

Smart IP Video Intercom

SIP-D26V

User Manual



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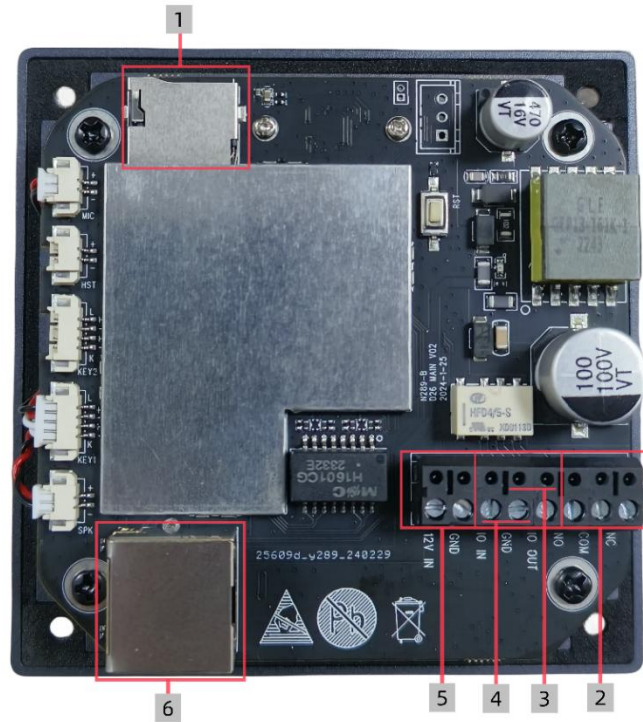
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1. Overview

The SIP-D26V is a smart IP video intercom designed for two-way audio communication over IP networks. It is compatible with SIP & ONVIF protocols, enduring seamless integration with VoIP systems and security networks. The device is equipped with echo cancellation, automatic gain control, and noise reduction features to ensure clear audio quality, complemented by 2M pixel camera for high-definition video. The inclusion of a TF card slot allows for convenient storage of recorded footage. It supports PoE power supply and has a robust alloy shell, making it both durable and easy to install. With its comprehensive specifications and features, the SIP-D26V is an excellent choice for modern communication needs in secure environments.



2. Interface Description



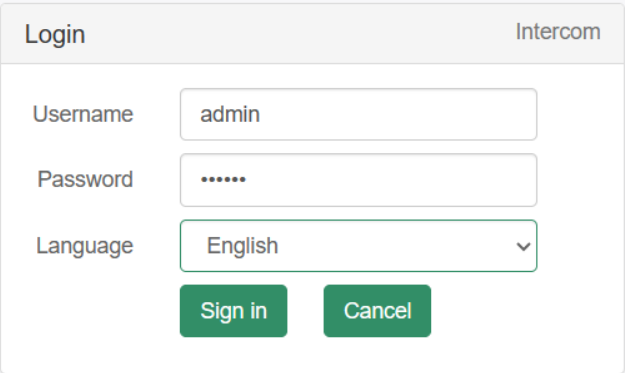
1	SD card Interface	Video storage
2	Relay	NC, COM, NO
3	IO OUT	
4	IO IN	
5	DC power in	12V in
6	POE	802.3af

3. Web Configuration

The web configuration encompasses all function settings. When both the device and your computer are connected to the same network, please open a browser and type in `http://192.168.5.200`. Then, log in using the default username and password provided below.

Username: admin

Password: tm1234



The screenshot shows a web browser window with a light gray background. At the top, there are two tabs: 'Login' (active) and 'Intercom'. Below the tabs is a white login form. The form contains three input fields: 'Username' with the text 'admin', 'Password' with six dots, and 'Language' with a dropdown menu showing 'English'. Below these fields are two green buttons: 'Sign in' and 'Cancel'. Below the login form, there is a green link that says 'Forgot Password?'.

3.1 Status

You can access the firmware version, available space, and status of two SIP accounts for the SIP-D26V. Additionally, you can locate current network information such as Mac address, IP address, gateway, and more.



Status

Sip Setting >

Basic Setting >

Network Setting >

Advance Setting >

System >

Status

Device Time2024-03-02 08:19:35

Device ID5034D468287AA30C

Firmware VerD26V-V1.0.23

Free Space4072KB

SIP1 StatusNONE

SIP2 StatusNONE

Network

MAC AddressA2:C0:A4:3C:46:A1

IP Address192.168.5.233

Subnet Mask255.255.255.0

Gateway192.168.5.1

Primary DNS218.85.152.99

Secondary DNS218.85.157.99

Refresh

3.2 SIP Setting

3.2.1 SIP Account

Each device supports two SIP accounts. Fill in the SIP extension messages in the provided blanks, and save the configuration. Afterwards, you can check whether it successfully registers on the “Status” page or not.

Outbound Proxy: Support to set outbound server, choose Disable or Enable.

Expire Time: Set the expire time registered account information.

Ringing Tone: 10 users upload media files.

Auto Answer: Answer immediately and answer delay when a calling income.

Encryption: Support SRTP or None

Account	Account 1	NONE
User Name		
Auth ID	6004	
Password	****	
Display Name	6004	
Server Host	192.168.5.212	
Server Port	5060	
Outbound Proxy	Disable	
Expire Time	180	Seconds
Ringing Tone	Custom	
	440/2000,0/4000	
Auto Answer	Answer Delay	
Delay Time (0 - 600)	2	Seconds
Encryption	None	

Save

3.2.2 SIP Advanced

SIP Protocol: UDP, TCP, TLS.

Audio Codec Setting: Four audio codes to compatible with major audio sources.

Video Codec Setting: Now only support H264 format.

SIP Protocol	UDP
Audio Codec Setting	☒ OPUS ☒ G.722 ☒ G.711U ☒ G.711A
Video Codec Setting	☒ H264

Save

3.3 Basic Setting

3.3.1 Audio Setting

Volume: Adjust volume at 0-100.

Amp Auto OFF: It's set defaulted as ON, then there is no noise went not broadcasting.

Jitter Buffer: To make the audio more stable.

HPF: High Pass Filter

NR: Noise Reduction

Volume (0-100)	60	
Amp Auto OFF	YES	▼
Jitter Buffer (60 - 2000)	180	ms
HPF	☐	
NR	☐	
Save		

3.3.2 MIC

Gain: Manual set, four option: none, low, middle, high.

Volume: Adjust MIC volume at 0-100.

AEC (acoustic echo canceling): To make a perfect sound quality.

AGC (automatic gain control): Three option: low, middle, high.

HPF: High Pass Filter

NR: Noise Reduction

Gain	None	▼
Volume (0-100)	60	
AEC	☒	
AGC	☒	
AGC Target	Middle	▼
HPF	☒	
NR	☒	
NR Level	1	▼
Save		

3.3.3 Media File

You can upload 10 media files as customers' demands: music, announcement, bells, etc.

#	Name	File
1	userfile1	bell1.mp3
2	userfile2	
3	userfile3	
4	userfile4	
5	userfile5	
6	userfile6	
7	userfile7	
8	userfile8	
9	userfile9	
10	userfile10	

3.3.4 Video Setting

Display: Manual set and default set.

Brightness: <input type="range" value="85"/>	Contrast: <input type="range" value="70"/>
Saturation: <input type="range" value="64"/>	Sharpness: <input type="range" value="104"/>
BLC: <input type="range" value="0"/>	HLC: Off
2D NR: <input type="range" value="18"/>	3D NR: <input type="range" value="10"/>
White Balance: Auto	White Balance R Gain: <input type="range" value="25"/>
White Balance G Gain: <input type="range" value="25"/>	White Balance B Gain: <input type="range" value="25"/>
Power Frequency: 50Hz	Forced Anti-flicker: Off
Horizontal Tailor: <input type="range" value="0"/>	Vertical Tailor: <input type="range" value="0"/>
Mirror: Off	Flip: On
Defogging: Off	Defogging Level: <input type="range" value="128"/>
Exposure Type: Auto	Exposure Time: 1/2000

Main Stream: Manual set and default set.

Resolution: 1080P
Frame Rate: 30 fps
Bit Rate: 2 Mbps
I-frame Interval(15-60): 30
Quality: Custom
Bit Rate Control: CBR
Profile: Main

Sub Stream: Manual set and default set.

Resolution:	D1
Frame Rate:	30 fps
Bit Rate:	512 Kbps
I-frame Interval(15-60):	30
Quality:	Custom
Bit Rate Control:	CBR
Profile:	Main

Save
Reset Default

OSD: on-screen display

Enable OSD:	☒
Color Style:	White text on black
Font Size:	Standard
Overlay Items:	☒ Title ☒ Resolution ☒ Bitrate
	☒ Time ☒ Week
Date Position:	Top-Right
Date Format:	yyyy-mm-dd hh:mm
Title Position:	Top-Right
Title Message:	D26V

Save
Reset Default

Privacy Mask: Able for 5 area set.

#	Enable	Color	Draw Area
1	☐		Draw Area
2	☐		Draw Area
3	☐		Draw Area
4	☐		Draw Area
5	☐		Draw Area

Save
Reset Default

3.3.5 Storage

Base Setting: Enable storage or not, allow overwrite or not, Max record time(minutes)

Enable Storage:	☒
Allow Overwrite:	YES
Max Record Time:	10

Save
Reset Default

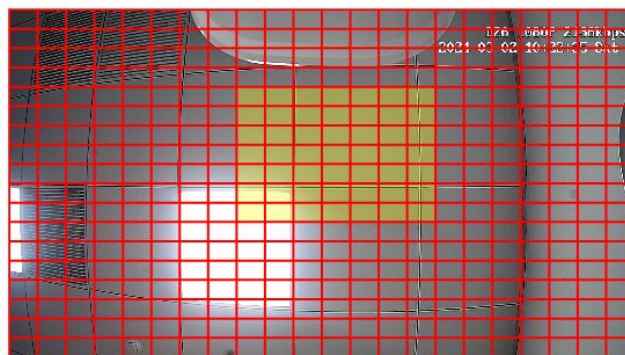
Record Schedule: Manual set and default set.

Enable Storage:	☒
Video Stream:	Primary Stream
With Audio:	YES
Max Record Time:	10 min

Save
Reset Default

Motion Detection: After detecting as set, it starts to record video.

Enable:	☐
Video Stream:	Primary Stream
With Audio:	YES
Pre-record:	3 s
Max Record Time:	90 s
Sensitivity	<input type="range"/>
Only Detect Human:	Enable
Block Count:	22x18



Add motion area : Drag from left to right. Remove motion area: Drag from right to left.

Save
Reset Default

SD Status

SD Card:	Unmount Format
Device Status:	Mount
Total Size:	58.21G
Used Size:	0M
Free Size:	58.21G
Used Percentage:	0.00%

3.3.6 Playback

The SIP-D26V allows you to save recorded footage, enabling you to playback and review it at your convenience. The playback feature displays a timeline where you can locate and watch specific recorded time periods highlighted in green below.



3.4 Network Setting

3.4.1 TCP/IP

DHCP: When you select DHCP and save the setting, IP address will be automatically assigned by a DHCP server. Afterward, you'll need to login again with the new IP address via your browser: 192.168.5.XXX.

Static IP Address: It is a default IP and will not be changed as following.

Status >

Sip Setting >

Basic Setting >

Network Setting ▾

TCP/IP

ONVIF

Firewall

Advance Setting >

System >

Network

☒ DHCP

☐ Static IP Address

IP Address

192.168.5.233

Subnet Mask

255.255.255.0

Gateway

192.168.5.1

Primary DNS

218.85.152.99

Secondary DNS

218.85.157.99

Save

3.4.2 ONVIF

After selecting Enable ONVIF, the device will be discoverable by ONVIF VMS during the search process.

Default user name: admin; Password: tm1234.

Status >

Sip Setting >

Basic Setting >

Network Setting ▾

TCP/IP

ONVIF

Firewall

Advance Setting >

System >

ONVIF

ONVIF Enable ☒

User Name

admin

Password

tm1234

Save

3.4.3 Firewall

This function is utilized to enhance your network security. You can customize the firewall's automatic defense rules according to your requirements, as follows.

Status >	Firewall Rules					
Sip Setting >	#	Name	Type	IP/MAC	Action	
Basic Setting >	1					 
Network Setting ▾	2					 
TCP/IP	3					 
ONVIF	4					 
Firewall	5					 
Advance Setting >	Automatic Defense Rules					
System >	#	Name	Protocol	Port Range	Rate	
	1				0	 
	2				0	 
	3				0	 
	4				0	 
	5				0	 

3.5 Advance Setting

3.5.1 Input

Input: Key; I/O In; SIP 1; SIP 2.

Status >	Input Settings	
Sip Setting >	Input	Key
Basic Setting >	File Enable	☐
Network Setting >	Sip Enable	☐
Advance Setting ▾	Url Enable	☐
Input	Output Enable	☐
RTP Multicast	Relay Enable	☐
Schedule	Save	
Http URL		
System >		

Status >	Input Settings	
Sip Setting >	Input	I/O In
Basic Setting >	File Enable	☐
Network Setting >	Sip Enable	☐
Advance Setting ▾	Url Enable	☐
Input	Output Enable	☐
RTP Multicast	Relay Enable	☐
Schedule	Save	
Http URL		
System >		

Status >
Sip Setting >
Basic Setting >
Network Setting >
Advance Setting ▾
Input
RTP Multicast
Schedule
Http URL
System >

Input Settings

Input Sip 1 ▾
Incoming Notify ☐
Answer Notify ☐
Close Notify ☐
DTMF1 Enable ☐
DTMF2 Enable ☐

Save

3.5.2 RTP Multicast

Each device can receive up to 10 RTP addresses. Please note that when setting the same RTP addresses, port numbers should not use continuous numbers. Use discontinuous numbers e.g.:

239.255.1.2:8000, 239.255.0.1:8001, 239.255.0.1:8002 (×)

239.255.0.1:8000, 239.255.0.1:8002, 239.255.0.1:8004 (√)

- Multicast address range: 224.0.0.0-239.255.255.
- Ports range: 1024-65536
- Use IP Tool, Audio manager and PA System to make RTP multicast.

Status >
Sip Setting >
Basic Setting >
Network Setting >
Advance Setting ▾
Input
RTP Multicast
Schedule
Http URL
System >

RTP Multicast

Priority	IP Address (e.g. 239.255.0.1:5004)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Save

3.5.3 Schedule

This function is widely use in school, factory and office projects. Making a regular bell, announcement and alarm.

Enable the schedule, you can name the schedule, then setting it step by step.

Status >	Schedule					
Sip Setting >	#	Name	Time	Action	File	
Basic Setting >	1					 
Network Setting >	2					 
Advance Setting v	3					 
Input	4					 
RTP Multicast	5					 
Schedule	6					 
Http URL	7					 
System >	8					 
	9					 
	10					 

3.5.4 Http URL

User can control the alarm by HTTP URL:

- (1) Enable the selection;
- (2) Open any browser you have in computer;
- (3) Put the URL as the following examples, enter it.

Status >	Http URL	
Sip Setting >	Play File Enable ☒	
Basic Setting >	Example1: http://192.168.5.233/api/play?action=start&file=userfile1&mode=loop	
Network Setting >	Example2: http://192.168.5.233/api/play?action=start&file=userfile1&mode=once&volume=10	
Advance Setting v	Example3: http://192.168.5.233/api/play?action=start&file=userfile1&mode=multiple&count=10&volume=20	
Input	Example4: http://192.168.5.233/api/play?action=start&file=userfile1&mode=duration&count=10&volume=30	
RTP Multicast	Example5: http://192.168.5.233/api/play?action=stop	
Schedule	Example6: http://192.168.5.233/api/playingtone?action=start&value=440/2000,0/4000&duration=10&volume=100	
Http URL	Example7: http://192.168.5.233/api/playingtone?action=stop	
System >	Sip Call Enable ☒	
	Example1: http://192.168.5.233/api/sipcall?action=call&number=100&line=auto	
	Example2: http://192.168.5.233/api/sipcall?action=call&number=100&line=1	
	Example3: http://192.168.5.233/api/sipcall?action=hangup	
	Output Enable ☒	
	Example1: http://192.168.5.233/api/output?action=on	
	Example2: http://192.168.5.233/api/output?action=on&duration=10	
	Example3: http://192.168.5.233/api/output?action=off	
	Relay Enable ☒	
	Example1: http://192.168.5.233/api/relay?action=on	
	Example2: http://192.168.5.233/api/relay?action=on&duration=10	
	Example3: http://192.168.5.233/api/relay?action=off	

3.6 System

3.6.1 Date/Time

There are two update modes for time: NTP/local time. Please select one and configure the time zones accordingly. NTP sever and interval can choose default setting, then save the configuration.

Status	>	Date/Time	
Sip Setting	>	Device Time	2024-03-04 10:23:18
Basic Setting	>	Update Mode	NTP
Network Setting	>	TimeZone	GMT+08:00
Advance Setting	>	NTP Server	pool.ntp.org
System	▼	NTP Interval	10 Minutes
Date/Time		Save	
Security			
Upgrade			

3.6.2 Security

Set a new user name and password as needed, save the configuration, and then restart the login process.

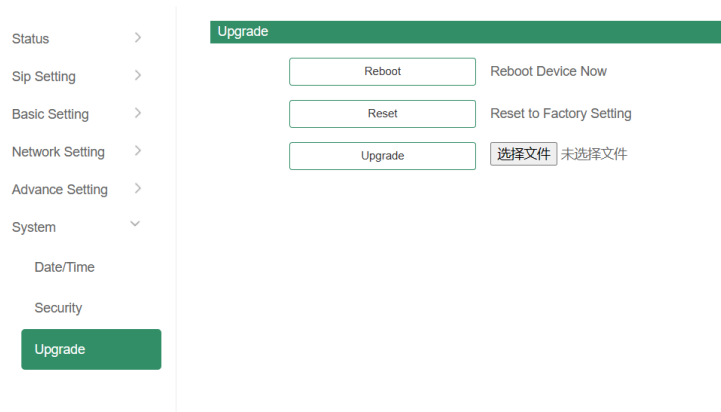
Status	>	Security	
Sip Setting	>	User Name	
Basic Setting	>	Password	
Network Setting	>	New User Name	
Advance Setting	>	New Password	
System	▼	Confirm Password	
Date/Time		Save	
Security			
Upgrade			

3.6.3 Upgrade

When you reboot or reset the system, it will revert to its original settings, and you will need to log in to the web page again.

How to upgrade SIP-D26V firmware version in web interface?

- (1) Select the latest version firmware
- (2) Click upgrade to refresh, it would require about 20s.
- (3) Re-login the web interface, latest version has upgraded.



4. IPTool Configuration

In addition to Web configuration, IPTool provides another option for quickly configuring basic information such as SIP account settings, volume settings, RTP Multicast Settings, and upgrades. Below are the steps to follow:

- (1) Download IPTool in <https://www.tonmind.com/category/downloads/5>.
- (2) Enter IPTool, scan local network, the device will appear and then start setting.

