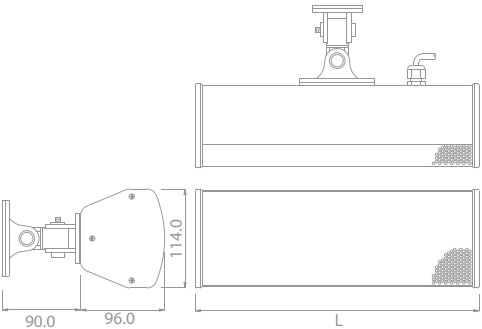
Fitted with high specification driver units / tweeter for exceptional speech & music reproduction

Suitable for accurate, "long throw" applications

Durable extruded aluminium housing, attractive slimline construction

Durable aluminium alloy multi bracket broken tested up to 1500 kg

- ✓ 100 Hours Life Tested
- ✓ CE Certified (EMC & LVD)
- ✓ IP Rated
- BS 5839-8 & EN60849
- ✓ Rustproof
- ✓ EASE Data
- ✓ RoHS Compliance
- ✓ UV Protected
- ✓ Withstanding/Insulation Tested



Front

Side

Back

Rated Power (rms)	340 W
Number of Loudspeakers	3.5" Woofer x 8 + 3.25" Tweeter x 1
Impedance	125Ω, 250Ω, 500Ω, 1kΩ & 2kΩ
Power Taps @ 100V	40W, 20W, 10W & 5W
Power Taps @ 70V	40W, 20W, 10W, 5W & 2.5W
SPL (1W / 1m)	93 dB
Max. SPL (Rated W / 1m)	109 dB
Frequency Range (-10dB)	110 Hz ~ 20 kHz
Dispersion 1k Hz / 4k Hz	H : 190° / 90° , V : 40° / 30 °
Operating Temperature	-20°C ~ +60°C
Ingress Protection	IEC 529, IP 66
Power Selection	6 - core cable
Material	Housing: Extruded Aluminium   Grille: Aluminium
Colour / Finish	White
Dimensions	960 L x 114 W x 96 D (mm)
Net Weight (ea)	7.7 kg
Mounting	Aluminium alloy multi bracket

SPECIFICATION



## IP-66 Ingress Protection **Bi-Directional Sound Projector**



Water  
Proof



Dust  
Proof



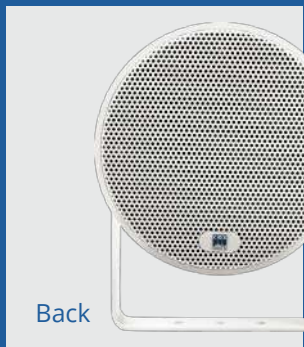
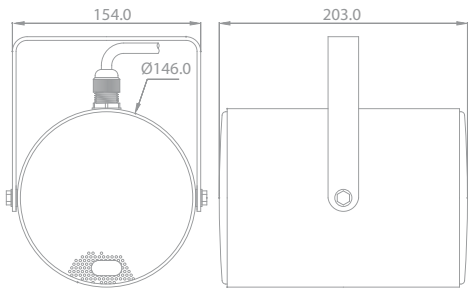
UV  
Protected



Vandal  
Proof

High impact ABS housing with UV stable  
Designed to give controlled directional sound characteristics  
Bi-directional for Corridors, Walkways, Tunnels etc.  
Ideal for music and speech applications

- ☒ 100 Hours Life Tested
- ☒ CE Certified (EMC & LVD)
- ☒ IP Rated
- ☐ BS 5839-8 & EN60849
- ☒ Rustproof
- ☒ EASE Data
- ☒ RoHS Compliance
- ☒ UV Protected
- ☒ Withstanding/Insulation Tested



<b>Rated Power (rms)</b>	20W
<b>Impedance</b>	250Ω, 500Ω, 1kΩ, 2kΩ & 4kΩ
<b>Power Taps @ 100V</b>	20W, 10W, 5W & 2.5W
<b>Power Taps @ 70V</b>	20W, 10W, 5W, 2.5W & 1.25W
<b>SPL (1W / 1m)</b>	86dB
<b>Max. SPL (Rated W / 1m)</b>	99dB
<b>Frequency Range (-10dB)</b>	120 Hz ~ 20k Hz
<b>Dispersion 1k Hz / 4k Hz</b>	-30°C ~ +60°C
<b>Operating Temperature</b>	75° : 75° / 50° : 50°
<b>Ingress Protection</b>	IEC529 IP-66
<b>Power Selection</b>	6 - core cable
<b>Material</b>	Housing: High impact ABS   Grille: Aluminium
<b>Colour / Finish</b>	White
<b>Dimensions</b>	146 Dia. X 203 L (mm)
<b>Net Weight (ea)</b>	2.2 kg
<b>Mounting</b>	U Type aluminium bracket

# SPECIFICATION



## IP-55 Ingress Protection **Splash-proof Ceiling Loudspeaker**



Water  
Proof



Dust  
Proof



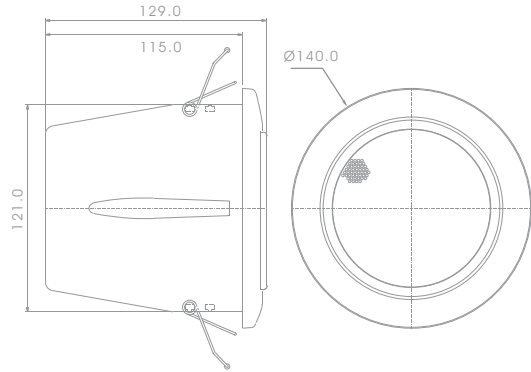
UV  
Protected



Vandal  
Proof

Sealed ABS rear enclosure with glanded cable tail  
Rotating mount tabs for easy installation  
Suitable for non-shedding, "clean-room" environments  
Also suitable for food processing plants or applications  
where significant moisture is present such as bathroom or  
steam sauna rooms

- ☒ 100 Hours Life Tested
- ☒ CE Certified (EMC & LVD)
- ☒ IP Rated
- ☐ BS 5839-8 & EN60849
- ☒ Rustproof
- ☒ EASE Data
- ☒ RoHS Compliance
- ☒ UV Protected
- ☒ Withstanding/Insulation Tested



Front



Side



Open

<b>Rated Power (rms)</b>	6W
<b>Impedance</b>	833 $\Omega$ , 1.67k $\Omega$ , 3.33k $\Omega$ , 6.67k $\Omega$ & 8 $\Omega$
<b>Power Taps @ 100V</b>	6W, 3W & 8 $\Omega$
<b>Power Taps @ 70V</b>	6W, 3W, 1.5W & 8 $\Omega$
<b>SPL (1W / 1m)</b>	88dB
<b>Max. SPL (Rated W / 1m)</b>	95dB
<b>Frequency Range (-10dB)</b>	150 Hz ~ 20k Hz
<b>Dispersion 1k Hz / 4k Hz</b>	210° / 130°
<b>Operating Temperature</b>	-30°C ~ +60°C
<b>Ingress Protection</b>	IEC 529 IP 55
<b>Power Selection</b>	6-core cable
<b>Material</b>	Enclosure & Baffle: ABS   Grille: Aluminium
<b>Colour / Finish</b>	White
<b>Dimensions</b>	140 Dia. X 129 H (mm)
<b>Cutout Size</b>	125 Dia. (mm)
<b>Net Weight (ea)</b>	0.96 kg
<b>Mounting</b>	Stainless steel spring

## SPECIFICATION





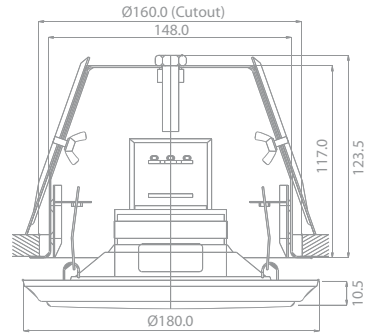
## EU Standard EN 54-24

# Voice Alarm | Quick-Mount Ceiling Loudspeaker



Compliant with EN 54-24, British Standard BS 5839 part 8 & EN 60849  
Mild steel construction capable of withstanding temperature of 650°C  
Patented fire dome enables install time to be reduced  
Fitted with a 5.25" Full Range Twin cone driver unit  
Designed to offer wide response for music & speech

- ☒ 100 Hours Life Tested
- ☒ CE Certified (EMC & LVD)
- ☐ IP Rated
- ☒ BS 5839-8 & EN60849
- ☐ Rustproof
- ☒ EASE Data
- ☒ RoHS Compliance
- ☐ UV Protected
- ☒ Withstanding/Insulation Tested



Front



Side



Top

<b>Rated Power (rms)</b>	6W
<b>Impedance</b>	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
<b>Power Taps @ 100V</b>	6W, 3W, 1.5W & 0.75W
<b>Power Taps @ 70V</b>	3W, 1.5W, 0.75W & 0.375W
<b>SPL (1W / 1m)</b>	90dB
<b>Max. SPL (Rated W / 1m)</b>	98dB
<b>Frequency Range (-10dB)</b>	265 Hz ~ 20k Hz
<b>Dispersion 1k Hz / 4k Hz</b>	160° / 78°
<b>Operating Temperature</b>	-30° C ~ +60° C
<b>Operating Temperature (EN54-24)</b>	-10° C ~ +55° C
<b>Ingress Protection (EN54-24)</b>	IP 21C
<b>Power Selection</b>	Plug
<b>Material</b>	Baffle : Steel   Grille: Steel
<b>Dimensions</b>	180 Dia. X 134 H (mm)
<b>Cutout Size</b>	160 Dia. (mm)
<b>Net Weight (ea)</b>	1.7 kg
<b>Mounting</b>	Spring loaded Quick-Mount assembly

# SPECIFICATION



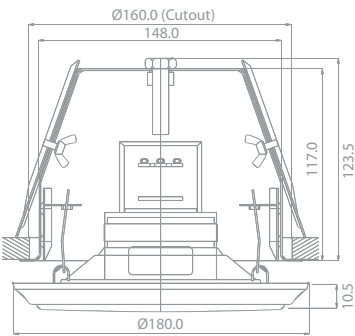
## British Standard BS 5839 Part 8

# Voice Alarm | Quick-Mount Ceiling Loudspeaker



Compliant with British Standard BS 5839 part 8 & EN 60849  
Twin gland entry steel fire dome with patented "SUPER-FIT" system  
Ceramic termination blocks and fire resistant internal cabling  
Mild steel construction capable of withstanding temperature of 650°C  
150°C thermal isolating fuse

- ✓ 100 Hours Life Tested
- ✓ CE Certified (EMC & LVD)
- IP Rated
- ✓ BS 5839-8 & EN60849
- Rustproof
- ✓ EASE Data
- ✓ RoHS Compliance
- UV Protected
- ✓ Withstanding/Insulation Tested



Front



Side



Top

<b>Rated Power (rms)</b>	6W
<b>Impedance</b>	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
<b>Power Taps @ 100V</b>	6W, 3W, 1.5W & 0.75W
<b>Power Taps @ 70V</b>	3W, 1.5W, 0.75W & 0.375W
<b>SPL (1W / 1m)</b>	92dB
<b>Max. SPL (Rated W / 1m)</b>	99dB
<b>Frequency Range (-10dB)</b>	100 Hz ~ 20k Hz
<b>Dispersion 1k Hz / 4k Hz</b>	140° / 70°
<b>Operating Temperature</b>	-30°C ~ +60°C
<b>Power Selection</b>	Plug
<b>Material</b>	Baffle: Steel   Grille: Steel
<b>Colour / Finish</b>	White
<b>Dimensions</b>	180 Dia. X 134 H (mm)
<b>Cutout Size</b>	160 Dia. (mm)
<b>Net Weight (ea)</b>	1.7 kg
<b>Mounting</b>	Spring loaded Quick-Mount assembly

SPECIFICATION



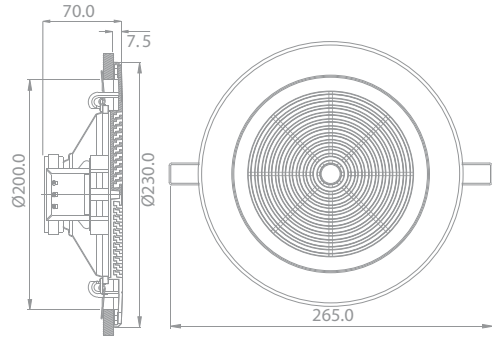
## High Impact **ABS** Grille

# **Clip-Mount Plastic Ceiling Loudspeaker**



Fast fitting and economical spring design  
Ideal for shallow ceiling voids  
Fitted with a twin cone driver unit  
Designed to offer a wide response for music and speech

- ☒ 100 Hours Life Tested
- ☒ CE Certified (EMC & LVD)
- ☐ IP Rated
- ☐ BS 5839-8 & EN60849
- ☐ Rustproof
- ☒ EASE Data
- ☒ RoHS Compliance
- ☐ UV Protected
- ☒ Withstanding/Insulation Tested


**Front**
**Side**
**Back**

<b>Rated Power (rms)</b>	6W
<b>Impedance</b>	1.67kΩ, 3.33kΩ, & 6.67kΩ
<b>Power Taps @ 100V</b>	6W, 3W, & 1.5W
<b>Power Taps @ 70V</b>	3W, 1.5W, & 0.75W
<b>SPL (1W / 1m)</b>	93 dB
<b>Max. SPL (Rated W / 1m)</b>	100 dB
<b>Frequency Range (-10dB)</b>	100 Hz ~ 20k Hz
<b>Dispersion 1k Hz / 4k Hz</b>	120°/90°
<b>Ambient Temperature</b>	-30°C ~ +60°C
<b>Power Selection</b>	Plug
<b>Material</b>	Baffle: High impact ABS
<b>Colour / Finish</b>	White
<b>Dimensions</b>	230 Dia. X 70 H (mm)
<b>Cutout Size</b>	200 Dia. (mm)
<b>Net Weight (ea)</b>	0.85 kg
<b>Mounting</b>	Spring-clip

# SPECIFICATION

## KEYWORDS

### CE Marking

(Conformite Européenne)

Affirms the good's conformity with European health, safety, and environmental protection standards. Most electrical products must comply with the Low Voltage Directive\* and the EMC Directive\*, among others

### EMC

#(Electro-Magnetic Compatibility)

Ability of electronic equipment not to cause or react to electromagnetic interference from other electronic equipment

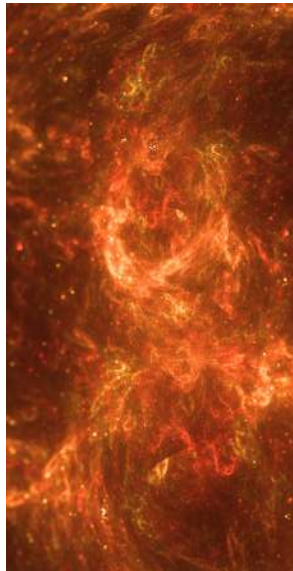
### LVD

#(Low Voltage Directive)

Ensures that electrical equipment within certain voltage limits provides a high level of protection.



CERTIFICATE



EU Standard

### EN 54-24 Fire Detection and Fire Alarm Systems

#### Part 24

Components of voice alarm systems-  
Loudspeakers

British Standard

### BS-5839 Part 8

Fire detection and fire alarm systems for buildings.  
Code of practice for the design, installation, commissioning and maintenance of voice alarm systems

Required building control bodies, fire and rescue authorities and other authorities who may enforce provisions for fire safety in certain occupancies

### EASE Data

(Enhanced Acoustic Stimulators for Engineers)

An engineering design and analysis software for optimizing acoustics



### RoHS

(Restriction of Hazardous Substances)

The Restriction of the use of certain hazardous substances in electrical and electronic equipment

Restricts the use of ten hazardous materials in the manufacture of various types of electronic and electrical equipment





### Solid Protection

- 1 Objects greater than 50mm
- 2 Objects greater than 12.5 mm
- 3 Objects greater than 2.5mm
- 4 Objects greater than 1 mm
- 5 Protected against dust
- 6 **Dust Tight**

**IP 66**

Ingress Protection



### Liquid Protection

- 1 Dripping water
- 2 Dripping water when tilted at 15
- 3 Spraying water up to 60 from the vertical
- 4 Water splash from any direction
- 5 Water jets from a nozzle of 6.3mm
- 6 **Powerful Water Jets**
- 7 Submersion of up to 1m depth
- 8 Submersion for depth of 1m or more

## Vandal Resistance

Product outfitted to prevent damaged or any impact when there's maltreatment or physical abuse and gives product a longer life and durable of materials

## UV Stable

Added a stabilizer to the resin to allow it to protect the substance from the long-term degradation from UV light UV stabilizers work by absorbing or screening out UV radiation and preventing damage from UV light



## Ingress Protection

International Protection Marking / Ingress Protection Rating / IP Code  
IEC 60529

IP is classifies and rates the degree of protection against intrusion, dust, accidental contact, and water.

The first numeral refers to the protection against solid objects.

The second numeral rates the enclosure's protection against liquids.



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