FOR SCHOOL

JACQUES

IP SCHOOL COMMUNICATION SYSTEM

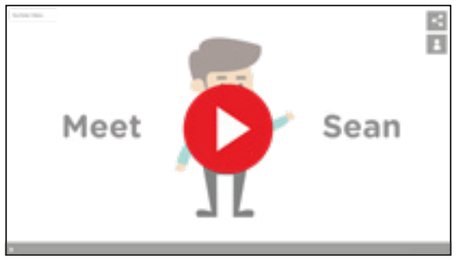
Within schools it is vital that; individuals are able to focus on learning and teaching in a safe, carefree environment. To ensure the safety, security and peace of mind of students and teachers it is essential for a comprehensive security communications system to be in place.

Jacques offers an integrated IP intercom, public address & school bell system that provides options suitable for primary, secondary or multi-campus schools of all sizes. Jacques systems feature user-friendly communication devices, full integration with third party systems and audio monitoring capabilities for maximum security. After recent threats and tragedies at schools, security remains at the forefront of concern. Remove that extra stress from students, teachers and loved ones and enable a positive learning environment with Jacques comprehensive integrated IP audio and video intercom, public address & bell system.

SYSTEM SUMMARY

Jacques IP communication system easily adapts to meet the specific needs of each school. Through the PA system, school admin is able to broadcast live or pre-recorded announcements, warning alarms or tones, music and schedule school bells. Furthermore, PA announcements and bells can be broadcast to one, multiple or all PA zones, meaning each announcement can be specifically broadcast to a single or multiple buildings, classrooms or outdoor sports areas. Add a series of classroom intercom terminals and access intercom terminals at key administration areas for a complete safe school solution.

Watch Education - Meet Sean video



vimeo.com/350229895

SYSTEM FEATURES

3rd party integration

Integration of video and/or audio intercom communication with CCTV heightens security for staff and students on campus at all times. Should an incident occur, video and audio recording facilitated by the system can provide critical information to authorities. Integration to access control systems ensures buildings are accessed only by those allowed

Convenient communication

The system offers direct voice and/or video communication with campus security for help and assistance from various help points and intercom stations located throughout a campus. Simplified one button calling ensures help and assistance is always close by

Relay modules

Configurable relay modules exist on intercom terminals to activate external equipment – control doors, boom gates, lights or signal CCTV camera presets. Alternatively create an evacuation panel with push buttons configured to play any tones or alarms you want

True IP digital technology

Jacques systems are based on Ethernet network standards and TCP/IP protocols, which use commercially available network equipment and infrastructure.

Integrated PA

The PA system offers PA zoning, meaning a school can create a PA zone for each classroom, social area, office and sports area. Reception administration can then easily broadcast live or pre-recorded announcements or tones to one, multiple or all PA zones

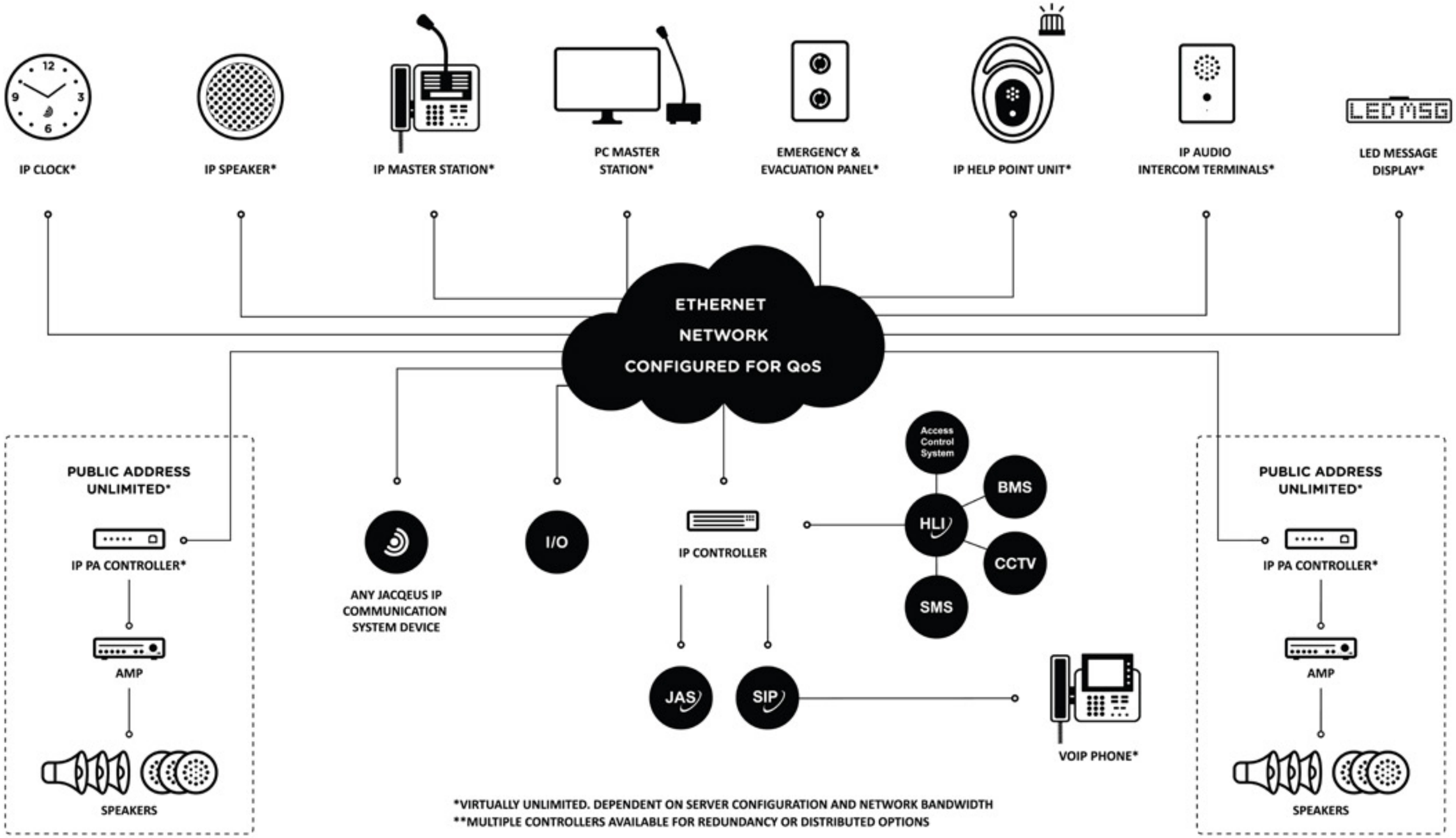
Flexible system architecture

Scale the system to suit your school now and into the future. Create small, large or multi-site communication systems. Our system allows for virtually an unlimited number of intercom, help point or public address endpoints to be connected, integrated and managed

Threshold alarm monitoring

When the noise level in a classroom reaches above a predefined point, a notification will be triggered on the PC master station, alerting school administration. This allows the principal and teachers to develop a behaviour management plan and identify corrective measures

System diagram



*VIRTUALLY UNLIMITED. DEPENDENT ON SERVER CONFIGURATION AND NETWORK BANDWIDTH
**MULTIPLE CONTROLLERS AVAILABLE FOR REDUNDANCY OR DISTRIBUTED OPTIONS

ANNOUNCEMENT SCHEDULING REIMAGINED

JAS software

With flexible scheduling and audio upload options, school admin staff can broadcast announcements at their convenience – managed via our calendar view, mobile-friendly interface.

Jacques Announcement Scheduler (JAS) software allows schools to:

- Facilitate pre-recorded announcements, bells, tones & warning alarms across the school or campus
- Allows for the uploading of any audio files for broadcast including songs, tones, bells
- Flexible audio, featuring text to speech & record audio from your mobile device
- Build timetables of announcements, bells & tones for broadcast at allocated times to select or all PA zones
- Apply schedules to days, weeks or months based on a site's broadcast requirements
- Management of the scheduler via a user-friendly calendar view
- Edit schedules on-the-fly via mobile device
- Trigger customisable warning, alert or evacuation tones quickly via mobile device

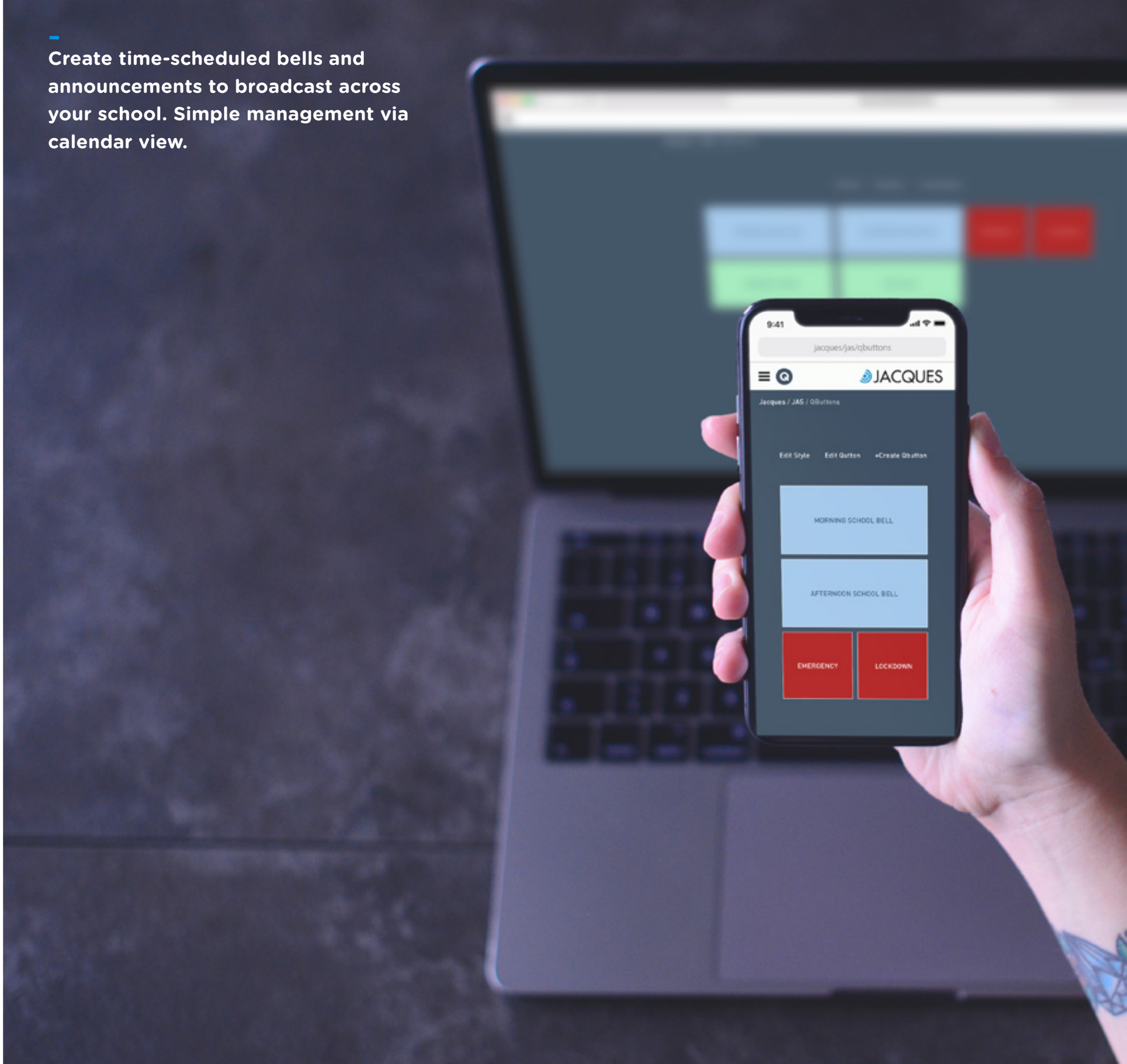
Introducing QButtons – a quick button to broadcast a warning, bell or pre-recorded announcement. Developed for the education market, requested by YOU.

- Designed for mobile use
- Trigger announcements and tones on-the-fly
- Customisable style (text, size, colour, and icon)
- Broadcast to select, many or all PA zones

Watch JAS user guide video

vimeo.com/426144942

Create time-scheduled bells and announcements to broadcast across your school. Simple management via calendar view.



Vivi Integration

A new level for emergency messaging in schools with seamless Vivi screen graphics and audio alerts for emergency situations.

Vivi offers wireless screen mirroring and digital signage devices designed for education. The integration allows Jacques school system to trigger Vivi emergency screen graphics when an emergency button or JAS Qbutton is alarmed.

Customised graphical user interface

The Jacques GUI can be completely customised to suit your school:

- Upload multiple school maps, including submaps
- Load audio files, bell tones or announcement files for broadcast across the PA system
- Use your school branding and logo

Build your school intercom & Public Address system following these simple steps

SCHOOL SYSTEM

Begin with an Ethernet Network configured for QoS

1

CONTROLLER PACKAGE

Choose a controller package which can manage your system size and offer the functionality you require

SILVER | GOLD | GOLD VIRTUAL

2

MASTER STATION

Choose your master station. They can make and receive intercom calls and make public address announcements

IPM-360 | PCC-650MX

3

PA FUNCTIONALITY

Choose your Public Address components to achieve the required functionality

IP SPEAKERS | UAI-3B1 | AMPLIFIERS

4

INTERCOM TERMINALS

Choose your intercom terminals. They call pre-defined master stations and can initiate relays within your system

VSL-35X | HPU-5E

5

ACCESSORIES

Choose your accessories. They provide additional functionality to your system

ADAM RELAY MODULE | IP CLOCKS | BACKGROUND MUSIC STREAMING UNIT

+

OPTIONAL EXTRAS

Customisation of Graphical User Interfaces (GUI) and/or integration with CCTV & access control systems

1

Controller packages

	SILVER 25 endpoint licences		GOLD 100 endpoint licences	
	HARDWARE	VIRTUAL	HARDWARE	VIRTUAL
IP PUBLIC ADDRESS SYSTEM FUNCTIONALITY				
Controller size	Medium	Virtual	Large	Virtual
Dynamic grouping of PA zones+	✓	✓	✓	✓
Unlimited* number of PA zones, or the number of groups within a zone	✓	✓	✓	✓
Time scheduled bell & pre-recorded announcements to all/selected PA zones	✓	✓	✓	✓
Bell scheduling interface	✓	✓	✓	✓
Run multiple bell/announcement schedules per day (ideal for multi campus schools)	✓	✓	✓	✓
Pre-recorded, time scheduled announcement scheduling interface (include warning, emergency or evacuation alarms)	✓	✓	✓	✓
Create detailed announcement files	✓	✓	✓	✓
Broadcast live PA announcements to one, selected or all PA zones+	✓	✓	✓	✓
Create and store virtually an unlimited number of audio files (pre-recorded announcements/tones) for use within the system. Number only limited by system server & network	✓	✓	✓	✓
Number of included sound and tone files included (audio/music files)	4	4	10	10
Background music streaming	✓	✓	✓	✓
Number of channels for background music	1	✳	2	✳
INTERCOM & HPU SYSTEM FUNCTINOALITY				
System can include video & audio intercom & HPU devices+			✓	✓
Intercom call functions+ • Answer • Forward • Monitor • End • Hold			✓	✓
Intercom activated relays: door, gate, light and/or strobe+			✓	✓
Evacuation/Emergency panels available which broadcast evac/warning alarms at the push of a button+	✓	✓	✓	✓
Audio threshold alarm monitoring of classroom noise. If a predefined noise limit is reached an automatic call to reception will be triggered			✓	✓
	51789	52536	51883	52192
OPTIONAL EXTRAS				
Gui customisation	✓	✓	✓	✓
SIP integration- make and answer intercom calls via SIP digital phone system			✓	✓
HLI integration- to CCTV & access control systems			✓	✓
Additional channels for background music streaming			✳	✳

*Additional hardware required

2

Master stations

PC MASTER STATION

PCC-650WIN | 51791, PCC-650WTS | 51857

- Complete intercom call handling functions
- Complete Public Address functionality
- Make live and pre-recorded announcements
- Broadcast tones, bells & alarms
- Visual display of PA zones (unlimited number of zones depending on controller)
- Selection and playback of recorded announcements
- Diagnostics and reporting
- Alarm notifications including device state
- Touchscreen compatible interface
- Map, grid and database views
- Upload multiple site maps to suit application/site
- Customisable layout/functions

IP MASTER INTERCOM STATION

IPM-360G | 51534, IPM-360GH | 51535

- Complete intercom call handling functions
- Public Address functionality
- Make live and pre-recorded announcements
- Selection and playback of recorded announcements
- IEEE 802.3af PoE support
- Backlit display for reliable viewing in dark conditions
- Trigger intercom relays
- Options for gooseneck, handset and headset

3

PA functionality

IP SMART CEILING SPEAKER

SCS-150+ | 52011

- IP PoE internal ceiling speaker
- Dual cone flush mount option
- Internal microphone for automated speaker output fault detection
- Two configurable relays
- Tamper detection and device removal notification

UNIVERSAL AUDIO INTERFACE

UAI-3B1 | 51196, UAI-3E1 | 51195

- Public Address interface
- One used per zone within school PA system
- Provides balanced line output for connection to PA amplifiers
- 3rd party audio input

4

Intercom terminals

INTERCOM TERMINAL

VSL-351+ | 51612

- IP audio intercom terminal for in classrooms or building entrances
- Standard PoE powered (IEEE 802.3af)
- Two configurable relays that can control lights, gate/door access etc.
- Tamper detection and attempted device removal notification
- Automated testing of speaker and microphone
- Single call button
- Water and vandal resistant

HELP POINT UNIT

HPU-5E2+ | 51687, HPU-5E2-i+ | 51688

- Highly visible, solid, vandal resistant call point
- Standard PoE powered (IEEE 802.3af)
- Simple 1 or 2 button operation, emergency or emergency & information
- Two configurable relays that can control lights, gate/door access etc.
- Tamper detection and attempted device removal notification
- Automated testing of speaker and microphone
- Single or dual call button(s)

5

Accessories

EMERGENCY & EVACUATION PANEL

2 or 4 BUTTON OPTION

- Evacuation and lockdown push buttons
- Stainless steel vandal resistant panel
- Custom etching available
- Configurable buttons to trigger tones & alarms

IP POE NETWORK CLOCK

CLOCK241

- IP PoE internal wall clock
- Standard PoE powered (IEEE 802.3af) Supports up to 10
- SNTP servers for redundancy DHCP or static IP addressing
- Support for any time zone
- Automatic Daylight Saving Time adjustment Polycarbonate crystal

Additional products available, click here to visit our School System products page

IP 650 System specifications

SYSTEM CAPACITY

Intercom stations	Unlimited*
Master stations	Unlimited*
Stored announcements	Unlimited*
Call queue size	Unlimited*
Groups	Unlimited*
Simultaneous conversations	Unlimited*
Audio communication between any endpoint	yes +
Auxiliary channels	16 (typically up to 4 live captured sources)

AUDIO CHARACTERISTICS

Frequency response	200Hz - 7 kHz ± 3 dB
Transmission format	Real-time transport protocol (RTP) streaming
Digital audio format - voice	A-law compressed PCM 16 kHz sampling rate
Audio streaming bandwidth	128 kb/s one way, 256 kh/s full duplex
Acoustic echo cancellation	Yes

VIDEO CHARACTERISTICS

Multi-standard video codec	MPEG-4 part 2, siple profile; H.264 baseline profile; H.263 part 3
Video streaming bandwidth	500 kb/s - 6 Mb/s

CALL HANDLING

Call topologies	Intercom/hierarchical/peer/public address/zoned
Call priorities	256 priority levels
Call features (basic)	Auto-answer, hold, forward, diversion, directory, group call, caller-ID, bridged call appearance
Call features (specialised)	Isolate nuisance callers, covert monitor, dynamic group call, stored announcements, master call, remote mode, priority queuing, selective answer of call waiting

NETWORK

Addressing	TCP/IP IPV4, static or dynamic (DHCP)
Interface media	IEEE 802.3 10/100 Mb/s Ethernet
Standards	IEEE802.1P LAN Layer 2 prioritisation IEEE802.1Q Virtual LAN RTP - Real-Time Transport Protocol (RFC3550/3551) TOS - IPV4 Type of Service (RFC791) DTMF - RTP payload for DTMF digits (RFC2833) Multicast - IP Multicasting (RFC1112) Diffserv - Differentiated Services (RFC2474/2475) NTP - Network Time Protocol (RFC1305) IGMPv2 - Internet Group Management Protocol v2 (RFC2236) DHCP - Dynamic Host Configuration Protocol (RFC1531)

CABLING

Power input/ethernet	4 pair UTP CAT-5/5e/6, multi-strand, 24 AWG -100m (328 ft) max.

*Dependent on server configuration and network bandwidth
+Dependent on system configuration and permissions granted

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