SIP ID-2900

ID control

by JNT

SIP • Access Control • Situational Function • Face Recognition

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The ID-2900 is more than just a video intercom. It is a multifunctional communicator with 7-inch large touch screen that can play a unique role in different building situation . With its Premium touch display, built-in card reader and 2 cameras (3MP & 5M) , ID-2900 is the most complete and cost-effective solution for demanding applications.

ID-2900 is the market's most cutting-edge IP video door intercom featuring Android 5.1 OS that provides audio and video communication with master station or apartment monitors via SIP protocol with OnVif and Wiegand interface for the built-in reader.

It is a PoE device with IP65 and vandal-proof perfectly suitable for both indoor and outdoor installation. It enables easy monitoring of an entrance area and convenient entry control.

The ability of granting or denying access based on talking to, and seeing your visitors in person, gives you a true sense of security and great peace of mind. Especially for a business, it eliminates the need for personnel to be physically stationed at the door/gate, which improves productivity and frees employees to work on other things. J-2900 can be utilized to different display layout for different situation such as fire , emergency, evacuation and upon customer request.

Highlights :

❖ Stylish design with thin profile and small footprint
❖ 7" capacitive touch screen with energy saving mode
❖ 2 Cameras : 3MP and 5MP
❖ OnVif / SIP / Wiegand
❖ Powered by PoE or external source

General Technical Information

Physical Features :

- Body material: aluminum panel
- Display: 7" IPS LCD capacitive touch screen
- RAM / ROM: 2GB / 16GB
- Camera 1: 3MP pixels with IR Sensor automatic lighting
- Camera 2 : 5MP
- Relay Input : 3 , Relay Output : 3
- Card reader: 13.56MHz & 125kHz
- RS485 & Weigand port
- IR Sensor
- Water-proof & Dust-proof: IP65
- Vandalism rating: IK06
- G-sensor for tamper alarm
- Installation: flush mounting or wall-mounting
- Dimensions: 324x130x27 mm

SIP Endpoint :

- SIP v1(RFC2543), SIP v2(RFC3261)
- Audio codecs: G.711a, G.711μ, G.722
- Video codecs: H.264
- Echo Cancellation
- Voice Activation Detection
- Comfort Noise Generator

Video :

- Resolution: up to 1080p
- Maximum image transfer rate: 1080p - 30fps
- High intensity LEDs for picture lighting during dark hours

Networking :

- 10/100 Mbps Ethernet connection
- DHCP Client or Static IP
- Network-Time-Protocol

Door Entry Feature :

- Android OS 5.1 for any 3rd party software or customization
- Internal DPDT relay for controlling a door opener
- Relays controlled individually by DTMF tones or messages
- Multi-way Unlock: IC Card, and Pass Number
- G-sensor for self-defense alarm
- Volume control for speaker
- AGC : Automatic Gain Control for microphone
- Camera permanently operational, not just during calls
- White balance: auto
- Viewing angle: 3MP camera -120°; a second 5MP camera - 60°
- Auto-night mode with LED illumination
- Minimum illumination: 1LUX (without LED illumination)
- Max call length setting

Application Scenarios :

- Office door phone with IP-PBX or SIPazon
- Remote Intercom via SIPazon
- Apartment / flat intercom with door access control
- Elevator Lobby and Refuge Intercom
- Security Intercom

❖ Three -Year Warranty
❖ Part Number : **ID-2900**

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Situational Response Layout

Due to the fact that in today buildings different subsystem are working as integrated sub-systems , ID-2900 has unique possibility of responding to different situation accordingly such as fire, shooting , emergency evacuation and so on. It is also possible to utilize ID-2900 as 3-in-1 package for 3 part of any secured door with Intercom, card reader and PIN keypad.

Emergency Mode :

Exit Direction , Assembly Points Sign and Access Control Mode :

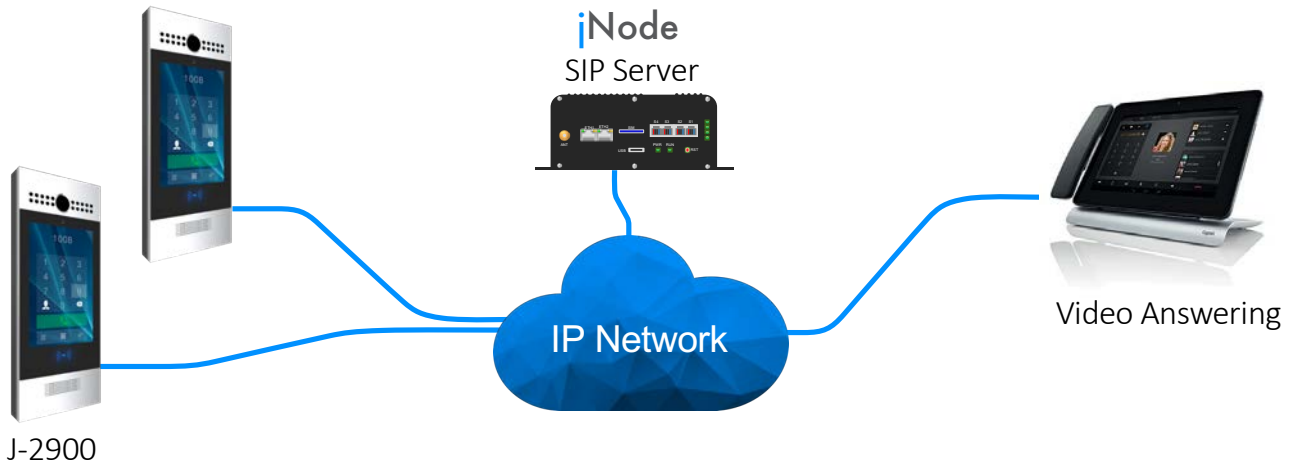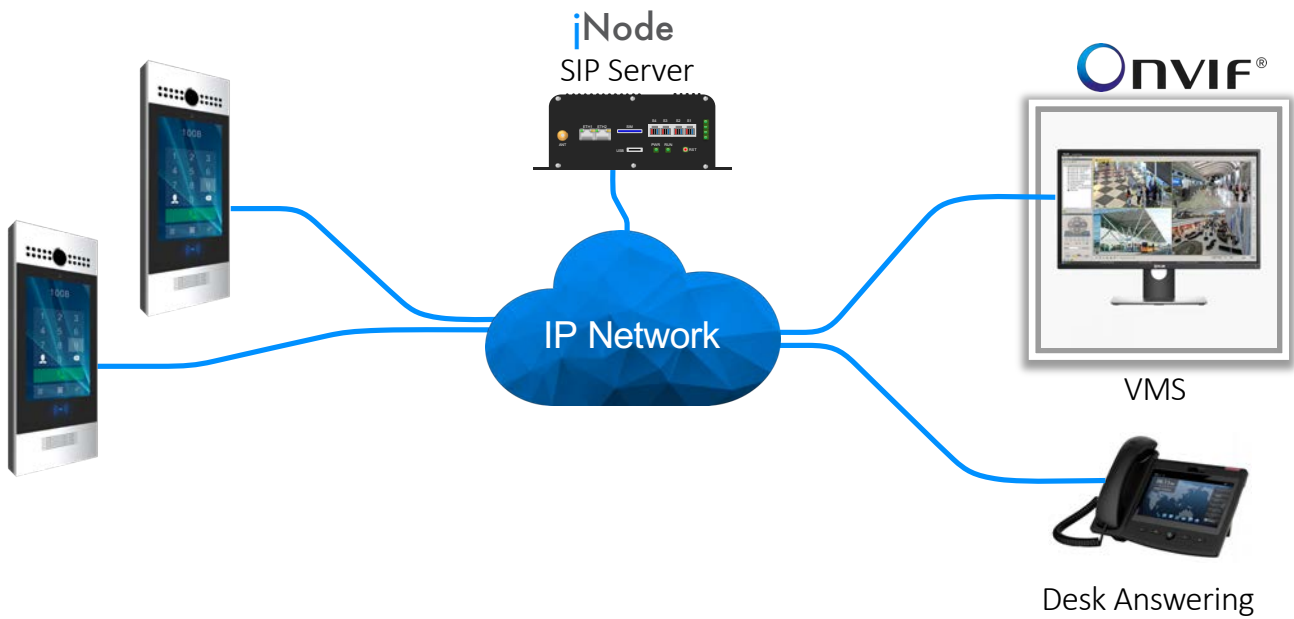## Elevator Emergency , Fire , Evacuation and Fireman Mode :
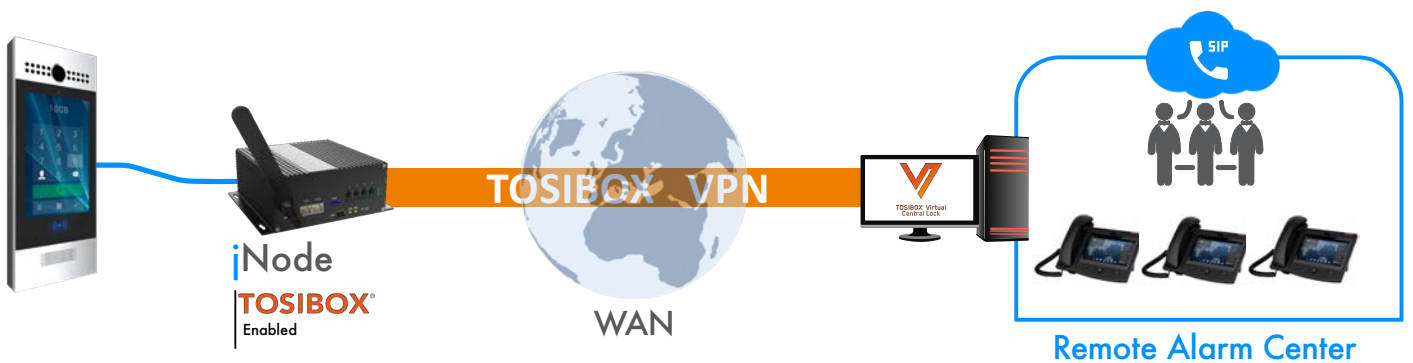

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System Examples :

1-Stand Alone System / SIP

¡Node
SIP Server

IP Network

Video Answering

J-2900

2-VMS Model / SIP + OnVif

¡Node
SIP Server

IP Network

ONVIF®

VMS

Desk Answering

3-Remote Call Center via TOSIBOX VPN

¡Node
TOSIBOX®
Enabled

TOSIBOX VPN

WAN

Remote Alarm Center

System Examples :

4-With JNT ID camera solution

¡Node
SIP Server

OCR

ONVIF

API/SDK

VMS
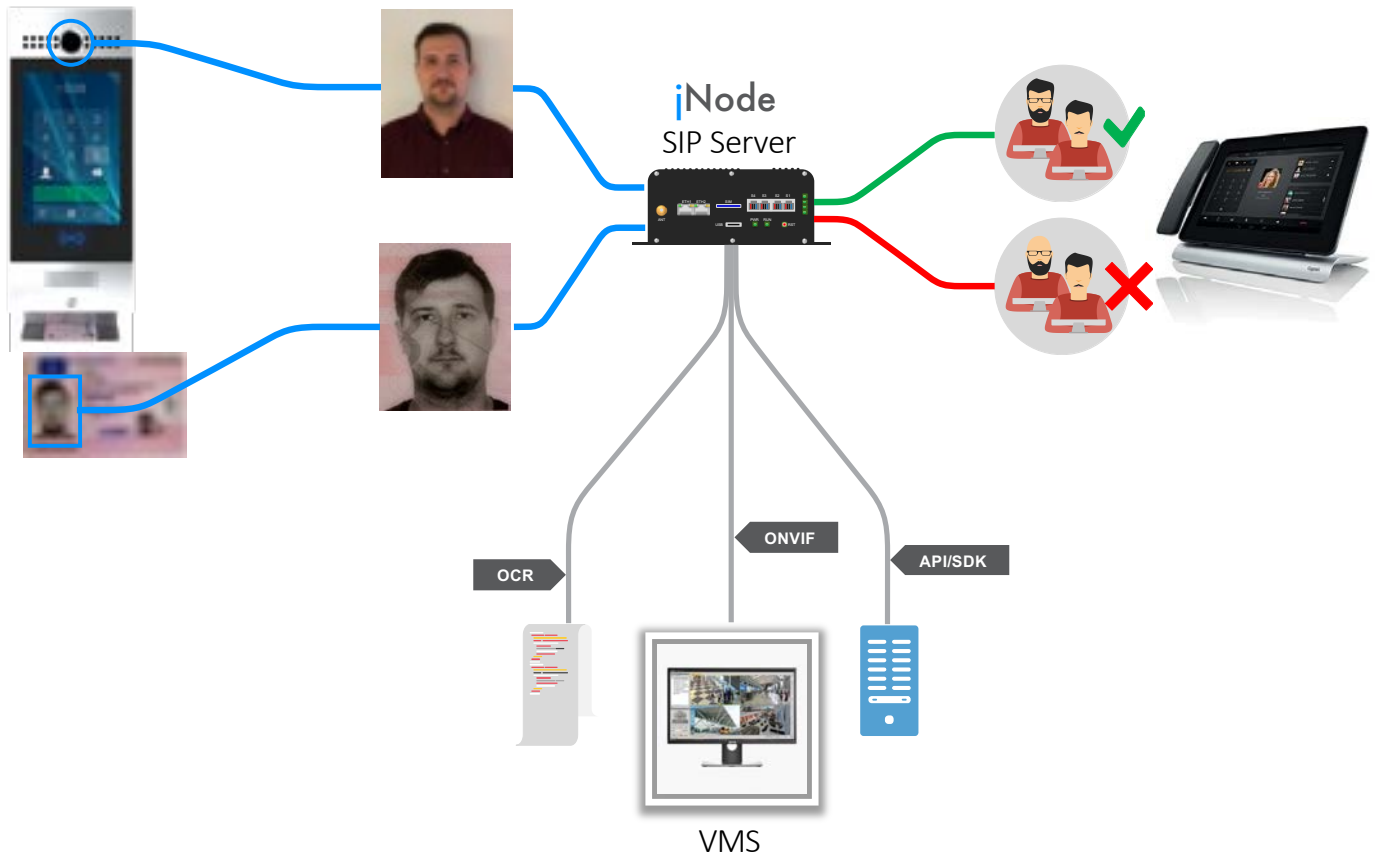
Ai : Advances **ID Verification**
Does the person in front of door look like his ID card's photo ?

It often happens that visitors live image on video intercom is different from their ID card photo. They may have different physical appearance or age difference . Result is that security guards can not ensure the right card holder is at the door or gate.

Our solution is **ID Verification** in which a snap shot from camera of intercom will be compared with ID card photo in order to verify right card holder. It is near-real-time image processing in less than 0.5 sec with high accuracy of 99%.

In this way, security guard wouldn't have to look at ID camera video , result of this comparison will be notified to answering station or API/SDK to 3rd party real time.

It is also possible to add **OCR** module to read name, ID number or other details and convert them into text in order to store details in database with timestamp . This option is well suited and has added value for PSIM systems where all access historical data are stored.

System Examples :

5-Elevator Application
When there is an emergency or fire situation J-2900 plays a vital role in elevator application such as lobby and main landing floor device.

Disable Help , Fireman Intercom , Safe Escape Route modes are the most common usage for elevator while maintaining connectivity with trapped passengers in the elevator car .
As well as interfacing to interconnect to other systems in the buildings .

iNode
TOSIBOX®
Enabled

SIPazon
Server

IP Network

2 wire , Elevator Travelling cable

2xPictogram
EN81-28
False Alarm Filtering

FALSE ALARM

COP

iPhone

Layout change depending on situation

DANGER
DO NOT USE LIFT
FIRE ALARM IS ACTIVE

DO NOT USE LIFT

DO NOT USE LIFT

EMERGENCY EXIT