

# PUBLIC ADDRESS (PA) SYSTEM BROCHURE



# INTRODUCTION

Across public spaces, transit networks, and campuses, real-time voice communication plays a critical role in enhancing safety, managing operations, and responding to emergencies. The Jacques IP Public Address (PA) System delivers high-availability, software-driven audio communication that scales to any application—from a single terminal to multi-site city-wide deployments.

Built on IP technology and designed for integration with security, video, and access control systems, Jacques PA provides operators with full visibility and command from a single interface. Whether you need scheduled announcements, mass emergency notifications, or live public messaging, Jacques ensures clarity and reliability at every endpoint.



Clear, scalable, and Mission-Control communication





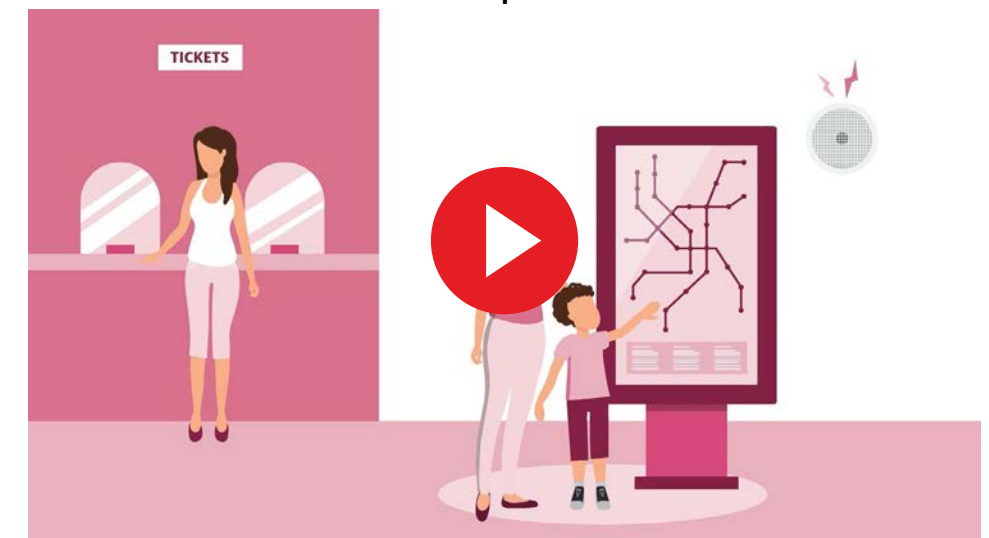
## SYSTEM OVERVIEW

Jacques' IP Public Address system delivers unified audio communication across single or multi-site environments using existing Ethernet infrastructure. Operators manage live and scheduled announcements through a customisable, map-based interface, with full control over zones, audio content, and event triggers.

Pre-recorded messages, tones, and alerts can be scheduled by time or calendar, while emergency notifications can be broadcast instantly via SMS, email, desktop alerts, and messaging apps. System events such as help point activation or tamper detection can trigger automated responses.

Designed for seamless integration with CCTV, access control, and building management systems, the platform supports dynamic zone control, real-time system monitoring, and scalable deployment—ensuring clear, reliable communication when and where it's needed most.

Watch our Public Address for Transport video



[vimeo.com/877363763/e0cd15028c](https://vimeo.com/877363763/e0cd15028c)

**Crystal clear audio, FOR EVERYONE**



# System features

## TRUE IP COMMUNICATION

Operates over IEEE 802 TCP/IP networks using PoE, allowing devices to transmit power, data, and voice over a single CAT5/6 cable.

## SUPPORTED INTEGRATION

Integration of the communication system to third-party security and safety systems allow for the analysis and reaction to system events. Integration via High Level Interface to many leading CCCTV, access control, and security and building management systems ensures a complete security solution.

[Learn more](#)

### High-Level Interface (HLI)

- Full interoperability with 3rd party systems (CCTV, access control, BMS, VMS)
- Compatible with Honeywell EBI, Gallagher Command Centre, SAAB OneView, Avigilon, Inner Range, and more
- Master station functions can be embedded within external software

### OPC UA & SCADA

- For integration with PLC, modern industrial automation, fire protection & control systems

### SIP Integration

- Supports bridge calling, multiple concurrent SIP calls, G711 codecs, and numerical prefixes for user/extension identification

## FLEXIBLE ARCHITECTURE

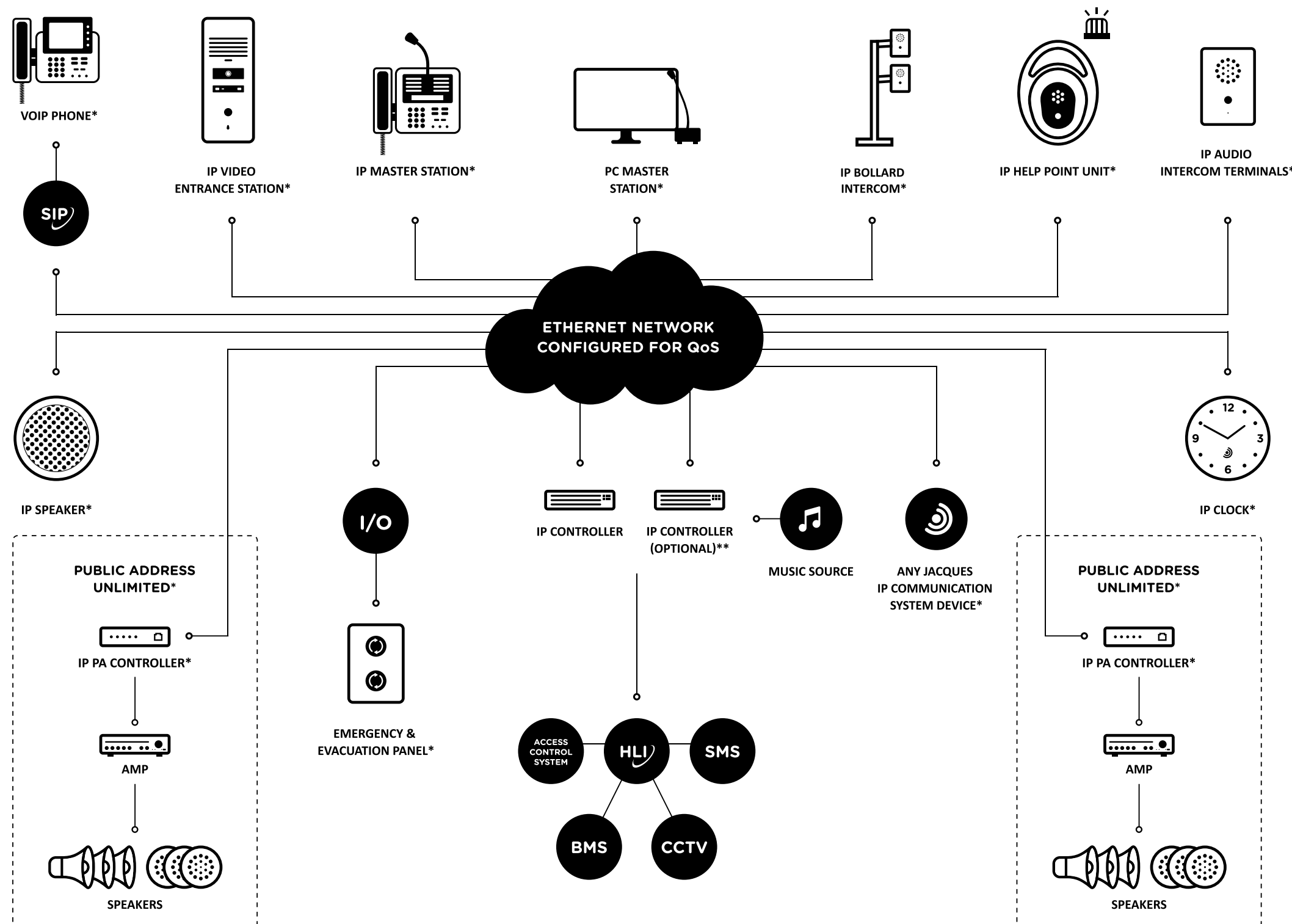
From small to large systems. An unlimited number of public address zones or endpoints (plus optional intercom & help point units) can be connected, integrated and managed. Call hierarchy and system topology ensures complete control over system design.

## INVESTMENT LONGEVITY

Continuous expandability ensures longevity. Digital communication operates over new or existing Ethernet networks allowing for additional public address (and intercom) endpoints to be added easily. Utilise existing analogue speaker & amplifier hardware. System configuration options are virtually endless to achieve the functionality required..

## SIMPLE INSTALLATION

IP intercom and PA devices connect to any standard PoE Ethernet port and support plug-and-play via CAT5/6.



\*Virtually unlimited. Dependent on server configuration and network bandwidth \*\*Multiple controllers available for redundancy or distributed options



# CORE FEATURES

## QUALITY AUDIO

Powerful audio software & quality MEMS microphone hardware together ensure quality audio, always. A powerful solution for achieving clear, interference-free audio required for critical communication.

## REDUNDANCY

IP system architecture supports both virtual and hardware-based redundancy for communication continuity. High availability software configurations ensure optimal up-time. This fault-tolerant design guarantees uninterrupted communication in public & multi-use spaces, ensuring continuous operation of safety systems. Instant failover between servers – should it be necessary.

## CENTRAL AND CONTROL MONITORING

Specialised call handling to and from multiple control rooms via hierarchical and/or peer to peer predefined call routing structures.

## ADVANCED ANALYTICS, RECORDING & REPORTING

Cutting-edge diagnostic and health monitoring features that provide real-time, 24/7 reporting on over 320 critical events, including configuration, call activity, device health, system health, and faults. The system controller continuously sends heartbeat signals to endpoints every 5 seconds, providing immediate visibility into any potential issues and ensuring problems are quickly detected and addressed. With advanced logging and reporting capabilities, the solution provides peace of mind for facilities with complex security requirements.

### Diagnostics and Self-Test

- Continuous self-testing of audio components and intercom buttons. Failures trigger system alarms and log reports to support duty-of-care requirements.

### Tamper Detection

- Built-in accelerometers and sensors detect device interference or removal, instantly alerting central control.

### Logging & Reporting

- Specialised Intercom Report Server (IRS) provides detailed reports & device analytics including call status, diagnostics, and acoustic performance.

Learn more in our [Diagnostics & Reporting Brochure](#)



**Clear and audible communication solutions for busy environments  
require dedicated, fail-safe equipment and expertise**



# ADVANCED FEATURES

## MULTIZONED PUBLIC ADDRESS

Communicate live and clearly across a city precinct or select areas at the touch of a button. Flexible PA zoning allows for the grouping of one, any or all zones to ensure the message is received by the intended recipients, without disrupting other zones. With the ability to pre-record common announcements for repetitive, on-demand usage saves time.



[vimeo.com/893954534](https://vimeo.com/893954534)

## ANNOUNCEMENT SCHEDULING

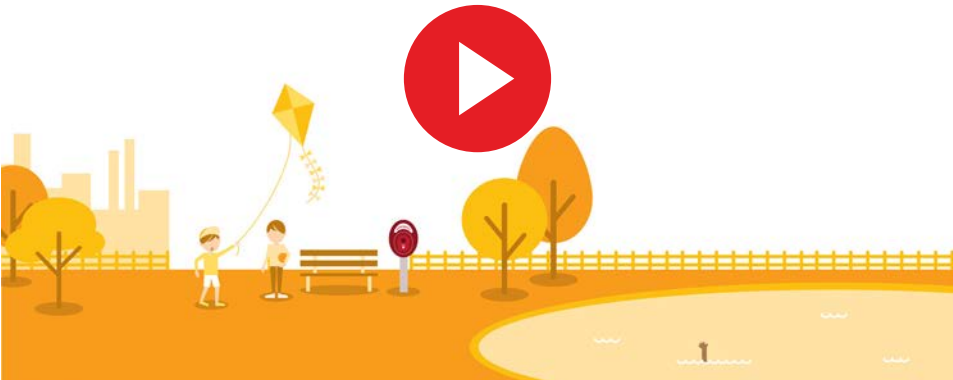
Announcements and tones can be planned and scheduled for automatic playback using a calendar-based interface. The system provides the flexibility to configure both simple and complex announcement files, enabling playback at specified times throughout the year and across defined geographic zones. This scheduling capability supports public safety messaging and can be used to remind the public of intended actions or prohibited behaviours.



[vimeo.com/877363782](https://vimeo.com/877363782)

## MULTI-SITE MONITORING

The intelligent system architecture, combined with integration support for third-party platforms, offers a comprehensive solution for multisite monitoring and control from a centralised location. Operators can effectively oversee multiple environments both visually and audibly through a unified, integrated public address platform. Situational awareness is enhanced by the ability to view associated CCTV footage while simultaneously managing live or scheduled PA announcements. This seamless integration ensures efficient communication and rapid response across complex environments.



[vimeo.com/878474105](https://vimeo.com/878474105)

## WARNING & EVACUATION

The public address system supports flexible zoning, allowing distinct areas within a site to be designated as individual PA zones. This enables operators to broadcast evacuation tones, warning alarms, and live or pre-recorded announcements to selected zones, multiple zones, or site-wide as needed. Emergency or evacuation messages can be triggered instantly via physical or software-based interfaces, ensuring rapid communication during critical events.



[vimeo.com/831351507](https://vimeo.com/831351507)

# BUILD YOUR SOLUTION

## Key components of the Jacques IP Communication System, with durability, flexibility, and functionality at the core

### CONTROLLERS

At the core of every Jacques IP system is a high-performance controller paired with modular software, developed in-house for secure, high-demand environments. This flexible solution supports both hardware and virtual server deployments.

### SOFTWARE MODULES

#### JAS

An audio scheduling tool for broadcasting tones, music, and messages across zones. Users can upload audio files, create daily, weekly, or monthly schedules, and manage broadcasts via a simple calendar interface.

#### Event Controller

Simplifying integration with external systems, this software enables configurable event triggers, simultaneous event handling, and alarms. Powerful “if-this-then-that” logic allows for the design of highly configurable rules to match system events and triggers to produce user-defined & site-specific outcomes. Audio and/or announcements can be manually triggered, time scheduled, or event triggered.

#### IRS

A sophisticated reporting module that automates system diagnostics, fault detection, and traffic monitoring for efficient maintenance and system management.

#### HLI

Integrate to building & security management, video management & access control solutions for a complete security solution.

#### SIP Proxy

Connect Jacques devices to SIP telephony systems via an interface that implements RFC 3261, enabling call and media transfer, conversion, and filtering between Jacques and third-party SIP systems.

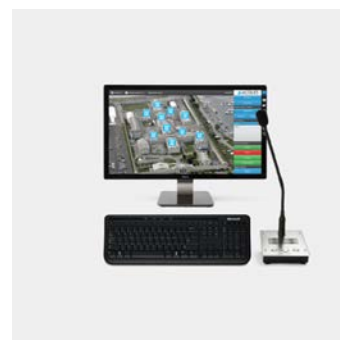
[JSD-0012 \(Controllers & Software Brochure\)](#)

### MASTER STATIONS

Built for continuous control room use, enabling operators to manage intercom calls, make live PA announcements, control doors and gates, and respond to alarms—ensuring reliable, high-volume performance every day.

#### PC GUI (PCC-4650) + J650UI Software

Dedicated Jacques PC master stations with configurable and flexible user interface allowing for the control and administration of PA communications and monitoring of faults and alarms.



[PCC-4650](#)

- Zone calling
- System monitoring
- Live and pre-recorded public address announcements
- System alarm notification
- Device monitoring
- Map or list view of endpoints
- Dynamic selection of endpoints
- Answer help point unit and intercom calls
- Integration of CCTV camera views to allow for complete audio/visual view

[JSD-0266 \(J650UI Software Suite Brochure\)](#)

#### IPM-4360



- Full duplex audio, gooseneck, headset, or handset options

[IPM-4360](#)

### PUBLIC ADDRESS

The multi-zone, flexible PA system supports live & scheduled announcements, alarms, evacuations, and audio entertainment. Intercoms integrate within PA zones for full facility coverage, with durable IP speakers built for correctional environments.

#### UAI-4000



- Digital PA zone controller with balanced line level audio input and output. Allows for the connection of an amplifier and analogue speakers for wide area coverage. Converts existing equipment into digital communication zone providing greater flexibility driven by advanced software.

[UAI-4000 | Jacques Technologies](#)

#### Smart IP Speakers



- IEEE 802.3af PoE powered with edge processing for intelligent data transmission
- Bi-directional audio transmission with echo cancellation capabilities
- Internal microphone for automated speaker output fault detection
- Configurable relay contact
- Tamper detection and device removal notification
- Ceiling or wall mount options available.

[SSS-4100 | Jacques Technologies](#)

**+ ADD Intercom & Help Point Units to the PA System.**

## THE TRUE, INTEGRATED IP COMMUNICATIONS SYSTEM, with endless possibilities

Learn more - [IP communication solutions: Intercom, PA, Help Point Units & more](#)

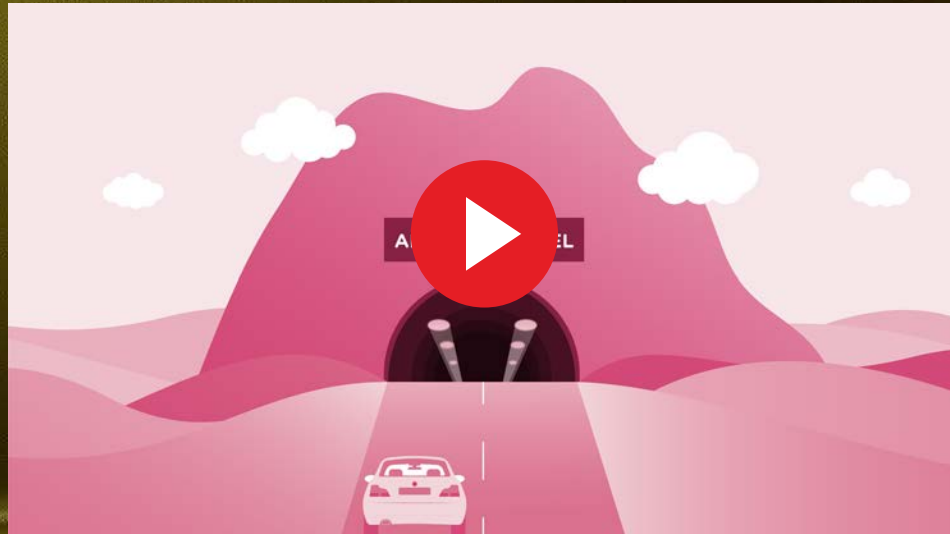


# SPECIALISED PA - TUNNELS

The Jacques tunnel communication solution, featuring purpose-built, tunnel speakers provide quality audio within tunnel environments, plus dedicated software and hardware components, and the extensive knowledge of our experienced audio engineers together; produce a high-quality PA and help point unit solution.

[Learn more in our Tunnel System Brochure](#)

Watch our Tunnel Solution video



[vimeo.com/709345055](https://vimeo.com/709345055)



## ACCESSIBILITY

In public spaces, ensuring accessibility to audible, visual, and mobility features within intercom and public address systems is paramount. Compliance with the Disability Discrimination Act 1992 (DDA) mandates equal access for all individuals, regardless of disability. Jacques integrated communication solutions prioritise inclusivity, offering products designed to accommodate diverse needs. Across various sectors (including healthcare), accessibility enhances safety, security, and customer confidence. Jacques' solutions cater to those with mobility, auditory, or visual impairments, ensuring everyone can easily access assistance.

Customisation options, from visual signage to product adaptations to engineering services relating to induction loop amplifier inclusions guarantee a comprehensive and tailored communication solution. With Jacques, healthcare precincts and hospitals uphold accessibility standards, fostering a supportive and inclusive environment for all.

[Learn more in our Accessible Solution Brochure](#)







## INDUSTRY APPLICATIONS

### SAFE PUBLIC SPACES

- Broadcast live or scheduled messages in parks, malls, and public precincts
- Deter anti-social behaviour with pre-recorded warnings
- Integrate with city surveillance networks and operations centres
- Accessibility options

### TRANSPORT & TUNNELS

- Direct platform and carriage communication
- Emergency broadcast in tunnels and confined spaces
- Integrated intercoms and help point units at platforms and stations

### EDUCATION & CAMPUSES

- Campus-wide audio coverage with classroom-level zoning
- Safety alerts and public information broadcasts
- Flexible and mobile scheduling, suitable for staff with varied access



# FOR REAL PROJECTS

## CITY COUNCILS, BRISBANE

In October 2013, a Jacques Public Address system was deployed across Queen Street Mall and Fortitude Valley to enable rapid communication from central control. The system supports live, pre-recorded, and scheduled announcements to one, multiple, or all zones, operating across both sites via a unified network.

Integrated with the CCTV system, it allows security personnel to issue verbal warnings, deterring inappropriate behaviour by reinforcing surveillance awareness. Operators can trigger a sequence of pre-recorded alerts through the City Safe GUI, including warnings that surveillance is active and that police have been or will be notified.

Additionally, the system delivers behaviour-related messages, such as smoking prohibitions, reminding the public that their actions are being monitored and must comply with local laws.

## PARK PRECINCT, IPSWICH

The Orion Lagoon in Springfield, a popular public water recreation facility spanning 3.6 km, prioritises visitor safety through the integration of a comprehensive Jacques IP Public Address (PA) system. This system enables the broadcast of background music, public safety messages, and emergency warnings across the site – ensuring clear and immediate communication with park-goers.

Lifeguard towers are equipped with Jacques intercom terminals, each fitted with a detachable microphone, allowing on-duty lifeguards to make live public address announcements directly from their stations. This enhances responsiveness and supports effective crowd management.







# PROJECT REFERENCES.

## Australia

- Adelaide Shopping Centre
- Adelaide St Tunnel, Brisbane
- Air Services Australia, various sites
- BCC Community Gardens
- Blacktown City Council
- Brisbane Busways
- Brisbane City Council
- Broome Port Authority
- Butler Train Station
- Canberra Airport
- Casey Central Shopping Centre
- City Safe, Queen Street Mall
- Coles Head Office
- CSIRO Investigator Research Vessel
- Darwin International Airport
- Darwin Port
- Flinders Port
- Frankston Aquatic Centre
- Freemantle Ports
- Funan Mall, SG
- Gladstone Ports
- Gold Coast Airport
- Goodwill Bridge
- Hamilton Railway Station
- Hillside Rail
- Hobart Airport
- Ipswich City Council
- Kawana Shopping Centre
- Kings Park
- Kurilpa Bridge Brisbane
- Liverpool Catholic Club
- Mackay Port
- Melbourne Airport
- Melbourne Convention Centre
- National Gallery of Victoria
- Neville Bonner Bridge
- New South Wales Rail
- North Quay Rail Terminal
- ORICA Port Headland
- Pacific Fair Shopping Centre
- Parramatta City Council
- Parramatta Tunnel
- Perisher SkiTube Train
- Perth Airport Car Park
- Perth Rail
- Port of Melbourne
- Port of Portland
- Queen St Busway
- Queen's Wharf Brisbane
- Queensland Alumina Limited (QAL) Wharf
- Riverwalk (Brisbane)
- Robelle Domain
- Robina Town Centre
- Roma Street Parklands
- Southbank Parklands
- Sydney Airport
- Sydney Trains T1
- Taronga Zoo
- Tasmania Ports
- Tasmania Rail Yard
- Toowong Bus Depot
- Webb Dock
- Wellington City Council
- West Connex Tunnel
- Western Sydney Airport – Border Force
- Wollongong Railway Station

## International

- Bukit Bintang City Centre, MY
- Bus Rapid Transit, MYS (BRT Sunway / Bus Rapid Transit Sunway, MY)
- Christchurch Airport, NZ
- Dubai Mall, UAE
- East Ledang, MY
- IKEA Johor Bahru, MY
- IKEA Mytown KL, MY
- Johor Bahru Port Authority, MYS
- Kuala Lumpur City Centre Park, MY
- Mall of Oman, OM
- Wellington Airport Tunnel, NZ

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