

#### SYSTEM REQUIREMENTS

- DoorBird IP Video Door Station D10x/D11x/D21x Series.
- Linphone Account register station or without Account Registration(without SIP proxy).

#### ADDITIONAL INFORMATION

The following guide will take you through setting up a DoorBird IP Video Door Station in connection with the Linphone. Please 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 call from Linphone App(Andriod/Tab/PC/iPhone) to DoorBird (and vice-versa) including Audio and Video via the Linphone.org sip server.
- You can Enable the DTMF in order to trigger the relay/turn on lights during the SIP call.

#### 1. CREATING ACCOUNT FOR DOORBIRD AND LINPHONE APP

1.1 Create an account first one for Linphone app. https://subscribe.linphone.org/login

Username or phone number	Password
username or phone number	myPassword
	DCIN
Set or recover your password using you	ur Email address or your Phone number
or login using an already authent	ticated device by flashing a QRcode.
No account yet	RECISTER

1.2 Click on Register. Enter the name for SIP Username and Email id.

SIP Username		
linphoneusername		@sip.linphone.org
Shoudn't be a phone number. Capital letters are n	ot allowed.	
Email	Email confirmation	
abcdef@gmail.com	abcdef@gmail.com	
I would like to subscribe to the newsle	etter	
<ul> <li>I would like to subscribe to the newsle</li> <li>I accept the Terms and Conditions: Read the Terms and Conditions</li> <li>I accept the Privacy policy: Read the Privacy policy</li> </ul>	itter	



1.3 Authenticate the link that has sent to your mail after registration and enter a new password to login into the account.

1.4 Please note down the SIP details for this account and it is used in the App.

1.5 Please follow steps from 1.1 to 1.3 to create other account for DoorBird with different email id/Phone number.

Note: Please use email id or phone number to register an account.

Change my current account email
Manage my devices See and delete the devices linked to your account
Change my password SHA-256 password configured
Delete my account
Remove your account from our service
Sip.impionessename @Sip.impirore.org Username: Domain: sip.linphone.org
Proxy/registrar address:
sip:sip.linphone.org
Transport:
TLS (recommended), TCP or UDP
API Key
You can generate an API key and use it to request the different API endpoints, check

### 2. SETTING UP THE LINPHONE APP USING LINPHONE ACCOUNT DETAILS

2.1 Please download and install the Linphone App on Windows/Linux/macOS/Android/iPhone.

2.2 Proceed with basic installation steps and Login into the App.

2.3 Go to assistant Click on USE SIP ACCOUNT and Click on I understand.

Search 🗟	5 4:25 PM	∜ 49 % 💶 '	Search 🗢	4:25 PM	≉ 49% 💶
≣ • 0	Configuring account		📄 🗕 Confi	guring account	
$\leftarrow$	ASSISTANT		$\leftarrow$	ASSISTANT	
	WELCOME is assistant will help you configure an SIP account.  I accept Beledonne Communication CREATE ACCOUNT USE LINPHONE ACCOUNT USE SIP ACCOUNT FETCH REMOTE CONFIGUR/	nd use your ons' terms of NT ATION	Some featur as group me These featur with a third p To enable it contact us. https://	es require a Linphone ac ssaging or ephemeral m res are hidden when you party SIP account. in a commercial project, www.linphone.org/conta I understand	count, such essaging. register please
1.					



2.4 Enter your Username and SIP domain from the Linphone App account select UDP and login. You can see connected if entered details are correct else you can check again for inputs.



2.5 In setting enable requirements for Audio and Video.

$\leftarrow$	Audio	
Speex 16kHz		ON
Speex 8kHz		ON
Opus 48kHz		ON
AAC-ELD 16kHz		OFF
AAC-ELD 22kHz		OFF
AAC-ELD 32kHz		OFF
AAC-ELD 44kHz		OFF
AAC-ELD 48kHz		OFF
G.722		OFF
G.729		ON
GSM		OFF
iLBC		OFF
iSAC		OFF
PCMU		ON

← Audio	
AAU-ELD 44KHZ	UFF
AAC-ELD 48kHz	OFF
G.722	OFF
G.729	ON
GSM	OFF
iLBC	OFF
iSAC	OFF
PCMU	ON
PCMA	ON
ADVANCED	
Codec bitrate limit	36 kbits/s >
Enable Voice Processing	ON
Enable Bass Boost	OFF

$\leftarrow$ Vid	eo
Automatically start	
Automatically accept	
Show self view	
Video preset	Default >
Preferred video size	VGA (640x480) >
CODECS	
VP8	
H.264	
H.265	ON O



2.6 Save the DoorBird SIP address in the Contacts for the reference. Go to Contacts > Add new Contact > Enter First name , Last name and SIP address.





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

3.1 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.





3.2 Go to User > Settings. In the User Management > User0001.



K Back	User Management	
Q Search		
	Add	
ghjbuw0000 Name: Administr	ator	>
ghjbuw0001 Name: ghsjit000	1	>

NAME (COMMENT)	
ghjbuw0001	
PERMISSIONS	
Permissions	Select >



Tick all the Permissions and Relays. Click on Save.

Hint: You can create new User (UserOOOX) and use it for Linphone or else you can use UserOOO1.



	Administration	Save
USERNAME		
ghjbuw0001		
PASSWORD		
		$\odot$
Cł	HANGE PASSWORD	
NAME (COMMEN	т)	
ghjbuw0001		
PERMISSIONS		
Permissions		Select >

3.3 Go back to Administration. Go to Favorites --> SIP Numbers

3.4 Enter the sip username of Linphone app account e.g., linphoneusername@sip.linphone.org.

3.5 Click on save.

3.6 Go to SIP settings > Enable the SIP, Enter the SIP proxy of Linphone > sip.linphone.org, Enter the SIP Username of DoorBird and the SIP Password (use the same credentials entered while creating the Linphone account for DoorBird). Enable DTMF and the code if you want to trigger the relay/turn on lights during the SIP call.



IP Numbers	×
linphoneusername@sip.linphone.org	
bloma	
reame	
linphoneusername@sip.linphone.org SIP address	
Iinphoneusername@sip.linphone.org SIP address	



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3.7 Enable Allow Incoming calls. Click on add > Enter the sip username of Linphone app account e.g.,linphoneusername@sip.linphone.org.

3.8 Save the SIP settings.

ADVANCED SETT	TINGS		No SIM 😴	10:16 AM	∮ 22 % .
DTMF		۲	< Back	Allowed SIP Users	+
Light PIN		1234	linphoneuse	ername@sip.linphone.org	)
Relay 1 PIN		5678			
Allow incoming	calls	( 🔷 )			
(0)	$\bigcirc$				

#### 4. SCHEDULE CONFIGURATION

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 with a single call button (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 outfitted with a combination 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 and go to "Schedule for actions".

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

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

Call from DoorBird to Phone and From the Linphone app call to DoorBird dial the username of DoorBird e.g.,d10doorbird@sip.linphone.org Check the SIP call, if you are unable to call please re-check the settings of the Linphone app and DoorBird app.

No SIM ᅙ 9:19 AM 13% 4 Schedule for actions K Back Schedule for actions 

 </l  $\langle$  linphoneus...nphone.org  $\rangle$ A Push notification Ø Trigger relay TH FR SA TU WE TH FR SU МО SA 00:00 ۲ HTTP(S) calls 00:30 01:00 C SIP call 01:30 02:00 02:30 02:30

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



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### 5. SETTING UP PEER TO PEER CALL WITHOUT REGISTRATION OF LINPHONE APP ACCOUNT

5.1 Download the Linphone app and Install it on Phone/Desktop.

5.2 Open the app > Accept the terms and conditions > Go to settings.

Note: No need to create an account of Linphone for calling without proxy.

5.3 Enter the Display name e.g., samsung and Username e.g., samsung.



No account configured	
2 Assistant	
😅 Settings	
Recordings	
(i) About	

E Not connected		
SETTINGS		
DUNT		
e		

5.4 Keep the audio and video settings as mentioned in the step 2.5

5.5 Go to Call > Enable the settings as shown in the screenshot. Other general options e.g., auto recording, auto answering, etc., edit according to your requirements.

Not connected	
← CALL	
Use device ringtone	•
Vibrate while incoming call is ringing	•
Media encryption None	*
Media encryption mandatory	
Improve interactions with bluetooth devices Requires some extra permissions	•
Overlay call notification	
Show overlay outside of app You will be asked to grant overlay permission	
Send out-band DTMFs (SIP INFO)	
Send in-band DTMFs (RFC 2833)	•
Automatically start call recording	
Start call immediately	-

E Not connected	
← CALL	
Send In-band DTMFS (RFC 2833)	-
Automatically start call recording	
Start call immediately	-
The call will start automatically if started from another application	
Auto answer incoming calls	
Incoming call timeout 45	
in seconds	_
Voice mail URI	
Redirect declined calls to voice mail URI	•
Accept early media	
Ring during incoming early media	
Pause calls when audio focus is lost	



5.6 In Network > Enable the Allow IPv6 ,Disable Use random ports. Enter SIP port to use > 5060 (Standard port for SIP communication).

	E ONot connected	
		< Comparison of the second sec
	Use WiFi only	
(	Allow IPv6	
	Use random ports	
	SIP port to use 5060	

5.7 In DoorBird App, please follow steps 3.1 and 3.2.

5.8 Go to Favourites > SIP numbers > Add IP address of your phone e.g., sip:192.168.178.88.Click on Save.

Administration Save
FAVORITES
HTTP(S) Calls
SIP Numbers

	SIP Numbers	Save
SIP NUMBERS		
Name		Samsung
SIP address	sip:192.1	68.178.88

Save

.168.123.22

Use Passwor

1234
 4563
 4563

5.9 Go to SIP Settings > Enable SIP. Enable DTMF if you want trigger relay/turn on Lights during the SIP call.

There is no need to enter the SIP details since the call operates on a peer-to-peer basis.

	SIP Settings	Save	s	SIP Settings
SIP SETTINGS			SIP SETTINGS	
SIP activated			SIP activated	
			SIP Proxy	192
			SIP User	
			SIP Password	0
			OPTIONAL SETTINGS	
			Auth ID	<u>.</u>
			Display name	
			STUN Server	
			ADVANCED SETTINGS	5
			DTMF	
			Light PIN	
			Relay 1 PIN	
	_		Allow incoming calls	



5.10 Enable Allow Incoming calls > Click on Add > Enter the IP address of the Phone.

5.11 Save the SIP Settings.

5.12 Follow Section 4 to schedule the SIP call.

5.13 Call from DoorBird to Phone and From the Linphone app call the IP address of DoorBird e.g., sip:10.4.210.88 to check the SIP call. If you are unable to call please check the IP address of the phone and DoorBird.



SIP Settings

ADVANCED SETTINGS

Allow incoming calls

DTMF

Light PIN

Relay 1 PIN

Save

1234



SIP Settings



5.14 Click on more options during the call to get the keypad to enter the DTMF code e.g., 1234#





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Note: For questions and problems regarding our devices (DoorBird IP Video Door Station or DoorBird IP Upgrade), please contact our technical support via the contact form online : https://www.doorbird.com/de/contact

#### FIRMWARE INFORMATION

This manual was tested using the following versions:

1. Linphone App Linphone IOS version 5.0.2 Linphone SDK 5.2.32

2. DoorBird IP Video Door Station:

Hardware device series: D21DKH-V2A Software Version: 000139

Hardware device series: D1102FV Software Version: 000139

Hardware device series: D101S Software Version: 000139