

Simplify day-to-day broadcasts and improve emergency control

The 8450 IP Console allows users to easily broadcast live or pre-recorded messages and initiate emergency alerts.

Available features vary with version



8450SG

INTUITIVE BROADCASTING AND PAGING

With a customizable 10.1" LCD touchscreen, the 8450 is used as an input device to activate paging and messages. A gooseneck microphone allows for live announcements, while touchscreen buttons can activate pre-recorded messages or alerts.

OPTIMIZED EMERGENCY RESPONSE

The 8450 improves user situational awareness by displaying a visual status of in-progress events such as a lockdown. Situational awareness can be further scaled by integrating the 8450 with Algo speakers, displays, and visual alerters. The device can also be configured to be password-protected, ensuring that emergency alerting cannot be deactivated by anyone other than designated staff. In emergency situations where the phone or internet lines are down, the 8450 can continue to broadcast to devices via multicast, ensuring maximal coverage in all scenarios.

CUSTOMIZE AND CHOOSE YOUR CONTROLS

Ideal for education, health, and other facilities with unique paging needs, the 8450 integrates easily into IP paging ecosystems through SIP, multicast, and API. Configure touchscreen buttons for unique alerts or zone paging via web interface for streamlined communication throughout facilities. Multiple templates are available to get started quickly. The 8450 adds intuitiveness, flexibility, and ease to IP paging environments.



8450R

KEY FEATURES

- 10.1" touchscreen with customizable screens and button layouts
- Full-color HD graphics for enhanced visibility and user experience
- SIP-compliant, PoE/PoE+ powered, multicast-capable, with API support
- Flexible mounting: desk, wall, or rack installation
- Configurable workflows with password protection and confirmation prompts
- Support for five user access levels with passcode control
- Gooseneck microphone for live voice announcements
- Backlit Action Button configurable for push-to-talk or emergency triggers

FEATURE MATRIX

FEATURE	8450SG	8450R
GOOSENECK MICROPHONE-DEPENDENT FEATURES	Y	—
ACTION BUTTON-DEPENDENT FEATURES	Y	—

For more details, refer to the User Guide available at:
docs.algosolutions.com/docs/8450-ip-console

POWER	
POWER SOURCE	PoE (IEEE 802.3af Class 0) 48 V, 15.4 W, or PoE+ (IEEE 802.3at Type 2 Class 0) 48 V, 30 W
MAX POWER (AT DEVICE)	10 W
SIP	
SIP EXTENSIONS	1 Outbound Page Extension
OUTBOUND DIALING	Configurable touchscreen buttons
SIP SIGNALLING/ TRANSPORT PROTOCOLS	UDP, TCP, RTP
SECURITY	TLS, SRTP, Mutual Authentication
SIP AUDIO CODECS	G.711 u-law, G.711 A-law, G.722 Wideband
MULTICAST	
RTP MULTICAST	Transmit only (50 Zones)
MULTICAST AUDIO CODECS (TRANSMIT ONLY)	G.711 u-law, G.722 Wideband, Opus Fullband
THIRD-PARTY COMPATIBILITY	
	<ul style="list-style-type: none"> • RESTful API • Poly Group Page™ • Singlewire InformaCast (additional license required to receive) • Microsoft Teams®
CONFIGURATION & PROVISIONING	
CONFIGURATION	Web interface or provisioning server
WEB INTERFACE	HTTP, HTTPS
PROVISIONING	<ul style="list-style-type: none"> • TFTP, FTP, HTTP, HTTPS • DHCP Options 66, 150, 160 • Reboot via SIP 'check-sync'
ZTP	Supported
SUPERVISION	Compatible with Algo Device Management Platform (ADMP), Algo 8300 IP Controller, any third-party SNMP monitoring software, and RTCP
NETWORKING	
NETWORKING	IPv4, IPv6, DHCP, VLAN, MDNS
LINK LAYER	LLDP, CDP
SECURITY	IEEE 802.1X
QOS	DSCP
NAT	STUN, TURN, CRLF Keep Alive, SIP Outbound
ADDRESS RESOLUTION	DNS, SRV Record
REDUNDANCY	Secondary and tertiary SIP server
TIME	NTP Server (up to four)
AUDIO	
AUDIO MEMORY & FORMAT	1 GB audio storage for WAV or MP3 files
ANTI-FEEDBACK DELAY	Cache to memory and release
VIDEO	
LCD	Full color display
RESOLUTION	1280 x 800
VIEWING ANGLE	85 deg (horizontal and vertical)
CONTRAST	1000:1

ENVIRONMENTAL & MECHANICAL	
ENVIRONMENTAL	Dry indoor locations only. 0 to +40 deg C (32 to 104 deg F); 10-95% RH non-condensing.
DIMENSIONS (8450SG)	<ul style="list-style-type: none"> • Screen: 10.3" × 6.8" × 1.2" (26.3 cm × 17.3 cm × 3.1 cm) • Screen + Stand: 10.3" × 9.0" × 7.6" (26.3 cm × 23.0 cm × 19.4 cm)
DIMENSIONS (8450R)	<ul style="list-style-type: none"> • Screen: 10.3" × 6.8" × 1.2" (26.3 cm × 17.3 cm × 3.1 cm) • Screen + Rack: 19.0" × 6.8" × 1.2" (48.3 cm × 17.3 cm × 3.1 cm) <p>Designed for installation in a standard 19-inch rack, fits within a 4U rack space</p>
WEIGHT (8450SG)	<ul style="list-style-type: none"> • Screen: 1.9 lbs (0.9 kg) • Screen + Stand: 5.2 lbs (2.3 kgs)
WEIGHT (8450R)	<ul style="list-style-type: none"> • Screen: 1.9 lbs (0.9 kg) • Screen + Rack: 2.7 lbs (1.2 kgs)

ORDERING CODES:

8450SG	IP Console with Desk Stand and Gooseneck Microphone
8450R	IP Console with Rack Mount Accessory Kit
8450SG-IC	IP Console with Desk Stand and Gooseneck Microphone, InformaCast Certified
8450R-IC	IP Console with Rack Mount Accessory Kit, InformaCast Certified

