

Smart IP Video Intercom

SIP-D26V

User Manual



Xiamen Tonmind Technologies Co., Ltd.

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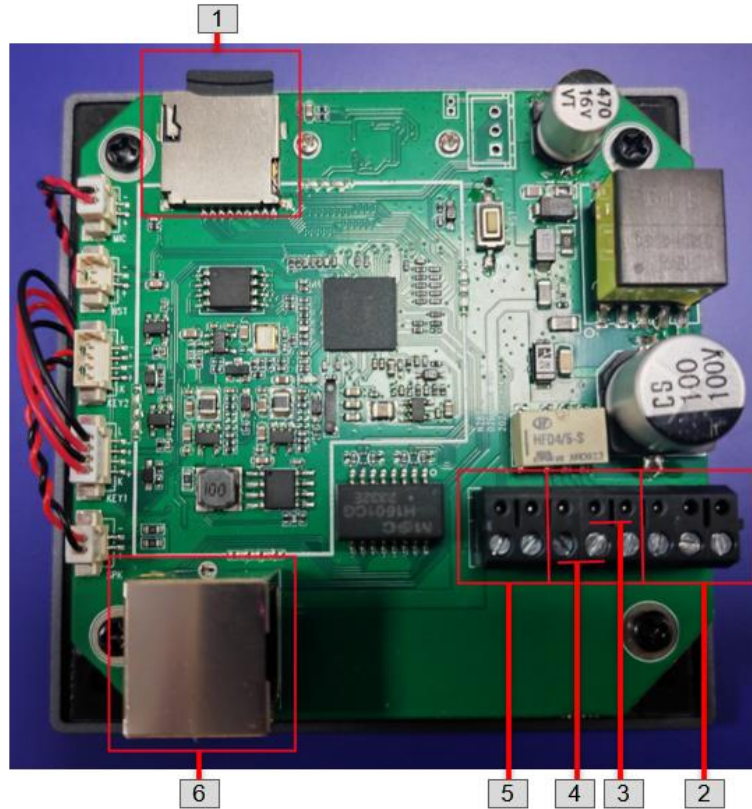
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1. Overview

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



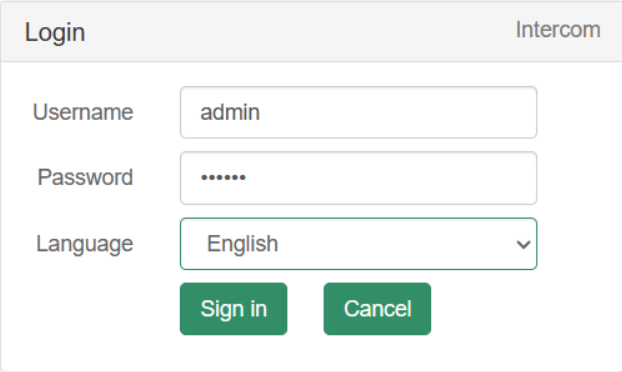
1	SD card Interface	Video storage
2	Relay	NC, COM, NO
3	IO OUT	
4	IO IN	
5	DC power in	12V in
6	POE	802.3af

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



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.

TONMIND

Status

Sip Setting >

Basic Setting >

Network Setting >

Advance Setting >

System >

Status

Device Time	2024-03-02 08:19:35
Device ID	5034D468287AA30C
Firmware Ver	D26V-V1.0.23
Free Space	4072KB
SIP1 Status	NONE
SIP2 Status	NONE

Network

MAC Address	A2:C0:A4:3C:46:A1
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

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	<input type="text" value="Account 1"/>	NONE
User Name	<input type="text"/>	
Auth ID	<input type="text" value="6004"/>	
Password	<input type="password" value="****"/>	
Display Name	<input type="text" value="6004"/>	
Server Host	<input type="text" value="192.168.5.212"/>	
Server Port	<input type="text" value="5060"/>	
Outbound Proxy	<input type="text" value="Disable"/>	
Expire Time	<input type="text" value="180"/>	Seconds
Ringtone	<input type="text" value="Custom"/>	
	<input type="text" value="440/2000,0/4000"/>	
Auto Answer	<input type="text" value="Answer Delay"/>	
Delay Time (0 - 600)	<input type="text" value="2"/>	Seconds
Encryption	<input type="text" value="None"/>	

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	<input type="text" value="UDP"/>
Audio Codec Setting	<input checked="" type="checkbox"/> OPUS <input checked="" type="checkbox"/> G.722 <input checked="" type="checkbox"/> G.711U <input checked="" type="checkbox"/> G.711A
Video Codec Setting	<input checked="" type="checkbox"/> H264

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)	<input type="text" value="60"/>	
Amp Auto OFF	<input type="text" value="YES"/>	▼
Jitter Buffer (60 - 2000)	<input type="text" value="180"/>	ms
HPF	<input type="checkbox"/>	
NR	<input type="checkbox"/>	
<input type="button" value="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	<input type="text" value="None"/>	▼
Volume (0-100)	<input type="text" value="60"/>	
AEC	<input checked="" type="checkbox"/>	
AGC	<input checked="" type="checkbox"/>	
AGC Target	<input type="text" value="Middle"/>	▼
HPF	<input checked="" type="checkbox"/>	
NR	<input checked="" type="checkbox"/>	
NR Level	<input type="text" value="1"/>	▼
<input type="button" value="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: <input type="text" value="Off"/>
2D NR: <input type="range" value="18"/>	3D NR: <input type="range" value="10"/>
White Balance: <input type="text" value="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: <input type="text" value="50Hz"/>	Forced Anti-flicker: <input type="text" value="Off"/>
Horizontal Tailor: <input type="range" value="0"/>	Vertical Tailor: <input type="range" value="0"/>
Mirror: <input type="text" value="Off"/>	Flip: <input type="text" value="On"/>
Defogging: <input type="text" value="Off"/>	Defogging Level: <input type="range" value="128"/>
Exposure Type: <input type="text" value="Auto"/>	Exposure Time: <input type="text" value="1/2000"/>

Main Stream: Manual set and default set.

Resolution: <input type="text" value="1080P"/>
Frame Rate: <input type="text" value="30 fps"/>
Bit Rate: <input type="text" value="2 Mbps"/>
I-frame Interval(15-60): <input type="text" value="30"/>
Quality: <input type="text" value="Custom"/>
Bit Rate Control: <input type="text" value="CBR"/>
Profile: <input type="text" value="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

OSD: on-screen display

Enable OSD:	<input checked="" type="checkbox"/>
Color Style:	White text on black
Font Size:	Standard
Overlay Items:	<input checked="" type="checkbox"/> Title <input checked="" type="checkbox"/> Resolution <input checked="" type="checkbox"/> Bitrate <input checked="" type="checkbox"/> Time <input checked="" type="checkbox"/> Week
Date Position:	Top-Right
Date Format:	yyyy-mm-dd hh:mm
Title Position:	Top-Right
Title Message:	D26V

Privacy Mask: Able for 5 area set.

#	Enable	Color	Draw Area
1	<input type="checkbox"/>		<input type="text" value="Draw Area"/>
2	<input type="checkbox"/>		<input type="text" value="Draw Area"/>
3	<input type="checkbox"/>		<input type="text" value="Draw Area"/>
4	<input type="checkbox"/>		<input type="text" value="Draw Area"/>
5	<input type="checkbox"/>		<input type="text" value="Draw Area"/>

3.3.5 Storage

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

Enable Storage:	<input checked="" type="checkbox"/>
Allow Overwrite:	YES
Max Record Time:	10

Save
Reset Default

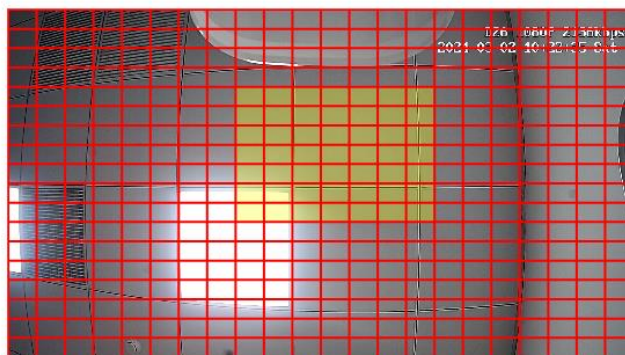
Record Schedule: Manual set and default set.

Enable Storage:	<input checked="" type="checkbox"/>
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:	<input type="checkbox"/>
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	<input type="text" value="192.168.5.233"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.5.1"/>
Primary DNS	<input type="text" value="218.85.152.99"/>
Secondary DNS	<input type="text" value="218.85.157.99"/>

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

Password

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.

Firewall Rules						
#	Name	Type	IP/MAC	Action		
1						
2						
3						
4						
5						

Automatic Defense Rules						
#	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.

Input Settings	
Input	<input type="text" value="Key"/>
File Enable	<input type="checkbox"/>
Sip Enable	<input type="checkbox"/>
Uri Enable	<input type="checkbox"/>
Output Enable	<input type="checkbox"/>
Relay Enable	<input type="checkbox"/>
<input type="button" value="Save"/>	

Input Settings	
Input	<input type="text" value="I/O In"/>
File Enable	<input type="checkbox"/>
Sip Enable	<input type="checkbox"/>
Uri Enable	<input type="checkbox"/>
Output Enable	<input type="checkbox"/>
Relay Enable	<input type="checkbox"/>
<input type="button" value="Save"/>	

- 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	<input style="width: 95%;" type="text"/>
2	<input style="width: 95%;" type="text"/>
3	<input style="width: 95%;" type="text"/>
4	<input style="width: 95%;" type="text"/>
5	<input style="width: 95%;" type="text"/>
6	<input style="width: 95%;" type="text"/>
7	<input style="width: 95%;" type="text"/>
8	<input style="width: 95%;" type="text"/>
9	<input style="width: 95%;" type="text"/>
10	<input style="width: 95%;" type="text"/>

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.

#	Name	Time	Action	File		
1						
2						
3						
4						
5						
6						
7						
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.

Http URL	
Play File Enable	<input checked="" type="checkbox"/>
Example1:	http://192.168.5.233/api/play?action=start&file=userfile1&mode=loop
Example2:	http://192.168.5.233/api/play?action=start&file=userfile1&mode=once&volume=10
Example3:	http://192.168.5.233/api/play?action=start&file=userfile1&mode=multiple&count=10&volume=20
Example4:	http://192.168.5.233/api/play?action=start&file=userfile1&mode=duration&count=10&volume=30
Example5:	http://192.168.5.233/api/play?action=stop
Example6:	http://192.168.5.233/api/playringtone?action=start&value=440/2000,0/4000&duration=10&volume=100
Example7:	http://192.168.5.233/api/playringtone?action=stop
Sip Call Enable	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>
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	<input checked="" type="checkbox"/>
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.

The screenshot shows the 'Date/Time' configuration page. On the left is a navigation menu with 'Date/Time' selected. The main content area has a green header 'Date/Time'. Below it, the 'Device Time' is '2024-03-04 10:23:18'. The 'Update Mode' is set to 'NTP' via a dropdown. The 'TimeZone' is 'GMT+08:00' via a dropdown. The 'NTP Server' is 'pool.ntp.org' via a dropdown. The 'NTP Interval' is '10' with a 'Minutes' label. A green 'Save' button is at the bottom right.

3.6.2 Security

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

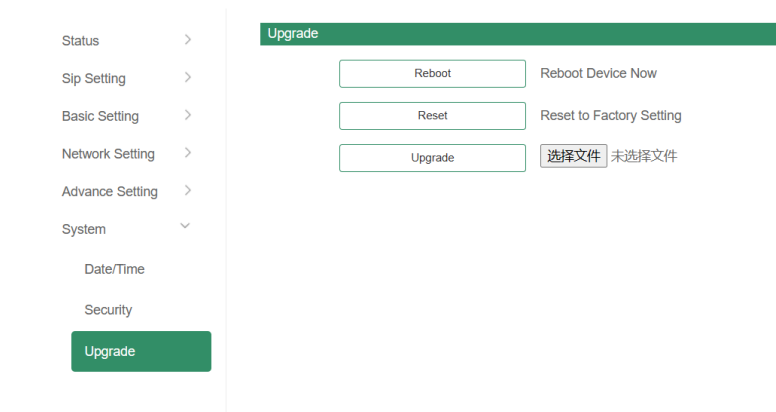
The screenshot shows the 'Security' configuration page. On the left is a navigation menu with 'Security' selected. The main content area has a green header 'Security'. Below it, there are five input fields: 'User Name', 'Password', 'New User Name', 'New Password', and 'Confirm Password'. A green 'Save' button is at the bottom right.

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.

