

## SYSTEM REQUIREMENTS

- DoorBird IP Video Door Station D10x/D11x/D21x Series.
- Grandstream Hybrid ATA with FXS port ( HT801).
- Analog Telephone (e.g., Alcatel Temporis 10).

## ADDITIONAL INFORMATION

The following guide will help you set up a DoorBird IP Video Door Station in connection with the Grandstream ATA device. Please ensure the Grandstream ATA device receives an IP address and is connected to the same local network as your DoorBird IP Video Door Station.

Please also make sure that your DoorBird is online using this service: <https://www.doorbird.com/checkonline>  
The local IP address of your DoorBird is available from the same page.

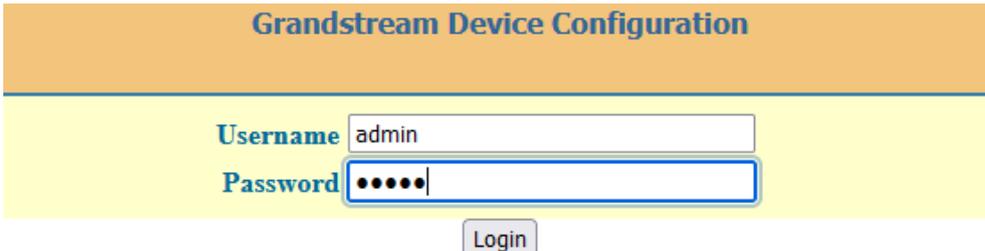
- You can perform a SIP call from DoorBird intercom to an Analog Phone.

## 1. SETTING UP THE GRANDSTREAM DEVICE

1.1 Connect Grandstream device to the LAN port.

1.2 Connect Analog Telephone on another cord end (RJ11) to Grandstream FXS port.

1.3 In a web browser, enter the IP address of the Grandstream device.  
To log in, enter Username: admin, Password: admin (Default credentials)



The screenshot shows a web interface titled "Grandstream Device Configuration". It features a yellow background with a blue header. Below the header, there are two input fields: "Username" with the value "admin" and "Password" with five black dots. A "Login" button is positioned below the password field.

1.4 The Basic and Advanced settings can be modified according to your requirements otherwise no need.

1.5 Go to FXS PORT , Enable Account Active -->Yes , Enable SIP, SIP Transport -->UDP.  
Other Parameters are configured as shown below.

**Note:** Only below parameters are modified,  
Other parameters can be left unchanged OR Modify according to your requirements.

**Grandstream Device Configuration**

STATUS BASIC SETTINGS **ADVANCED SETTINGS** FXS PORT FXO PORT

Account Active:  No  Yes

Primary SIP Server:  (e.g., sip.mycompany.com, or IP address)

Failover SIP Server:  (Optional, used when primary server no response)

Prefer Primary SIP Server:  No  Yes (yes - will register to Primary Server if Failover registration expires)

Outbound Proxy:  (e.g., proxy.myprovider.com, or IP address, if any)

Backup Outbound Proxy:  (e.g., proxy.myprovider.com, or IP address, if any)

Prefer Primary Outbound Proxy:  No  Yes (yes - will reregister via Primary Outbound Proxy if registration expires)

Allow DHCP Option 120 (override SIP server):  No  Yes

SIP Transport:  UDP  TCP  TLS (default is UDP)

SIP URI Scheme When Using TLS:  sip  sips

Use Actual Ephemeral Port in Contact with TCP/TLS:  No  Yes

NAT Traversal:  No  Keep-Alive  STUN  UPnP

SIP User ID:  (the user part of an SIP address)

Authenticate ID:  (can be identical to or different from SIP User ID)

Authenticate Password:  (purposely not displayed for security protection)

Name:  (optional, e.g., John Doe)

1.6 Down below the same FXS PORT page --> Set Local SIP Port --> 5060.  
Other Parameters are set as below.

SIP Registration:  No  Yes

Unregister On Reboot:  No  Yes

Outgoing Call without Registration:  No  Yes

Register Expiration:  (in minutes. default 1 hour, max 45 days)

Reregister before Expiration:  (0-64800. Default 0 second)

SIP Registration Failure Retry Wait Time:  (in seconds. Between 1-3600, default is 20)

SIP Registration Failure Retry Wait Time upon 403 Forbidden:  (in seconds. Between 0-3600, default is 1200. 0 means stop retry registration upon 403 response.)

Enable SIP OPTIONS Keep Alive:  No  Yes

SIP OPTIONS Keep Alive Interval:  (in seconds. Between 1-64800, default is 30)

SIP OPTIONS Keep Alive Max Lost:  (Number of max lost packets for SIP OPTIONS Keep Alive before re-registration. Between 3-10, default is 3)

Layer 3 QoS:  SIP DSCP (Diff-Serv value in decimal, 0-63, default 26)

RTP DSCP (Diff-Serv value in decimal, 0-63, default 46)

Local SIP Port:  (default is 5060 for UDP, 5061 for TLS)

Local RTP Port:  (even number between 1024-65535, default 5004)

1.7 At the end of the FXS PORT page --> Click on Apply to save the configuration.

Ring Tone 9:

Ring Tone 10:

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**Grandstream Device Configuration**

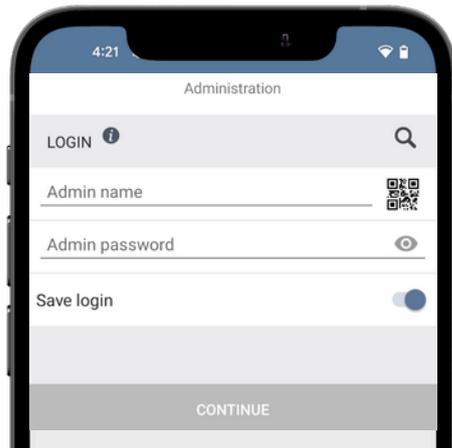
STATUS BASIC SETTINGS **ADVANCED SETTINGS** FXS PORT FXO PORT

Your configuration changes have been applied and saved.

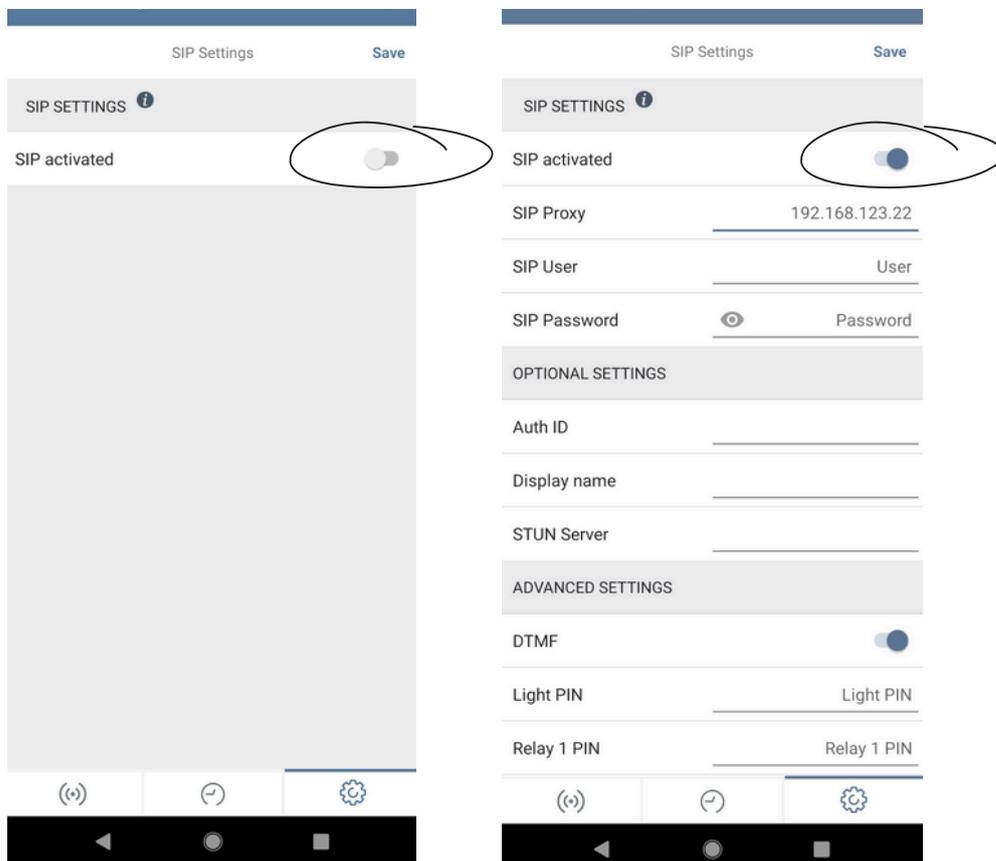
## 2. SETTING UP THE DOORBIRD IP VIDEO DOOR STATION

For the DoorBird IP Video Door Station to be properly able to communicate with the Gira device, the DoorBird device's SIP settings must be adjusted accordingly.

2.1 Open the DoorBird App and log into the administration area under "Settings → Administration" using the administrator username and password credentials from the "DIGITAL PASSPORT" document that was shipped with your DoorBird IP Video Door Station.

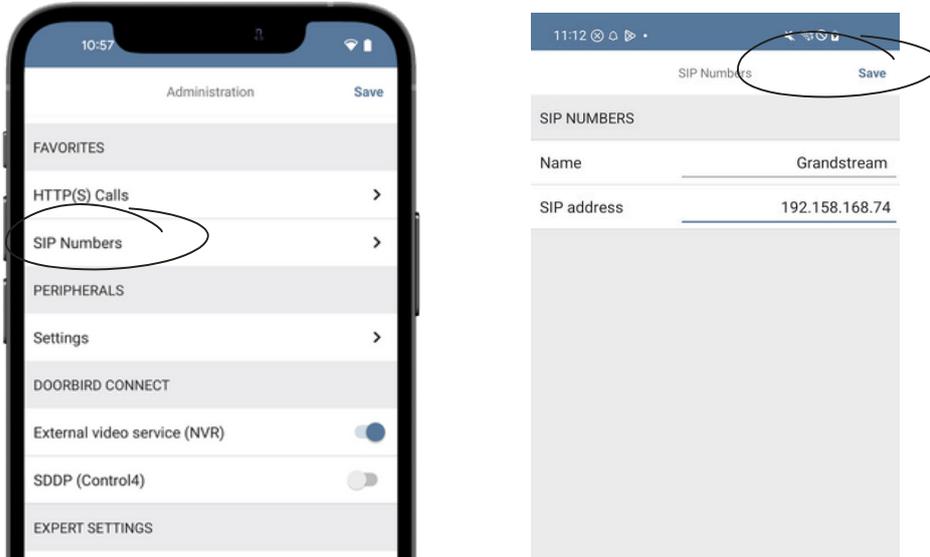


2.2 Choose "SIP Settings" from the menu and activate the "SIP active" switch. Activate DTMF if you want to open the Door during the call.



2.3 Since the connection between the Analog Telephone device and DoorBird IP Video Door Station will be peer-to-peer, no further settings are required on this screen, and the following fields should be left blank.

2.4 Go back to the main administration area and tap on "SIP Numbers," then tap "Add" Name --> Grandstream, SIP Address -->192.158.168.74 192.158.168.74 --> Enter the IP address of the Grandstream device).



2.5 Save the Settings.

To forward calls from the DoorBird IP Video Door Station to the integration, a schedule for ring events needs to be set up. Depending on the model of the DoorBird IP Video Door Station, choose one of the following options:

A) For all devices without a multi-tenant module (e.g. D1101V, D2101V, D2101KV, etc.), find the corresponding settings in the DoorBird App administration menu EXPERT SETTINGS when selecting "Schedule for doorbell".

In this screen, tap the bell symbol in the upper-left corner, select "SIP call" and fill out the schedule as per your requirements for this event.

B) For all devices with multiple call buttons (e.g. D2102V, D2103V, D2112V, etc.), find the corresponding settings in the DoorBird App administration menu BUTTON CONFIGURATION when selecting "Settings".

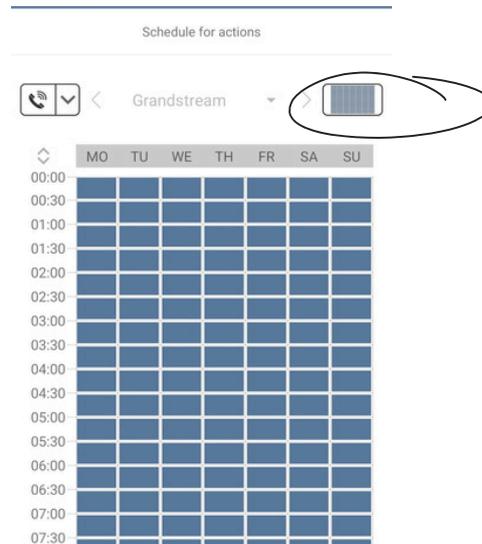
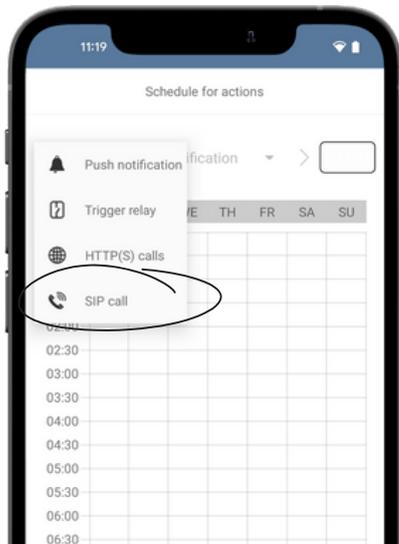
Select the call button the event needs to get assigned to and go to "Schedule for actions".

In this screen, tap the bell symbol in the upper-left corner, select "SIP call" and fill out the schedule per your requirements for this event.

C) For all devices with a digital display (e.g. D21DKV), find the corresponding settings in the DoorBird App administration menu **KEYPAD** when selecting "Settings".

Select the keypad combination the event needs to get assigned to and go to "**Schedule for actions**".

In this screen, tap the bell symbol in the upper-left corner, select "SIP call" and fill out the schedule per your requirements for this event.



**Hint:** By tapping the button in the upper right corner it is possible to fill or empty the entire schedule.

2.6 Return to the main administration area and save the settings.

## FIRMWARE INFORMATION

This manual was tested using the following versions:

### 1. Grandstream Analog Telephone Adapter

Hardware device series: HT801

Hardware Version: V4.1A

Software Version: Program -- 1.0.45.2

Bootloader -- 1.0.45.1

Core -- 1.0.45.1

Base -- 1.0.45.2

CPE -- 1.0.4.54

### 2. Door Bird IP Video Door Station:

Hardware device series: D21DKH-V2A

Software Version: 000144

Hardware device series: D1102FV

Software Version: 000144

Hardware device series: D101S

Software Version: 000144