

PRODUCT DATASHEET

HS-511

20W / 40W Waterproof Horn Speaker

20W / 40W | 100V / 70V / 8Ω | Weatherproof | Long-Range Projection | Wall / Pole Mount

The HS-511 is a weatherproof horn speaker engineered for high-output public address in outdoor, semi-outdoor, and industrial environments. With two selectable power taps (20W and 40W) on its built-in 100V/70V transformer, it delivers wide-angle, long-distance sound projection suitable for large open areas, factory floors, car parks, and campus grounds. Durable ABS horn body with all-weather protection ensures reliable long-term performance in demanding outdoor conditions.



40W MAX POWER	2 POWER TAPS	100V CONSTANT VOLTAGE	≈100dB SENSITIVITY	~116dB MAX SPL	90×60° COVERAGE	WP WEATHERPROOF
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KEY FEATURES

- ✓ **40W / 20W Dual Power Taps** — Two selectable transformer taps cover large areas (40W) or quieter zones (20W) without rewiring — optimise coverage from the same 100V speaker line
- ✓ **Long-Range Horn Projection** — Flared horn design focuses sound energy for extended throw distance — ideal for large open-air areas, car parks, and factory floors where ceiling speakers cannot be used
- ✓ **Weatherproof Construction** — Durable ABS plastic horn body with all-weather sealing withstands rain, humidity, dust, and UV exposure for reliable outdoor installation
- ✓ **100V / 70V Transformer Built-in** — Connects directly to standard constant-voltage PA speaker lines — no external transformer required; 8Ω direct connection also supported
- ✓ **Adjustable Mounting Bracket** — Supplied steel U-bracket with pivot adjustment allows precise horizontal and vertical aiming at installation — wall, pole, or truss mount
- ✓ **High Sensitivity Driver** — Compression driver delivers high-SPL voice projection — ensures intelligible announcements over ambient noise in loud industrial environments

INSTALLATION NOTES

- ▶ Select 40W or 20W tap on rear transformer before installation; 8Ω direct also available
- ▶ Wire in parallel along 100V constant-voltage speaker line — observe polarity
- ▶ Use threaded rear cable entry with IP-rated conduit glands for fully weatherproof installation
- ▶ Adjust U-bracket pivot for optimal aim before tightening — aim 15–20° downward for best coverage
- ▶ Total speaker load must not exceed amplifier rated output — leave 20% headroom

TECHNICAL SPECIFICATIONS

MODEL	HS-511	RATED POWER	40W / 20W (switchable)
INPUT VOLTAGE	100V / 70V constant voltage	RATED IMPEDANCE	8Ω (direct)
FREQUENCY RESPONSE	350Hz – 10KHz	SENSITIVITY	≥100dB (1W/1m)
COVERAGE ANGLE	90° × 60° (H × V)	MAX SPL	~116dB (40W, 1m)
DRIVER TYPE	Compression driver	TRANSFORMER	Built-in, 2-tap (40W/20W)
HORN MATERIAL	ABS plastic	FINISH	Light grey
WEATHERPROOFING	All-weather sealed	MOUNTING	U-bracket (wall / pole)
CABLE ENTRY	Rear threaded conduit entry	OPERATING TEMPERATURE	–20°C to +60°C
HORN DIMENSIONS	Approx. 310 × 240mm	WEIGHT	1.2 kg
CERTIFICATIONS	CE, 3C, ISO 9001	WARRANTY	24 Months

LONG-RANGE PROJECTION

Horn flare design focuses sound energy for 30–80m projection in open areas — far beyond what ceiling speakers can achieve in outdoor or high-ceiling environments.

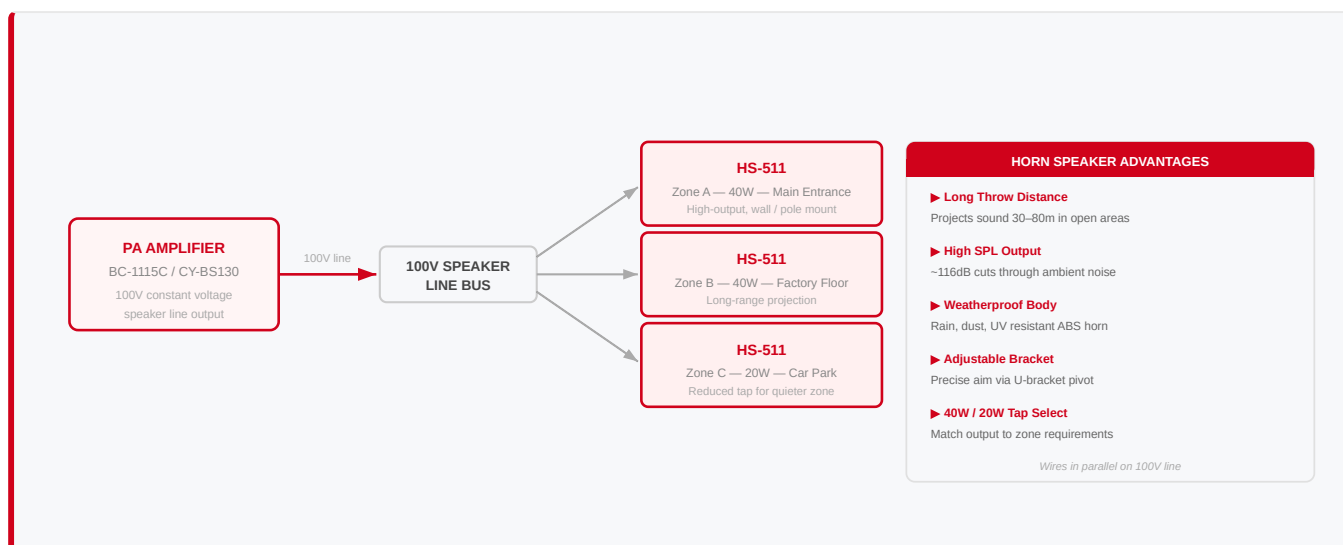
HIGH-SPL PERFORMANCE

~116dB maximum SPL at 40W ensures announcements and alarms cut through ambient noise on busy factory floors, car parks, and outdoor public spaces.

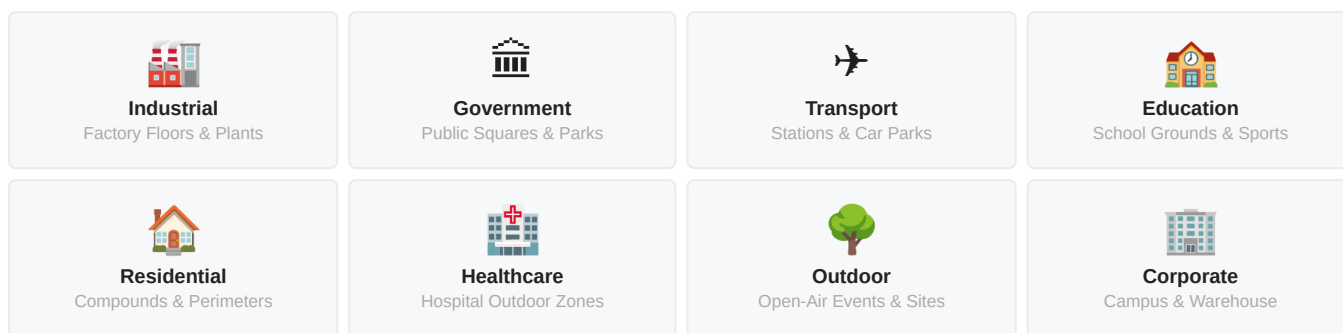
ALL-WEATHER RELIABILITY

Weatherproof ABS horn body with all-weather sealed construction withstands rain, humidity, dust, and UV — reliable year-round outdoor operation with no maintenance.

OUTDOOR PA ARCHITECTURE



TYPICAL APPLICATION SCENARIOS



WHY C-YARK



ORDERING INFO

HS-511 — Waterproof Horn Speaker
Includes: U-bracket, mounting hardware
Colour: Light grey ABS
Max power: 40W / 20W tap

COMPATIBLE AMPLIFIERS

BC-1115C 120W Mixing Amplifier
CY-BS130 120W IP Amplifier
Any 100V / 70V PA amplifier
Ensure load ≤ rated output – 20%

NOTES

Specifications subject to change without prior notice.
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MANUFACTURER

C-YARK
Guangzhou Quanzhiyun Electronic Technology Co., Ltd.

CONTACT

www.gzcyark.com
info@gzcyark.com
+86 138-2841-7108

LOCATION

Guangzhou, Guangdong, China
Est. 2006 · Professional PA & IP Audio