

# Intelligent Security Video Door Phone – i31

The best choice for SIP Video Door Phone



Office



School



Airport

Backed by 10+ years of technology development and product designing, the i31 offers next generation of entry control and monitoring. The i31 combines IP technology with industry standards for access and physical security to deliver a system that improves communication for tenants, guests and visitors. The i31's flexibility, ease of use and simple installation makes it ideal for enhancing security posture in schools, offices, and other public facilities.



### SIP

The most popular and compatible standard protocol - SIP - enables delivery of worry free communication and connectivity.



### Advanced Protection

Enclosure designed on International Protection (IP) markings to protect against intrusion – accidental or intentional - waterproofed to IP65 and anti-collision up to IK10.



### HD Video

The 1280x720p (720p – progressive scan) camera produces vibrant high-quality HD video and captures motion effortlessly.



### HD Voice

High definition voice using wideband G.722 coding produces clearer sound quality and extends the frequency range.



### Noise Reduction

The embedded processing module reduces environmental noise and improves voice recognition up to 5 meters (approx. 16 feet).



### Anti-tamper

Alarm sounds if/when cover is removed from the housing and reports the action to the control center.



### Multi-function

The system is capable of performing multiple functions, i.e. video intercom and door phone and single device paging, and can be configurable with additional features.



### Wide Range temperature adaptability

The system design adapts to operating under various environmental conditions and temperatures (supports temperatures ranging from -40 to +70 Celsius.)

## Generic

- 2 SIP Lines
- PoE Enabled
- Full-duplex speakerphone (HF)
- Numeric keypad (Dial pad or Password input)
- Intelligent DSS Keys (Speed Dial/intercom etc)
- Integrated Noise Reduction with dual MICs
- Omnidirectional pickup
- 1 embedded indoor switch interface
- 1 embedded door switch relay
- 2 embedded short-circuit output relays(optional)
- Embedded anti-dismantlement alarm
- External Power Supply
- Record voice and video during calls(optional)
- Status indication with icons: door opened, talking, incoming calls, network on/SIP registration on
- Access control-by call, code, RFID card, indoor switch
- All in ONE-door access, intercom and paging service
- Dusty free on the stainless panel,water proof followed by IP65,and mechanical design for IK10 approval, CE/FCC certifications
- Wall-mount/In-Wall installation

## Call Features

- Voice/video Intercom
- Speed Dial(speed dial key)
- Auto-Answering (per line)
- Voice Message (on server)
- Barge in and calls switched automatically
- Local 3-way Conference
- Hotline

## Phone Features

- High Quality video calls
- Support SIP 2.0 and related RFCs
- Call log (dialed/incoming/missed)
- Open Door Logs
- Support RFID Card issues (1999 entries)
- Programmable DSS keys
- Network Time Synchronization
- Action URL / Active URI

## Audio

- Wideband CODEC: G.722
- Narrowband CODEC: G.711a/u, G.723.1, G.726-32K, G.729AB, iLBC, AMR
- Full-duplex Acoustic Echo Canceller (AEC) – Hands-free Mode, 128ms tail-length
- Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE) / Noise Reduction (NR)
- Packet Loss Concealment (PLC)
- Dynamic Adaptive Jitter Buffer
- DTMF: In-band, Out of Band (RFC2833) / SIP INFO
- Omnidirectional pickup: pickup distance 5 m

## Video

- Video codec: H.264 / H.263
- Image codec: JPEG/PNG/BMP/GIF
- Video format: MP4/3GP/FLV
- Video call resolution: QCIF / CIF / VGA / 4CIF / 720P
- Bandwidth selection: 64kbps~4Mbps
- Frame rate selection: 10~30fps

## Networking

- 802.3af PoE
- IP Configuration: Static / DHCP / PPPoE
- Network Access Control: 802.1x
- VPN: L2TP / PPTP / IPSec
- VLAN: 802.1p/q
- QoS: DSCP

## Protocols

- SIP2.0 over UDP/TCP/TLS
- RTP/RTCP/SRTP
- STUN
- DHCP
- PPPoE
- 802.1x
- OpenVPN
- SNTP
- FTP/TFTP
- HTTP/HTTPS
- TR069

## Deployment & Maintenance

- Auto-Provisioning via FTP/TFTP/HTTP/HTTPS/DHCP/TR069/SIP PNP
- Web Management Portal
- Web-based Packet Dump
- Configuration Backup/Restore
- Entry Log Export
- Access Table Export/Import
- Firmware Upgrade
- Syslog (include Open Door Log)

## Physical Specifications

- Keypad: 13 keys, including  
12 Standard Phone Digits keys  
1 Hands-free key or DSS Keys (Speed Dial)
- 1 10/100/1000BASE-T RJ45 Ethernet interface, Auto-MDIX
- PoE: 802.3af, Class 3
- Main Chipset: Freescale quad cores 1GHz CPU
- SDRAM : 1GB DDR3
- Flash : 4GB
- TF card : embedded 32GB
- Camera: 1280 x 760, CMOS
- Passive Switch(short-circuit output): Normally Open and Normally Closed highest at 30V/1AAC/DC
- Active Switched Output: 12V/700mA DC
- RFID/IC Card : EM4100(125kHz),MIFARE ONE(13.56MHz), NFC(optional)
- Audio Amplifier: 3W
- Cables: CAT5 or better
- Power Supply : 12V±15%/1A DC or PoE
- Shell Material: Aluminum Cover and Cast-Aluminum back case
- Protection level: IP65 and IK10
- Storage Temperature:-40~70°C
- Working Humidity: 10~90%
- Overall Dimension: 223 x 130 x 74mm (W x H x L)
- Package Weight:1.85KG

## Compatibility

