JACQUES
Future Proof Communications
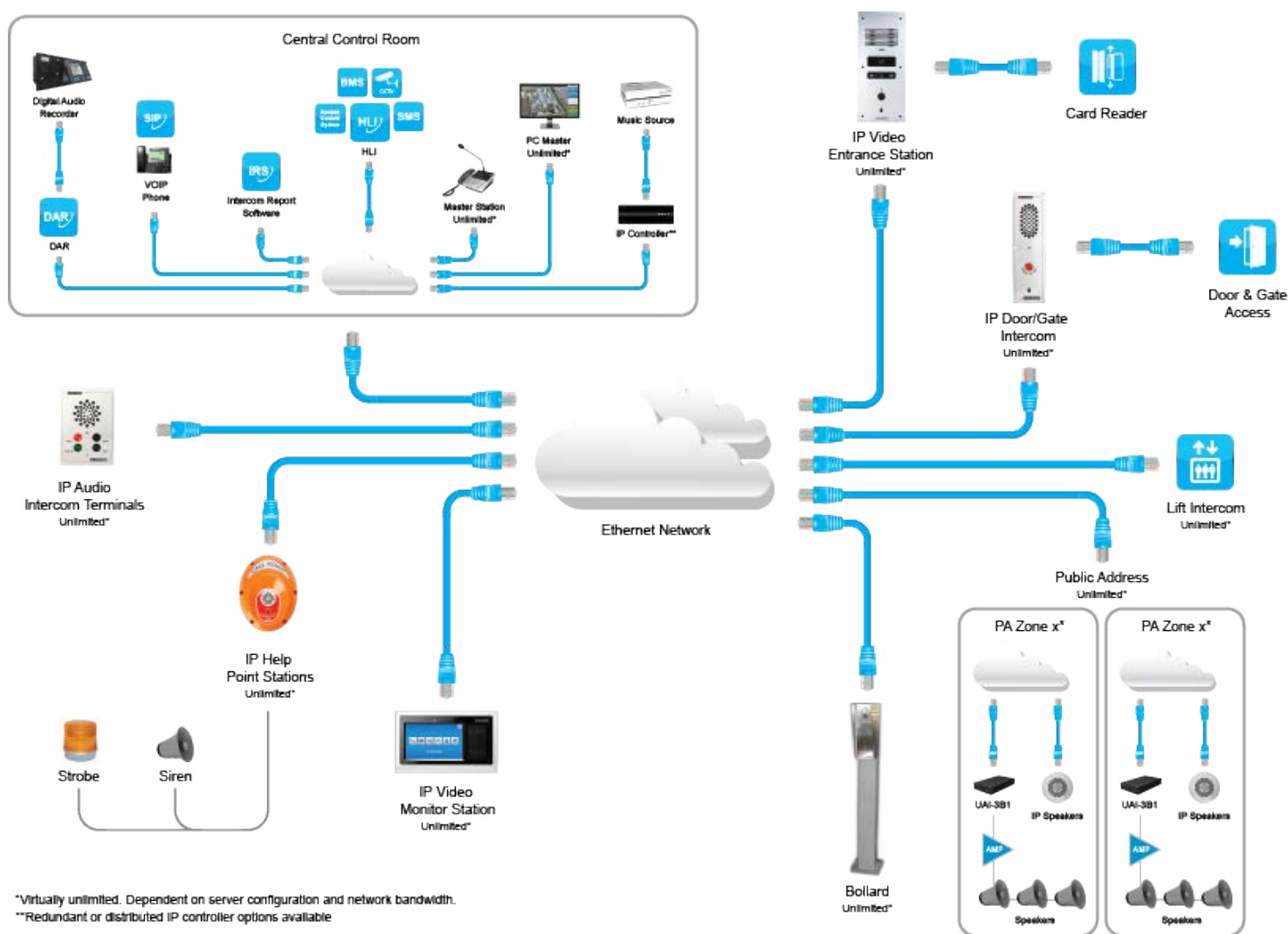
Jacques Technologies Pty Ltd

IP Commercial Communication System

IP COMMERCIAL COMMUNICATION SYSTEM

Jacques IP Commercial Communications solution provides protection from potential threats, emergencies and incidences in work environments. A Jacques commercial solution offers virtually unlimited intercom endpoints; including robust fire stair intercom, help point unit systems as well as a flexible public address system, all of which seamlessly integrate to many leading building management, access control and CCTV systems. Security personnel, within a commercial building, utilising a Jacques IP Communications System can protect assets and ensure the safety of all individuals within a complex.

SYSTEMDIAGRAM

Central Control Room

Digital Audio Recorder

DAR

SIP

VOIP Phone

IRS

Intercom Report Software

BMS

Access Control System

HLI

SMS

HLI

PC Master Unlimited*

Master Station Unlimited*

Music Source

IP Controller**

IP Audio Intercom Terminals Unlimited*

IP Help Point Stations Unlimited*

Strobe

Siren

IP Video Monitor Station Unlimited*

Ethernet Network

IP Video Entrance Station Unlimited*

Card Reader

IP Door/Gate Intercom Unlimited*

Door & Gate Access

Lift Intercom Unlimited*

Public Address Unlimited*

Bollard Unlimited*

PA Zone x*

UAI-3B1

IP Speakers

AMP

Speakers

PA Zone x*

UAI-3B1

IP Speakers

AMP

Speakers

*Virtually unlimited. Dependent on server configuration and network bandwidth.
**Redundant or distributed IP controller options available

Jacques IP video intercom, fire stair intercom and public address systems make communication within commercial buildings effortless.

SYSTEM SUMMARY

Jacques IP Communications System provides a reliable communication solution to the workplace. Our system can integrate to a building's existing CCTV or access control system via a High Level Interface (HLI) for simplified security management. Video entrance intercoms allow for simplified building access for visitors and allow calling to within the building where access can be granted. Carpark Help Point Units, fire stair and lift intercoms ensure help is available at the push of a button. Our IP PA system allows for a building to be divided into zones, so an announcement can be made to a specific floor or an evacuation alarm can be broadcast to the entire building.

WATCHVIDEO

SYSTEM FEATURES

SUPPORTED INTEGRATION

Jacques IP Communication Systems integrate via High Level Interface to various industry partners. Integration with building and security management helps to ensure a complete security solution.

ENVIRONMENTAL SPECIFIC FEATURES

Intercom devices fit for purpose – video entrance stations for sophisticated building entrances, stainless steel intercom terminals in fire stairs and eye-catching help point units in car parks.

CCTV CAMERA STREAMS

Third party IP CCTV camera streams can be selected & viewed on demand and in real time via the video monitor station or PC master station ensuring you know who is calling at building entrances, and who you are potentially letting into the building.

CONCIERGE OR DURESS CALLING

One-touch concierge or duress calling from video monitor stations directly to a predefined master station for prompt response.

SIP GATEWAY

SIP gateway between the Jacques IP Communications System and SIP telephony systems such as Avaya & Cisco ensures total building intercommunication & connectivity.

WARNING & EVAC PA

The Jacques IP PA system provides reliable sound quality, alarm tones, evacuation signals and verbal address ensuring orderly evacuation and information notification to the entire commercial site.

RELAY MODULES

Configurable relay modules exist on intercom terminals to activate external equipment – control doors, boom gates, lights or signal CCTV camera presets.

JACQUES AT WORK

SHOPPING CENTRES

The use of a Jacques IP intercom and public address system within a shopping centre environment provides centre management with the tools to manage one to one communication and mass communication within the one platform. Jacques IP PA system within shopping centres offers a live and pre-recorded message and broadcasting platform that is flexible, expandable, and easy to use while providing excellent audio quality.

CAR PARKS

A Jacques car park IP Communication System easily integrates with most commercially available network equipment and infrastructure. It is fully supported by leading CCTV, access control, telephony and building/security management systems. The Jacques system can integrate communication with bollard and boom gate intercoms as well as car park Help Point Units which connect directly to a central security control offering help, assistance and advice.

HELP POINT UNIT
HPU-5E2 | 51687, HPU-5E2i | 51688

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

The Jacques system can integrate communication with bollard and boom gate intercoms as well as car park Help Point Units which connect directly to a central security control offering help, assistance and advice.

Jacques audio intercom system provides an emergency calling solution for a building's fire stairs.

FIRESTAIRS

Fire stairs ensure the safety and security of all people within the building when rapid exit is essential. If a person becomes trapped in the fire stairs, during or after business hours, a single button intercom terminal located at each floor's fire door allows contact with the security office to request access to the floor.
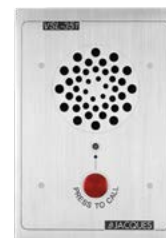
The communications system then allows the building's security staff to open any fire door through remote access, monitor the stairwell via integrated CCTV and communicate to the person via the intercom terminal or public address system.

MASTER STATION

IPM-360G | 51534

- Complete intercom call handling functions for offices and security rooms
- Public address functionality
  - Make live and pre-recorded announcements to all or individual floors of an office building
- Selection and playback of recorded announcements in different zones of a mall
- IEEE 802.3af PoE supported
- Backlit display for reliable viewing in dark conditions
- Trigger intercom relays for building access
- Options for gooseneck, handset and headset

INTERCOM TERMINAL

VSL-351+ | 51612

- IP audio intercom terminal for fire stairs
- Standard PoE powered (IEEE 802.3af)
- Two configurable relays
- Tamper detection & attempted device removal notification
- Automated testing of speaker & microphone
- Single call button
- Water and vandal resistant

Build your commercial intercom and public address system following these simple steps

COMMERCIAL SYSTEM

Begin with an Ethernet Network configured for QoS.

1

CONTROLLER & SOFTWARE

Choose a system controller & software packages capable of managing your system size and offer the functionality you require.

2

MASTER STATION

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

IPM-360 | PCC-650MX | VMS-750

3

INTERCOM TERMINALS

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

VES-75K | VSL-3xx | HPU-5E

4

PA FUNCTIONALITY

Choose your Public Adddress components to acheive the required functionality.

UAI-3B1 | Amplifiers | Speakers

5

ACCESSORIES

Choose your accessories. They provide additional functionality to your system.

ADAM Relay Module

+

OPTIONAL EXTRAS

Customisation of Graphical User Interfaces (GUI)
and/or
Integration with CCTV & Access Control Systems

1

CONTROLLERS & SOFTWARE

SYSTEM CONTROLLER MEDIUM
TCH-2MXH | 51660

- IP controller, up to 80 endpoints
- Available to administer most Jacques system software modules & interfaces
- Facilitates almost all core functions of the Jacques IP Communication System
- Supports high definition audio
- Fanless and low power consumption
- SATA hard drive

SYSTEM CONTROLLER LARGE
JSC-5L | 51814, JSC-5L-AEC | 51815

- IP controller, large, includes JCCP server software for intercom devices to make and receive calls, more than 80 endpoints supported
- Supports high definition audio
- SATA hard drive
- Segregated air-flow design for optimal unit cooling
- Acoustic Echo Cancellation Software (JSC-5L-AEC only)

SOFTWARE

Software modules* manage key functionality of the system and can provide additional functionality. Choose software packages to achieve system functionality requirements.

DAR

Echo cancellation for full duplex communication

Interface call audio to third party recording devices (digital, SIP or analogue)

Stream background music/entertainment through intercom devices & PA speakers

SIP GATEWAY

Intermediate interface allowing for integration of Jacques system with compatible SIP systems & devices

Implements RFC 3261-Core Session Initiation Protocol to transfer, convert & filter communication

Support for bridge calling allowing a Jacques device to dial multiple SIP devices however only allowing one to answer and perform a call

EVENT CONTROLLER

Provides simplified interfaces for the integration of external systems & products

Feature highly configurable rules to match system events, simultaneous event triggers, alarms & offline events

Standard handling of CCTV function

JAS

Facilitate pre-recorded PA announcements, tones & warning alarms across a Jacques IP PA system

Allows for the uploading of audio files for broadcast

Built timetables of announcements, bells & tones for broadcast at allocated times to select or all PA zones

Apply schedules to days, weeks or months according to a sites broadcast requirements

* Selection of software modules displayed in this brochure. Visit jacques.com.au for a complete list of software

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

VIDEO MONITOR STATION

VMS-750 | 51336, VMS-750H | 51432

- Receive text messages from building manager/concierge
- Missed caller image snapshot available when call is unanswered
- View CCTV footage
- Duress calling to predetermined recipient
- Privacy enable/disable to mute calling
- Relay control to let caller through a door or gate
- Intercommunication between devices
- Power saving mode when not in use

3

INTERCOM TERMINALS

VIDEO ENTRANCE STATION

VES-75K | 51335

- Attractive slimline design
- Wide angle camera
- Two configurable relays that can control lights, gate/door access etc.
- Insect resistant microphone/speaker
- 3.5" LCD screen
- Backlit keypad
- Call an unlimited number of master/monitor stations
- Relay enabled by entering a PIN code

INTERCOM TERMINAL

VSL-351+ | 51612

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HPU-5E2 | 51687, HPU-5E2i | 51688

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4

PA FUNCTIONALITY

UNIVERSAL AUDIO INTERFACE

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

- Public address interface for use in office buildings, shopping centres etc.
- Interface between Jacques' IP system & analogue devices such as a building's amplifier and PA system
- Interface between Jacques' 650 and 550 systems (hybrid)

5

ACCESSORIES

ADAM RELAY MODULE

6 Channel | CE382

- 6-ch DI, 6-ch RL, Ethernet-based smart I/O for lift control in office buildings and shopping malls
- Group configuration capability for multiple module setup
- Flexible user-defined Modbus address
- Intelligent control ability by Peer-to-Peer and CGL function
- Active I/O message by data or event trigger function

Jacques continues to be involved in many interesting and prestigious large scale projects in Australia, New Zealand, the Middle East, South Africa and South East Asia. We are continuing to expand our international reach, providing integrated IP communication systems across the globe.

ANALOGUE INTERCOM TERMINAL VSL-251

PRODUCT CODE 50330

FEATURES

Vandal resistant design

One-touch operation with hands-free communication, once call is established

SPECIFICATIONS

Speaker	1 x 8 Ω, 3 W
Speaker Amplifier	1 W
Max. Acoustic Output	88 dBSPL @ 1 m, 1 kHz (non-clipped) sine wave signal
Speaker Hole Size	42 x 4 – 7 mm Ø holes
Microphone	Electret condenser, omnidirectional, sensitivity -56 dB
Microphone Hole Size	1 x 2.5 mm Ø hole
Audio Bandwidth	160 Hz – 16 kHz, -3 dB
Control Buttons	1 x piezo switch, red, 19 mm
Auxiliary Functions	Optional 1 x relay NC/NO type - 24 V d.c. / 2 A max (DR-1)
Power Input	(12 – 32) V d.c.
Power Consumption	3 W max.
Operating Temperature	(0 - 50) °C
Operating Humidity	(10 – 95) % non-condensing
Cabling	Bus (daisy-chain) topology, up to 1 km depending on supply voltage, power cable gauge and distribution 1 x 4 pair Cat5/5e/6 (RS-485 + Intercom Audio) 1 x Figure 8 (2 conductor) 0.75 mm² minimum (Power) 1 x 2 pair individually screened 0.2 mm² (Auxiliary channels if required)
Configuration	Up to 255 VSL-251s addressed per bus, up to 8000 devices total in a hierarchical system
Dimensions (WxHxD)	125 mm x 180 mm x 58 mm 58 mm min. mounted depth
Weight	0.67 kg
Material	304 stainless steel (2 mm)
Finishes	Linish
Environment	Indoor and outdoor
Vandal Resistant	Yes, strong front panel, staggered speaker holes to prevent speaker damage
Mounting Options	Flush mount backbox (FWE-14), surface mount backbox (SWE-6\SWE-4SS), rainhood (SRH-1)
Mounting Holes	4 x 4.5 mm Ø screw holes
Fixings	4 x M4 security torx screws

ADDITIONAL RESOURCES

JACQUES

PRODUCT CATALOGUE

Press Intercom For Assistance

JACQUES
Future Proof Communications

Emergency

IP

Jacques Technologies Pty Ltd
Corporate Brochure

www.jacques.com.au

JACQUES
Future Proof Communications

IP Commercial Communication System
Whitepaper and Project References

www.jacques.com.au

JACQUES
Future Proof Communications

PA

IP Public Address System
Brochure

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