



Public Address & Voice Alarm Loudspeakers 2007 Catalogue

Reliable



Durable



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Public Address Loudspeakers

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...the Most Reliable & Durable Loudspeakers...

About CES Audio

Established in Taiwan in 1980, CES Audio Inc. has over 25 years of experience in the design, manufacture and export of PA / VA Loudspeakers world-wide.

At CES Audio Inc., we believe very strongly in listening to our customers. Many of our products are the direct result of co-operation between customers and our extensive research and development department.

* **One-Stop Buying Source**

CES Audio's product portfolio consists of:

- Commercial Audio Loudspeakers (PA, BGM, FGM).
- Voice Alarm Loudspeakers.
- Loudspeaker Strobes.
- Attenuators (Volume Controls).

* **Core Competence**

- Innovation.
- Quickly understand and exceed customer expectations.
- Supply the best quality products with unparalleled price/performance ratio.

* **Throughout the World**

- All CES Audio products are manufactured in Taiwan and almost 95% is exported to some 50 countries throughout the world.
- **Projects Reference:**
Buckingham Palace, British Museum, Stade de France, Ilyngby storcenter, The University of Bergen, CKS Airport Taiwan, and many more.

* **Our Mission**

To supply the most reliable & durable loudspeakers to customers world-wide.

* **Our Philosophy: Commit to Customer Satisfaction**

- We focus only on manufacturing loudspeakers; therefore, we supply better loudspeakers than others.
- We do not have subsidiary elsewhere; therefore, we co-operate with our customers as partners.

* **"Sole Distributor" Sales Policy**

Our aim is to appoint sole distributors for our products in specific countries or regions. As a result, your territory will be guaranteed and your sales protected by prohibiting any direct sales to competitors in the same territory.

CES Audio Inc.

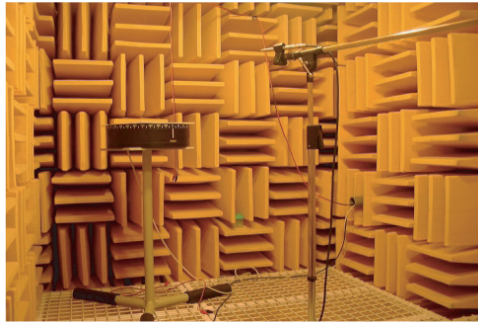
Commercial Evolution in Sound

Tel : +886 (0)2 2257 5465

Fax: +886 (0)2 2258 3066

e-mail: sales@cesaudio.com

www.cesaudio.com



Why Choose CES Audio?

- We have been manufacturing since 1980 with distribution in over 50 countries.
- Our product portfolio offers you a true one-stop buying source.
- Our "sole distributor" sales policy prevents your sales from competition in the same territory.
- Our Fast Track System (see below) offers immediate shipment from stock.
- We are an ISO9001:2000 accredited company.
- EASE (Enhanced Acoustic Simulators for Engineers) data are available which allow the user to see on a three dimensional model the coverage of a loudspeaker in a predefined environment.
- Certificates of Conformity with RoHS, CE mark (EMC & LVD), IP rating (IEC 529), and Rustproof (IEC60068-11 & CNS8886) are available.
- Products with BS5839 part 8 compliant for fire evacuation are available.
- Our patented design enables install time to be reduced by up to 50%.
- All products are designed to withstand operating at their rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity standards.
- All plastic parts are manufactured from self-extinguishing high-impact ABS material (UL 94V0).
- UV protection material is used on products with white plastic housing for outdoor applications.
- Sample products are tested in our Anechoic Chamber, Withstanding/Insulation Tester, and Temperature & Humidity Chamber to ensure accurate specification, safety and reliability.

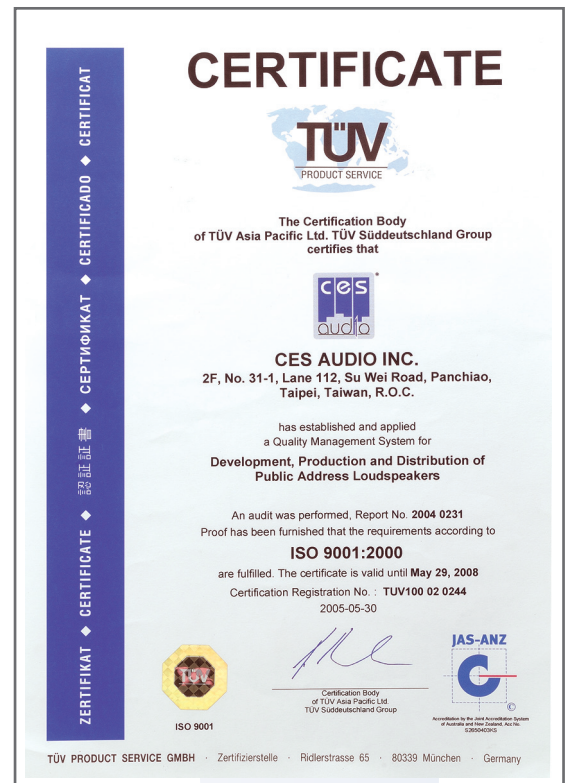
Fast Track System?

CES Audio Inc. has invested heavily in computerized global warehousing facilities, in order to stock in large volume, the majority of our product range. So now, when you place an order with CES Audio for our branded* products, it will be ready for **Immediate Shipping****.

With the reduced "product to market" time-scales, we believe that Fast Track System represents a significant improvement in the overall service CES Audio can offer your company.

* Fast Track System is only available for products with CES Audio logo.

** Occasionally due to high demand, products may be out of stock.





CERTIFICATE of Conformity
 TÜV
 EC Council Directive 89/336/EEC
 as last amended by EC Directive 93/68/EEC
 Electromagnetic Compatibility

Registration No.: AE 5008B48 0001
 Report No.: 10017340 001

Holder: CES Audio Inc.
 2F, No. 31-1, Lane 112, Su Wei Rd.
 Panchiao, Taipei 220
 Taiwan, R.O.C.

Product: Loudspeaker (Loudspeaker)

Identification: see Appendix

Tested acc. to: EN 5513:2001+A1
 EN 55014-1:2001+A11
 EN 61000-6-3:2001

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex III of Council Directive 89/336/EEC, in its last amended version, referred to as the EMC Directive. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Article 10.1 of the Directive.

Cologne, 17.02.2006
 TÜV Rheinland Product Safety GmbH - Am Grauen Stein - D-51105 Köln
 CE The CE marking may only be used if all relevant and effective EC Directives are complied with.

CE Certificate (EMC)

ETC
Certificate of Conformity
 Reference No.: VAB-CERT-CE-06001
 Conformity Report Reference: 06-04-VAB-004

The conformity report provided that the products are complied with EN 60665:2002, is considered to satisfied the
Low Voltage Directive 73/23/EEC and 63/48/EEC

Company: CES Audio Inc.
Address: No. 31-1, Lane 112, Su Wei Road, Panchiao, Taipei, Taiwan 220
Product Name: Loudspeaker
Trade Mark: CES

Applicable Items: COS-3200WA • CAL-5300 • MUH-6300 • WCS-5300US • MPH-5300 • CLS-3300 • CSB-6300 (here after none)

Remarks:
 1. The result of Test Report is valid only in the items mentioned.
 2. The Test Report shall not be reproduced except in full, without the written approval of ETC.
 3. Together with the applicant's written declaration of conformity, the application for test (European authorized representative) is considered to be sufficient support for EC Declaration of Conformity and CE marking of the product category.
 4. EC Declaration of Conformity is the responsibility of the manufacturer/importer.

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CE Certificate (LVD)

ETC ELECTRONICS TESTING CENTER
 Address: NO. 8, LANE 28, WENHONG RD., LEISHAN VILLAGE, GUSHAN SHANG, TAOYUAN COUNTY, 333, TAINAN, R.O.C.
 TEL: 886-3-226-0268 ext. 280, 281
 FAX: 886-3-227-6176

Certificate
 Of conformity with RoHS (2002/95/EC)

Company Name: CES Audio Inc.
Company Address: NO.31-1, Lane 112 Su Wei Rd. Panchiao Taipei Taiwan 220
Application No.: 06-04-IAG-052-1

declare that the product (description of the apparatus, system, installation to which it refers)
Sample Description: Ceiling Loudspeaker, Metal
Serial No.: QCM-6061VAEQCM-5061OCM-5061VAEQCM-6061, QCM-6081OCM-6081VAEQCM-8101OCM-8101VAEQCM-8200OCM-8200CVAE

This certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with 2005/618/EC Article 1, amending RoHS Directive 2002/95/EC and based on Results from RoHS Assessment Report. This certificate does not imply assessment of the production of the product.
 Date of Issue: 5/May/2006

Manufacturer representative: James Liu
 Signature: Martin Cheng
 Date: 5/May/2006

To pursue excellence in service quality with a dedicated working attitude.

RoHS Certificate

工業技術研究院
 Industrial Technology Research Institute
 Director General & Senior Organizer

Specimen: Sphere Speaker Model SPS-6201F and SPS-6301F
 Test Equipment: Instron Model 4411 Universal Testing Instrument.

Test Procedure:
 1. Fix the suspension ring on the upper cross head.
 2. Fix the upper cover of the sphere speaker on the lower cross head.
 3. Tense the specimen by a constant speed 3 cal/min, till the specimen breaks.
 4. Record the maximum load of the broken point.

Result:
SPS-6201F:
 The maximum load of the broken point is 43.14 kNf.
 Figure 1 shows the Load - Displacement profile.
SPS-6301F:
 The maximum load of the broken point is 48.35 kNf.
 Figure 2 shows the Load - Displacement profile.

82年5月1日

Tensile Strength Test

ELECTRONICS TESTING CENTER TAIWAN
 REF. No.: 06-05-TAI-038 Sheet: 2 of 8 Sheets

Test Item: IP68

Test Condition:
 1. IPX5:
 (1) Internal diameter of the nozzle: 12.5 mm
 (2) Delivery rate: 100 l/min ±5%
 (3) Distance from nozzle to enclosure surface: between 2.5 m and 3 m.
 (4) The duration of test is 3 min.

Sample No.	Model No.
1	PRH-10301B

2. IPX6:
 (1) Maximum depression of 2kPa(20mmbar).
 (2) The total duration of test is 6 hr.

Sample No.	Model No.
2	PRH-10301B

Test Results:

Request/Experiment	Results	Remark
After testing in accordance with appropriate requirements of IEC60529 14.2.6 the enclosure shall be inspected for ingress of water.	No ingress of water was found inside.	IPX6
Request/Experiment	Results	Remark
After testing in accordance with appropriate requirements of IEC60529 13.4 and 13.6 the enclosure shall be inspected for ingress of dust.	No ingress of dust was found inside.	IPX6

Ingress Protection

TEST REPORT
 Report Number: 9030600771 Page: 2 of 2 Page(s)
 Applicant: C.E.S. CORPORATION
 Product: Aluminum Alloy Muli Bracket
 Specifications: (Null)
 Model: (Null)
 Application Date: 18 MAY 2006 Completion Date: 24 MAY 2006

Test Items	Results
Tensile force test(Aa fig 1) Max. load	1500 kgf

Test Description:
 a. Date of test: 23th MAY 2006
 b. Environmental conditions: (20±5) °C; (65±20)/RH
 c. Sample drawn by: (Null)
 d. Quantity of sample: One case.
 e. Characteristics and conditions of sample: Assembled by the applicant (As fig 1)
 f. Sampling procedure: Provided by the applicant.
 g. Test facilities: Universal testing machine.
 h. Standards or reference materials: (Null)
 i. Test method: The test was carried out in accordance with applicant's request.
 j. Measurement uncertainty: (Null)
 k. In case of any question regarding this report, please contact the Materials Testing Section of Sixth Division, (TEL: 886-2-23431889)

Tensile Force Test

N° d'enregistrement national: 02 07452 N° de publication: 2841088
RAPPORT DE RECHERCHE
 articles L. 612-14, L. 612-17 et R. 612-53 à 69 du code de la propriété intellectuelle

OBJET DU RAPPORT DE RECHERCHE
 Après l'accomplissement de la procédure prévue par les textes rappelés ci-dessus, le brevet est déposé. L'état national de la Propriété Industrielle n'est pas habilité, sauf dans le cas d'un avis manifeste de nouveauté, à en refuser la délivrance. La validité d'un brevet relève exclusivement de l'appréciation des tribunaux.
 L'IN.P.I. doit toutefois annexer à chaque brevet un "RAPPORT DE RECHERCHE" citant les éléments de l'état de la technique qui peuvent être pris en considération pour apprécier la brevetabilité de l'invention. Ce rapport porte sur les revendications figurant au brevet qui nécessitent l'objet de l'invention et délimitent l'étendue de la protection.
 Après délivrance, l'IN.P.I. peut, à la requête de toute personne intéressée, formuler un "AVIS DOCUMENTAIRE" sur la base des documents cités dans ce rapport de recherche et de tout autre document que le requérant souhaite voir prendre en considération.

CONDITIONS D'ÉTABLISSEMENT DU PRÉSENT RAPPORT DE RECHERCHE

Le demandeur a présenté des observations en réponse au rapport de recherche préliminaire.
 Le demandeur a maintenu les revendications.
 Le demandeur a modifié les revendications.
 Le demandeur a modifié la description pour en éliminer les éléments qui n'étaient plus en concordance avec les nouvelles revendications.
 Les tiers ont présenté des observations après publication du rapport de recherche préliminaire.
 Un rapport de recherche préliminaire complémentaire a été établi.

DOCUMENTS CITÉS DANS LE PRÉSENT RAPPORT DE RECHERCHE
 La répartition des documents entre les rubriques 1, 2 et 3 tient compte, le cas échéant, des revendications déposées en dernier lieu et des observations présentées.
 Les documents énumérés à la rubrique 1 ci-après sont susceptibles d'être pris en considération pour apprécier la brevetabilité de l'invention.
 Les documents énumérés à la rubrique 2 ci-après illustrent l'état de la technique générale.
 Les documents énumérés à la rubrique 3 ci-après ont été cités en cours de procédure, mais leur pertinence dépend de la validité des priorités revendiquées.
 Aucun document n'a été cité en cours de procédure.

Fire Dome Patent

ETC
TEST REPORT
 Ind. Ser. No. 06-04-EAT-117-E02-A

Testing Conditions: According to IEC60668-11

Salt spray test
 Sample No.: #1 - #17
 Sample condition: Unpackaged (Refer to figure 1 ~ 6)
 Temperature: 35 °C
 Salt solution concentration: 5.0 % (by weight)
 pH value(avg.): 6.5 ~ 7.2
 Spray volume(avg.): 1.0 ~ 2.0 ml / hour
 Duration: 96 hours
 Requirements: (1) The sample shall be done visual inspect and audio pressure test after test.
 (2) Audio pressure test conditions as below: According to cone type loudspeaker section 6.1 ~ 6.2 CNS 4785 horn type loudspeaker test method section 5.6 CNS 4788.

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Rustproof Test

ETC ELECTRONICS TESTING CENTER
 Address: NO. 8, LANE 28, WENHONG RD., LEISHAN VILLAGE, GUSHAN SHANG, TAOYUAN COUNTY, 333, TAINAN, R.O.C.
 TEL: 886-3-226-0268 ext. 280, 281
 FAX: 886-3-227-6176

GCC Certificate
 Of conformity with RoHS (2002/95/EC)

Certificate No.: ETC-060012
 Applicant: CES Audio Inc.
 Address: No.31-1, Lane112, Su Wei Rd., Panchiao, Taipei Taiwan 220
 Manufacturer: CES Audio Inc.
 Address: No.31-1, Lane112, Su Wei Rd., Panchiao, Taipei Taiwan 220
 Product: Ceiling Loudspeaker, ABS
 Type Specification: SLC-2060 • SLC-2060B • SLC-2060C • SLC-2060D

This certificate of conformity is to certify that the above mentioned products has been assessed and certified as meeting the requirement of 2005/618/EC Article 1, amending RoHS Directive 2002/95/EC.
 Date of Issue: December 28, 2006
 Date of Expiration: December 28, 2011

1. Green Component Certification (GCC) is the RoHS certification scheme led by Taiwan Electrical and Electronic Manufacturers Association (TEEMA) to promote electrical and electronic products, components and materials is compliant with the EU RoHS Directive. Certified components and products information will be posted on the Green Component website: www.gcccertification.org.tw.
 2. This certificate includes factory inspectors of the mentioned product. Whenever a change occurs in material input, components and methods in the manufacturing process and supplies please do inform us to renew the Certificate.

Authorized by: Martin Cheng
 Signature: Martin Cheng
 Date: 12/28/2006
 Electronics Testing Center, Taiwan

To pursue excellence in service quality with a dedicated working attitude.

GCC Certificate

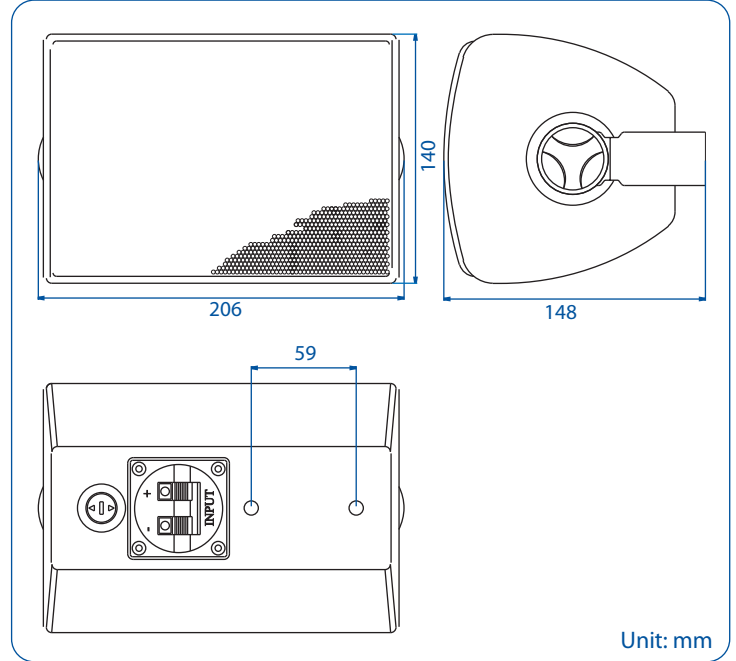
Public Address Loudspeakers



Cabinet Loudspeaker . Ceiling Loudspeaker . Column Loudspeaker
Horn Loudspeaker . Sound Projector . Sphere Loudspeaker
Wall Loudspeaker



CAL-3 Series Pro Audio Cabinet Loudspeaker



Unit: mm

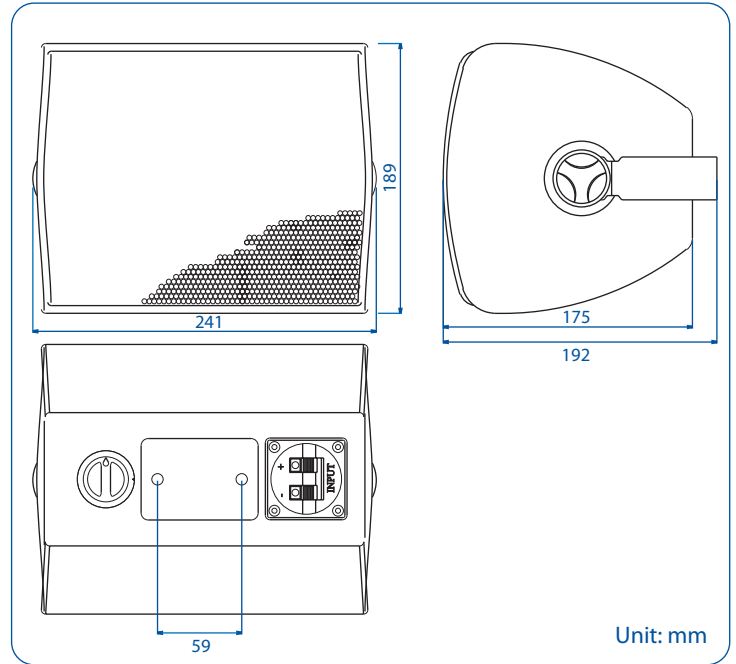
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Designed for the pro audio and commercial market.
- ▶ Designed utilizing CES Audio's anechoic test facilities with state of the art digital system analysis for accurate cabinet specification.
- ▶ Attractive trapezoid cabinet design for improved directivity and versatile mounting.
- ▶ Very high quality 2-way speaker system with 3.5" polypropylene bass / mid cone & 8-ounce magnet + mylar laminate dome tweeter.
- ▶ Powerful 8Ω operation.
- ▶ 15 watt transformer version with multi tapings down to 1.9W (100V) & 1W (70V) - via rear-mount selector control.
- ▶ Made from acoustically matched high impact polystyrene.
- ▶ U mount bracket included as a standard accessory.
- ▶ Durable Nylon / Fibre multi bracket optional (broken tested up to 45.4 kgs / 100 lbs).
(B8-10-0091 Multi bracket-Black & B8-19-0091 Multi bracket-White - See accessory page)
- ▶ Finished in black (RAL 9005) or brilliant white (RAL 9016).

Model No.	CAL-3150	CAL-3150W	CAL-3308	CAL-3308W
Rated Power (rms)	15W		30W	
Impedance	667Ω, 1.30kΩ, 2.60kΩ & 5.20kΩ		8Ω	
Power Taps @ 100V	15W, 7.5W, 3.75W, 1.9W & 8Ω		N. A.	
Power Taps @ 70V	7.5W, 3.75W, 1.9W, 1W & 8Ω			
SPL (1W / 1M)	88 dB			
Max. SPL (Rated W / 1M)	100 dB		103 dB	
Frequency Range (-10dB)	85 Hz ~ 25K Hz			
Dispersion 1K Hz / 4K Hz	200° / 130°			
Ambient Temperature	-20°C ~ +60°C			
Power Selection	Selecting Switch		N. A.	
Termination	Push Terminal			
Material	Housing: High impact polystyrene, Grille: Steel.			
Colour / Finish	Black (RAL 9005)	White (RAL 9016)	Black (RAL 9005)	White (RAL 9016)
Dimensions	206 (8.11) W X 140 (5.51) H X 130 (5.12) D mm. (in.)			
Net Weight (ea)	1.87 kgs (4.12 lbs.)		1.45 kgs (3.20 lbs.)	
Mounting	U Type Steel Bracket			



CAL-5 Series Pro Audio Cabinet Loudspeaker



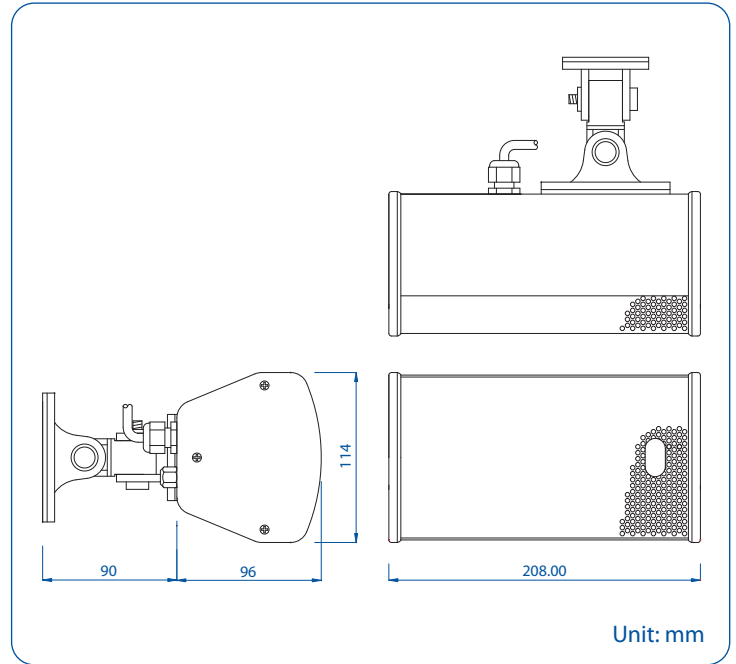
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Designed for the pro audio and commercial market.
- ▶ Designed utilizing CES Audio's anechoic test facilities with state of the art digital system analysis for accurate cabinet specification.
- ▶ Attractive trapezoid cabinet design for improved directivity and versatile mounting.
- ▶ Very high quality 2-way speaker system with 5" polypropylene bass / mid cone & 10-ounce magnet + mylar laminate dome tweeter.
- ▶ Powerful 8Ω operation.
- ▶ 30 watt transformer version with multi tapplings down to 3.75W (100V) & 1.9W (70V) - via rear-mount selector control.
- ▶ U mount bracket included as a standard accessory.
- ▶ Durable Nylon / Fibre multi bracket optional (broken tested up to 45.4 kgs / 100 lbs).
(B8-10-0091 Multi bracket-Black & B8-19-0091 Multi bracket-White - See accessory page)
- ▶ Finished in black (RAL 9005) or brilliant white (RAL 9016).

Model No.	CAL-5300	CAL-5300W	CAL-5608	CAL-5608W
Rated Power (rms)	30W		60W	
Impedance	333Ω, 667Ω, 1.30kΩ & 2.60kΩ		8Ω	
Power Taps @ 100V	30W, 15W, 7.5W, 3.75W & 8Ω		N. A.	
Power Taps @ 70V	15W, 7.5W, 3.75W, 1.9W & 8Ω		N. A.	
SPL (1W / 1M)	89 dB			
Max. SPL (Rated W / 1M)	104 dB		107 dB	
Frequency Range (-10dB)	75 Hz ~ 25K Hz			
Dispersion 1K Hz / 4K Hz	190° / 125°			
Ambient Temperature	-20°C ~ +60°C			
Power Selection	Selecting Switch		N. A.	
Termination	Push Terminal			
Material	Housing: High impact polystyrene, Grille: Steel.			
Colour / Finish	Black (RAL 9005)	White (RAL 9016)	Black (RAL 9005)	White (RAL 9016)
Dimensions	241 (9.49) W X 189 (7.44) H X 175 (6.89) D mm. (in.)			
Net Weight (ea)	2.66 kgs (5.86 lbs.)		2.10 kgs (4.63 lbs.)	
Mounting	U Type Steel Bracket			



CAE-3150 Waterproof Cabinet Loudspeaker



Unit: mm

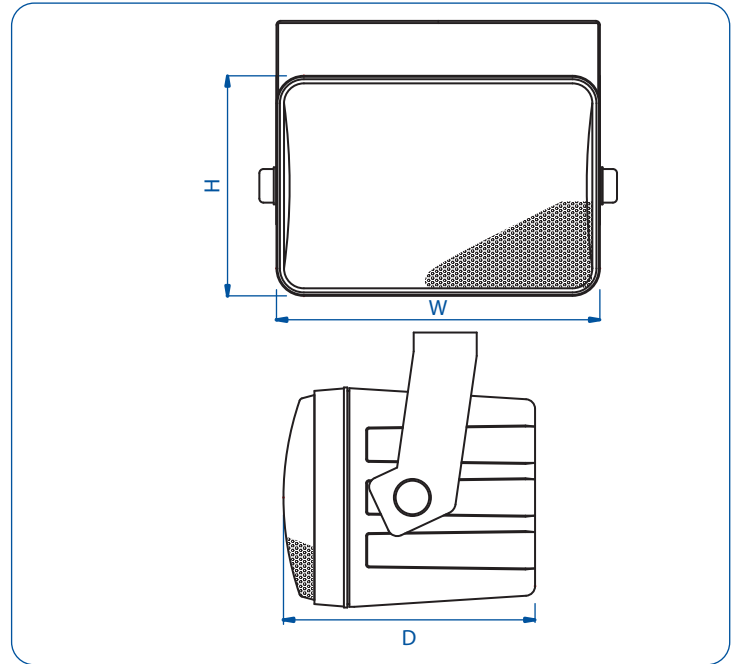
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Durable extruded aluminium housing.
- ▶ Water protected to IEC529 IP66, suitable for indoor and outdoor use.
- ▶ Durable Nylon / Fibre multi bracket included (broken tested up to 45.4 kgs /100 lbs).
- ▶ High quality 2 way system suitable for music & speech.
- ▶ Attractive slimline construction.
- ▶ Multi Impedance 15 watt 100v, 70v & 8Ω.
- ▶ High quality rotary power and tapings selector control.
- ▶ Available in White (RAL 9003).

Model No.	CAE-3150
Rated Power (rms)	15W
Impedance	333Ω, 667Ω, 1.30kΩ, & 2.60kΩ
Power Taps @ 100V	15W, 7.5W, 3.75W, OFF & 8Ω
Power Taps @ 70V	15W, 7.5W, 3.75W, 1.9W, OFF & 8Ω
SPL (1W / 1M)	88 dB
Max. SPL (Rated 15W / 1M)	100 dB
Frequency Range (-10dB)	130 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	190° / 100°
Ambient Temperature	-20°C ~ +60°C
Water Protection	IEC529 IP66
Power Selection	Selecting Switch
Material	Housing: Extruded Aluminium, Grille: Aluminium.
Colour / Finish	White (RAL 9003)
Dimensions	208 (8.19) L. X 114 (4.49) W X 96 (3.78) D mm. (in.)
Net Weight (ea)	2.1 kgs (4.63 lbs)
Mounting	Multi Bracket (B8-19-0091)



WCS Series Waterproof Cabinet Loudspeaker



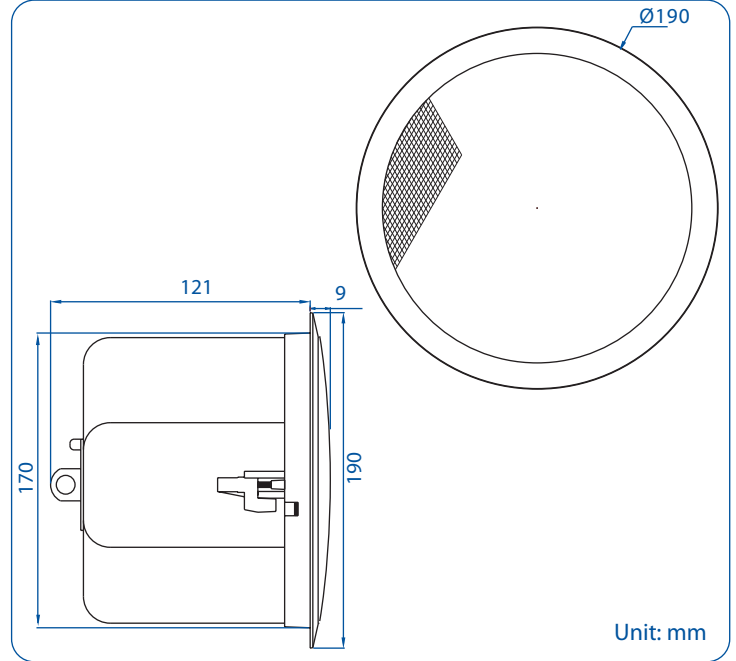
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Highly versatile range of background music & sound re-enforcement cabinet loudspeakers for indoor & outdoor use.
- Water-resistant to IEC529 IP55.
- Stainless steel exterior hardware.
- Power levels from 30 to 50 watts.
- High impact ABS/Fibre cabinet.
- Multi impedance 100 volt, 70 volt & 8Ω settings plus tappings - via selector control.
- U mount bracket included as a standard accessory.
- Durable Nylon / Fibre multi bracket optional (broken tested up to 45.4 kgs / 100 lbs).
(B8-10-0091 Multi bracket-Black & B8-19-0091 Multi bracket-White - See accessory page)
- Available in Black (RAL 9005) & White (RAL 9016).

Model No.	WCS-5300U/S	WCS-5300WU/S	WCS-6500U/S
Rated Power (rms)	30W		50W
Impedance	167Ω, 333Ω, 667Ω, 1.33kΩ, 2.66kΩ		100Ω, 200Ω, 400Ω, 800Ω, 1.60kΩ
Power Taps @ 100V	30W, 15W, 7.5W, 3.75W, & 8Ω		50W, 25W, 12.5W, 6.3W & 8Ω
Power Taps @ 70V	30W, 15W, 7.5W, 3.75W, 1.9W & 8Ω		50W, 25W, 12.5W, 6.3W, 3.1W & 8Ω
SPL (1W / 1M)	87 dB		89 dB
Max. SPL (Rated W / 1M)	102 dB		106 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz		90 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	200° / 80°		120° / 70°
Ambient Temperature	-20°C ~ +60°C		
Water Protection	IEC529 IP55		
Power Selection	Selecting Switch		
Termination	Push Terminal		
Material	Housing: High impact ABS with fibre, Grille: Stainless Steel.		
Colour / Finish	Black (RAL 9005)	White (RAL 9016)	Black (RAL 9005)
Dimensions	232 (9.13) W X 158 (6.22) H x 180 (7.09) D mm. (in.)		285 (11.22) W X 195 (7.68) H x 220 (8.66) D mm. (in.)
Net Weight (ea)	3.0 kgs (6.61 lbs.)		4.2 kgs (9.24 lbs.)
Mounting	U Type Stainless Steel Bracket		



CSB-3 Series Bass Reflex 2-Way Ceiling Loudspeaker



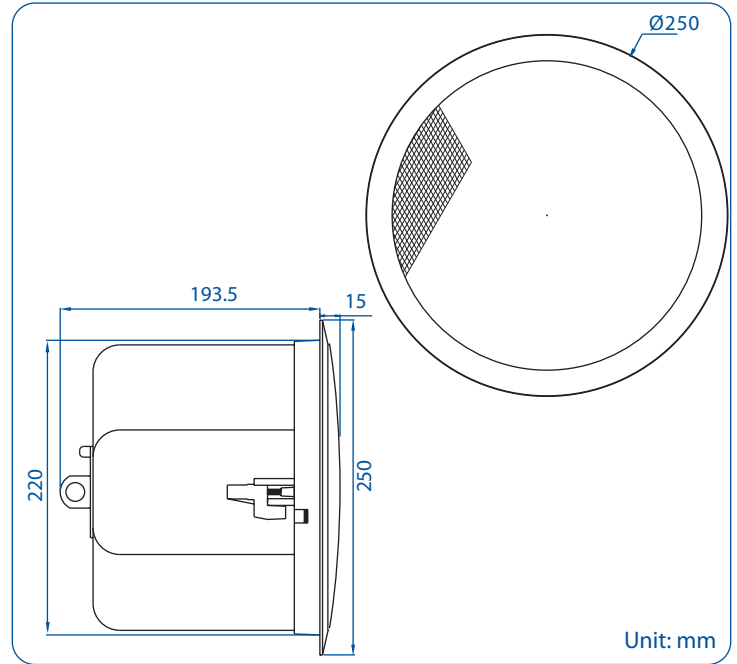
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Compact foreground and sound reinforcement quality.
- ▶ Ported enclosure for extended bass response.
- ▶ Very high quality 2-way speaker system with 3.5" polypropylene bass/mid cone & 8-ounce magnet + 0.5" mylar laminate dome tweeter.
- ▶ 15 watt transformer with multi tapplings down to 1.9W (100V) & 1W (70V).
- ▶ Discreet rotary power selector.
- ▶ Optional powerful 8Ω version.
- ▶ Fully rated for air handling spaces.
- ▶ Removable locking connector with screw-down terminals. 2 input terminals and 2 loop-thru output terminals.
- ▶ Dished grille design for acoustic integrity.
- ▶ Finished in brilliant white (RAL 9016).

Model No.	CSB-3150	CSB-3308
Rated Power (rms)	15W	30W
Impedance	667Ω, 1.30kΩ, 2.60kΩ & 5.20kΩ	8Ω
Power Taps @ 100V	15W, 7.5W, 3.75W, 1.9W & 8Ω	N. A.
Power Taps @ 70V	7.5W, 3.75W, 1.9W, 1W & 8Ω	
SPL (1W / 1M)	86 dB	
Max. SPL (Rated W / 1M)	98 dB	101 dB
Frequency Range (-10dB)	85 Hz ~ 25K Hz	
Dispersion 1K Hz / 4K Hz	210° / 140°	
Ambient Temperature	-20°C ~ +60°C	
Power Selection	Selecting Switch	N. A.
Termination	Removable locking connector with screw-down terminals. 2 input terminals and 2 loop-thru output terminals.	
Material	Baffle: UL94V0 High impact ABS, Backcan: Steel	
Colour / Finish	White (RAL 9016)	
Dimensions	190 (7.48) Dia. X 130 (5.12) Height mm. (in.)	
Cutout Size	170 (6.69) Dia. mm. (in.)	
Net Weight (ea)	1.63 kgs (3.59 lbs)	1.36 kgs (2.99 lbs.)
Mounting	Rotating Mount Tabs	



CSB-6 Series Bass Reflex 2-Way Ceiling Loudspeaker



Unit: mm

- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

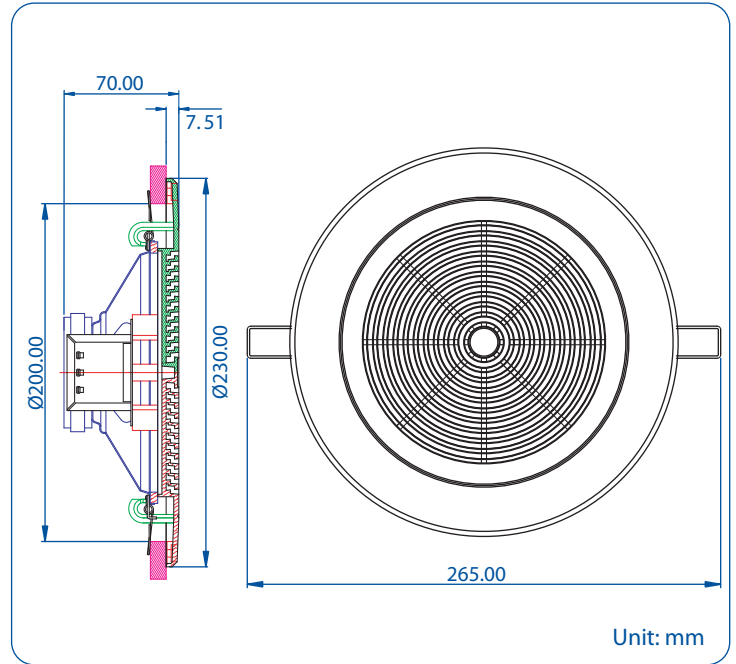
- Designed for foreground / sound reinforcement installations.
- Very high quality 6.5" 2-way speaker, with a polypropylene cone, 13-ounce magnet.
- Waveguide coupled 0.75" mylar dome tweeter.
- Ported internally damped enclosure for extended bass response.
- 30 watt transformer with multi tapings down to 3.75W (100V) & 1.9W (70V).
- Discreet rotary power selector.
- Optional powerful 8Ω version.
- Fully rated for air handling spaces.
- Removable locking connector with screw-down terminals. 2 input terminals and 2 loop-thru output terminals.
- Dished grille design for acoustic integrity.
- Finished in brilliant white (RAL 9016).

Model No.	CSB-6300	CSB-6608
Rated Power (rms)	30W	60W
Impedance	333Ω, 667Ω, 1.30kΩ & 2.60kΩ	8Ω
Power Taps @ 100V	30W, 15W, 7.5W, 3.75W & 8Ω	N. A.
Power Taps @ 70V	15W, 7.5W, 3.75W, 1.9W & 8Ω	N. A.
SPL (1W / 1M)	89 dB	
Max. SPL (Rated W / 1M)	104 dB	107 dB
Frequency Range (-10dB)	75 Hz ~ 25K Hz	
Dispersion 1K Hz / 4K Hz	140° / 75°	
Ambient Temperature	-20° C ~ +60° C	
Power Selection	Selecting Switch	N. A.
Termination	Removable locking connector with screw-down terminals. 2 input terminals and 2 loop-thru output terminals.	
Material	Baffle: UL94V0 High impact ABS, Backcan: Steel	
Colour / Finish	White (RAL 9016)	
Dimensions	250 (9.84) Dia. X 208.5 (8.21) Height mm. (in.)	
Cutout Size	220 (8.66) Dia. mm. (in.)	
Net Weight (ea)	3.58 kgs (7.89 lbs)	3.12 kgs (6.88 lbs.)
Mounting	Rotating Mount Tabs	



CPC-6061E

Clip-Mount Plastic Ceiling Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

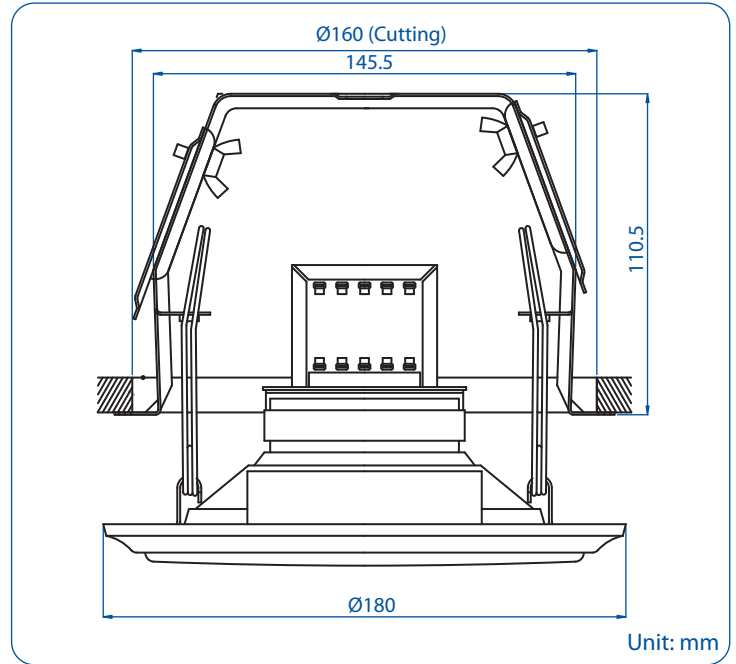
- ▶ Low profile grille design.
- ▶ Fast fitting and economical spring design.
- ▶ Ideal for shallow ceiling voids.
- ▶ Fitted with a twin cone driver unit.
- ▶ Designed to offer a wide response for music & speech.
- ▶ 6 watt transformer with multi tapings down to 0.75W (100V) & 0.375W (70V).
- ▶ UL94V0 high impact ABS grille.
- ▶ Finished in brilliant white (RAL 9016).

Model No.	CPC-6061E
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	93dB
Max. SPL (Rated 6W / 1M)	100dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	120°/90°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: UL94V0 High impact ABS
Colour / Finish	White (RAL 9016)
Dimensions	230 (9.06) Dia. X 70 (2.76) Height mm. (in.)
Cutout Size	200 (7.87) Dia. mm. (in.)
Net Weight (ea)	0.85 kgs (1.87 lbs)
Mounting	Spring-clip



QCM-5061

Quick-Mount Ceiling Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

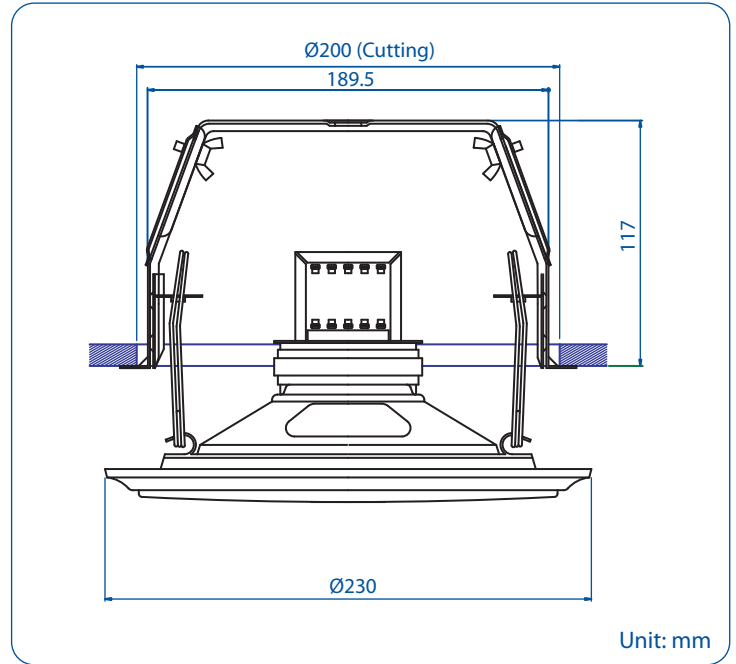
- ▶ Shares generic low profile grille design & simple fit system throughout entire QCM series.
- ▶ Fitted with a 5.25" twin cone driver unit. Designed to offer wide response for music & speech.
- ▶ 6 watt transformer with multi tapings down to 0.75W (100V) & 0.375W (70V).
- ▶ Built-in ceiling tile cutout marker.
- ▶ Dished grille design for acoustic integrity.
- ▶ Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-5061
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	92 dB
Max. SPL (Rated 6W / 1M)	99 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	140° / 70°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	180 (7.09) Dia. X 114 (4.5) Height mm. (in.)
Cutout Size	160 (6.30) Dia. mm. (in.)
Net Weight (ea)	1.3 kgs (2.87 lbs)
Mounting	Spring loaded Quick-Mount Bracket Assembly



QCM-6061

Quick-Mount Ceiling Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

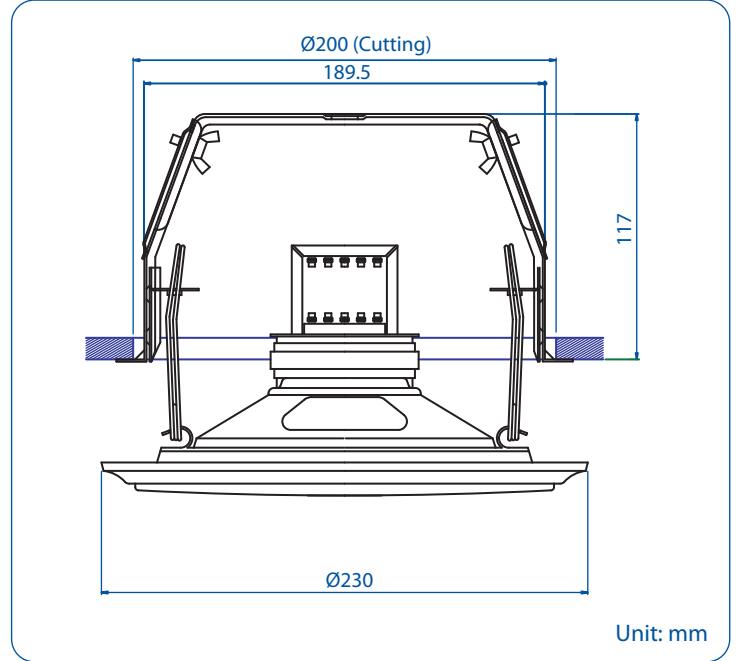
- ▶ Shares generic low profile grille design & simple fit system throughout entire QCM series.
- ▶ Fitted with a 6.5" twin cone driver unit. Designed to offer wide response for music & speech.
- ▶ 6 watt transformer with multi tapings down to 0.75W (100V) & 0.375W (70V).
- ▶ Built-in ceiling tile cutout marker.
- ▶ Dished grille design for acoustic integrity.
- ▶ Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-6061
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	93 dB
Max. SPL (Rated 6W / 1M)	100 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	120° / 90°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	230 (9.06) Dia. X 121 (4.76) Height mm. (in.)
Cutout Size	200 (7.87) Dia. mm. (in.)
Net Weight (ea)	1.4 kgs (3.09 lbs)
Mounting	Spring loaded Quick-Mount Bracket Assembly



QCM-6081T

Quick-Mount 2-Way Ceiling Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

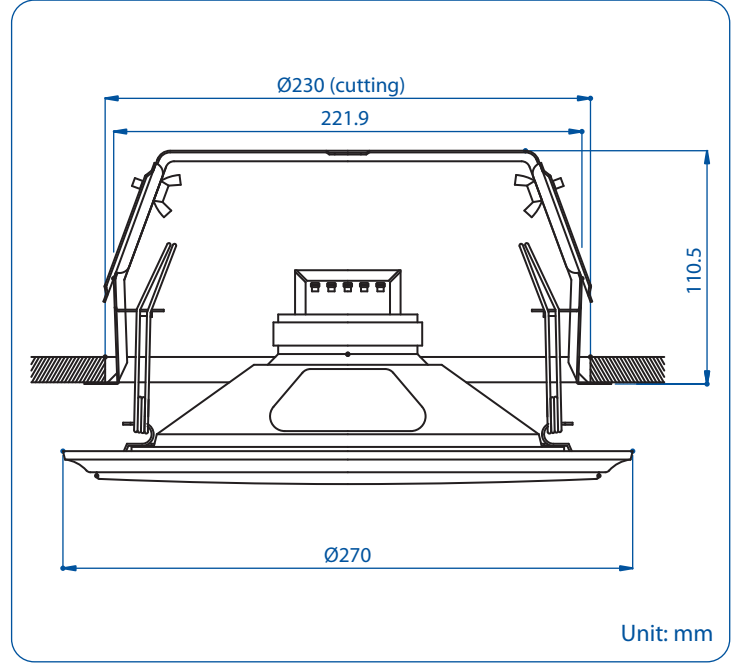
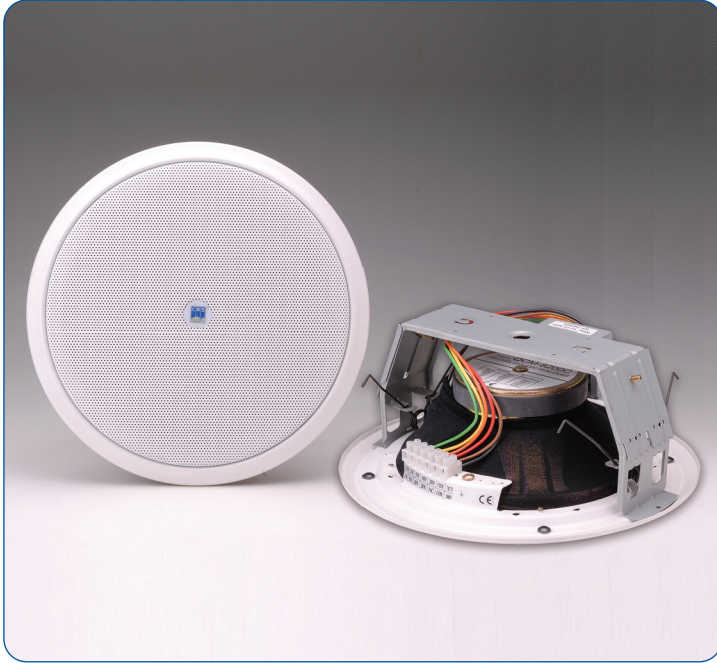
- ▶ Shares generic low profile grille design & simple fit system throughout entire QCM series.
- ▶ Featuring a high quality 6.5" 2-way speaker, with a paper cone, 10-ounce magnet and 2" tweeter with a bi-polar crossover.
- ▶ Foreground and sound reinforcement quality.
- ▶ 8 watt transformer with multi tapings down to 1W (100V) & 0.5W (70V).
- ▶ Built-in ceiling tile cutout marker.
- ▶ Dished grille design for acoustic integrity.
- ▶ Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-6081T
Rated Power (rms)	8W
Impedance	1.25kΩ, 2.50kΩ, 5kΩ & 10kΩ
Power Taps @ 100V	8W, 4W, 2W & 1W
Power Taps @ 70V	4W, 2W, 1W & 0.5W
SPL (1W / 1M)	95 dB
Max. SPL (Rated 8W / 1M)	104 dB
Frequency Range (-10dB)	80 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	140° / 65°
Ambient Temperature	-20°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	230 (9.06) Dia. X 121 (4.76) Height mm. (in.)
Cutout Size	200 (7.87) Dia. mm. (in.)
Net Weight (ea)	1.7 kgs (3.75 lbs)
Mounting	Spring loaded Quick-Mount Bracket Assembly



QCM-8101

Quick-Mount Ceiling Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

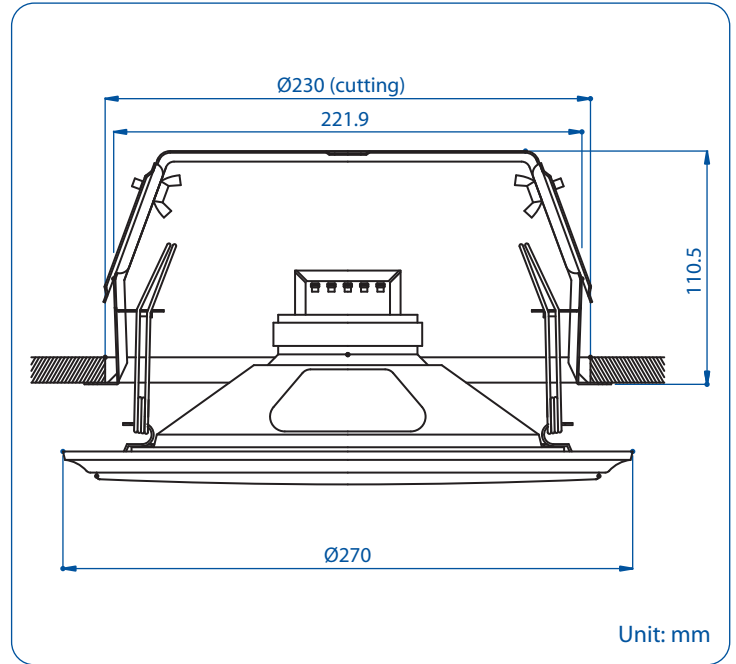
- ▶ Shares generic low profile grille design & simple fit system throughout entire QCM series.
- ▶ Fitted with an 8" twin cone driver unit. Designed to offer wide response for music & speech.
- ▶ Excellent low frequency response.
- ▶ 10 watt transformer with multi tapplings down to 1.25W (100V) & 0.625W (70V).
- ▶ Built-in ceiling tile cutout marker.
- ▶ Dished grille design for acoustic integrity.
- ▶ Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-8101
Rated Power (rms)	10W
Impedance	1kΩ, 2kΩ, 4kΩ & 8kΩ
Power Taps @ 100V	10W, 5W, 2.5W & 1.25W
Power Taps @ 70V	5W, 2.5W, 1.25W & 0.625W
SPL (1W / 1M)	92 dB
Max. SPL (Rated 10W / 1M)	102 dB
Frequency Range (-10dB)	70 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	100° / 45°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	270 (10.63) Dia. X 114 (4.5) Height mm. (in.)
Cutout Size	230 (9.06) Dia. mm. (in.)
Net Weight (ea)	1.9 kgs (4.19 lbs)
Mounting	Spring loaded Quick-Mount Bracket Assembly



QCM-8200C

Quick-Mount 2-Way Ceiling Loudspeaker



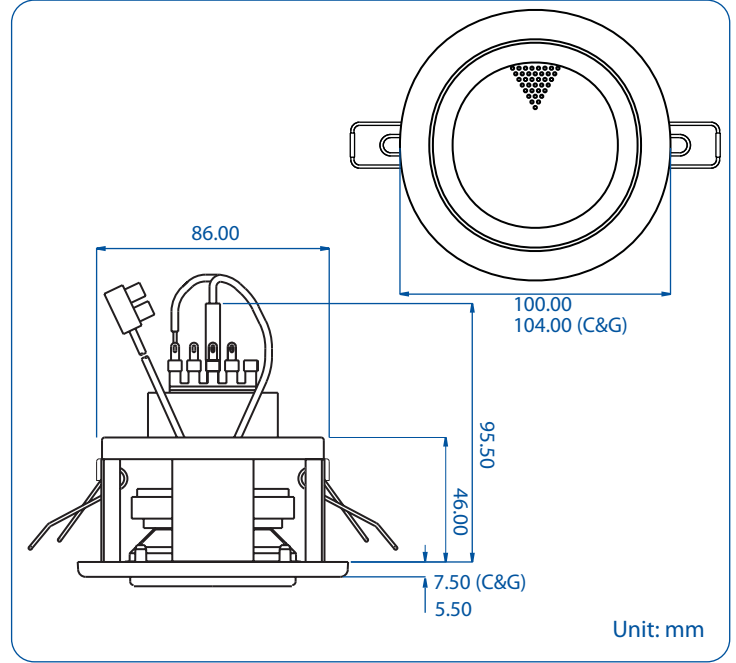
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Shares generic low profile grille design & simple fit system throughout entire QCM series.
- The ultimate ceiling speaker from CES Audio.
- Fitted with an 8" 2 way polypropylene driver unit with 2.5" mylar tweeter & 13 ounce magnet designed to offer wide response for music & speech.
- Excellent low frequency response.
- 20 watt transformer with multi tapplings down to 2.5W (100V) & 1.25W (70V).
- Built-in ceiling tile cutout marker.
- Dished grille design for acoustic integrity.
- Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-8200C
Rated Power (rms)	20W
Impedance	250 Ω, 500 Ω, 1kΩ, 2k Ω & 4kΩ
Power Taps @ 100V	20W, 10W, 5W & 2.5W
Power Taps @ 70V	20W, 10W, 5W, 2.5W & 1.25W
SPL (1W / 1M)	89 dB
Max. SPL (Rated 20W / 1M)	102 dB
Frequency Range (-10dB)	50 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	100° / 50°
Ambient Temperature	-20°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	270 (10.63) Dia. X 114 (4.5) Height mm. (in.)
Cutout Size	230 (9.06) Dia. mm. (in.)
Net Weight (ea)	2.6 kgs (5.73 lbs)
Mounting	Spring loaded Quick-Mount Bracket Assembly



SLC-2060 Series Spotlight Ceiling Loudspeaker



Unit: mm

- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

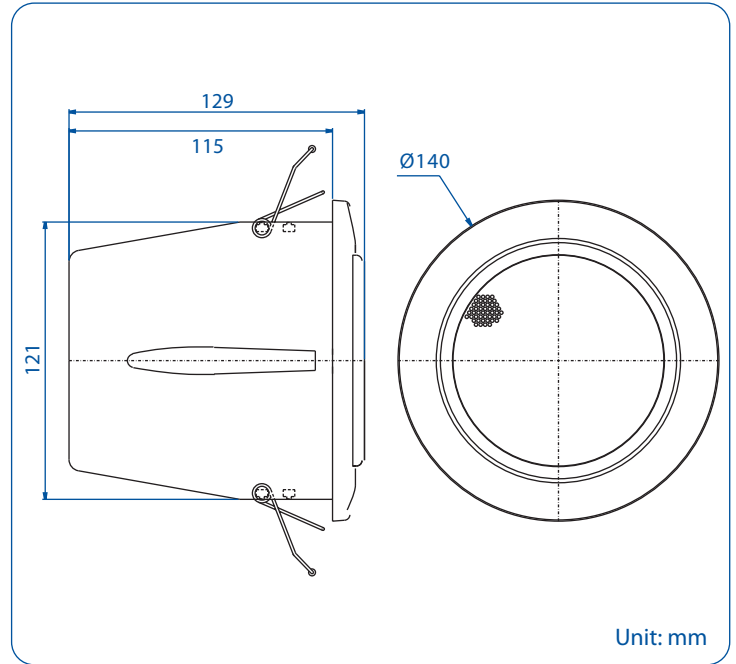
- Designed to look like ceiling spotlights.
- Same size and fixing mechanism as spotlights.
- Remarkable sound quality from small unit.
- 2.5" full range driver unit.
- 100mm diameter grille. Gold & Chrome options have a grille diameter of 104mm.
- Designed for unobtrusive installation.
- Available in four colour options:
 - SLC-2060 --- White
 - SLC-2060B --- Black
 - SLC-2060C --- Chrome
 - SLC-2060G --- Gold

Model No.	SLC-2060	SLC-2060B	SLC-2060C	SLC-2060G
Rated Power (rms)	6W			
Impedance	833 Ω, 1.67kΩ, 3.33kΩ & 6.67kΩ			
Power Taps @ 100V	6W, 3W & 1.5W			
Power Taps @ 70V	6W, 3W, 1.5W & 0.75W			
SPL (1W / 1M)	86 dB			
Max. SPL (Rated 6W / 1M)	93 dB			
Frequency Range (-10dB)	150 Hz ~ 20K Hz			
Dispersion 1K Hz / 4K Hz	200° / 80°			
Ambient Temperature	-30°C ~ +60°C			
Power Selection	Plug			
Material	Baffle: UL94V0 ABS with fibre, Grille: Steel			
Colour / Finish	White (RAL 9016) / Black (RAL 9005) / Chrome / Gold			
Dimensions	100 (3.94) C & G: 104 (4.09) Dia. X 95.5 (3.76) Height mm. (in.)			
Cutout Size	92 (3.62) Dia. mm. (in.)			
Net Weight (ea)	0.55 kgs (1.21 lbs)			
Mounting	Spring			



SCP-4060

IP Rated "Splashproof" Ceiling Loudspeaker



Unit: mm

- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

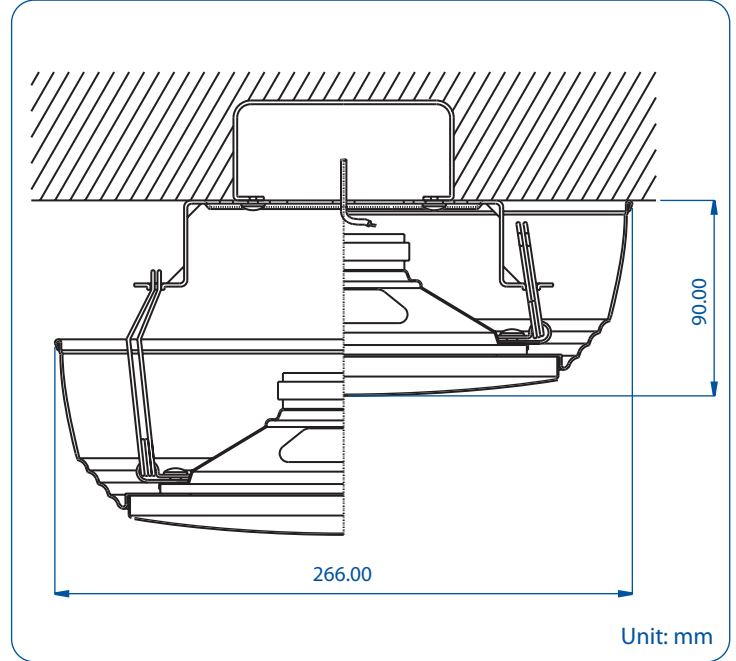
- IP rated to IEC529 IP55.
- 4" full range polypropylene driver unit.
- Sealed UL94V0 ABS rear enclosure with glanded cable tail. UL94V0 ABS baffle.
- Available in 100 volt, 70 volt and 8Ω.
- Stainless steel mounting springs and exterior hardware.
- Suitable for non-shedding, "clean-room" environments.
- Also suitable for food processing plants or applications where significant moisture is present such as bathroom or steam sauna rooms.
- Finished in brilliant white (RAL 9016).

Model No.	SCP-4060
Rated Power (rms)	6W
Impedance	883Ω, 1.67kΩ, 3.33kΩ, 6.67kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 8Ω
Power Taps @ 70V	6W, 3W, 1.5W, 0.75W & 8Ω
SPL (1W / 1M)	88 dB
Max. SPL (Rated 6W / 1M)	95 dB
Frequency Range (-10dB)	150 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	210° / 130°
Ambient Temperature	-30°C ~ +60°C
Water Protection	IEC529 IP55
Power Selection	7-core cable
Material	Baffle: UL94V0 ABS, Grille: Aluminium, Enclosure: UL94V0 ABS.
Colour / Finish	White (RAL 9016)
Dimensions	140 (5.51) Dia. X 135 (5.31) Height mm. (in.)
Cutout Size	130 (5.12) Dia. mm. (in.)
Net Weight (ea)	0.96 kgs (2.12 lbs)
Mounting	Stainless Steel Spring



SCS-6061

Surface-Mount Ceiling Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

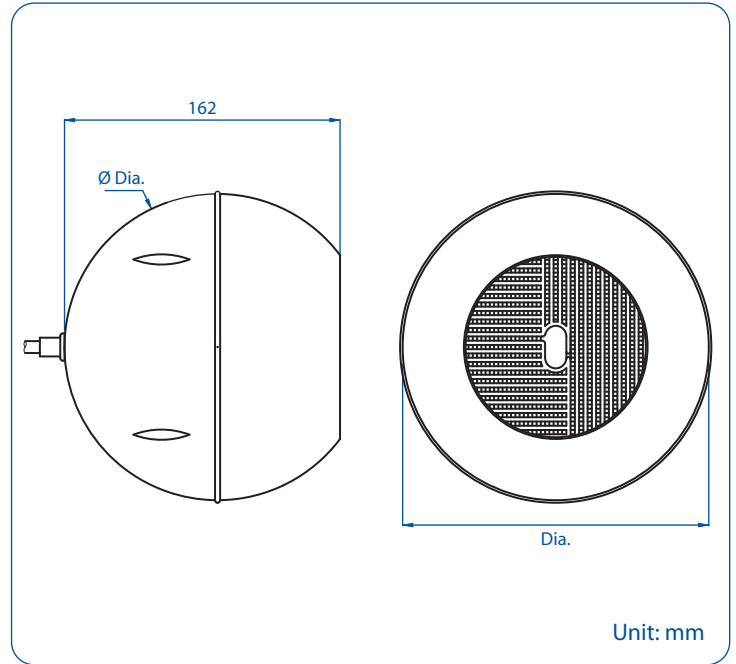
- ▶ Designed for use where no ceiling voids are present such as bulkheads, stairwells etc.
- ▶ Can be wall-mounted.
- ▶ Shares grille design with QCM ceiling speaker - range for uniformity when specifying.
- ▶ 6.5" Twin-cone full range driver unit for high quality sound reproduction.
- ▶ Aesthetically pleasing, spun aluminium design.
- ▶ Simple spring fitting system.
- ▶ 6 watt transformer with multi tapplings down to 0.75W (100V) & 0.375W (70V).

Model No.	SCS-6061
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	94 dB
Max. SPL (Rated 6W / 1M)	101 dB
Frequency Range (-10dB)	150 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	120° / 80°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Housing: Aluminium, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	266 (10.47) Dia. X 90 (3.54) Height mm. (in.)
Net Weight (ea)	1.3 kgs (2.87 lbs)
Mounting	Spring loaded Quick-Mount Bracket Assembly



SPS Series

Splash Waterproof Sphere Loudspeaker



- 100 Hours Life Tested
- EASE Data
- Pendant Cord Broken Tested
- Rustproof
- UL94V0
- CE Certified (EMC & LVD)
- IP Rated
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

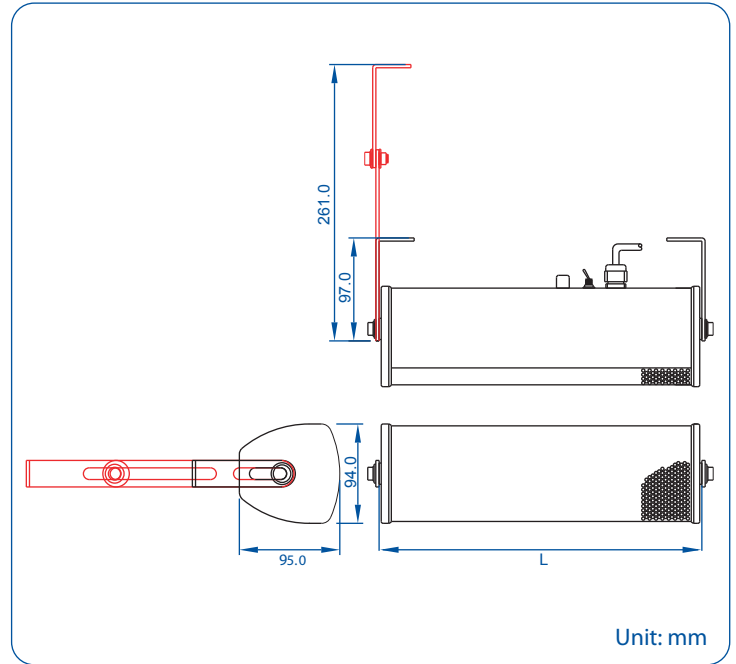
- ▶ Designed for wide area sound coverage.
- ▶ Available as: 12 watt compact 5" driver unit option, 20 or 30 watt 6.5" driver unit option.
- ▶ High performance driver units for music & speech applications.
- ▶ Power cord broken tested up to 48.35 kgs (106 lbs).
- ▶ High impact self extinguishing UL94V0 ABS housing with UV protection.
- ▶ IP rated to IEC529 IP55.

Model No.	SPS-5121PW	SPS-6201PW	SPS-6301PW
Rated Power (rms)	12W	20W	30W
Impedance	833Ω, 1.11kΩ, 1.67kΩ, 3.33kΩ, 10kΩ	500Ω, 667Ω, 1kΩ, 2kΩ, 4kΩ	333Ω, 500Ω, 667Ω, 1kΩ, 2kΩ
Power Taps @ 100V	12W, 9W, 6W, 3W, 1W & 8Ω	20W, 15W, 10W, 5W, 2.5W & 8Ω	30W, 20W, 15W, 10W, 5W & 8Ω
Power Taps @ 70V	6W, 4.5W, 3W, 1.5W, 0.5W & 8Ω	10W, 7.5W, 5W, 2.5W, 1.25W & 8Ω	15W, 10W, 7.5W, 5W, 2.5W & 8Ω
SPL (1W / 1M)	89 dB	91 dB	92 dB
Max. SPL (Rated W / 1M)	100 dB	104 dB	107 dB
Frequency Range (-10dB)	130 Hz ~ 20K Hz	100 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	195° / 60°	200° / 35°	200° / 35°
Ambient Temperature	-30°C ~ +60°C		
Water Protection	IEC529 IP55		
Power Selection	7-core cable		
Material	Housing: UL94V0 high impact ABS with UV protection		
Colour / Finish	White (RAL 9016)		
Dimensions	180 (7.09) Dia. mm. (in.)	260 (10.24) Dia. mm. (in.)	
Net Weight (ea)	1.5 kgs (3.31 lbs)	2.2 kgs (4.85 lbs)	2.4 kgs (5.29 lbs)



CLS-3 Series

"Contractor Series" Column Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Highly cost effective solution.
- ▶ Durable galvanize steel housing.
- ▶ Attractive slimline construction.
- ▶ Fitted with high specification driver units / tweeter for exceptional speech & music reproduction.
- ▶ Suitable for accurate, "long throw" applications.
- ▶ Available in 10 - 20 - 30 & 40 watt options.
- ▶ Multi impedance 100V & 70V.
- ▶ Rotary power and tapings selector.
- ▶ Rear-mounted low-cut switch for speech.
- ▶ Mounting bracket included.
- ▶ Available in White (RAL 9003).

Model No.	CLS-3100
Rated Power (rms)	10W
Number of Loudspeakers	3" Woofer X 1 + 2" Tweeter X 1
Impedance	500Ω, 1kΩ, 2kΩ, 4kΩ & 8kΩ
Power Taps @ 100V	10W, 5W, 2.5W & 1.25W
Power Taps @ 70V	10W, 5W, 2.5W, 1.25W & 0.625W
SPL (1W / 1M)	85 dB
Max. SPL (Rated 10W / 1M)	95 dB
Frequency Range (-10dB)	170 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	Horizontal: 190° / 160°, Vertical: 150° / 85°
Ambient Temperature	-20°C ~ +60°C
Low-cut Switch	400 Hz
Power Selection	Selecting Switch
Material	Housing: Galvanized Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	222 (8.74) L X 94 (3.70) W X 95 (3.74) D mm. (in.)
Net Weight (ea)	1.31 kgs (2.89 lbs)
Mounting	L Type Steel Bracket

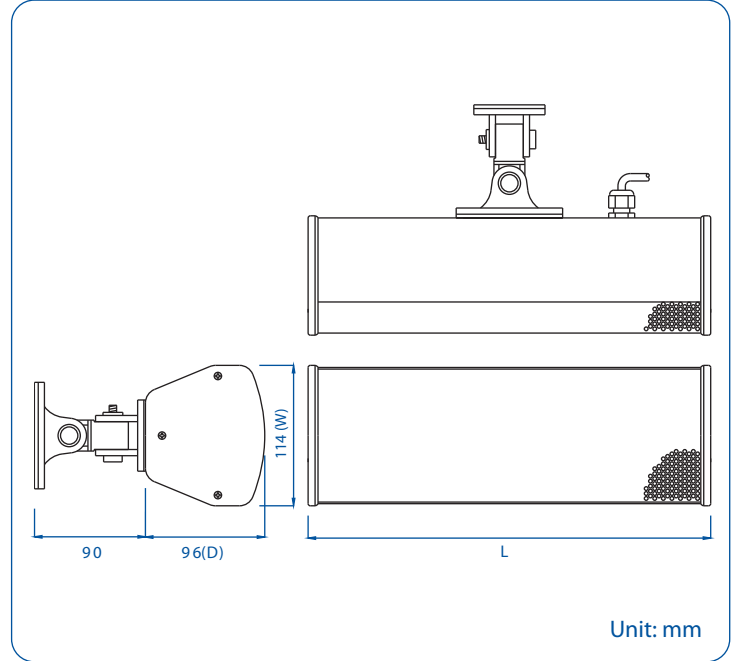
Model No.	CLS-3200
Rated Power (rms)	20W
Number of Loudspeakers	3" Woofer X 2 + 2" Tweeter X 1
Impedance	250Ω, 500Ω, 1kΩ, 2kΩ & 4kΩ
Power Taps @ 100V	20W, 10W, 5W & 2.5W
Power Taps @ 70V	20W, 10W, 5W, 2.5W & 1.25W
SPL (1W / 1M)	87 dB
Max. SPL (Rated 20W / 1M)	100 dB
Frequency Range (-10dB)	150 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	Horizontal: 190° / 120°, Vertical: 125° / 30°
Ambient Temperature	-20° C ~ +60° C
Low-cut Switch	400 Hz
Power Selection	Selecting Switch
Material	Housing: Galvanized Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	304 (11.97) L X 94 (3.70) W X 95 (3.74) D mm. (in.)
Net Weight (ea)	1.81 kgs (3.99 lbs)
Mounting	L Type Steel Bracket

Model No.	CLS-3300
Rated Power (rms)	30W
Number of Loudspeakers	3" Woofer X 3 + 2" Tweeter X 1
Impedance	167Ω, 333Ω, 666Ω, 1.33kΩ & 2.67kΩ
Power Taps @ 100V	30W, 15W, 7.5W & 3.75W
Power Taps @ 70V	30W, 15W, 7.5W, 3.75W & 1.9W
SPL (1W / 1M)	88 dB
Max. SPL (Rated 30W / 1M)	103 dB
Frequency Range (-10dB)	140 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	Horizontal: 195° / 105°, Vertical: 105° / 30°
Ambient Temperature	-20° C ~ +60° C
Low-cut Switch	400 Hz
Power Selection	Selecting Switch
Material	Housing: Galvanized Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	387 (15.24) L X 94 (3.70) W X 95 (3.74) D mm. (in.)
Net Weight (ea)	2.3 kgs (5.07 lbs)
Mounting	L Type Steel Bracket

Model No.	CLS-3400
Rated Power (rms)	40W
Number of Loudspeakers	3" Woofer X 4 + 2" 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)	90 dB
Max. SPL (Rated 40W / 1M)	106 dB
Frequency Range (-10dB)	140 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	Horizontal: 205° / 140°, Vertical: 85° / 45°
Ambient Temperature	-20° C ~ +60° C
Low-cut Switch	400 Hz
Power Selection	Selecting Switch
Material	Housing: Galvanized Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	469 (18.46) L X 94 (3.70) W X 95 (3.74) D mm. (in.)
Net Weight (ea)	2.8 kgs (6.17 lbs)
Mounting	L Type Steel Bracket



COS-3 Series Column Loudspeaker



Unit: mm

- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- RoHS Compliance
- UL94V0
- BS 5839 Part 8
- EASE Data
- Multi-Bracket Broken Tested
- Rustproof
- Withstanding/Insulation Tested

- Durable extruded aluminium housing.
- Attractive slimline construction.
- Fitted with high specification driver units / tweeter for exceptional speech & music reproduction.
- Suitable for accurate, "long throw" applications.
- Water protected to IEC529 IP66, suitable for indoor and outdoor use.
- Durable aluminium alloy multi bracket broken tested up to 1500 kgf.
- Available in 10 - 20 - 30 & 40 watt options.
- Multi impedance 100V, 70V & 8Ω.
- High quality rotary power and tapings selector (suffix "B") or 6 way power cord (no 8Ω).
- Available in White (RAL 9003).

Model No.	COS-3100	COS-3100B
Rated Power (rms)	10W	
Number of Loudspeakers	3.5" Woofer X 2 + 3.25" Tweeter X 1	
Impedance	500Ω, 1kΩ, 2kΩ, 4kΩ & 8kΩ	500Ω, 1kΩ, 2kΩ, 4kΩ
Power Taps @ 100V	10W, 5W, 2.5W & 1.25W	10W, 5W, 2.5W, OFF & 8Ω
Power Taps @ 70V	10W, 5W, 2.5W, 1.25W & 0.625W	10W, 5W, 2.5W, 1.25W, OFF & 8Ω
SPL (1W / 1M)	91 dB	
Max. SPL (Rated 10W / 1M)	101 dB	
Frequency Range (-10dB)	130 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	Horizontal: 180° / 100°, Vertical: 75° / 30°	
Ambient Temperature	-20°C ~ +60°C	
Water Protection	IEC529 IP66	
Power Selection	6-core cable	Selecting Switch
Material	Housing: Extruded Aluminium, Grille: Aluminium	
Colour / Finish	White (RAL 9003)	
Dimensions	395 (15.55) L X 114 (4.49) W X 96 (3.78) D mm. (in.)	
Net Weight (ea)	2.8 kgs (6.17 lbs)	
Mounting	Aluminium Alloy Multi Bracket	

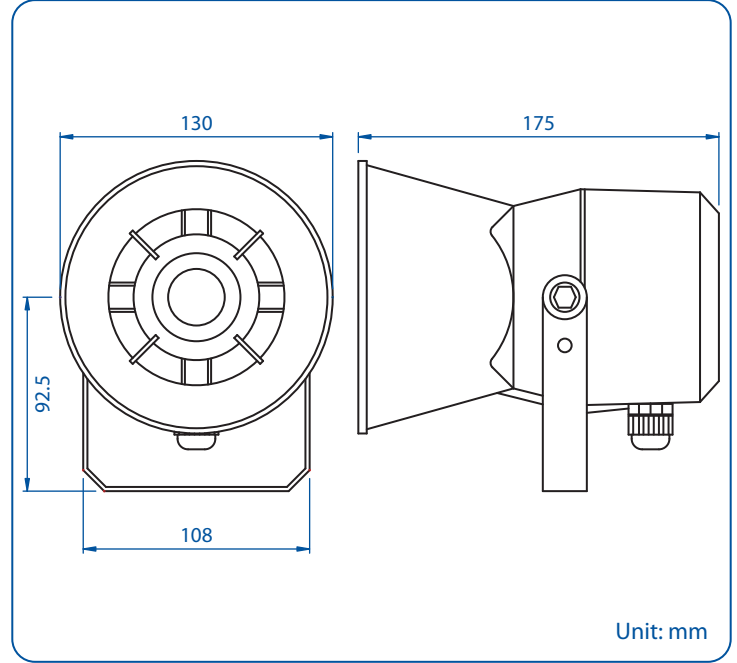
Model No.	COS-3200	COS-3200B
Rated Power (rms)	20W	
Number of Loudspeakers	3.5" Woofer X 4 + 3.25" Tweeter X 1	
Impedance	250Ω, 500Ω, 1kΩ, 2kΩ & 4kΩ	250Ω, 500Ω, 1kΩ, 2kΩ
Power Taps @ 100V	20W, 10W, 5W & 2.5W	20W, 10W, 5W, OFF & 4Ω
Power Taps @ 70V	20W, 10W, 5W, 2.5W & 1.25W	20W, 10W, 5W, 2.5W, OFF & 4Ω
SPL (1W / 1M)	92 dB	
Max. SPL (Rated 20W / 1M)	105 dB	
Frequency Range (-10dB)	120 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	Horizontal: 180° / 90°, Vertical: 45° / 20°	
Ambient Temperature	-20°C ~ +60°C	
Water Protection	IEC529 IP66	
Power Selection	6-core cable	Selecting Switch
Material	Housing: Extruded Aluminium, Grille: Aluminium	
Colour / Finish	White (RAL 9003)	
Dimensions	585 (23.03) L X 114 (4.49) W X 96 (3.78) D mm. (in.)	
Net Weight (ea)	4.0 kgs (8.82 lbs)	
Mounting	Aluminium Alloy Multi Bracket	

Model No.	COS-3300	COS-3300B
Rated Power (rms)	30W	
Number of Loudspeakers	3.5" Woofer X 6 + 3.25" Tweeter X 1	
Impedance	167Ω, 333Ω, 666Ω, 1.33kΩ & 2.67kΩ	167Ω, 333Ω, 666Ω, 1.33kΩ
Power Taps @ 100V	30W, 15W, 7.5W & 3.75W	30W, 15W, 7.5W, OFF & 6Ω
Power Taps @ 70V	30W, 15W, 7.5W, 3.75W & 1.9W	30W, 15W, 7.5W, 3.75W, OFF & 6Ω
SPL (1W / 1M)	93 dB	
Max. SPL (Rated 30W / 1M)	108 dB	
Frequency Range (-10dB)	110 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	Horizontal: 190° / 90°, Vertical: 40° / 30°	
Ambient Temperature	-20°C ~ +60°C	
Water Protection	IEC529 IP66	
Power Selection	6-core cable	Selecting Switch
Material	Housing: Extruded Aluminium, Grille: Aluminium	
Colour / Finish	White (RAL 9003)	
Dimensions	770 (30.31) L X 114 (4.49) W X 96 (3.78) D mm. (in.)	
Net Weight (ea)	5.6 kgs (12.35 lbs)	
Mounting	Aluminium Alloy Multi Bracket	

Model No.	COS-3400	COS-3400B
Rated Power (rms)	40W	
Number of Loudspeakers	3.5" Woofer X 8 + 3.25" Tweeter X 1	
Impedance	125Ω, 250Ω, 500Ω, 1KΩ & 2KΩ	125Ω, 250Ω, 500Ω, 1kΩ
Power Taps @ 100V	40W, 20W, 10W & 5W	40W, 20W, 10W, OFF & 8Ω
Power Taps @ 70V	40W, 20W, 10W, 5W & 2.5W	40W, 20W, 10W, 5W, OFF & 8Ω
SPL (1W / 1M)	93 dB	
Max. SPL (Rated 40W / 1M)	109 dB	
Frequency Range (-10dB)	110 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	Horizontal: 180° / 90°, Vertical: 30° / 20°	
Ambient Temperature	-20°C ~ +60°C	
Water Protection	IEC529 IP66	
Power Selection	6-core cable	Selecting Switch
Material	Housing: Extruded Aluminium, Grille: Aluminium	
Colour / Finish	White (RAL 9003)	
Dimensions	960 (37.80) L X 114 (4.49) W X 96 (3.78) D mm. (in.)	
Net Weight (ea)	7.7 kgs (16.98 lbs)	
Mounting	Aluminium Alloy Multi Bracket	



MPH-5 Series Compact Power-Horn Loudspeaker



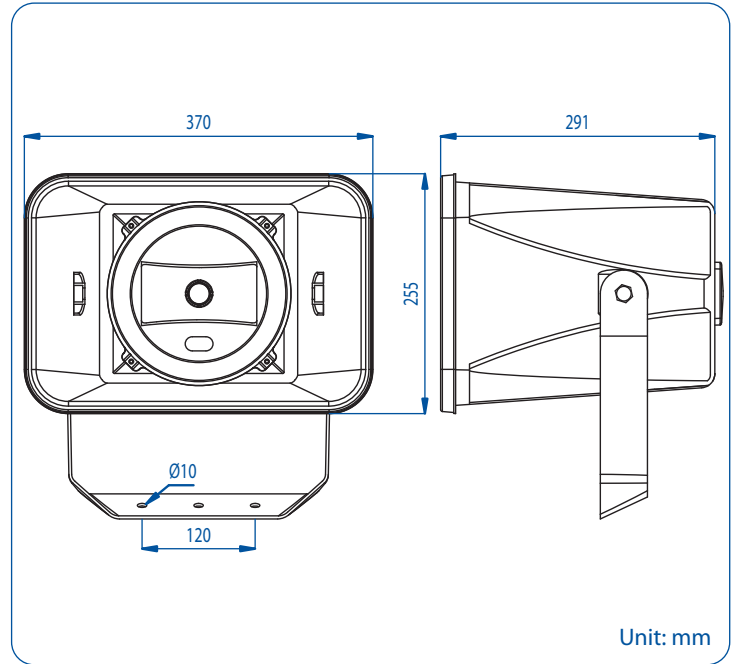
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Very high efficiency.
- High power 30 watt rms.
- 100V & 70V transformer.
- High impact ABS cabinet, UV protection.
- Ingress protected to IEC529 IP66.
- Stainless steel mounting bracket & exterior hardware.
- 6-core multi-tapping glanded cable.
- Standard colour is White (RAL 9016).

Model No.	MPH-5300	MPH-5308
Rated Power (rms)	30W	
Impedance	167Ω, 333Ω, 666Ω, 1.33kΩ, 2.67kΩ	8Ω
Power Taps @ 100V	30W, 15W, 7.5W & 3.75W	N. A.
Power Taps @ 70V	30W, 15W, 7.5W, 3.75W & 1.9W	N. A.
SPL (1W / 1M)	106 dB	
Max. SPL (Rated 30W / 1M)	121 dB	
Frequency Range (-10dB)	500 Hz ~ 7K Hz	
Frequency Range (-20dB)	430 Hz ~ 16K Hz	
Dispersion 1K Hz / 4K Hz	240° / 45°	
Ambient Temperature	-30° C ~ +60° C	
Water Protection	IEC529 IP66	
Power Selection	6-core cable	N. A.
Material	Housing: High impact ABS with UV protection	
Colour / Finish	White (RAL 9016)	
UV Protection	Available	
Dimensions	130 (5.12) Dia. X 175 (6.89) Length mm. (in.)	
Net Weight (ea)	1.7 kgs (3.75 lbs)	1.4 kgs (3.09 lbs)
Mounting	U Type Stainless Steel Bracket	



MUH-6 Series Music Horn Loudspeaker



Unit: mm

- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

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. Ideal for applications such as sports stadiums, cruise liners, school yards, municipal swimming pools, high ambient industrial areas and leisure / theme parks.

- ▶ Available in 30 watt and 60 watt.
- ▶ Two-way capabilities for security / monitoring applications.
- ▶ Water protected to IEC529 IP66.
- ▶ UV protected for years of outdoor use.
- ▶ Manufactured in ABS & Polypropylene with glass fibre.
- ▶ Trunion extruded aluminium bracket with stainless mounting screws.

Model No.	MUH-6300	MUH-6600
Rated Power (rms)	30W	60W
Impedance	167Ω, 333Ω, 667Ω, 1.33kΩ & 2.67kΩ	83Ω, 167Ω, 333Ω, 667Ω & 1.33kΩ
Power Taps @ 100V	30W, 15W, 7.5W & 3.75W	60W, 30W, 15W & 7.5W
Power Taps @ 70V	30W, 15W, 7.5W, 3.75W & 1.9W	60W, 30W, 15W, 7.5W & 3.75W
SPL (1W / 1M)	98 dB	98 dB
Max. SPL (Rated W / 1M)	113 dB	115 dB
Frequency Range (-10dB)	100 Hz ~11K Hz	110 Hz ~11K Hz
Frequency Range (-20dB)	80 Hz ~ 20K Hz	90 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	85° / 45°	70° / 45°
Ambient Temperature	-30°C ~ +60°C	
Water Protection	IEC529 IP66	
Power Selection	Terminal Block	
Material	Housing: High impact ABS with UV protection, Center: Polypropylene with glass fibre	
Colour / Finish	Light Grey (RAL 7035)	
UV Protection	Available	
Dimensions	370 (14.57) X 255 (10.04) x 291 (11.46) Length mm (in.)	
Net Weight (ea)	4.6 Kgs (10.14 lbs)	5.42 Kgs (11.92 lbs)
Mounting	U Type Aluminium Bracket	



PRH Series Plastic Horn Loudspeaker

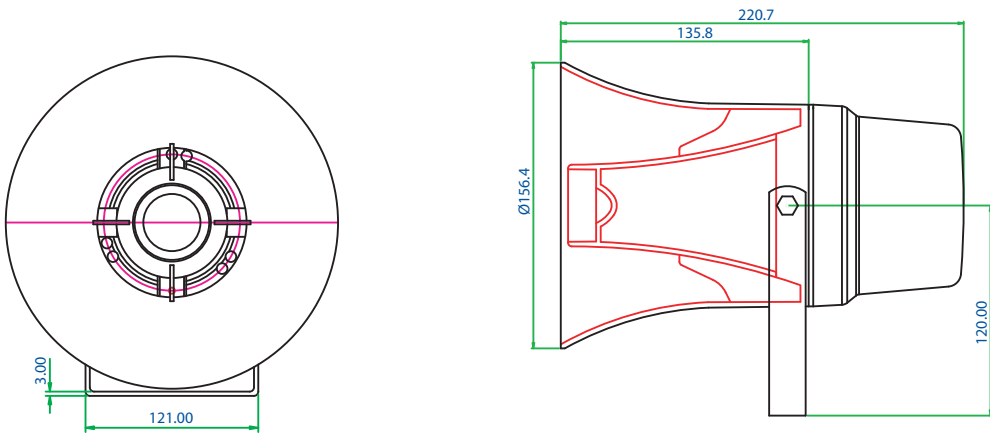


- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ High impact ABS construction.
- ▶ Water protected to IEC529 IP66.
- ▶ Very high efficiency.
- ▶ Built-in line transformer with screwdriver adjustable power selector (sealed).
- ▶ Glanded cable tails.
- ▶ Stainless steel mounting bracket & exterior hardware.

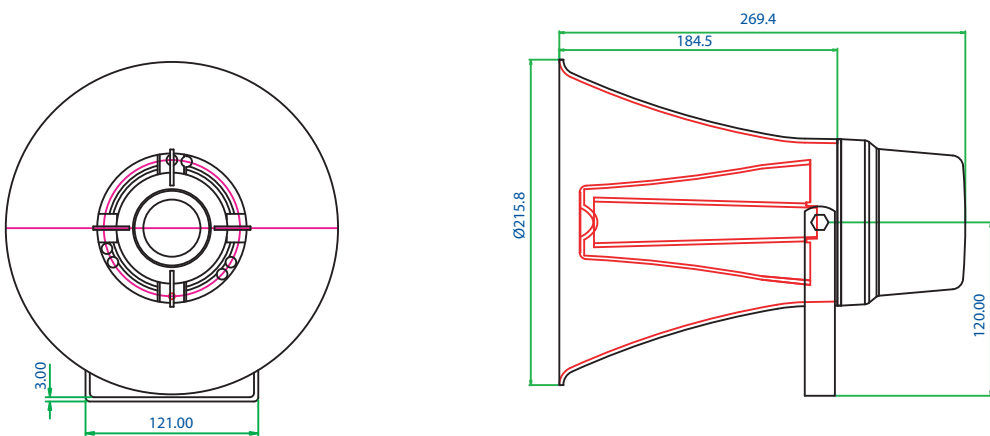
Model No.	PRH-6101/8	PRH-8151/8	PRH-10301/8
Rated Power (rms)	10W	15W	30W
Impedance	1kΩ, 2kΩ, 4kΩ, 8kΩ	667Ω, 1.33kΩ, 2.67kΩ & 5.33kΩ	333Ω, 666Ω, 1.33kΩ, 2.66kΩ
Power Taps @ 100V	10W, 5W, 2.5W, 1.25W, OFF, 8Ω	15W, 7.5W, 3.75W, 1.87W, OFF, 8Ω	30W, 15W, 7.5W, 3.75W, OFF, 8Ω
Power Taps @ 70V	5W, 2.5W, 1.25W, 0.625W, OFF, 8Ω	7.5W, 3.75W, 1.87W, 0.94W, OFF, 8Ω	15W, 7.5W, 3.75W, 1.87W, OFF, 8Ω
SPL (1W / 1M)	106 dB	108 dB	110 dB
Max. SPL (Rated W / 1M)	116 dB	120 dB	125 dB
Frequency Range (-10dB)	380 Hz ~ 9K Hz	460 Hz ~ 9K Hz	400 Hz ~ 7.5K Hz
Frequency Range (-20dB)	340 Hz ~ 11K Hz	300 Hz ~ 11K Hz	270 Hz ~ 12K Hz
Dispersion 1K Hz / 4K Hz	210° / 45°	120° / 30°	110° / 30°
Ambient Temperature	-30°C ~ +60°C		
Water Protection	IEC529 IP66		
Power Selection	Selecting Switch		
Material	Housing: High impact ABS		
Colour / Finish	Light Grey (RAL 7035)		
Dimensions	156.4 (6.15) Dia. X 220.7 (8.67) Length mm. (in.)	215.8 (8.5) Dia. X 269.4 (10.6) Length mm. (in.)	232.7 (9.16) Dia. X 309.6 (12.19) Length mm. (in.)
Net Weight (ea)	1.54 kgs (3.4 lbs.)	1.74 kgs (3.84 lbs.)	2.11 kgs (4.65 lbs.)
Mounting	U Type Stainless Steel Bracket		

PRH-6101/8



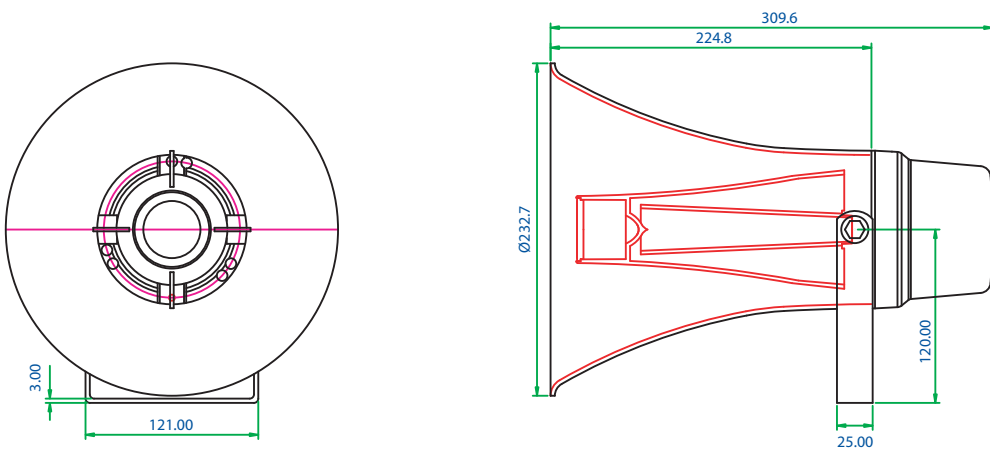
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PRH-8151/8



Unit: mm

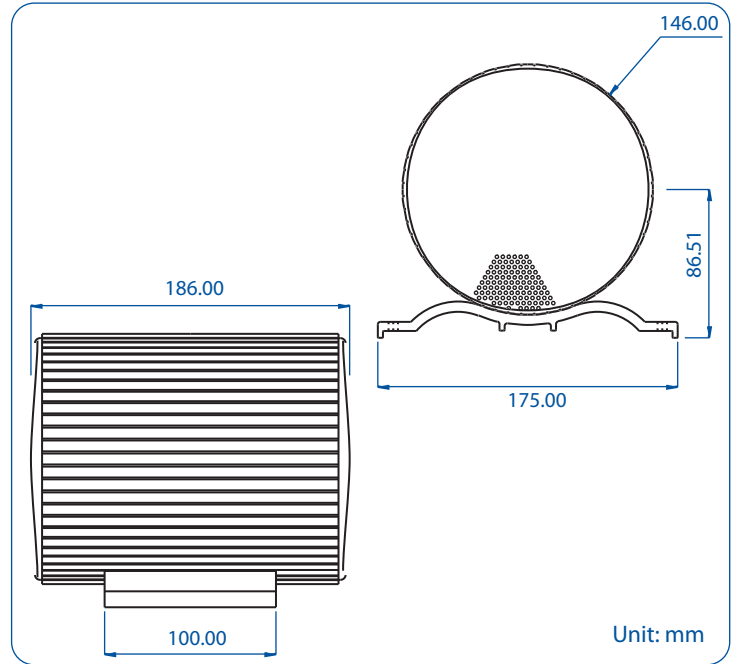
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Unit: mm



MBP-5120 Series Metallic Bi-Directional Projector



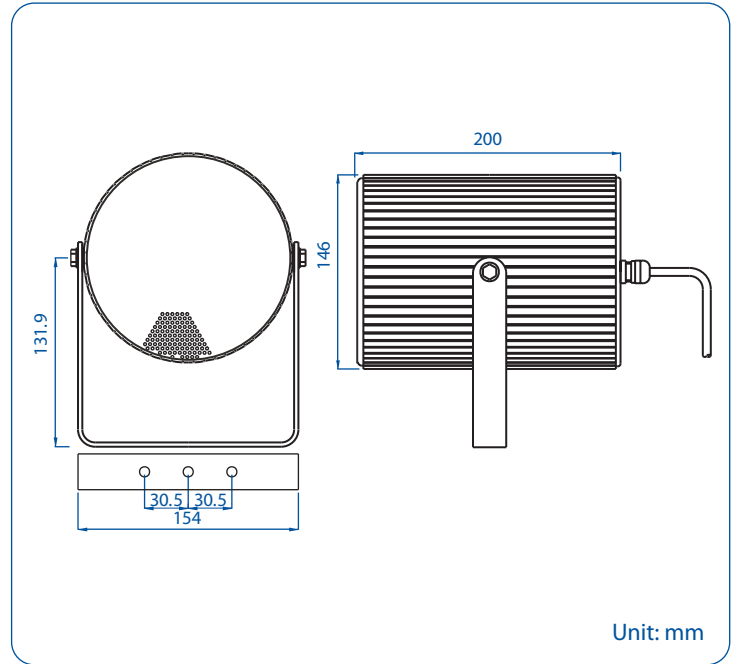
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Designed to give controlled directional sound characteristics.
- 12 watt 100 & 70 volt line. Tappings via 6-core cable.
- IP rated to IEC529 IP55.
- Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- Bi-directional design - for Corridors, Walkways, Tunnels etc.
- Inherently economical design.
- Rugged extruded aluminium housing.
- Can be ceiling or wall mounted.
- Available in Silver Anodized or White Epoxy (RAL 9003).

Model No.	MBP-5120	MBP-5120W
Rated Power (rms)	12W	
Impedance	417Ω, 833Ω, 1.67kΩ, 3.33kΩ & 6.67kΩ	
Power Taps @ 100V	12W, 6W, 3W & 1.5W	
Power Taps @ 70V	12W, 6W, 3W, 1.5W & 0.75W	
SPL (1W / 1M)	91 dB	
Max. SPL (Rated 12W / 1M)	102 dB	
Frequency Range (-10dB)	150 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	145° : 145° / 55°: 55°	
Ambient Temperature	-35°C ~ +70°C	
Water Protection	IEC529 IP55	
Power Selection	6-core cable	
Material	Housing & Bracket: Extruded Aluminium, Grille: Aluminium	
Colour / Finish	Silver Anodized	White Epoxy (RAL 9003)
Dimensions	146 (5.75) Dia. X 186 (7.32) L mm. (in.)	
Net Weight (ea)	3.2 kgs (7.05 lbs)	
Mounting	Extruded Aluminium Bracket	



MSP-5200 Series Metallic Sound Projector



Unit: mm

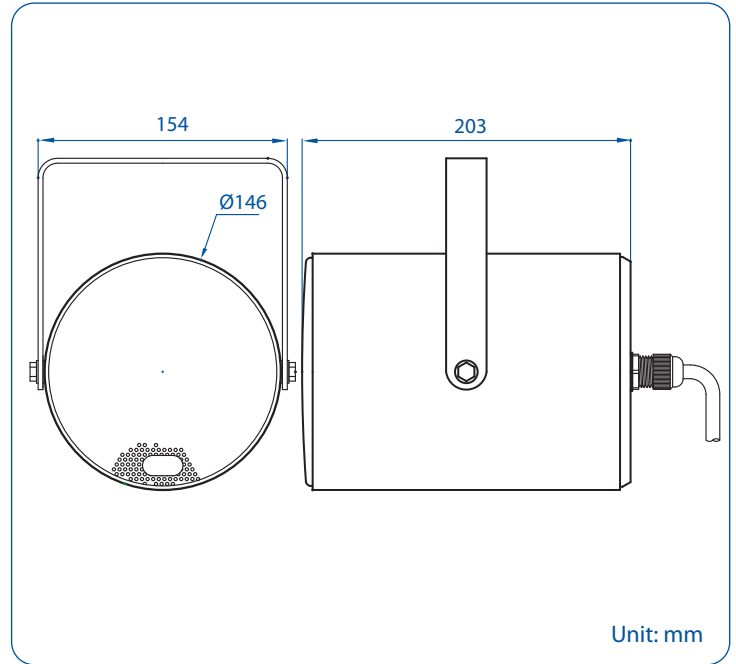
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Designed to give controlled directional sound characteristics.
- ▶ 20 watt 100 & 70 volt line. Tappings via 6-core cable.
- ▶ IP rated to IEC529 IP66.
- ▶ Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- ▶ Rugged extruded aluminium housing.
- ▶ Can be ceiling or wall mounted.
- ▶ Available in Silver Anodized or White Epoxy (RAL 9003).

Model No.	MSP-5200	MSP-5200W
Rated Power (rms)	20W	
Impedance	250Ω, 500Ω, 1kΩ, 2kΩ & 4kΩ	
Power Taps @ 100V	20W, 10W, 5W & 2.5W	
Power Taps @ 70V	20W, 10W, 5W, 2.5W & 1.25W	
SPL (1W / 1M)	91 dB	
Max. SPL (Rated 20W / 1M)	104 dB	
Frequency Range (-10dB)	150 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	230° / 65°	
Ambient Temperature	-35°C ~ +70°C	
Water Protection	IEC529 IP66	
Power Selection	6-core cable	
Material	Housing & Bracket: Extruded Aluminium, Grille: Aluminium	
Colour / Finish	Silver Anodized	White Epoxy (RAL 9003)
Dimensions	146 (5.75) Dia. X 200 (7.87) L mm. (in.)	
Net Weight (ea)	2.5 kgs (5.51 lbs)	
Mounting	U Type Aluminium Bracket	



SOP-5200 Sound Projector



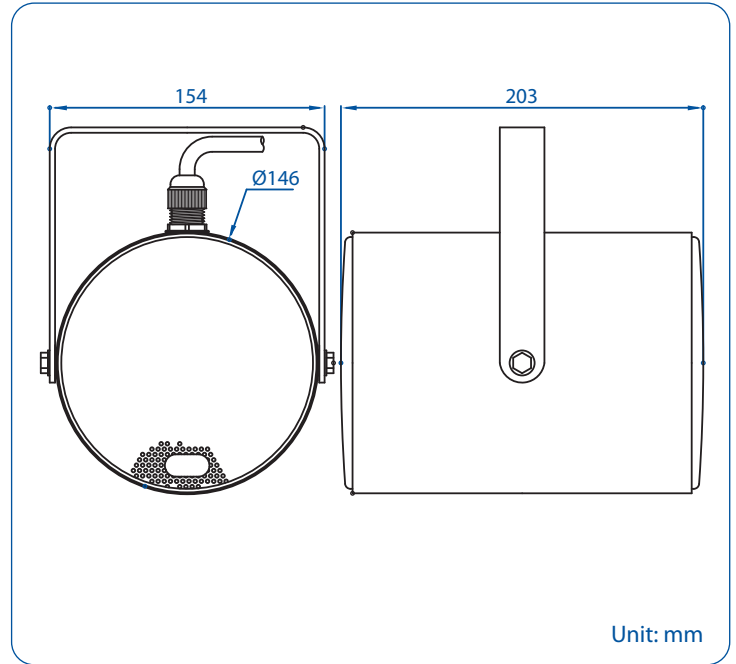
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Designed to give controlled directional sound characteristics.
- ▶ 20 watt 100 & 70 volt line. Tappings via 6-core cable.
- ▶ IP rated to IEC529 IP66.
- ▶ Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- ▶ High impact ABS housing with UV Protection.
- ▶ Available in White (RAL 9016).

Model No.	SOP-5200
Rated Power (rms)	20W
Impedance	250Ω, 500Ω, 1kΩ, 2kΩ & 4kΩ
Power Taps @ 100V	20W, 10W, 5W & 2.5W
Power Taps @ 70V	20W, 10W, 5W, 2.5W & 1.25W
SPL (1W / 1M)	91 dB
Max. SPL (Rated 20W / 1M)	104 dB
Frequency Range (-10dB)	120 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	210° / 45°
Ambient Temperature	-30°C ~ +60°C
Water Protection	IEC529 IP66
Power Selection	6-core cable
Material	Housing: High impact ABS, Grille: Aluminium
Colour / Finish	White (RAL 9016)
Dimensions	150 (5.91) Dia. X 203 (8) L mm. (in.)
Net Weight (ea)	2.0 kgs (4.41 lbs)
Mounting	U Type Aluminium Bracket



SOP-5200D Bi-Directional Sound Projector



Unit: mm

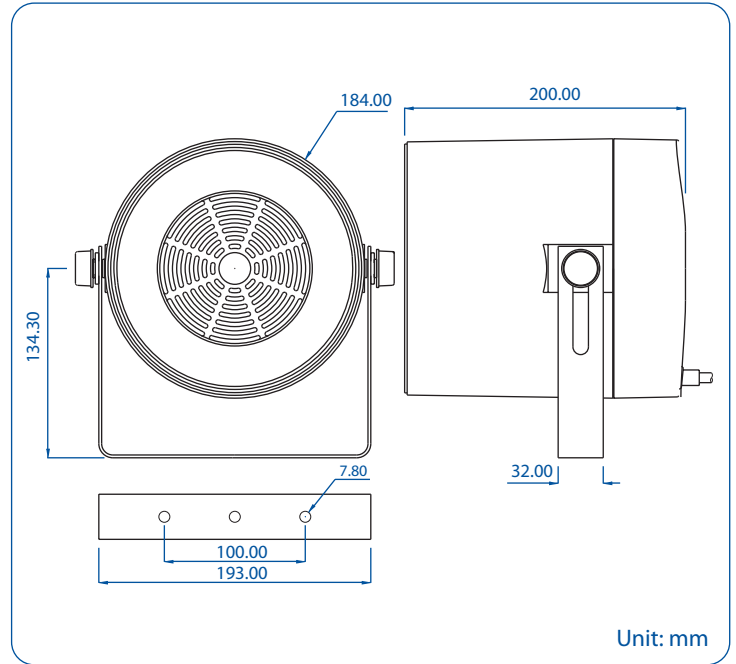
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Designed to give controlled directional sound characteristics.
- ▶ Bi-directional for Corridors, Walkways, Tunnels etc.
- ▶ 20 watt 100 & 70 volt line. Tappings via 6-core cable.
- ▶ IP rated to IEC529 IP66.
- ▶ Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- ▶ High impact ABS housing with UV Protection.
- ▶ Available in White (RAL 9016).

Model No.	SOP-5200D
Rated Power (rms)	20W
Impedance	250Ω, 500Ω, 1kΩ, 2kΩ & 4kΩ
Power Taps @ 100V	20W, 10W, 5W & 2.5W
Power Taps @ 70V	20W, 10W, 5W, 2.5W & 1.25W
SPL (1W / 1M)	86 dB
Max. SPL (Rated 20W / 1M)	99 dB
Frequency Range (-10dB)	120 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	75° : 75° / 50° : 50°
Ambient Temperature	-30°C ~ +60°C
Water Protection	IEC529 IP66
Power Selection	6-core cable
Material	Housing: High impact ABS, Grille: Aluminium
Colour / Finish	White (RAL 9016)
Dimensions	150 (5.91) Dia. X 203 (8) L mm. (in.)
Net Weight (ea)	2.2 kgs (4.84 lbs)
Mounting	U Type Aluminium Bracket



XMR-520PL Sound Projector



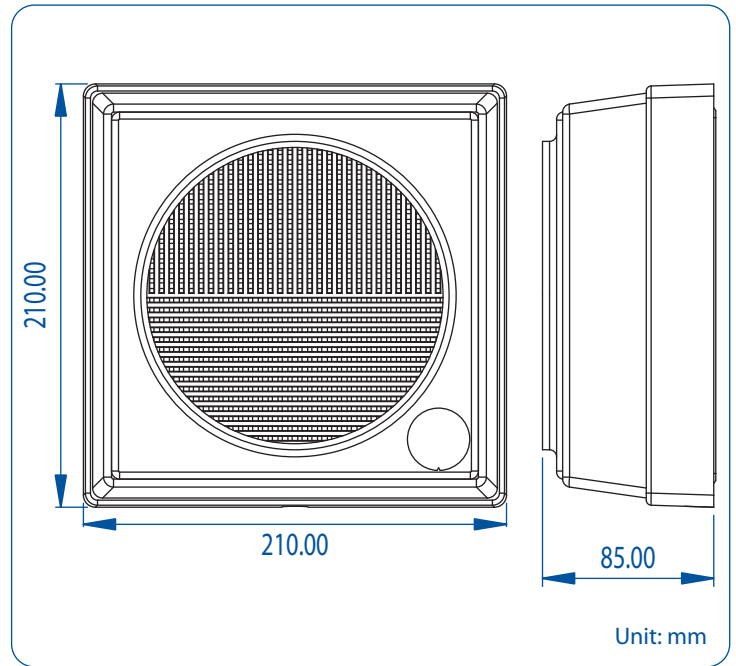
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Designed to give controlled directional sound characteristics.
- 20 watt 100 & 70 volt line or 8Ω. Tappings via 7-core cable.
- IP rated to IEC529 IP55.
- Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- Compact design high impact ABS housing UV protected.
- Epoxy coated steel bracket, stainless steel exterior hardware.
- Finished in Ivory (RAL 1013).

Model No.	XMR-520PL
Rated Power (rms)	20W
Impedance	250Ω, 500Ω, 1kΩ, 2kΩ, 4kΩ
Power Taps @ 100V	20W, 10W, 5W, 2.5W & 8Ω
Power Taps @ 70V	20W, 10W, 5W, 2.5W, 1.25W & 8Ω
SPL (1W / 1M)	98 dB
Max. SPL (Rated 20W / 1M)	111 dB
Frequency Range (-10dB)	130 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	130° / 30°
Ambient Temperature	-30°C ~ +60°C
Water Protection	IEC529 IP55
Power Selection	7-core cable
Material	Housing: High impact ABS with UV protection
Colour / Finish	Ivory (RAL 1013)
Dimensions	184 (7.24) Dia. X 200 (7.87) L mm. (in.)
Net Weight (ea)	2.2 kgs (4.85 lbs)
Mounting	U Type Steel Bracket



WAS-6 Series Quick-Mount Wall Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

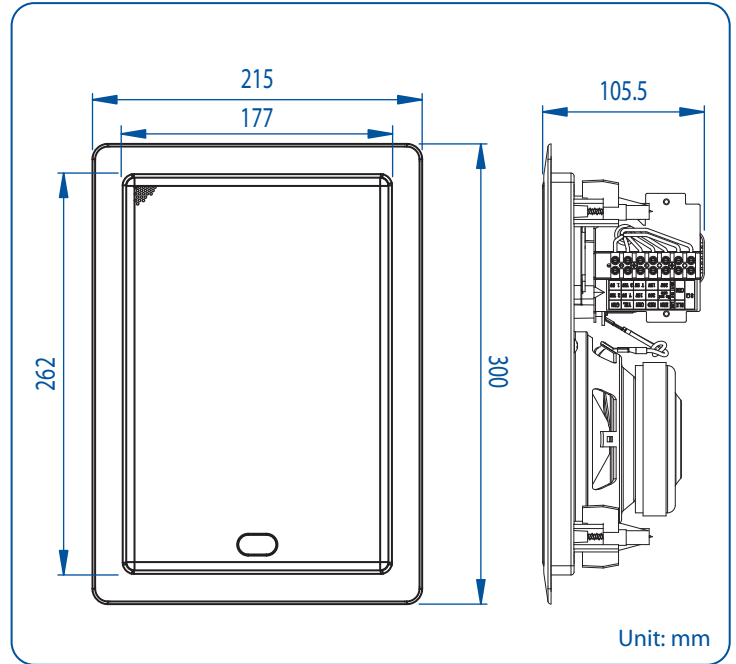
- Available in 3 options:
 - WAS-6061
 - WAS-6061V with volume control
 - WAS-6061VP with volume control and priority override
- Secure fix system (using hex. socket screw).
- Fast installation of face plate.
- Rugged ABS with self-extinguishing UL94V0 cabinet.
- 6 watt 100 & 70 volt line.
- Ideal for background music as well as public address announcements.
- Standard colour is white (RAL 9016).

Model No.	WAS-6061	WAS-6061V	WAS-6061VP
Rated Power (rms)		6W	
Impedance		1.67kΩ, 3.33kΩ, 6.67kΩ, & 13.33kΩ	
Power Taps @ 100V		6W, 3W, 1.5W & 0.75W	
Power Taps @ 70V		3W, 1.5W, 0.75W & 0.375W	
SPL (1W / 1M)		95 dB	
Max. SPL (Rated 6W / 1M)		102 dB	
Frequency Range (-10dB)		160 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz		180° / 90°	
Ambient Temperature		-30°C ~ +60°C	
Power Selection		Plug	Quick Connector
Volume Control	N. A.	Available	Available
Priority	N. A.	N. A.	Available
Backplate		Standard	
Material		Housing: UL94V0 high impact ABS, Backplate: Aluminium	
Colour / Finish		White (RAL 9016)	
Dimensions		210 (8.27) X 210 (8.27) X 85 (3.35) mm. (in.)	
Net Weight (ea)		1.3 kgs (2.87 lbs)	
Mounting		Screws and Key-hole	



IWL-6300

2-Way In-Wall Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

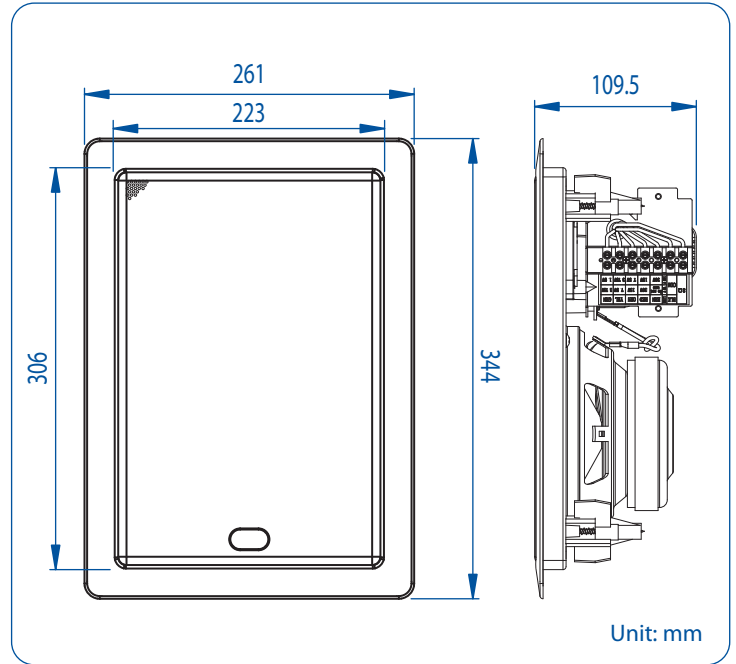
- ▶ Fitted with high specification 6.5" woofer & 1.5" tweeter for exceptional speech & music reproduction.
- ▶ Multi directional swivel tweeter design to ensure higher clarity.
- ▶ High-slope crossover for natural midrange sound.
- ▶ 30 watt 100 & 70 volt line or 8 Ω tapings.
- ▶ Ideal for background / foreground music as well as public address announcements.
- ▶ Constructed from self-extinguishing UL94V0 high impact ABS plastic.
- ▶ Cutout template & paint shield are included.
- ▶ Rotating mount tabs for easy installtion.
- ▶ Available in White (RAL 9016).

Model No.	IWL-6300
Rated Power (rms)	30W
Impedance	167Ω, 333Ω, 667Ω, 1.33kΩ & 2.67kΩ
Power Taps @ 100V	30W, 15W, 7.5W, 3.75W & 8Ω
Power Taps @ 70V	30W, 15W, 7.5W, 3.75W, 1.9W & 8Ω
SPL (1W / 1M)	87 dB
Max. SPL (Rated 30W / 1M)	101 dB
Frequency Range (-10dB)	60 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	120° / 180°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Terminal Block
Material	Housing: UL94V0 high impact ABS
Colour / Finish	White (RAL 9016)
Dimensions	215 (8.46) W X 300 (11.8) L X 105.5 (4.15) D mm. (in.)
Cutout Size	180 (7.09) W X 265 (10.43) L mm. (in.)
Net Weight (ea)	2.61 kgs (5.74 lbs)
Mounting	Rotating Mount Tabs



IWL-8500

2-Way In-Wall Loudspeaker



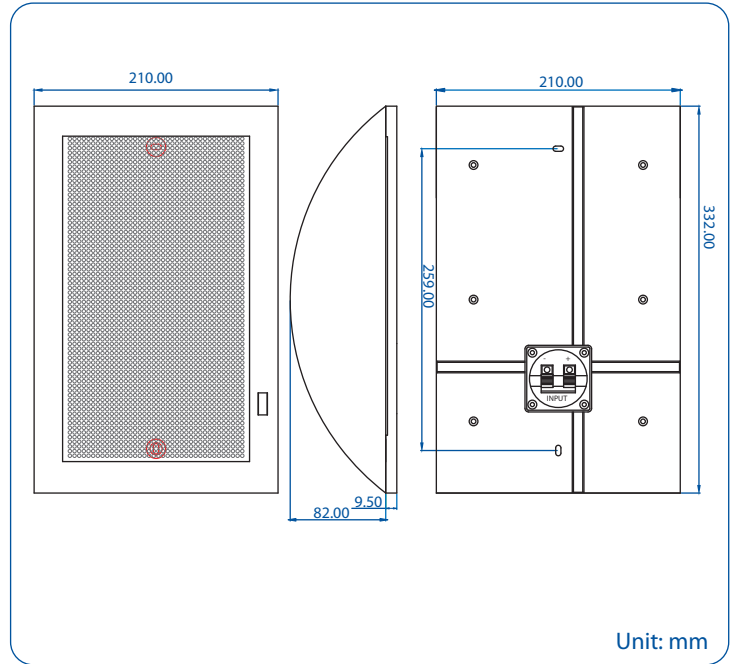
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Fitted with high specification 8" woofer & 1.5" tweeter for exceptional speech & music reproduction.
- ▶ Multi directional swivel tweeter design to ensure higher clarity.
- ▶ High-slope crossover for natural midrange sound.
- ▶ 50 watt 100 & 70 volt line or 8 Ω tapings.
- ▶ Ideal for background / foreground music as well as public address announcements.
- ▶ Constructed from self-extinguishing UL94V0 high impact ABS plastic.
- ▶ Cutout template & paint shield are included.
- ▶ Rotating mount tabs for easy installtion.
- ▶ Available in White (RAL 9016).

Model No.	IWL-8500
Rated Power (rms)	50W
Impedance	100Ω, 200Ω, 400Ω, 800Ω & 1.6kΩ
Power Taps @ 100V	50W, 25W, 12.5W, 6.3W & 8Ω
Power Taps @ 70V	50W, 25W, 12.5W, 6.3W, 3.1W & 8Ω
SPL (1W / 1M)	89 dB
Max. SPL (Rated 50W / 1M)	106 dB
Frequency Range (-10dB)	60 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	115° / 180°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Terminal Block
Material	Housing: UL94V0 high impact ABS
Colour / Finish	White (RAL 9016)
Dimensions	261 (10.28) W X 344 (13.54) L X 109.5 (4.31) D mm. (in.)
Cutout Size	250 (9.84) W X 310 (12.20) L mm. (in.)
Net Weight (ea)	3.18 kgs (7 lbs)
Mounting	Rotating Mount Tabs



WSP-4 Series "Designer" 2-Way Wall Loudspeaker



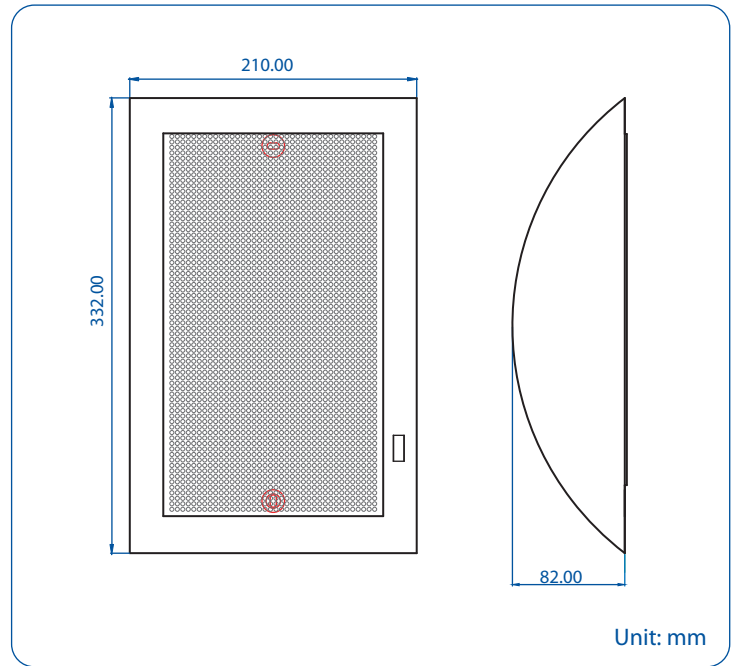
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Sleek "Designer" style wall speaker.
- ▶ 4" woofer + tweeter for high quality sound reproduction.
- ▶ 2-way bass reflex design.
- ▶ Rugged ABS with self-extinguishing UL94V0 cabinet.
- ▶ 20 watt 100 & 70 volt line, high power 50 watt 100 & 70 volt line or 8Ω versions.
- ▶ Recessed speaker terminal on rear panel as standard (WSP-4500R).
- ▶ Ideal for background music as well as public address announcements.
- ▶ Available in white (RAL 9016).

Model No.	WSP-4200	WSP-4500R
Rated Power (rms)	20W	50W
Impedance	250Ω, 500Ω, 1kΩ, 2kΩ & 4kΩ	100Ω, 200Ω, 400Ω, 800Ω
Power Taps @ 100V	20W, 10W, 5W & 2.5W	50W, 25W, 12.5W, OFF & 8Ω
Power Taps @ 70V	20W, 10W, 5W, 2.5W & 1.25W	50W, 25W, 12.5W, 6.3W, OFF & 8Ω
SPL (1W / 1M)	86 dB	86 dB
Max. SPL (Rated W / 1M)	99 dB	103 dB
Frequency Range (-10dB)	100 Hz ~ 25K Hz	
Dispersion 1K Hz / 4K Hz	145° / 70°	
Ambient Temperature	-20°C ~ +60°C	
Power Selection	Quick Connector	Selecting Switch
Volume Control	N. A.	N. A.
Priority	N. A.	N. A.
Backplate	N. A.	Standard
Material	Housing: UL94V0 high impact ABS, Grille: Steel	
Colour / Finish	White (RAL 9016)	
Dimensions	210 (8.27) X 332 (13.07) X 82 (3.23) mm. (in.)	210 (8.27) X 332 (13.07) X 91.5 (3.60) mm. (in.)
Net Weight (ea)	1.95 kgs (4.30 lbs)	2.5 kgs (5.51 lbs.)
Mounting	Screws	



WSP-5061 "Designer" Wall Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Sleek "Designer" style wall speaker.
- ▶ 5.25" twin cone driver unit for high quality sound reproduction.
- ▶ Bass reflex design.
- ▶ Rugged ABS with self-extinguishing UL94V0 cabinet.
- ▶ 6 watt 100 & 70 volt line.
- ▶ Ideal for background music as well as public address announcements.
- ▶ Available in white (RAL 9016).

Model No.	WSP-5061
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	93 dB
Max. SPL (Rated 6W / 1M)	100 dB
Frequency Range (-10dB)	160 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	130° / 80°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Volume Control	N. A.
Priority	N. A.
Backplate	N. A.
Material	Housing: UL94V0 high impact ABS, Grille: Steel
Colour / Finish	White (RAL 9016)
Dimensions	210 (8.27) X 332 (13.07) X 82 (3.23) mm. (in.)
Net Weight (ea)	1.46 kgs (3.22 lbs.)
Mounting	Screws

Voice Alarm Loudspeakers

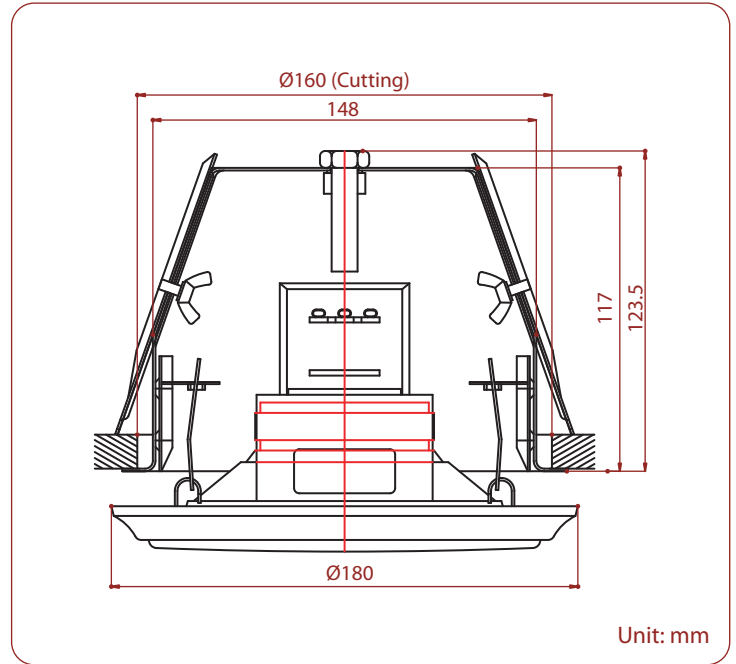


**Ceiling Loudspeaker . Column Loudspeaker
Horn Loudspeaker . Sound Projector . Wall Loudspeaker**



QCM-5061VAF

Quick-Mount Ceiling Loudspeaker



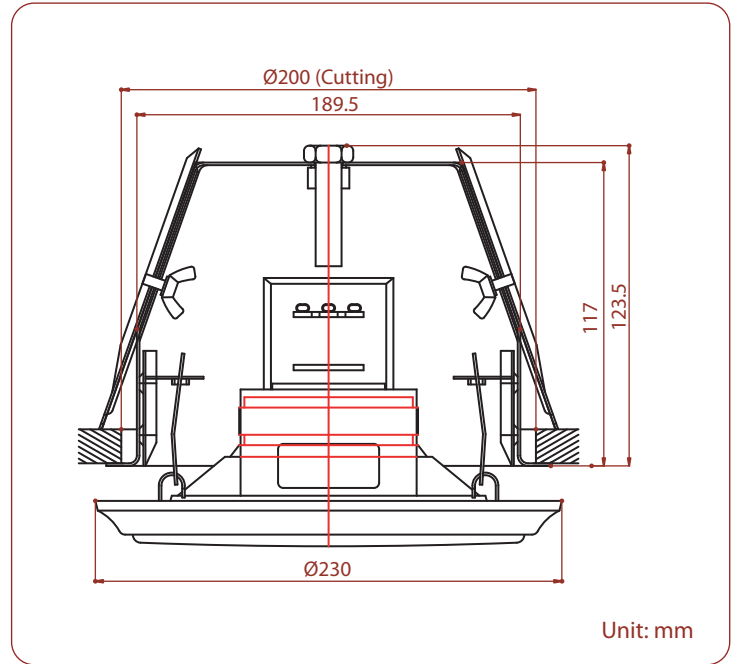
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Mild steel construction capable of withstanding temperature of 650°C.
- Ceramic termination blocks and fire resistant internal cabling.
- Twin gland entry steel fire dome with patented "SUPER-FIT" system.
- 150°C thermal isolating fuse.
- Share generic low profile grille design & simple fit system throughout entire QCM series.
- Fitted with a 5.25" twin cone driver unit. Designed to offer wide response for music & speech.
- 6 watt transformer with multi tapplings down to 0.75W (100V) & 0.375W (70V).
- Built-in ceiling tile cutout marker.
- Dished grille design for acoustic integrity.
- Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-5061VAF
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	92 dB
Max. SPL (Rated 6W / 1M)	99 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	140° / 70°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	180 (7.09) Dia. X 127 (5) Height mm. (in.)
Cutout Size	160 (6.30) Dia. mm. (in.)
Net Weight (ea)	1.7 kgs (3.74 lbs)
Mounting	Spring loaded Quick-Mount Assembly



QCM-6061VAF Quick-Mount Ceiling Loudspeaker



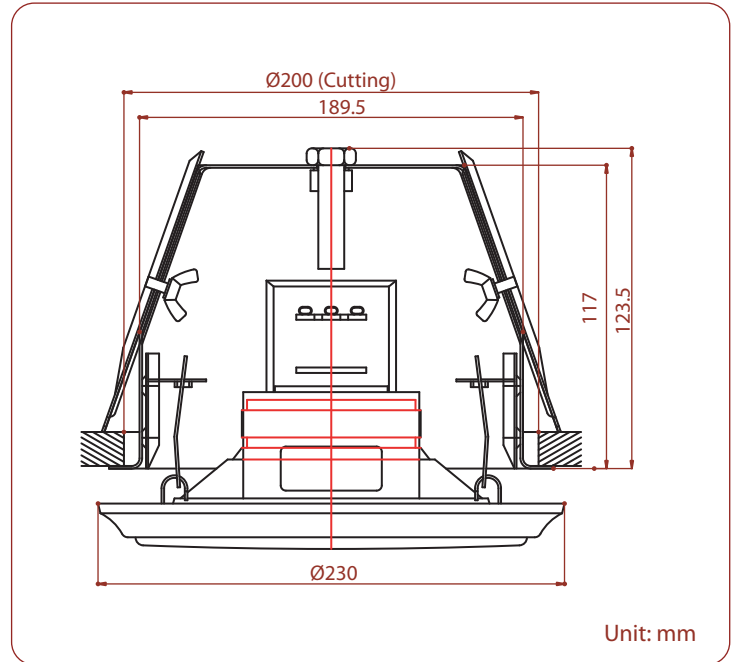
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Mild steel construction capable of withstanding temperature of 650°C.
- Ceramic termination blocks and fire resistant internal cabling.
- Twin gland entry steel fire dome with patented "SUPER-FIT" system.
- 150°C thermal isolating fuse.
- Share generic low profile grille design & simple fit system throughout entire QCM series.
- Fitted with a 6.5" twin cone driver unit. Designed to offer wide response for music & speech.
- 6 watt transformer with multi tapplings down to 0.75W (100V) & 0.375W (70V).
- Built-in ceiling tile cutout marker.
- Dished grille design for acoustic integrity.
- Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-6061VAF
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	93 dB
Max. SPL (Rated 6W / 1M)	100 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	120° / 90°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	230 (9.06) Dia. X 127 (5) Height mm. (in.)
Cutout Size	200 (7.87) Dia. mm. (in.)
Net Weight (ea)	2.0 kgs (4.4 lbs)
Mounting	Spring loaded Quick-Mount Assembly



QCM-6081TVAF Quick-Mount Ceiling Loudspeaker



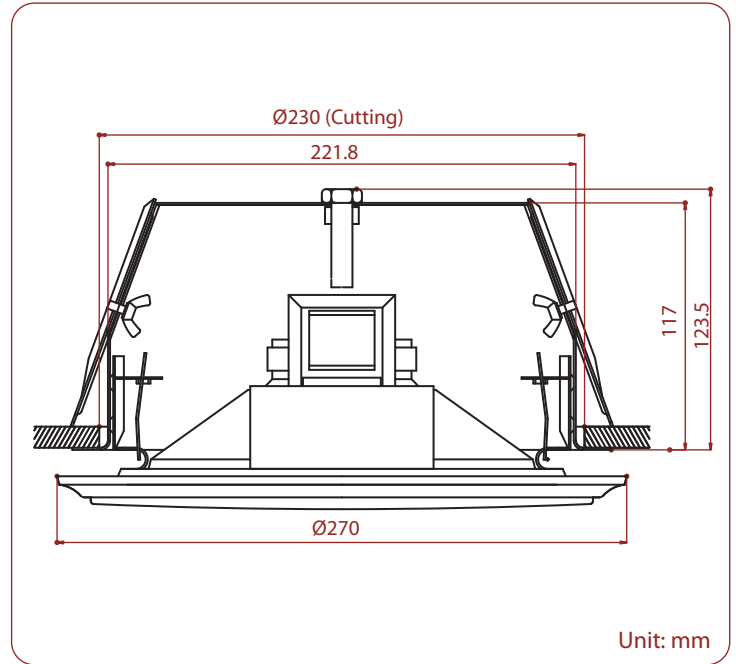
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Mild steel construction capable of withstanding temperature of 650°C.
- Ceramic termination blocks and fire resistant internal cabling.
- Twin gland entry steel fire dome with patented "SUPER-FIT" system.
- 150°C thermal isolating fuse.
- Share generic low profile grille design & simple fit system throughout entire QCM series.
- Featuring a high quality 6.5" 2-way speaker, with a paper cone, 10 ounce magnet and 2" tweeter with a bi-polar crossover.
- Foreground and sound reinforcement quality.
- 8 watt transformer with multi tappings down to 1W (100V) & 0.5W (70V).
- Built-in ceiling tile cutout marker.
- Dished grille design for acoustic integrity.
- Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-6081TVAF
Rated Power (rms)	8W
Impedance	1.25kΩ, 2.50kΩ, 5kΩ & 10kΩ
Power Taps @ 100V	8W, 4W, 2W & 1W
Power Taps @ 70V	4W, 2W, 1W & 0.5W
SPL (1W / 1M)	95 dB
Max. SPL (Rated 8W / 1M)	104 dB
Frequency Range (-10dB)	80 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	140° / 65°
Ambient Temperature	-20°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	230 (9.06) Dia. X 127 (5) Height mm. (in.)
Cutout Size	200 (7.87) Dia. mm. (in.)
Net Weight (ea)	2.3 kgs (5.06 lbs)
Mounting	Spring loaded Quick-Mount Assembly



QCM-8101VAF Quick-Mount Ceiling Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

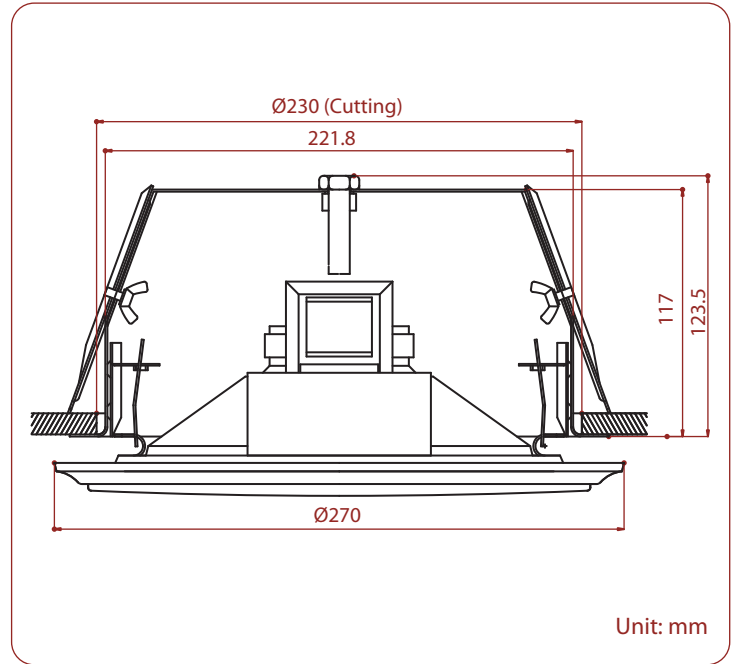
- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Mild steel construction capable of withstanding temperature of 650°C.
- Ceramic termination blocks and fire resistant internal cabling.
- Twin gland entry steel fire dome with patented "SUPER-FIT" system.
- 150°C thermal isolating fuse.
- Share generic low profile grille design & simple fit system throughout entire QCM series.
- Fitted with an 8" twin cone driver unit. Designed to offer wide response for music & speech.
- Excellent low frequency response.
- 10 watt transformer with multi tapplings down to 1.25W (100V) & 0.625W (70V).
- Built-in ceiling tile cutout marker.
- Dished grille design for acoustic integrity.
- Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-8101VAF
Rated Power (rms)	10W
Impedance	1kΩ, 2kΩ, 4kΩ & 8kΩ
Power Taps @ 100V	10W, 5W, 2.5W & 1.25W
Power Taps @ 70V	5W, 2.5W, 1.25W & 0.625W
SPL (1W / 1M)	92 dB
Max. SPL (Rated 10W / 1M)	102 dB
Frequency Range (-10dB)	70 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	100° / 45°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	270 (10.63) Dia. X 127 (5) Height mm. (in.)
Cutout Size	230 (9.06) Dia. mm. (in.)
Net Weight (ea)	2.5 kgs (5.5 lbs)
Mounting	Spring loaded Quick-Mount Assembly



QCM-8200CVAF

Quick-Mount Ceiling Loudspeaker



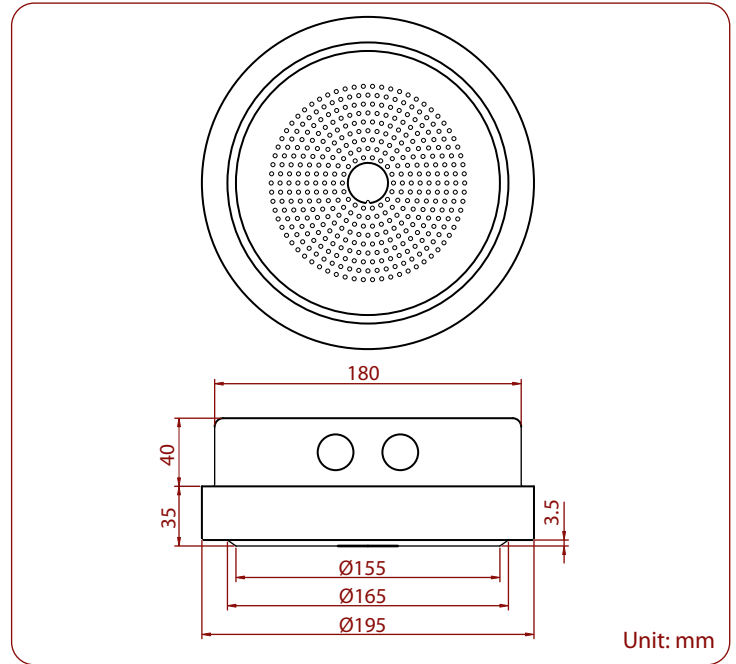
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Mild steel construction capable of withstanding temperature of 650°C.
- Ceramic termination blocks and fire resistant internal cabling.
- Twin gland entry steel fire dome with patented "SUPER-FIT" system.
- 150°C thermal isolating fuse.
- Share generic low profile grille design & simple fit system throughout entire QCM series.
- The ultimate ceiling speaker from CES Audio.
- Fitted with an 8" 2-way polypropylene driver unit with 2.5" mylar tweeter & 13 ounce magnet designed to offer wide response for music & speech.
- Excellent low frequency response.
- 20 watt transformer with multi tapplings down to 2.5W (100V) & 1.25W (70V).
- Built-in ceiling tile cutout marker.
- Dished grille design for acoustic integrity.
- Galvanized steel construction, finished in brilliant white (RAL 9003).

Model No.	QCM-8200CVAF
Rated Power (rms)	20W
Impedance	250Ω, 500Ω, 1kΩ, 2kΩ & 4kΩ
Power Taps @ 100V	20W, 10W, 5W & 2.5W
Power Taps @ 70V	20W, 10W, 5W, 2.5W & 1.25W
SPL (1W / 1M)	89 dB
Max. SPL (Rated 20W / 1M)	102 dB
Frequency Range (-10dB)	50 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	100° / 50°
Ambient Temperature	-20°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	270 (10.63) Dia. X 127 (5) Height mm. (in.)
Cutout Size	230 (9.06) Dia. mm. (in.)
Net Weight (ea)	3.2 kgs (7.04 lbs)
Mounting	Spring loaded Quick-Mount Assembly



SCS-5061VA Surface-Mount Ceiling Loudspeaker



Unit: mm

- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

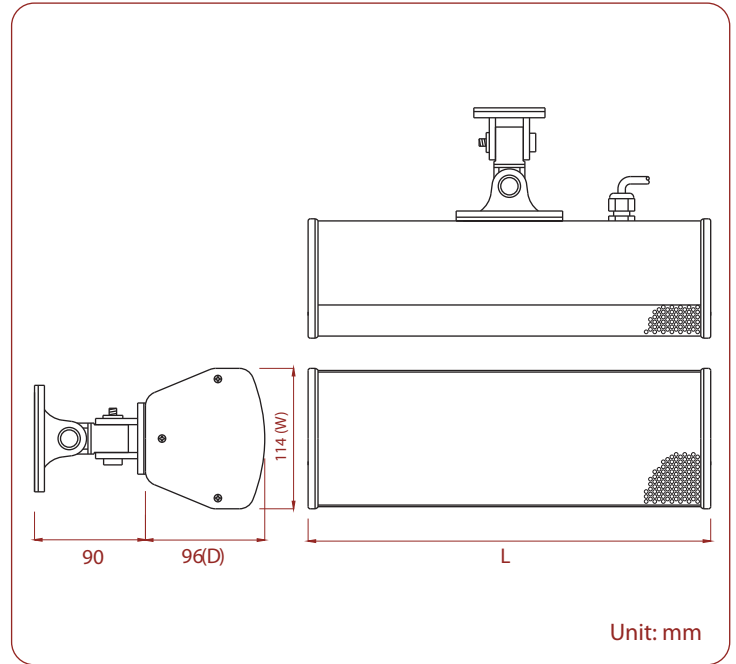
Multi purpose surface-mount ceiling loudspeaker, designed to be vandal-proof as well as compliant with voice alarm standards world-wide. Ideal for environments such as schools, public buildings, car parks, offices etc.

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Rugged powder-coated steel construction.
- DC Blocking Capacitor to allow electrical supervision of the audio distribution circuit.
- Twin ceramic termination blocks and fire resistant internal cabling.
- 150°C thermal circuit isolating fuse.
- Twin 20mm gland entry / exit points.
- Two fix install system (Surface mounted / Recessed mounted).
- Safety cord from the backbox for easy installation.

Model No.	SCS-5061VA
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	92 dB
Max. SPL (Rated 6W / 1M)	99 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	180° / 115°
Ambient Temperature	-35°C ~ +70°C
Power Selection	Plug
Material	Housing: Steel
Colour / Finish	White (RAL 9010)
Dimensions	195 (7.68) Dia. X 75 (2.95) Height mm. (in.)
Net Weight (ea)	1.9 kgs (4.18 lbs)
Mounting	Screw



COS-3 Voice Alarm Series Column Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- RoHS Compliance
- UL94V0
- BS 5839 Part 8
- EASE Data
- Multi-Bracket Broken Tested
- Rustproof
- Withstanding/Insulation Tested

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Durable extruded aluminium housing.
- Attractive slimline construction.
- Fitted with high specification driver units / tweeter for exceptional speech & music reproduction.
- Suitable for accurate, "long throw" applications.
- Water protected to IEC529 IP66, suitable for indoor and outdoor use.
- Durable aluminium alloy multi bracket broken tested up to 1500 kgf.
- Available in 10 - 20 - 30 & 40 watt options.
- Multi impedance 100V, 70V.
- Available in White (RAL 9003).

Model No.	COS-3100VA	COS-3200VA	COS-3300VA	COS-3400VA
Rated Power (rms)	10W	20W	30W	40W
Number of Loudspeakers	3.5" Woofer X 2 + 3.25" Tweeter X 1	3.5" Woofer X 4 + 3.25" Tweeter X 1	3.5" Woofer X 6 + 3.25" Tweeter X 1	3.5" Woofer X 8 + 3.25" Tweeter X 1
Impedance	1kΩ, 2kΩ & 4kΩ	500Ω, 1kΩ & 2kΩ	333Ω, 666Ω & 1.33kΩ	250Ω, 500Ω & 1kΩ
Power Taps @ 100V	10W, 5W & 2.5W	20W, 10W & 5W	30W, 15W & 7.5W	40W, 20W & 10W
Power Taps @ 70V	5W, 2.5W & 1.25W	10W, 5W & 2.5W	15W, 7.5W & 3.75W	20W, 10W & 5W
SPL (1W / 1M)	91 dB	92 dB	93 dB	93 dB
Max. SPL (Rated W / 1M)	101 dB	105 dB	108 dB	109 dB
Frequency Range (-10dB)	130 Hz ~ 20K Hz	120 Hz ~ 20K Hz	110 Hz ~ 20K Hz	110 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	H: 180° / 100°, V: 75° / 30°	H: 180° / 90°, V: 45° / 20°	H: 190° / 90°, V: 40° / 30°	H: 180° / 90°, V: 30° / 20°
Ambient Temperature	-20° C ~ +60° C			
Water Protection	IEC529 IP66			
Power Selection	4-core cable + 1 earth			
Material	Housing: Extruded Aluminium, Grille: Aluminium			
Colour / Finish	White (RAL 9003)			
Dimensions	395 (15.55) L X 114 (4.49) W X 96 (3.78) D mm. (in.)	585 (23.03) L X 114 (4.49) W X 96 (3.78) D mm. (in.)	770 (30.31) L X 114 (4.49) W X 96 (3.78) D mm. (in.)	960 (37.80) L X 114 (4.49) W X 96 (3.78) D mm. (in.)
Net Weight (ea)	2.8 kgs (6.17 lbs)	4.0 kgs (8.82 lbs)	5.6 kgs (12.35 lbs)	7.7 kgs (16.98 lbs)
Mounting	Aluminium Alloy Multi Bracket			



PRH Voice Alarm Series Plastic Horn Loudspeaker

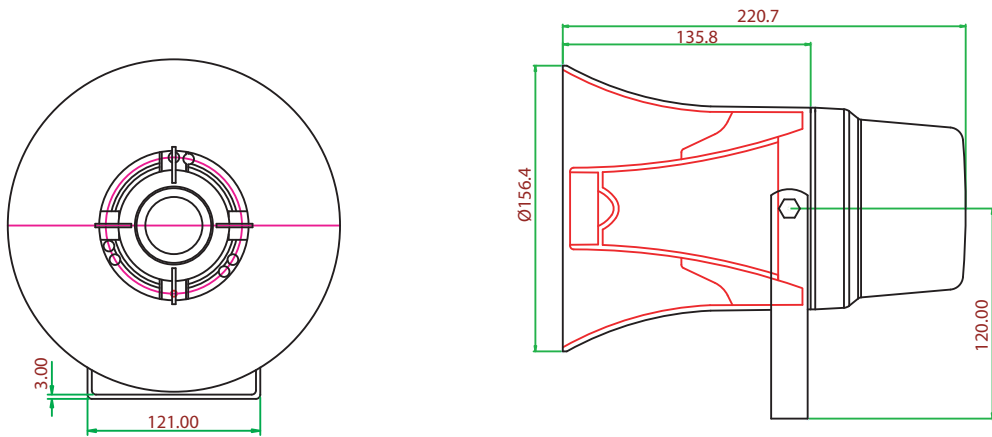


- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Compliant to BS5839 part 8. (British standards for voice alarm systems).
- ▶ High impact ABS construction.
- ▶ Water protected to IEC529 IP66.
- ▶ Very high efficiency.
- ▶ Built-in line transformer with screwdriver adjustable power selector (sealed).
- ▶ Glanded cable tails.
- ▶ Stainless steel mounting bracket & exterior hardware.

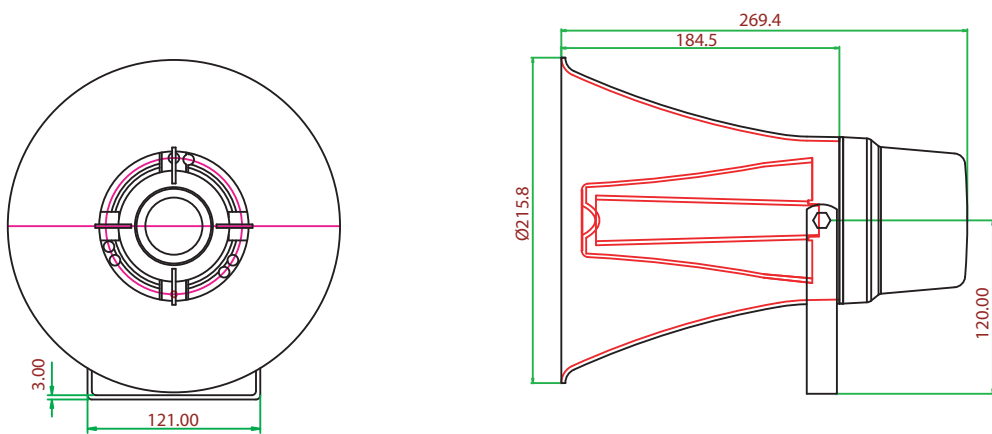
Model No.	PRH-6101/8VA	PRH-8151/8VA	PRH-10301/8VA
Rated Power (rms)	10W	15W	30W
Impedance	1kΩ, 2kΩ & 4kΩ	667 Ω, 1.33kΩ & 2.67kΩ	333 Ω, 666 Ω & 1.33kΩ
Power Taps @ 100V	10W, 5W & 2.5W	15W, 7.5W & 3.75W	30W, 15W & 7.5W
Power Taps @ 70V	5W, 2.5W & 1.25W	7.5W, 3.75W & 1.87W	15W, 7.5W & 3.75W
SPL (1W / 1M)	106 dB	108 dB	110 dB
Max. SPL (Rated W / 1M)	116 dB	120 dB	125 dB
Frequency Range (-10dB)	380 Hz ~ 9K Hz	460 Hz ~ 9K Hz	400 Hz ~ 7.5K Hz
Frequency Range (-20dB)	340 Hz ~ 11K Hz	300 Hz ~ 11K Hz	270 Hz ~ 12K Hz
Dispersion 1K Hz / 4K Hz	210° / 45°	120° / 30°	110° / 30°
Ambient Temperature	-30°C ~ +60°C		
Water Protection	IEC529 IP66		
Power Selection	4-core cable + 1 earth		
Material	Housing: High impact ABS		
Colour / Finish	Light Grey (RAL 7035)		
Dimensions	156.4(6.15) Dia. X 220.7 (8.67) Length mm. (in.)	215.8 (8.5) Dia. X 269.4 (10.6) Length mm. (in.)	232.7(9.16) Dia. X 309.6 (12.19) Length mm. (in.)
Net Weight (ea)	1.54 kgs (3.4 lbs.) (12pcs)	1.74 kgs (3.84 lbs.) (12pcs)	2.11 kgs (4.65 lbs.) (6pcs)
Mounting	U type Stainless Steel Bracket		

PRH-6101/8VA



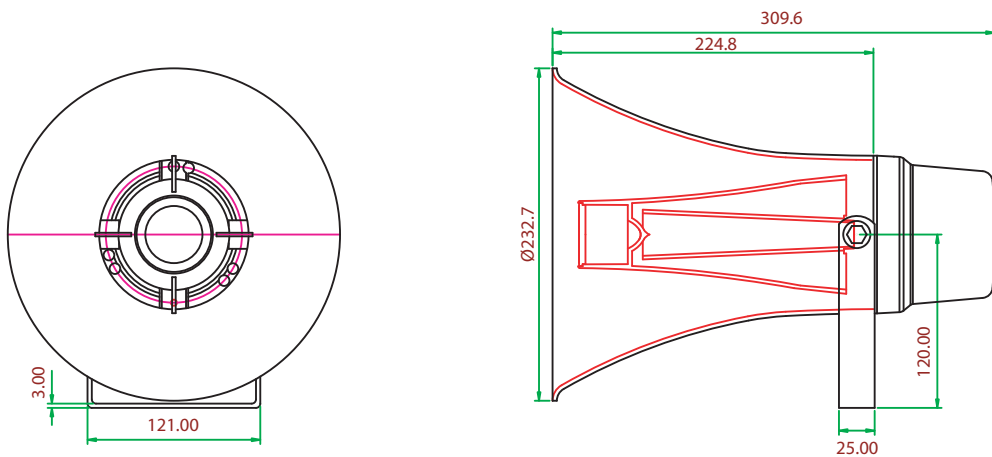
Unit: mm

PRH-8151/8VA



Unit: mm

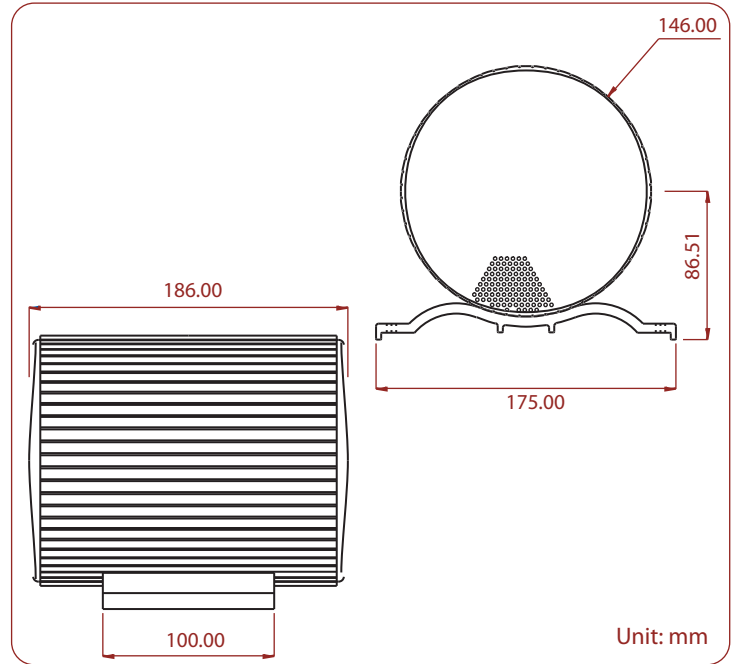
PRH-10301/8VA



Unit: mm



MBP-5120 Voice Alarm Series Metallic Bi-Directional Projector



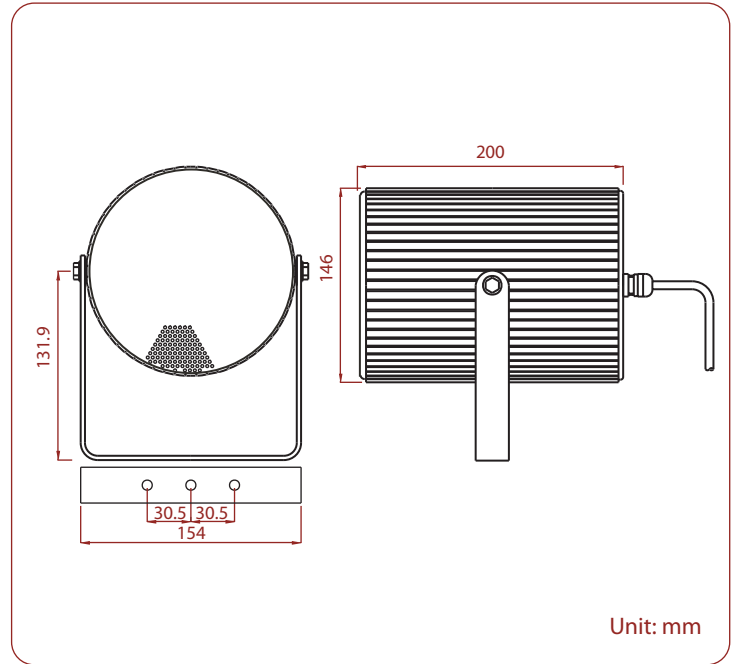
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Designed to give controlled directional sound characteristics.
- 12 watt 100 & 70 volt line. Tappings via 4-core cable.
- IP rated to IEC529 IP55.
- Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- Bi-directional design - for Corridors, Walkways, Tunnels etc.
- Inherently economical design.
- Rugged extruded aluminium housing.
- Can be ceiling or wall mounted.
- Available in Silver Anodized or White Epoxy (RAL 9003).

Model No.	MBP-5120VA	MBP-5120WVA
Rated Power (rms)	12W	
Impedance	833Ω, 1.67kΩ & 3.33kΩ	
Power Taps @ 100V	12W, 6W & 3W	
Power Taps @ 70V	6W, 3W & 1.5W	
SPL (1W / 1M)	91 dB	
Max. SPL (Rated 12W / 1M)	102 dB	
Frequency Range (-10dB)	150 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	145° : 145° / 55°: 55°	
Ambient Temperature	-35°C ~ +70°C	
Water Protection	IEC529 IP55	
Power Selection	4-core cable + 1 earth	
Material	Housing & Bracket: Extruded Aluminium, Grille: Aluminium	
Colour / Finish	Silver Anodized	White Epoxy (RAL 9003)
Dimensions	146 (5.75) Dia. X 186 (7.32) L mm. (in.)	
Net Weight (ea)	3.2 kgs (7.05 lbs)	
Mounting	Extruded Aluminium Bracket	



MSP-5200 Voice Alarm Series Metallic Sound Projector



Unit: mm

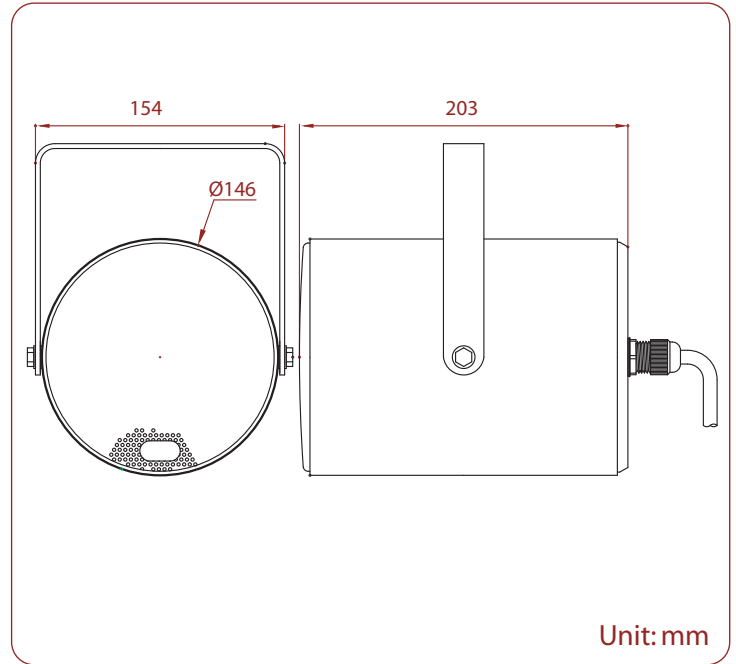
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Compliant to BS5839 part 8. (British standards for voice alarm systems).
- ▶ Designed to give controlled directional sound characteristics.
- ▶ 20 watt 100 & 70 volt line. Tappings via 4-core cable.
- ▶ IP rated to IEC529 IP66.
- ▶ Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- ▶ Rugged extruded aluminium housing.
- ▶ Can be ceiling or wall mounted.
- ▶ Available in Silver Anodized or White Epoxy (RAL 9003).

Model No.	MSP-5200VA	MSP-5200WVA
Rated Power (rms)	20W	
Impedance	500Ω, 1kΩ & 2kΩ	
Power Taps @ 100V	20W, 10W & 5W	
Power Taps @ 70V	10W, 5W & 2.5W	
SPL (1W / 1M)	91 dB	
Max. SPL (Rated 20W / 1M)	104 dB	
Frequency Range (-10dB)	150 Hz ~ 20K Hz	
Dispersion 1K Hz / 4K Hz	230° / 65°	
Ambient Temperature	-35°C ~ +70°C	
Water Protection	IEC529 IP66	
Power Selection	4-core cable + 1 earth	
Material	Housing & Bracket: Extruded Aluminium, Grille: Aluminium	
Colour / Finish	Silver Anodized	White Epoxy (RAL 9003)
Dimensions	146 (5.75) Dia. X 200 (7.87) L mm. (in.)	
Net Weight (ea)	2.5 kgs (5.51 lbs)	
Mounting	U Type Aluminium Bracket	



SOP-5200VA Sound Projector



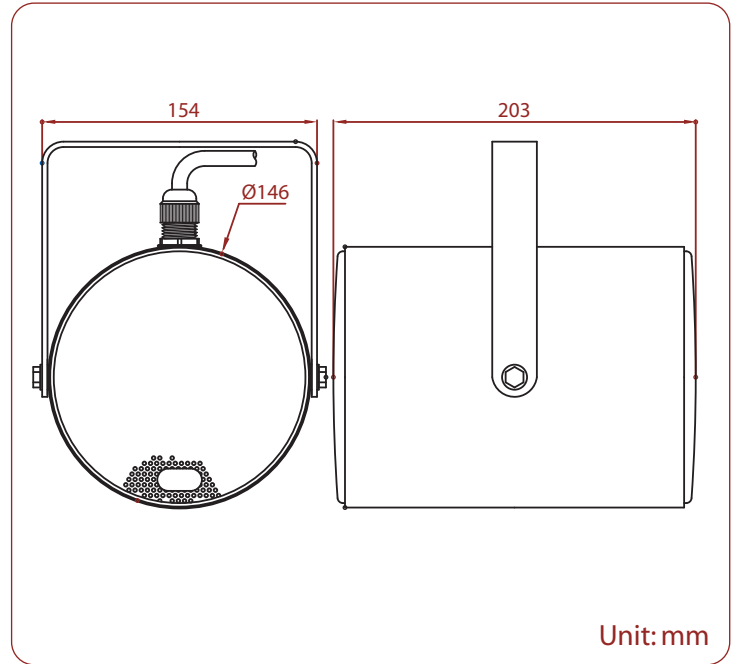
- ✓ 100 Hours Life Tested
- ✓ CE Certified (EMC & LVD)
- ✓ IP Rated
- ✓ Rustproof
- ✓ UL94V0
- ✓ BS 5839 Part 8
- ✓ EASE Data
- ✓ RoHS Compliance
- ✓ UV Protected
- ✓ Withstanding/Insulation Tested

- ▶ Compliant to BS5839 part 8. (British standards for voice alarm systems).
- ▶ Designed to give controlled directional sound characteristics.
- ▶ 20 watt 100 & 70 volt line. Tappings via 4-core cable.
- ▶ IP rated to IEC529 IP66.
- ▶ Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- ▶ High impact ABS housing with UV Protection.
- ▶ Available in White (RAL 9016).

Model No.	SOP-5200VA
Rated Power (rms)	20W
Impedance	500Ω, 1kΩ & 2kΩ
Power Taps @ 100V	20W, 10W & 5W
Power Taps @ 70V	10W, 5W & 2.5W
SPL (1W / 1M)	91 dB
Max. SPL (Rated 20W / 1M)	104 dB
Frequency Range (-10dB)	120 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	210° / 45°
Ambient Temperature	-30°C ~ +60°C
Water Protection	IEC529 IP66
Power Selection	4-core cable + 1 earth
Material	Housing: High impact ABS, Grille: Aluminium
Colour / Finish	White Epoxy (RAL 9016)
Dimensions	150 (5.91) Dia. X 203 (8) L mm. (in.)
Net Weight (ea)	2.0 kgs (4.41 lbs)
Mounting	U Type Aluminium Bracket



SOP-5200DVA Bi-Directional Sound Projector



Unit: mm

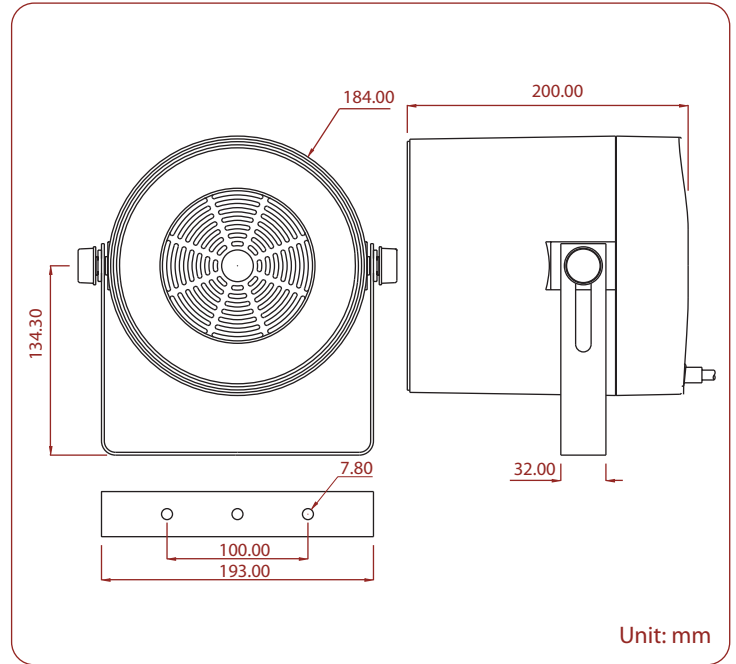
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Compliant to BS5839 part 8. (British standards for voice alarm systems).
- ▶ Bi-directional for Corridors, Walkways, Tunnels etc.
- ▶ Designed to give controlled directional sound characteristics.
- ▶ 20 watt 100 & 70 volt line. Tappings via 4-core cable.
- ▶ IP rated to IEC529 IP66 .
- ▶ Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- ▶ High impact ABS housing with UV Protection.
- ▶ Available in White (RAL 9016).

Model No.	SOP-5200DVA
Rated Power (rms)	20W
Impedance	500Ω, 1kΩ & 2kΩ
Power Taps @ 100V	20W, 10W & 5W
Power Taps @ 70V	10W, 5W & 2.5W
SPL (1W / 1M)	86 dB
Max. SPL (Rated 20W / 1M)	99 dB
Frequency Range (-10dB)	120 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	75° : 75° / 50° : 50°
Ambient Temperature	-30°C ~ +60°C
Water Protection	IEC529 IP66
Power Selection	4-core cable + 1 earth
Material	Housing: High impact ABS, Grille: Aluminium
Colour / Finish	White Epoxy (RAL 9016)
Dimensions	150 (5.91) Dia. X 203 (8) L mm. (in.)
Net Weight (ea)	2.2 kgs (4.84 lbs)
Mounting	U Type Aluminium Bracket



XMR-520PLVA Sound Projector



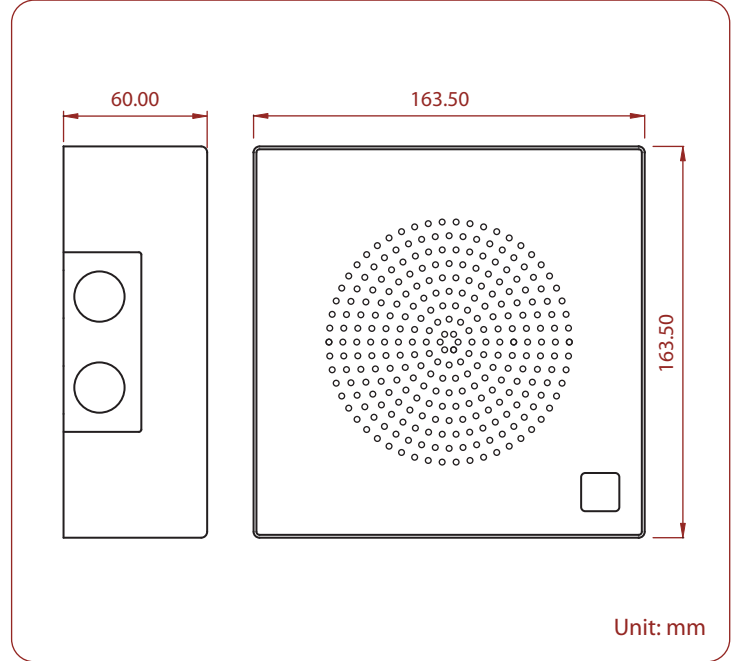
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Twin ceramic termination blocks and fire resistant internal cabling.
- 150°C thermal circuit isolating fuse.
- Designed to give controlled directional sound characteristics.
- 20 watt 100 & 70 volt line via 4-core cable.
- IP rated to IEC529 IP55.
- Wide bandwidth alternative to horn speakers - ideal for music and speech applications.
- Compact design high impact ABS housing UV protected.
- Epoxy coated steel bracket, stainless steel exterior hardware.
- Finished in Ivory (RAL 1013).

Model No.	XMR-520PLVA
Rated Power (rms)	20W
Impedance	500Ω, 1kΩ & 2kΩ
Power Taps @ 100V	20W, 10W & 5W
Power Taps @ 70V	10W, 5W & 2.5W
SPL (1W / 1M)	98 dB
Max. SPL (Rated 20W / 1M)	111 dB
Frequency Range (-10dB)	130 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	130° / 30°
Ambient Temperature	-30°C ~ +60°C
Water Protection	IEC529 IP55
Power Selection	4-core cable + 1 earth
Material	Housing: High impact ABS with UV protection
Colour / Finish	Ivory (RAL 1013)
Dimensions	184 (7.24) Dia. X 200 (7.87) L mm. (in.)
Net Weight (ea)	2.2 kgs (4.85 lbs)
Mounting	U Type Steel Bracket



WSM-5061VA Metallic Wall Loudspeaker



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

Multi purpose wall cabinet loudspeaker, designed to be vandal-proof as well as compliant with voice alarm standards world-wide. Ideal for environments such as schools, public buildings, car parks, offices etc.

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Rugged powder-coat steel construction.
- Twin ceramic termination blocks and fire resistant internal cabling.
- 150°C thermal circuit isolating fuse.
- Twin 20mm gland entry / exit points.
- Two fix install system.

Model No.	WSM-5061VA
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	91 dB
Max. SPL (Rated 6W / 1M)	98 dB
Frequency Range (-10dB)	150 Hz ~ 18K Hz
Dispersion 1K Hz / 4K Hz	170° / 70°
Ambient Temperature	-35°C ~ +70°C
Power Selection	Plug
Material	Housing: Steel
Colour / Finish	White (RAL 9010)
Dimensions	163.5 (6.44) X 163.5 (6.44) X 60 (2.36) mm. (in.)
Net Weight (ea)	2.0 kgs (4.41 lbs)
Mounting	Screw



Loudspeaker Strobes

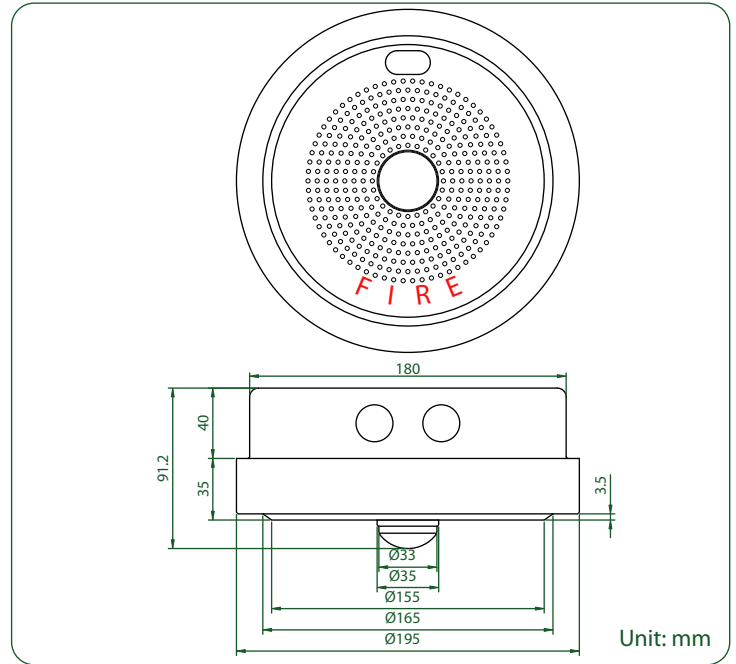


Ceiling Loudspeaker . Wall Loudspeaker



SCS-5061VAS

Surface-Mount Ceiling Loudspeaker Strobe



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

Multi purpose surface-mount ceiling loudspeaker strobe, designed to be vandal-proof as well as compliant with voice alarm standards world-wide. Ideal for environments such as schools, public buildings, car parks, offices etc.

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Rugged powder-coated steel construction.
- DC Blocking Capacitor to allow electrical supervision of the audio distribution circuit.
- Flashing distance up to 20 meters.
- Twin ceramic termination blocks and fire resistant internal cabling.
- 150°C thermal circuit isolating fuse.
- Twin 20mm gland entry / exit points.
- Two fix install system (Surface mounted / Recessed mounted).
- Safety cord from the backbox for easy installation.

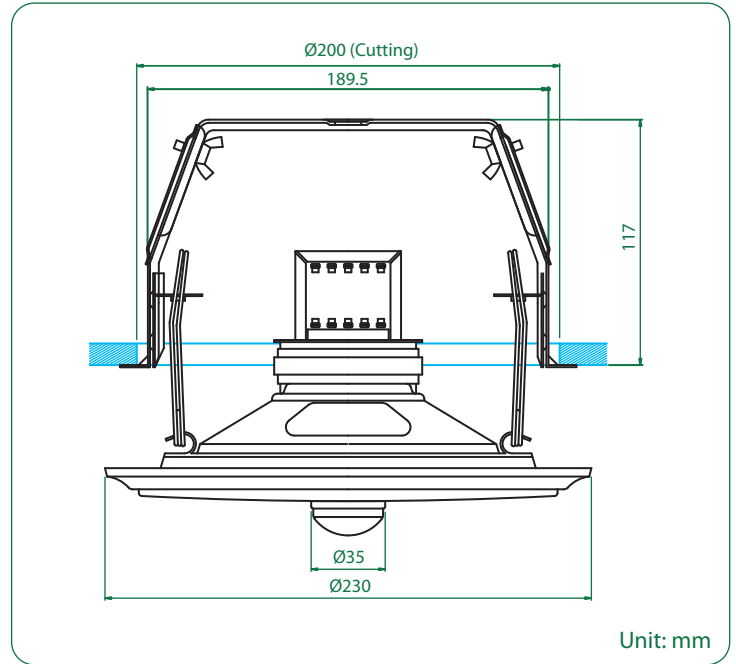
Model No.	SCS-5061VAS
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	92 dB
Max. SPL (Rated 6W / 1M)	99 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	180° / 70°
Ambient Temperature	-35°C ~ +70°C
Power Selection	Plug
Material	Housing: Steel
Colour / Finish	White (RAL 9010)
Dimensions	195 (7.68) Dia. X 75 (2.95) Height mm. (in.)
Net Weight (ea)	1.96 kgs (4.31 lbs)
Mounting	Screw

	Strobe
Maximum Power Rating	3W
Voltage	Normal 24V DC Range 9V - 30V DC
Current Consumption	120 mA
Flash Rate per minute	60
Operating Temperature	-15°C ~ +50°C



QCM-6061S

Quick-Mount Ceiling Loudspeaker Strobe



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- ▶ Share generic low profile grille design & simple fit system throughout entire QCM series.
- ▶ Fitted with a 6.5" twin cone driver unit. Designed to offer wide response for music & speech.
- ▶ 6 watt transformer with multi tappings down to 0.75W (100V) & 0.375W (70V).
- ▶ Flashing distance up to 20 meters.
- ▶ Built-in ceiling tile cutout marker.
- ▶ Dished grille design for acoustic integrity.
- ▶ Galvanized steel construction, finished in brilliant white (RAL 9003).

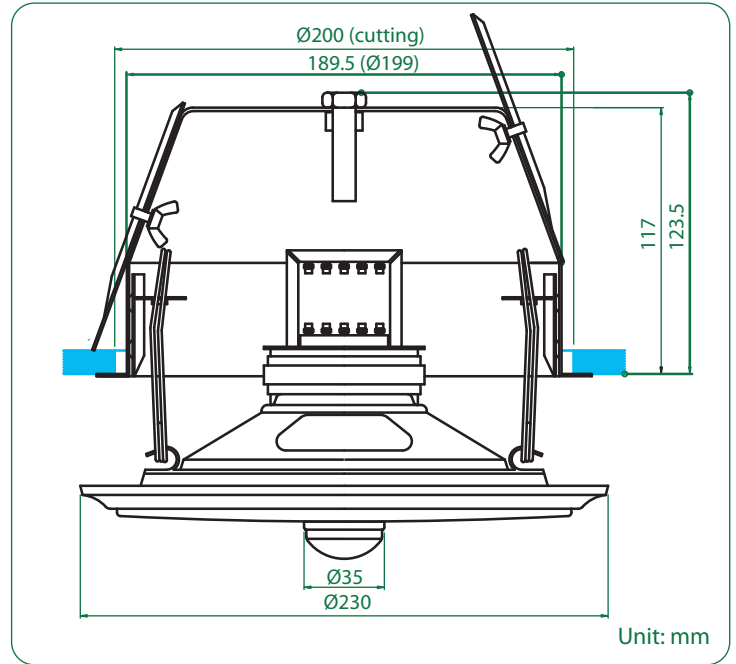
Model No.	QCM-6061S
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	90 dB
Max. SPL (Rated 6W / 1M)	97 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	120° / 95°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	230 (9.06) Dia. X 137.2 (5.4) Height mm. (in.)
Cutout Size	200 (7.87) Dia. mm. (in.)
Net Weight (ea)	1.4 kgs (3.09 lbs)
Mounting	Spring loaded Quick-Mount Bracket Assembly

	Strobe
Maximum Power Rating	3W
Voltage	Normal 24V DC Range 9V - 30V DC
Current Consumption	120 mA
Flash Rate per minute	60
Operating Temperature	-15°C ~ +50°C



QCM-6061VAFS

Quick-Mount Ceiling Loudspeaker Strobe



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Mild steel construction capable of withstanding temperature of 650°C.
- Twin gland entry steel firedome with patented "SUPER-FIT" system.
- Ceramic termination blocks, fire resistant internal cabling and 150°C thermal isolating fuse.
- Share generic low profile grille design & simple fit system throughout entire QCM series.
- Fitted with a 6.5" twin cone driver unit. Designed to offer wide response for music & speech.
- 6 watt transformer with multi tapplings down to 0.75W (100V) & 0.375W (70V).
- DC Blocking Capacitor to allow electrical supervision of the audio distribution circuit.
- Flashing distance up to 20 meters.
- Built-in ceiling tile cutout marker.
- Dished grille design for acoustic integrity.
- Galvanized steel construction, finished in brilliant white (RAL 9003).

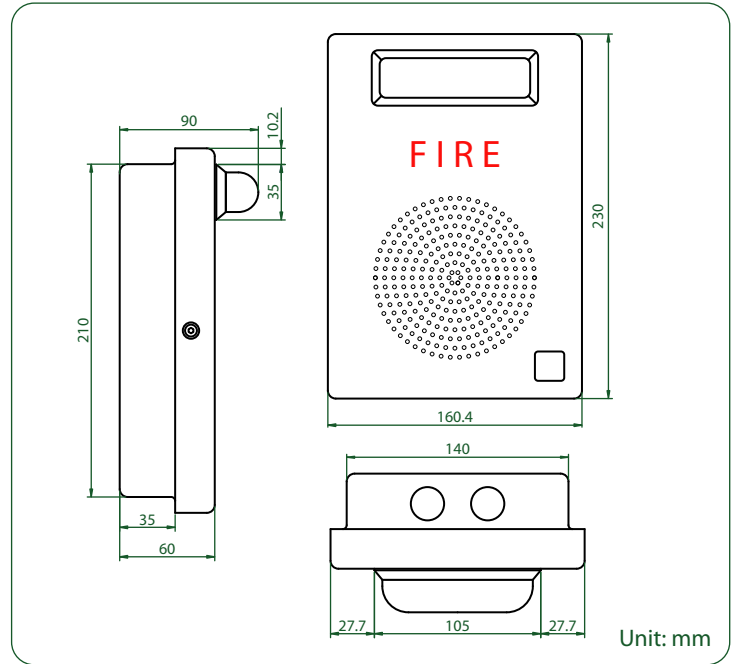
Model No.	QCM-6061VAFS
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	90 dB
Max. SPL (Rated 6W / 1M)	97 dB
Frequency Range (-10dB)	100 Hz ~ 20K Hz
Dispersion 1K Hz / 4K Hz	120° / 95°
Ambient Temperature	-30°C ~ +60°C
Power Selection	Plug
Material	Baffle: Steel, Grille: Steel
Colour / Finish	White (RAL 9003)
Dimensions	230 (9.06) Dia. X 143.2 (5.6) Height mm. (in.)
Cutout Size	200 (7.87) Dia. mm. (in.)
Net Weight (ea)	1.4 kgs (3.09 lbs)
Mounting	Spring loaded Quick-Mount Assembly

	Strobe
Maximum Power Rating	3W
Voltage	Normal 24V DC Range 9V - 30V DC
Current Consumption	120 mA
Flash Rate per minute	60
Operating Temperature	-15°C ~ +50°C



WSM-5061VAS

Metallic Wall Loudspeaker Strobe



- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

Multi purpose wall cabinet loudspeaker strobe, designed to be vandal-proof as well as compliant with voice alarm standards world-wide. Ideal for environments such as schools, public buildings, car parks, offices etc.

- Compliant to BS5839 part 8. (British standards for voice alarm systems).
- Rugged powder-coated steel construction.
- DC Blocking Capacitor to allow electrical supervision of the audio distribution circuit.
- Flashing distance up to 35 meters.
- Twin ceramic termination blocks and fire resistant internal cabling.
- 150°C thermal circuit isolating fuse.
- Twin 20mm gland entry / exit points.
- Two fix install system (Surface mounted / Recessed mounted).
- Safety cord from the backbox for easy installation.

Model No.	WSM-5061VAS
Rated Power (rms)	6W
Impedance	1.67kΩ, 3.33kΩ, 6.67kΩ & 13.33kΩ
Power Taps @ 100V	6W, 3W, 1.5W & 0.75W
Power Taps @ 70V	3W, 1.5W, 0.75W & 0.375W
SPL (1W / 1M)	91 dB
Max. SPL (Rated 6W / 1M)	98 dB
Frequency Range (-10dB)	150 Hz ~ 18K Hz
Dispersion 1K Hz / 4K Hz	160° / 80°
Ambient Temperature	-35°C ~ +70°C
Power Selection	Plug
Material	Housing: Steel
Colour / Finish	White (RAL 9010)
Dimensions	230 (9.06) H X 160 (6.30) W X 60 (2.36) D mm. (in.)
Net Weight (ea)	2.37 kgs (5.22 lbs)
Mounting	Screw

	Strobe
Maximum Power Rating	3W
Voltage	Normal 24V DC Range 9V - 30V DC
Current Consumption	120 mA
Flash Rate per minute	60
Operating Temperature	-15°C ~ +50°C

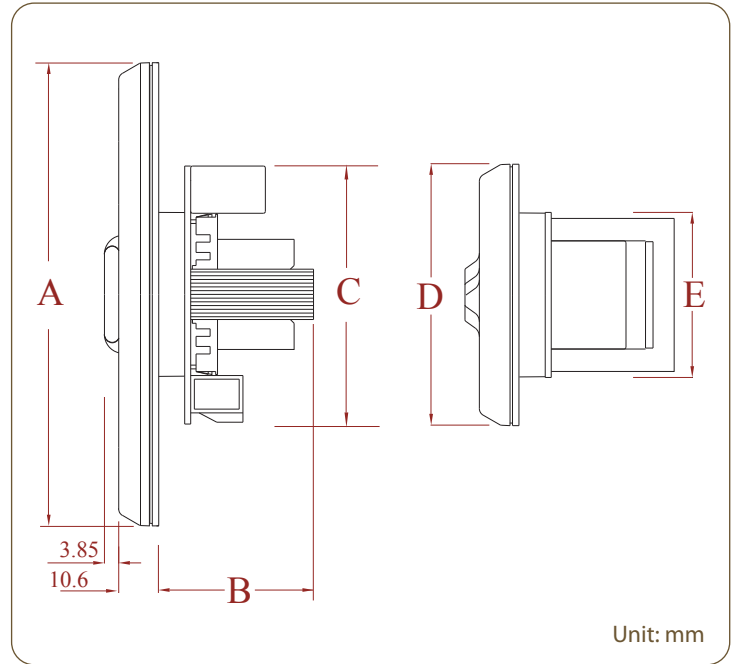
Volume Control & Accessories



Volume Control . Back Box . Fire Dome . Multi Bracket



ATT-0101 & 0201 Series Attenuator (Volume Control)



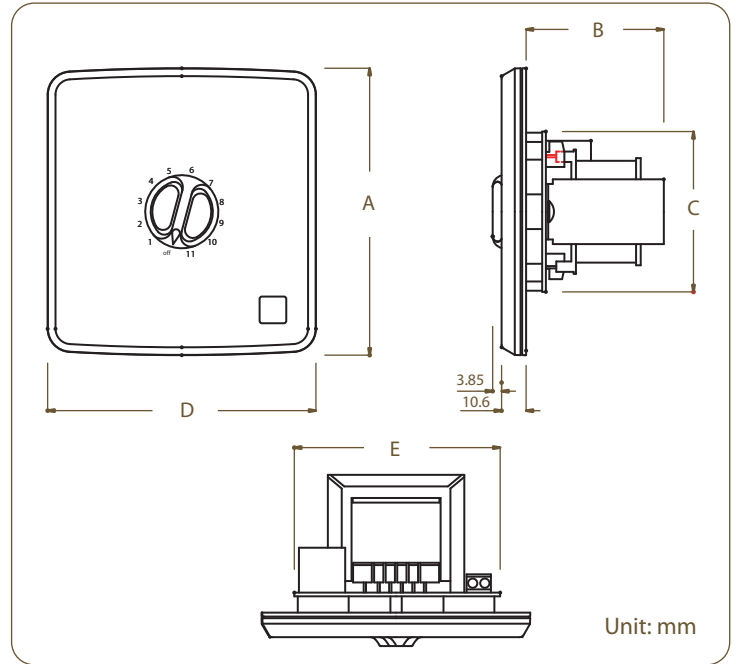
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Unique Low-profile design.
- Hardware free fascia.
- 12 position (inc. off) "Smooth Click" rotary switch with 360 degree operation.
- 10 & 20 watt and 100 volt line options.
- Designed for flush mounting or surface mounting via SUB-0200 back box.
- High quality auto transformer for excellent frequency response, low insertion loss and reliability.
- Optional priority relay (ATT-0101P & ATT-0201P) bypasses attenuator in emergency or priority paging announcements.
- High Impact ABS self extinguishing UL94V0 construction.
- Standard colour is White (RAL 9016).

Model No.	ATT-0101	ATT-0201	ATT-0101P	ATT-0201P
Rated Power (rms)	10W	20W	10W	20W
Line Voltage	100V			
Switch Position	11 + off			
Attenuation Per Step	3 dB (On the last 2 steps the power drops off 6 dB per step for better control on the low end)			
Total Attenuation	36 dB			
Insertion Loss	Less than 0.5 dB			
Priority	N. A.		Available	
Relay Spec.	N. A.		Coil 24V DC 22mA, Contacts rating 10A	
Plate Size	Single Gang			
Material	Cover & Wall Plate: UL94V0 High Impact ABS			
Colour / Finish	White (RAL 9016)			
Dimensions A mm (in)	124 (4.88)			
Dimensions B mm (in)	38.5 (1.52)	42.5 (1.67)	38.5 (1.52)	42.5 (1.67)
Dimensions C mm (in)	69.5 (2.74)			
Dimensions D mm (in)	70 (2.76)			
Dimensions E mm (in)	44.5 (1.75)			
Net Weight (ea) Kgs (lbs)	0.2 (0.44)	0.29 (0.64)	0.2 (0.44)	0.29 (0.64)
Recommended Flush Box	Standard U. S. A. Boxes at least 2-1/4" deep, BTICINO art. 503E (ITALY) or equivalent			



ATT-0501 & 1001 Series Attenuator (Volume Control)



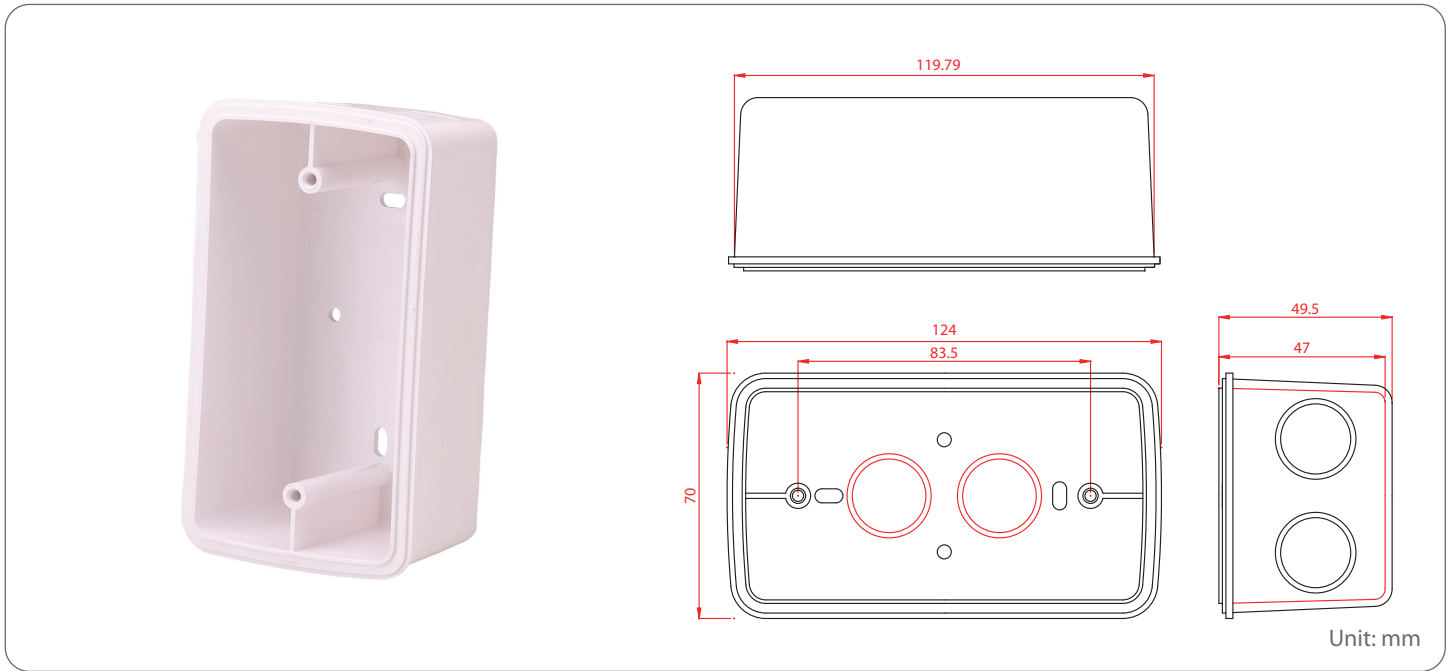
- 100 Hours Life Tested
- CE Certified (EMC & LVD)
- IP Rated
- Rustproof
- UL94V0
- BS 5839 Part 8
- EASE Data
- RoHS Compliance
- UV Protected
- Withstanding/Insulation Tested

- Unique Low-profile design.
- Hardware free fascia.
- 12 position (inc. off) "Smooth Click" rotary switch with 360 degree operation.
- 50 & 100 watt at 100 volt line.
- Designed for flush mounting or surface mounting via SUB-1000 back box.
- High quality auto transformer for excellent frequency response, low insertion loss and reliability.
- Optional priority relay (ATT-0501P & ATT-1001P) bypasses attenuator in emergency or priority paging announcements.
- High Impact ABS self extinguishing UL94V0 construction.
- Standard colour is White (RAL 9016).

Model No.	ATT-0501	ATT-1001	ATT-0501P	ATT-1001P
Rated Power (rms)	50W	100W	50W	100W
Line Voltage	100V			
Switch Position	11 + off			
Attenuation Per Step	3 dB (On the last 2 steps the power drops off 6 dB per step for better control on the low end)			
Total Attenuation	36 dB			
Insertion Loss	Less than 0.5 dB			
Priority	N. A.		Available	
Relay Spec.	N. A.		Coil 24V DC 22mA, Contacts rating 10A	
Plate Size	Double Gang			
Material	Cover & Wall Plate: UL94V0 High Impact ABS			
Colour / Finish	White (RAL 9016)			
Dimensions A mm (in)	124 (4.88)			
Dimensions B mm (in)	52 (2.05)	57 (2.24)	52 (2.05)	57 (2.24)
Dimensions C mm (in)	69.5 (2.74)			
Dimensions D mm (in)	116 (4.57)			
Dimensions E mm (in)	89 (3.50)			
Net Weight (ea) Kgs (lbs)	0.54 (1.19)	0.8 (1.76)	0.54 (1.19)	0.8 (1.76)
Recommended Flush Box	Standard U. S. A. Boxes at least 2-1/2" deep or equivalent			

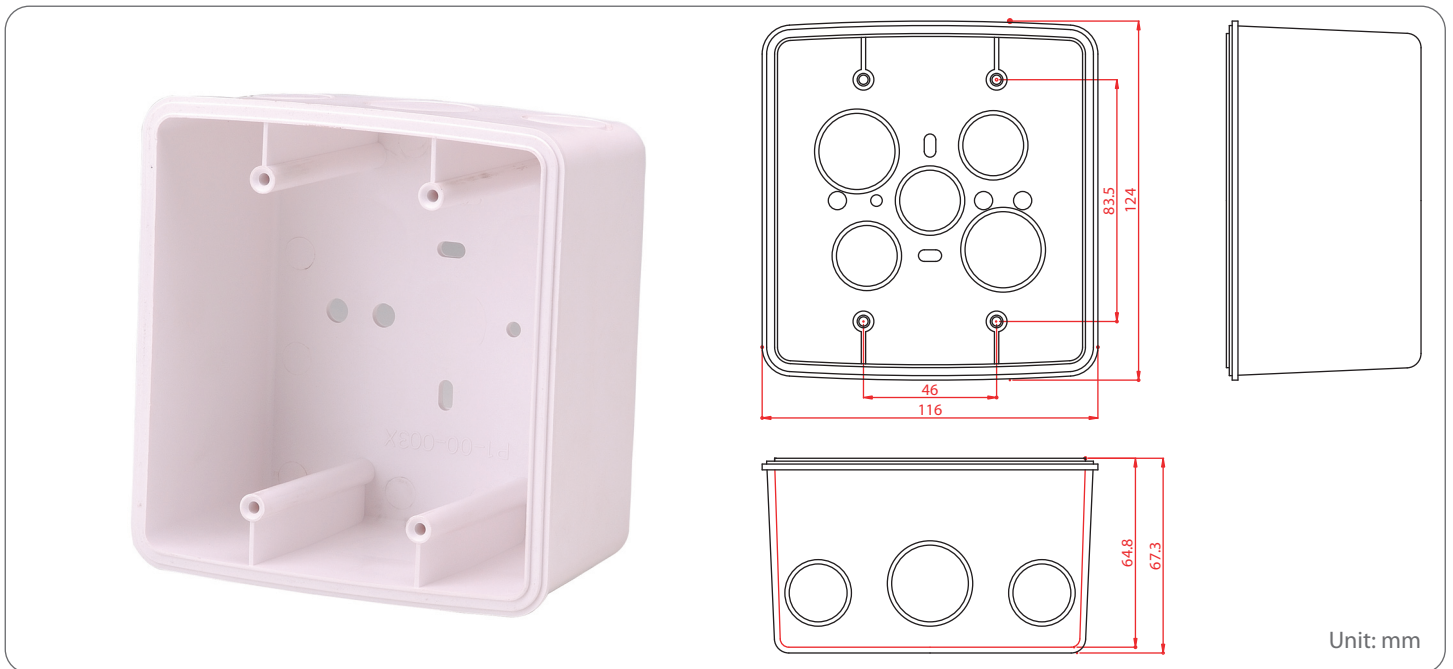


SUB-0200 & SUB-1000 Surface Mount Back Box



SUB-0200 Surface Mount Back Box

Optional for ATT-0101, ATT-0101P, ATT-0201, ATT-0201P.

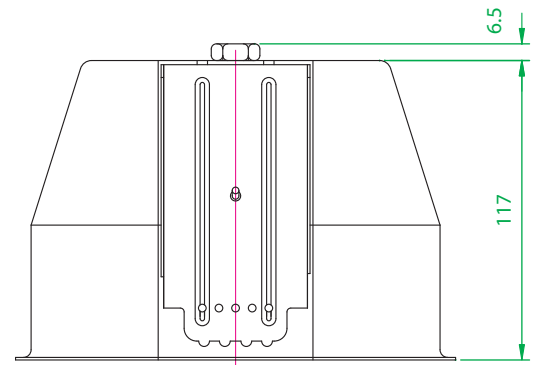
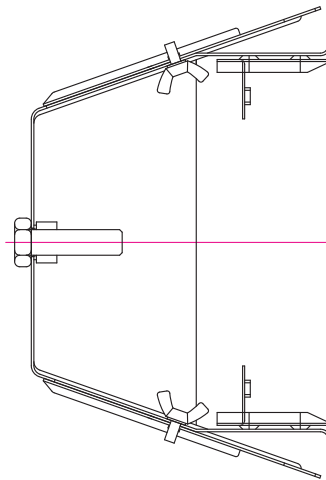
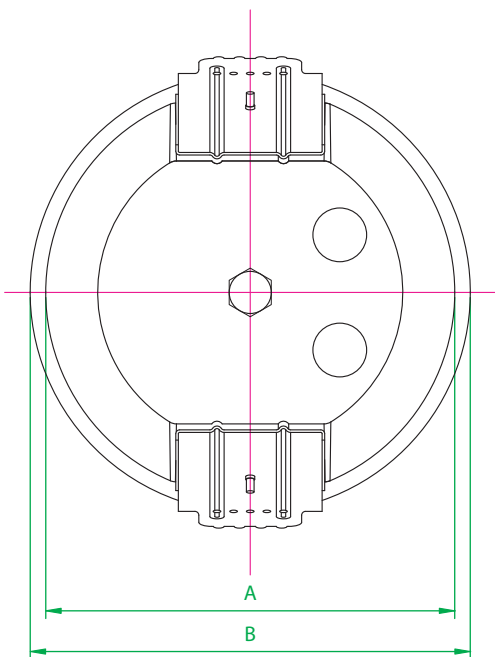


SUB-1000 Surface Mount Back Box

Optional for ATT-0501, ATT-0501P, ATT-1001, ATT-1001P.



FID-5220, FID-6520 & FID-8020 Steel Fire Dome



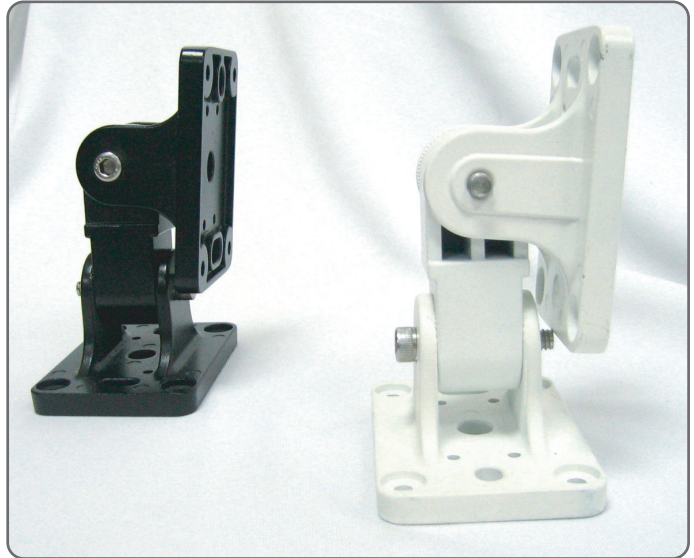
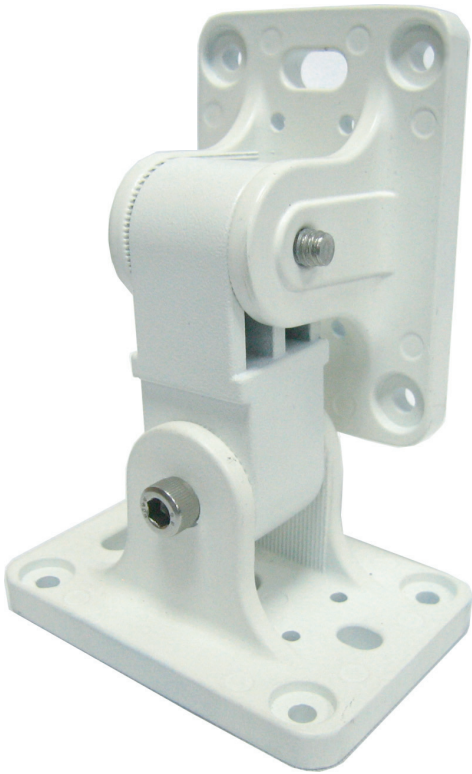
	A	B
FID-5220	160	172
FID-6520	199	216
FID-8020	229	255.5

Unit: mm

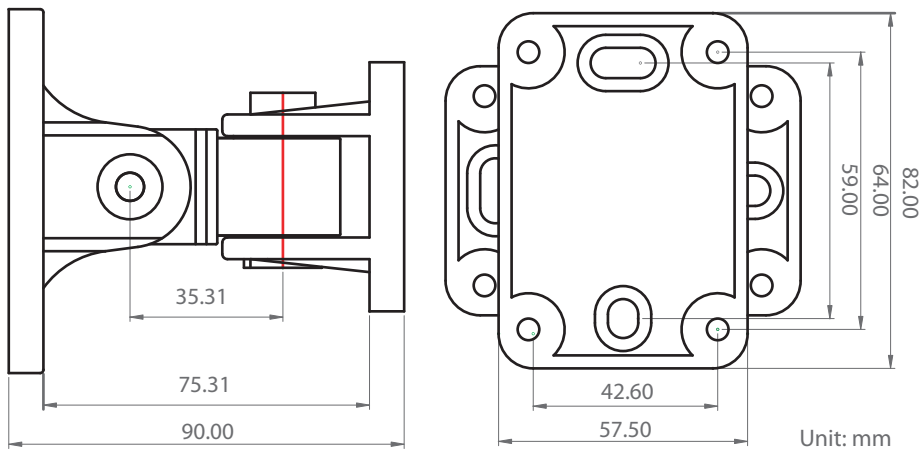
FID-5220 optional for QCM-5061.
 FID-6520 optional for QCM-6061, QCM-6081T, QCM-6061S.
 FID-8020 optional for QCM-8101, QCM-8200C.



B8-10-0091 & B8-19-0091 Nylon Multi Bracket



B8-10-0091 Nylon Multi Bracket in Black (RAL 9005)
B8-19-0091 Nylon Multi Bracket in White (RAL 9016)



- Broken tested up to 45.4 kgs (100 lbs).
- Optional for CAL-3 series, CAL-5 series, WCS-5 series and WCS-6 series.

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