

PRODUCT DATASHEET

CY-BS510B2

IP Network Desktop Paging Microphone

7" Touch Screen | Multi-Zone Paging | Full-Duplex Intercom | DSP Audio

The CY-BS510B2 is a professional IP network desktop paging microphone featuring a 7-inch colour touchscreen, full-duplex two-way intercom, and multi-zone paging capability. Built on embedded computer technology with DSP audio processing, it connects directly to any IP PA network and enables operators to page single zones, multiple zones, or all zones simultaneously — with live broadcast, intercom, and environmental monitoring from a single intuitive interface.



7" TOUCH SCREEN	HD 800×480	FD FULL-DUPLEX	<100ms INTERCOM DELAY	5m MONITOR RANGE	16bit CD QUALITY	<1s STARTUP TIME
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KEY FEATURES

- ✓ **7" Colour Touch Screen** — 800×480 resistive touchscreen with 65K-colour display; auto-sleep for low power when idle — intuitive zone and function selection
- ✓ **Multi-Zone Paging** — Page to a single zone, multiple selected zones, or all zones simultaneously; supports point-to-point, group, and all-call paging modes
- ✓ **Full-Duplex Two-Way Intercom** — Built-in network echo cancellation with <100ms latency; completely suppresses echo and howling for crystal-clear conversations
- ✓ **Environmental Monitoring** — Silently monitor any terminal in the network within 5 metres without alerting the remote end
- ✓ **DSP Audio Processing** — High-speed industrial-grade chips with embedded DSP deliver 16-bit stereo CD-quality audio over TCP/IP, UDP, and IGMP multicast
- ✓ **Built-in Monitor Speaker** — 2W full-range hi-fi speaker enables hands-free monitoring, broadcast reception, and two-way conversation
- ✓ **Flexible I/O** — 3.5mm headphone output, 3.5mm MIC input, line output for external amplifier expansion, and line input for additional audio sources
- ✓ **Intelligent Call Management** — Supports call waiting, call forwarding, no-answer reminder, auto-answer, manual answer, and custom answer tones

INSTALLATION NOTES

- Requires DC 12V power adapter (included in box)
- Connect to LAN switch via standard Cat5e/Cat6 cable
- Line output connects to external amplifier for room-level monitoring
- IP address configurable via on-screen settings or management software
- Compatible with C-Yark IP audio server, CY-BS130 amplifier, and CY-BS230 speakers

TECHNICAL SPECIFICATIONS

MODEL	CY-BS510B2	DISPLAY	7" resistive touch, 800×480, 65K colour
PAGING MODES	Single zone / multi-zone / all zones	INTERCOM	Full-duplex, <100ms network delay
ECHO CANCELLATION	Built-in network AEC module	AUDIO PROTOCOL	TCP/IP, UDP, IGMP (multicast)
AUDIO QUALITY	16-bit stereo, CD quality	MONITOR SPEAKER	2W full-range built-in
MICROPHONE	Gooseneck condenser (included)	HEADPHONE OUTPUT	1× 3.5mm φ jack
MIC INPUT	1× 3.5mm φ external mic	LINE OUTPUT	1× for external amplifier
LINE INPUT	1× external audio source	NETWORK INTERFACE	1× RJ45 10/100M
START-UP TIME	<1 second	INPUT POWER	DC 12V (adapter included)
POWER CONSUMPTION	≤15W	OPERATING TEMPERATURE	0°C to +50°C
OPERATING HUMIDITY	10% – 90% RH	DIMENSIONS (W×D×H)	280 × 200 × 50 mm
WEIGHT	1.2 kg	CERTIFICATIONS	CE, 3C, ISO 9001
WARRANTY	24 Months		

TOUCH SCREEN CONTROL

7-inch colour touchscreen with intuitive zone-selection interface. Auto-sleep reduces power consumption when idle. Start-up in under 1 second.

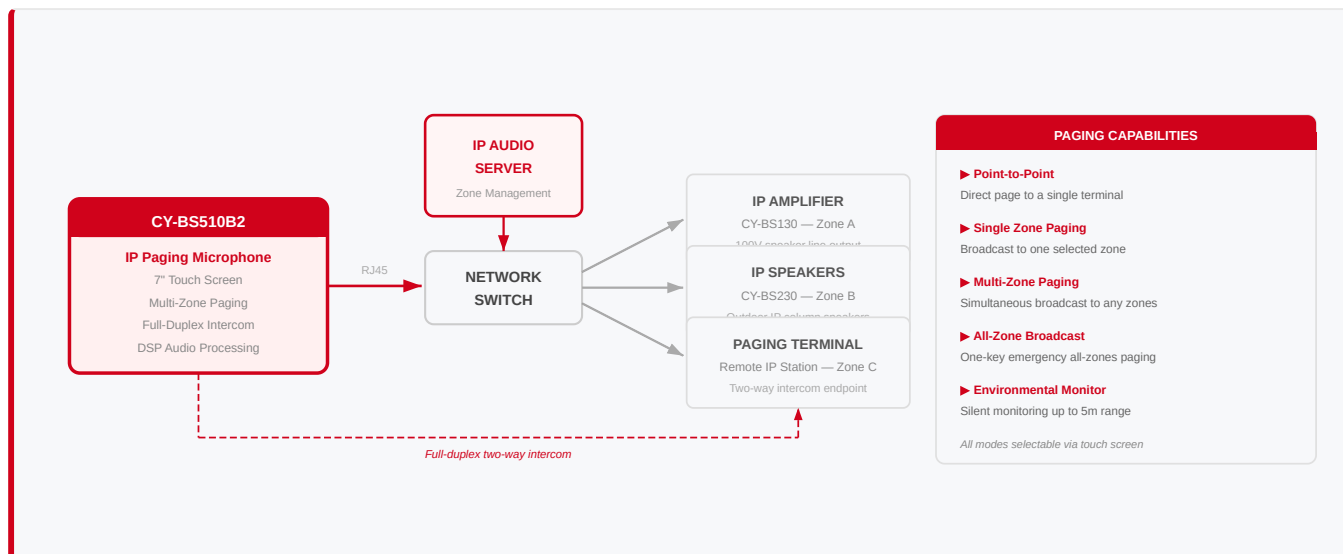
FULL-DUPLEX INTERCOM

Built-in AEC module eliminates echo and howling. Network delay under 100ms enables natural real-time two-way conversation over IP.

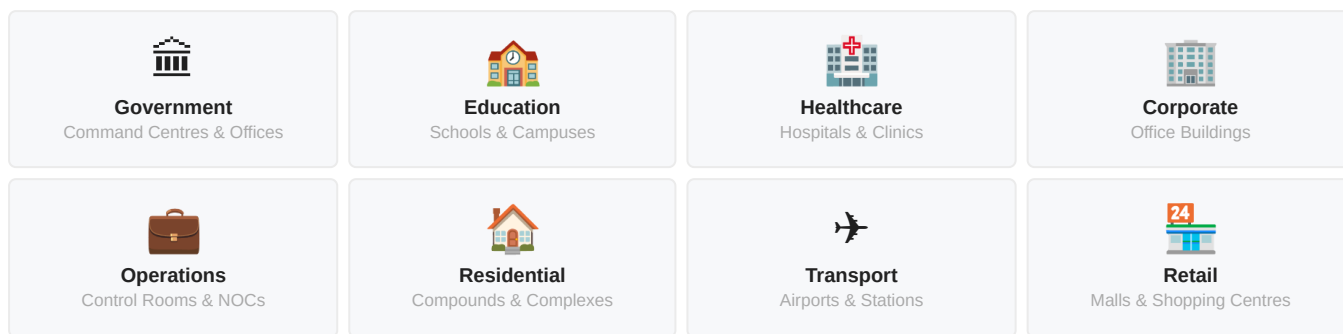
INTELLIGENT PAGING

Page single zones, multiple zones, or all zones simultaneously. Supports call waiting, forwarding, no-answer reminder, and custom tones.

SYSTEM ARCHITECTURE



TYPICAL APPLICATION SCENARIOS



WHY C-YARK

10+ YEARS IN PA	CE CERTIFIED	ISO 9001 QUALITY	3C COMPLIANT
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ORDERING INFO

CY-BS510B2 — IP Paging Microphone
Includes: gooseneck mic, DC 12V adapter
Display: 7" 800×480 touch screen
Colour: Black / Dark grey

COMPATIBLE WITH

C-Yark IP Audio Server
CY-BS130 IP Network Amplifier
CY-BS230 IP Outdoor Column Speaker
C-Yark IP Zone Controllers
Any TCP/IP LAN infrastructure

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