Dual-sided IP Visual Display Speaker for Visual Alerting and Audible Notification

With dual-direction 15.6" LCD displays, high-intelligibility speakers, and high-visibility LED flashers, the 8420 can produce effective attention-grabbing visual and audible messaging in hallways, corridors, and large open spaces.

Algo's 8420 IP Dual-Sided Display Speaker is a SIP-compliant notification device comprising of three core components — 15.6" LCD screens, high-intelligibility speakers, and high-visibility LED flashers — to deliver highly effective visual and audible communication. The 8420 is dual-sided, each side mirroring the other with an LCD screen, wideband audio speakers, and multi-color flashers, to project visual and audible alerting in two directions. The 8420 allows for cutomizable and flexible paging, notification, and alerting capabilities.

The primary element of the 8420 are the LCD display screens. With unlimited visual possibilities, the screens can produce scrolling text, flashing announcements, full color images or key data points, such as dates an times. It can be customized to complement an audio announcement or to bring communication to an audio-less environment.

For audible alerting, the 8420 offers similar functionality and voice quality as any Algo speaker, delivering wideba audio for clear voice communication and attention-grabbing audible alerting. An embedded microphone is included to enable ambient noise response and talkback capabilities.

The LED flashers provide additional awareness for important messages. When no announcement or notification is needed, a variety of messages can be displayed, including images, text, or an NTP clock.

FEATURES

— Two 15.6" wide-angle viewable LCD display screen for off-axis visibility

— Unlimited and customizable visual display capabilities with over 16 million colors

— Display for digital or analog NTP clock, scrolling text, and emergency notification

— PoE++ (802.3bt Type 3 & 4)

— Remotely manageable for easy monitoring, maintainenance, and management

— Wideband audio (G.722 voice codec) for speech intelligibility and high quality audio

— Sleep mode and screen dimming to save on power usage

— Wall and ceiling-mount orientation available via included bracket

AVAILABLE SINGLE-SIDED AS 8410

— Single-sided 15.6" wide-angle LCD display screen, wideband speaker, and LED flashers to deploy in classrooms or hallways.

— Surface-mount via included wall mounting bracket

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SUPPORT 1-604-454-3792

POWER

POE POWERED	Recommended: PoE++ (802.3bt Type 4 Max 71.3W)
	Minimum: PoE++ (802.3bt Type 3, Max 51W)

SIP

EXTENSIONS	50 Page & 10 Alerting/Ring extensions with multicast scalability
TRANSPORT PROTOCOLS	UDP, RTP, TCP
SECURITY	TLS, MTLS, SRTP

MULTICAST COMPATIBILITY

MULTICAST	RTP Multicast (Send & Receive 50 zones)
THIRD PARTY MULTICAST	PolycomTM Group Page, SinglewireTM InformaCast, Syn-AppsTM Revolution

DIGITAL IO

RELAY CONFIGURED AS INPUT	Normally open or normally closed dry contact supervision. Compatible with Algo 1202, 1203, and 1204 Accessories.

API

API	RESTful

AUDIO

AUDIO CODECS	G.711 A-law, G.711 u-law, G.722, Opus 48 kHz.
SPEAKERS	6 x Neodymium magnet with polypropylene cone
FREQUENCY RESPONSE	150 – 19,000 Hz (- 10 dB)
DRIVER SENSITIVITY	92 dB 1m/1W (1 kHz sine wave)
MAXIMUM SPL	100 dB/1m
MAX AUDIO POWER	12 Watts
AUDIO MEMORY + FORMAT	1 GB user space for WAV or MP3 files
MICROPHONE	Omni-directional, talkback and ambient noise monitoring
AUDIO CONTROLS	Volume, AGC, Latency, LF Cut
ANTI-FEEDBACK DELAY	Cache to memory and release

VIDEO

LCD VIEWING AREA	Two LCDs screens of 13.5" x 7.6" (34.4 cm x 19.4 cm)
RESOLUTION	1920 x 1080 @ 60 fps
VIEWING ANGLE	88 deg (horizontal and vertical)
COLOR	16.7 M
BACKLIGHT	LED Auto-dimmable
CONTRAST	1000:1

NETWORK

NETWORK	IPv4, IPv6, DHCP, VLAN, MDNS
LINK LAYER	LLDP, CDP
QOS	DSCP (SIP, RTP, RTCP)
WEB INTERFACE	HTTP, HTTPS
PROVISIONING	TFTP, FTP, HTTP, HTTPS, DHCP Options 66, 150, 160 Reboot via SIP Check-sync
NAT	STUN, TURN, CRLF Keep Alive, SIP Outbound
ADRESS RESOLUTION	DNS, SRV Record
SUPERVISION	SNMP V1.3, RTCP, Algo 8300
REDUNDANCY	Secondary & Tertiary SIP Servers

ENVIRONMENTAL + MECHANICAL

ENVIRONMENTAL	32 to 104 deg F (0 to + 40 degC); 10-95% RH non-condensing. Dry indoor locations only.
MECHANICAL	15.25" x 11.5" x 2.0"

COMPLIANCE

IEC 62368-1, IEEE 802.3-2018, RoHS, CE, FCC Class A, CISPR 32 Class A, CISPR 24, CSA/UL (USA & Canada),

FIRMWARE

These specifications refer to the Algo 8420 running firmware 5.2 and above.

WALL MOUNT

CEILING MOUNT

ORDERING CODES:

8420	IP Dual-Sided IP Display Speaker
8410	IP Display Speaker

COMPATIBLE ACCESSORIES:

1202	Customer/Emergency Assistance Button
1203	Wall Switch Single Gang Blue LED
1204	Volume Control

1202	1203	1204

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