

Wide Range Horn Speakers

CS-64 CS-64U*



- Wide-range paging speaker for paging, background music and tone signaling distribution
- Exponential horn improves directivity characteristics and ensure uniform and clear sound dispersion
- Weatherproof polyurethane resin paint and impact-proof lightweight ABS resin enclosure
- Stainless steel hardware protects the speaker from corrosion
- *UL 1480 UEAY listed

Specifications

	CS-64	CS-154	CS-304
Rated Input (100V line)	6W	15W	30W
Rated Impedance	100V line: 1.7k Ω , 3.3k Ω , 10k Ω 70V line: 830 Ω , 1.7k Ω , 3.3k Ω , 10k Ω	100V line: 670 Ω , 1k Ω , 2k Ω 70V line: 330 Ω , 670 Ω , 1k Ω , 2k Ω	100V line: 330 Ω , 500 Ω , 1k Ω 70V line: 170 Ω , 330 Ω , 500 Ω , 1k Ω
Sensitivity (1W, 1m)	96 dB	97 dB	98 dB
Frequency Response	130 – 13,000 Hz	150 – 15,000 Hz	120 – 15,000 Hz
Speaker Component	12cm cone-type (Treated for splash proof)	12cm cone-type	
Finish	Horn, cover: ABS resin, off-white, paint; Bracket: Stainless steel Punched net: Surface treated steel plate, dark-gray, powder coating	Horn, cover: ABS resin, off-white, paint Bracket: Stainless steel/Net: Aluminium, gray	
Dimensions	233 (W) x 224 (H) x 208 (D) mm 9.2 (W) x 8.8 (H) x 8.2 (D) in	366 (W) x 230 (H) x 272 (D) mm 14.4 (W) x 9.1 (H) x 10.7 (D) in	
Weight	1.5kg (3.3lbs)	2.8kg (6.2lbs)	3.1kg (6.8lbs)
Dust/Water Protection	Equivalent to IPX4	IP65	

CS-154/CS-154U* CS-304/CS-304U*



- Wide-range speaker for paging, background music and tone signaling distribution
- Constant directivity horn improves directivity characteristics and ensure uniform and clear sound dispersion
- High sensitivity: up to 98 dB (1W/1m) IP65 certified weatherproof construction
- Weatherproof polyurethane resin paint and impact-proof lightweight ABS resin enclosure
- Stainless steel hardware protects the speaker from corrosion
- *UL 1480 UEAY listed

Paging Horn Speakers

SC-610 SC-610T



SC-615 SC-615T



SC-630 SC-630TU*



SC-651



- Both high-impedance (70V/100V lines) models and low impedance (8 Ω & 16 Ω) models available
- Stainless steel brackets and hardware (screws, bolts), and powder-coated horn ensure superb weatherproofing and corrosion-resistance
- Shock-resistant aluminum oval horn
- IP65 certified weatherproof construction
- *UL 1480 UUMW version



Specifications

	SC-610	SC-610T	SC-615	SC-615T	SC-630	SC-630TU*	SC-651
Rated Input (100V line)	10W		15W		30W (8Ω)	30W	50W
Rated Impedance	8Ω	70V line: 500Ω, 1kΩ, 2kΩ, 3.3kΩ, 10kΩ	8Ω	70V line: 330Ω, 670Ω, 1kΩ, 2kΩ, 3.3kΩ	8Ω	70V line: 170Ω, 330Ω, 670Ω, 1kΩ, 2kΩ	16Ω
Sensitivity (1W, 1m)	110 dB		112 dB		113 dB		109 dB
Frequency Response	315 – 12,500 Hz		280 – 12,500 Hz		250 – 10,000 Hz		250 – 6,000 Hz
Finish	Horn flare: Aluminum, off-white, powder coating/Reflector horn: ABS resin, off-white/Bracket holder: Aluminum, gray, powder coating/Bracket: Stainless steel						
Dimensions	172 (W) x 161 (H) x 188 (D) mm 6.8 (W) x 6.3 (H) x 7.4 (D) in		222 (W) x 179 (H) x 234 (D) mm 8.8 (W) x 7 (H) x 9.2 (D) in		285 (W) x 227 (H) x 277 (D) mm 11.2 (W) x 8.9 (H) x 10.9 (D) in		430 (W) x 297.5 (H) x 327 (D) mm (16.9 (W) x 11.7 (H) x 12.9 (D) in)
Weight	1kg (2.2lbs)	1.2kg (2.6lbs)	1.1kg (2.4lbs)	1.3kg (2.9lbs)	1.7kg (3.7lbs)	2kg (4.4lbs)	3.4kg (7.5lbs)
Dust/Water Protection	IP65						
Operating Temperature	-20°C to +55°C						

Horn Speakers Optional Accessories

❖ Pole Mount Bracket SP-131



❖ Swivel Mount Bracket YS-151S



❖ Pole Band YS-60B



❖ Wall and Pole Mount Bracket SP-201



F Series Surface Mount Speakers

- Compact box speaker for music and voice paging distribution
- Octagonal horn design for smooth coverage
- Adjustable high frequency dispersion (F-2000 models)
- Extruded cabinet improves low frequency performance

- Splashproof design in compliance with IPX4, available on models "BTWP/WTWP"
- Great variety of brackets available
- Paintable enclosure and front grille



F-1000BT
F-1000BTWP
F-1000WT
F-1000WTWP

- LF Driver: 4" cone woofer
- HF Driver: balanced dome tweeter
- Dispersion: 90°H x 90°V
- Optional rust-proof aluminum grill



F-1300BT
F-1300BTWP
F-1300WT
F-1300WTWP

- LF Driver: 5" cone woofer
- HF Driver: 1" dome tweeter
- Dispersion: 110°H x 100°V
- Optional rust-proof aluminum grill



F-2000BT
F-2000BTWP
F-2000WT
F-2000WTWP

- LF Driver: 8" cone woofer
- HF Driver: 1" hard-dome dome tweeter
- Dispersion (adjustable): 110°H x 100°V;
80°H x 80°V (with supplied throat adapter)



Specifications

	F-1000BT F-1000WT	F-1000BTWP F-1000WTWP	F-1300BT F-1300WT	F-1300BTWP F-1300WTWP	F-2000BT F-2000WT	F-2000BTWP F-2000WTWP
Rated Input (100V line)	15W		30W		60W	
Rated Impedance	8Ω/100V line: 670Ω (15W), 2kΩ (5W), 3.3kΩ (3W), 10kΩ (1W) 70V line: 330Ω (15W), 670Ω (7.5W), 2kΩ (2.5W), 3.3kΩ (1.5W), 10kΩ (0.5W)		8Ω/100V line: 330Ω (30W), 1kΩ (10W), 3.3kΩ (3W), 10kΩ (1W) 70V line: 170Ω (30W), 330Ω (15W), 1kΩ (5W), 3.3kΩ (1.5W), 10kΩ (0.5W)		8Ω/100V line: 170Ω (60W), 330Ω (30W), 670Ω (15W), 3.3kΩ (3W) 8Ω/70V line: 83Ω (60W), 170Ω (30W), 330Ω (15W), 670Ω (7.5W), 3.3kΩ (1.5W)	
Sensitivity (1W, 1m)	87 dB		90dB		92dB	
Frequency Response	85 – 20,000 Hz		80 – 20,000 Hz		65 – 20,000 Hz	
Speaker Component	Low: 10cm cone-type, High: Balanced dome tweeter		Low: 13cm cone-type, High: 2.5cm dome tweeter		Low: 20cm cone-type, High: 2.5cm dome tweeter	
Finish	Enclosure: HIPS resin, black or white Punched net: Surface-treated steel plate, black or white, paint		Enclosure: HIPS resin, black or white Punched net: Surface-treated steel plate, black or white, paint		Enclosure: HIPS resin, black or white Punched net: Surface-treated steel plate, black or white, paint	
Dimensions	130 (W) x 202 (H) x 131(D) mm / 5.1" x 8" x 5.2"		162 (W) x 250 (H) x 161(D) mm / 6.4" x 9.8" x 6.3"		244 (W) x 373 (H) x 235(D) mm / 9.6" x 14.7" x 9.3"	
Weight	1.8kg / 4 lbs	2kg / 4.4 lbs	3.6kg / 7.9 lbs		7.4kg / 16.3 lbs	
Dust/Water Protection	--	IPX4	--	IPX4	--	IPX4

F Series Wide-Dispersion Speakers Optional Accessories

❖Cluster Bracket
HY-CL10B*



❖Ceiling Mounting Bracket
HY-CM10B*



❖Ceiling Mounting Bracket
HY-CM10W*



❖Board Hanger Bracket
HY-BH10B*



❖Cluster Bracket
HY-CL20B*



❖Ceiling Mounting Bracket
HY-CM20B*



❖Ceiling Mounting Bracket
HY-CM20W*



❖Pole Mounting Bracket
SP-131



❖Pole Mounting Bracket
YS-60B



❖Rust-Proof Aluminum Grill
Q-F1000GRBA
Q-F1000GRWA
Q-F1300GRBA
Q-F1300GRWA



**Indoor use only.*

Refer to page 107 for more information.