

## Intelligent Security Intercom – i12

The best choice for SIP intercom



Single button



Dual buttons



Safe and sound city



Schoolyard intercom



Museum intercom

Fanvil i12 series SIP intercom devices, carrying Fanvil's 10+ years industrial experience in technology and product design, Combing IP technology together with industrial intercom perfectly. i12 series SIP intercom can be easily configured in varies application scenarios like bank, schools, mining, cities, etc.



**SIP**  
Designing in the most popular communication standard protocol - SIP, you needn't worry about compatibility, vendor selection and alteration any more.



**Advanced protection**  
Strictly follow the high standards of international protection grade, waterproof to IP65, anti-collision reaches IK10.



**HD Voice**  
Wonderful aural enjoying with wideband G.722 coding.



**Noise Reduction**  
Specific processing module for environmental noise reduction. Meanwhile, support long-distance pickup as far as five meters.



**Anti-tamper**  
Alarming as long as the cover aparts from the housing, meanwhile, reporting to the control center.



**Anti-stamp**  
In-built anti-stamp nets, to prevent malicious damage.



**Security linkage**  
Two short-circuit input interfaces and two short-circuit output interfaces, safe isolation circuits designed to prevent miss connections.



**Wide range temperature adaptability**  
Applicable temperature ranging from -40 to +70 degrees, adapting to all kinds of harsh environments.



**Generic**

- 2 SIP Lines
- PoE enabled(Power over Ethernet)
- Full-duplex speakerphone
- Intelligent DSS Keys (Speed dial)
- Wall-mount installation
- Special integrated noise reduction module
- Omnidirectional voice pickup
- 2 embedded short-circuit input interfaces
- 2 embedded short-circuit output interfaces. Support 4 controlled events: remote DTMF; remote server's commands; interaction with short circuit input; talking status
- Output interface for active speaker
- Audio record output interface
- External Power Supply
- Multicast
- All in ONE: door access, intercom and paging service
- Industrial standard certifications: IP65, IK10, CE/FCC

**Call Features**

- Intercom
- Speed dial(speed dial key)
- Auto-answering (per line)
- Voice message (on server)
- Local 3-way Conference

**Phone Features**

- Call log (900 entries, in/out/missed)
- Programmable DSS keys
- Network time synchronization
- Action URL / Active URI

**Audio**

- Narrowband CODEC: G.711a/u, G.723.1, G.726-32K, G.729AB
- Wideband CODEC: G.722
- Full-duplex Acoustic Echo Canceller (AEC) – Hands-free mode, 96ms 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 up to 300ms
- DTMF: In-band, Out-of-Band – DTMF-Relay (RFC2833) / SIP INFO
- Omnidirectional voice pickup: pickup distance to 5 m

**Networking**

- Physical: RJ45 Ethernet Jacket x2: Network x1 (802.3AF POE Enabled), LAN x1 (Bridged to Network)

**Compatibility**


- IP configuration: Static / DHCP / PPPoE
- Network access control: 802.1x
- VPN: L2TP (Basic Unencrypted) / OpenVPN
- VLAN
- QoS

**Protocols**

- SIP2.0 over UDP/TCP/TLS
- RTP/RTCP/SRTP
- STUN
- DHCP
- 802.1x
- L2TP (Basic Unencrypted)
- 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
- Firmware upgrade
- Syslog

**Physical Specifications**

- 1 or 2 Hands-free keys or DSS Keys (Speed dial)
- RJ45 Ethernet Jacket x2: Network x1 (802.3AF POE enabled), LAN x1 (Bridged to network)
- Main chipset: Broadcom
- Passive switch(short-circuit output): normally open and normally closed highest at 30V/1AAC/DC
- Audio Amplifier: 2.5W
- Output interface for active speaker
- Audio record output interface
- 2 embedded short-circuit input interfaces/2 embedded short-circuit output interfaces
- Speaker: 2W/4Ω
- Cables: CAT5 or better
- Power supply : 9~16V/1A DC or PoE
- Shell material: Aluminum cover and back case
- Protection level: IP65 and IK10
- Working temperature:-40~70°C
- Storage temperature:-40~70°C
- Working humidity: 10~90%
- Overall dimension: 195x120x39mm (W x H x L)
- Package dimensions: 260x165x62mm (W x H x L)
- Package weight: 0.85KG

