

# INSTALLATION MANUAL Videophone DAHUA







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# 1. Introduction

To successfully connect the DAHUA with the system, first update FW in DAHUA. You can use the DAHUA video camera with LARA Intercom or the iHC. Application





# 2. Update FW on the DAHUA Videophone

## 2.1.Download FW

Download configuration software ConfigTool 3.2 or higher http://dahuawiki.com/ConfigTool

and install it on your computer.

🥑 ConfigTool - Dahua Wik		
> C 🛈 dahua	awiki.com/ConfigTool	Bi ☆ Bi
		Search
		VIEW SOURCE HISTORY
=	🖉 6 months and one week ago 🧹 ConfigTool	
TOOLS	ConfigTool	
Main Page	ConfigTool	
Upload file	ConfigTool Version:3.00.0 for PC @	O ConfigTool 2 /
Special Pages	ConfigTool Version: 3.20.0 for PC d	
What Links Here	ConfigTool Version:3.1 for OSX	Tind number of devices: 47 Prid V All V Q (Distress) (Blogs), Seming, Back Mode
	Locate Device on LAN via ConfigTool	No. Type Model IP TCP Port HTTP Port Subnet Mask Gateway M th the Version Operate 1 @ stc-strate. Inc-strategist 2012 202 2020
MANUALS	How to Update Eiroware via ConfigTeel	2 🛞 #C+FWAL #C+FWADD112 (HAR-5022.00HL 27777 BD (HAR: 5. 🗘 🖗
10.00	- How to optater in wate via conligitor	3 Lu Della Della Della Della 17777 80 E. 5. 530.0075 Q: 65 4 ⊗ #C # Camera 2008.5/112 37777 80 4. 1. 22122.08 Ø: ⊕
NVR		5 🛞 #C #C+EW4000 2011.250.0000. 37777 80 2011.250.000. 4. 1. 2.438.46 🕅 💮
IP Camera		7         №
DVR		8 00 HC+D04. HC+D04H28. 6483.4411.8777 80 6480: 4. 1. 0 0
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PIZ		11 🛞 PC+D8. PC+D84542. fe80.5302.695. 37777 80 fe80: 5. 1. Ø @
PDF Manuals		12 ⊕ #C+#Park, #C+#Park2221 2001200000, 37777 80 20012000000, 4, 1, Q ⊕ 13 ⊕ #C+#Park221 fe80-fe11aff, 37777 80 fe80; 4, 1, Q ⊕
		14 🚽 50 DH-50646230. 2008.0/132 37777 80 S. 1. 2425.0.3 🔅
OFTWARE		15 🛞 PC PC+054000, 2005/012 27777 80 4, 1, 240590 🔅 🤂
		17 @ #C-EDWIL #C-EDWIL200 fw80.4e111#F. 17777 80 fw80: 4. 1. 0 @ @
SmartPSS		18 🚽 10 504201251-04 2012.20150000 17777 80 5. 1. 2205.40 🖗 😁
Mobile		20 @ PC PC-004523. 0 27777 80 5. 1. 2.420.02 0 €
DSS		
Playback		
ConfigTool		





# 2.2. Settings

From the desktop, you run **ConfigTool**, which automatically searches Dahua devices on the network.

QConfig	gTool	<b>İ</b>	1				_		?	<i>i</i> - = ×
Find number of devices:	1 IPv4			Q			C	Refresh	n Setting	Batch Mode
No. Type	Model	IP	TCP Port	HTTP Port	Subnet Mask	Gateway	MAC	SN	Version Oper	ate
	Dahua Vide	ophone Searc	h							_

Double-click to open the modification of the IP address of the selected videophone.

Adjust the settings according to your LAN. Confirm with the **Modify** button.

IP Modification	×
IP Address	192 168 1 110
Subnet Mask	255.255.255.0 Note: The device and the
Gateway	PC are not in 192.168.1.1 the same segment or the not is
Username	admin error.
Password	•••••
Port	37777
	Modify Cancel

The **IP modification window** appears successfully (if you do not see the window, check and correct the entered data). Confirm with **OK**.

Update the settings with the Refresh button.



# 2.3. Updating FW

Select the desired videophone.

Click Login to view the login information.

Setting data is in the factory setting:

Name: admin

Password: admin

Confirm with OK.

		ΓοοΙ	<b>*</b>		_	_		_	_		? i - 8 ×
Fir	d number of devices:	1 IPv4	V All V		Q				Refresh 💽 Log	n Setti	ng Batch Mode
No	Туре	Model	1P	TCP Port	HTTP Port	Subnet Mask	Gateway	MAC	SN	Version	Operate
1	VTO	VT02000A	10.20.30.17	37777	80	255.255.255.0	10.20.30.1	4c:11:bf:20:d9:81	1E0329DPAN00145	1.000.0000.0.T	* e
					Login IP Address Username Password Port	10.20.30.17 sdmin 37777 DK Cancel	×				

The Config window appears to select the Upgrade tab.

Pressing **CleanConfig** the program shuts down (this is important because it erases any previous settings eg. From the factory).







#### Run ConfigTool.

Select the desired videophone and sign in again with the  $\ensuremath{\textbf{Login}}$  button.

Select the Upgrade tab

Press the Open File button to select the special firmware file: General\_VTO2000A\_Eng\_P\_16M\_SIP\_V1.000.00.0.T.20170112

Use the **Upgrade** button to update the firmware.

Config	Config
🛣 Video 🔛 Net 📝 Encode 🖳 Upgrade 🖹 Info	🔂 Video 🔛 Net 📝 Encode 🖳 Upgrade 🖹 Info
Upgrade File Path //T02000A_Eng_P_16M_SIP_V1.000.00.01/20170112.bin OpenFile	Upgrade File Path //T02000A_Eng_P_16M_SIP_V1.000.00.0.120170112.bin OpenFile
Upgrade Progress 0% Upgrade	Upgrade Progress
	Upgrading.please wait
GeanConfig Return	(GeanConfig) Return

After the process the videophone Dahua will restart.

Note: In the event that the DAHUA device firmware update failed, repeat login with port 3800.

Now you can open the Internet Explorer and log in to the web interface.

e WEB SERVICE - Internet Exp	lorer				0			
A Cloud MSN.com	- Hotmail, Outlook 🚺 MSN.com - H	lotmail, Outlook	🗴 MSN.com - Hotmail, Outlo	ok 🕨 Navrhované weby 🔹	ر ر	E SERVICE	×	合 太 梁
IP VDP Door St	tation Web Server V	1.0						
<ul> <li>System Config</li> <li>Local Config</li> <li>LAN Config</li> <li>Network Config</li> <li>Video Set</li> <li>User Manager</li> <li>Info Search</li> <li>Logout</li> </ul>	Local Config A8 Sensitivity of fill light to open Shout Time Device Type Reboot Date Main Version Info MCU Version Centre Control Number	C Manager 60 120 Villa Station Tuesday 2017-01-12 V 2014-06-13 V 888888 Default	Talk Manager         ✓         Change th         ✓         1.000.0000         0.100.0000         Refresh         OK	System Time	Facade Layout	Config Manager		



# 3. Setting up the DAHUA Videophone

Set up Dahua Videophone with LARA Intercom or iHC application.

- a. Connection Requirements:
- Videotelephone Dahua VTO 2000 with updated firmware (General\_VTO2000A\_Eng\_P\_16M\_SIP\_V1.000.00.0.T.20170112)
- LARA Intercom with firmware "LARA\_FW\_v\_3\_4\_014\_T.lfw" or higher)
- eLAN-RF-003 or eLAN-RF-Wi-003 + MAIRF application 1.065
- b. SIP scheme:

Lara (user)

- SIP contact name: 502
- Password: asdf

#### Smartphone (user)

- SIP contact name: 503
- Password: asdf

#### VTO 2000 (SIP server)

- SIP contact name: 8001
- Password: asdf



### 3.1.Logging in to the web interface

Sign into the VTO 2000 Videotelephone web interface using the recommended Internet Explorer browser.

Login data is in the factory settings:

Name: admin

Password: admin

Confirm with the Login button.



#### In the Local Config menu, open the A & C Manager tab.

In the Villa Call Number line, set the user's calling number for outgoing calls (e.g., 502, 503 ...).

IP VDP Door St	ation Web Sei	rver V1.0				
🚽 System Config	Local Config	A&C Manager	Talk Manager	System Time	Facade Layout	Config Manager
Local Config     LAN Config     Network Config	Unlock Responding	Interval 15				
<ul> <li>Video Set</li> <li>User Manager</li> </ul>	Door Sensor Cher	k Time 30	Check	Door Sensor Signal Before	Lock	
▹ Info Search ▶ Logout	Villa Call N	Number 502				
	Auto Sr	Default	Refresh OK			

In the Network Config menu, open the SIP Server Config tab.

In the IP Address line, edit the IP address of the videophone.

You enable the server by checking SIP Server Enable.

Confirm with the **OK** button, which will force the videophone to restart.

IP VDP Door St	ation Web	Server V	'1.0		
👻 System Config	TCP/IP	F	TP Config	SIP Server Config	Port Config
Local Config     LAN Config		IP Address	10.20.30.17		
> Network Config		Port	5060	(1~65535)	
> Video Set		Username	8001		
> User Manager		Password			
▶ Info Search		SIP Domain	VDR		
▶ Logout			Sip Server Ena Warning: The devia	able ce needs reboot after modifi Refresh OK	on the SIP server enable.





Again, log in to the Network Manager menu in the web interface.

On the Port Config tab, turn off (disable) Sip Router Add.

IP '	VDP Door St	ation Web Serve	r V1.0			
	System Config	TCP/IP	FTP Config	SIP Server Config	Port Config	DDNS Config
	<ul> <li>Local Config</li> <li>LAN Config</li> </ul>	WEB P	ort 80	(80, 1025~	65535)	
_	> Device Manager	SIP P	ort 5060	(1~65535)		
	<ul> <li>Network Config</li> <li>Video Set</li> </ul>	RTP P	ort 15000	(15000~20	000)	
	> User Manager	Sip Router Ac	ld. Setting	Enable		
	<ul> <li>IPC Information</li> </ul>		Warning:The devi	ce needs reboot after modif	ing the config above.	
	<ul> <li>Publish Information</li> <li>UPnP Config</li> </ul>		Default	Refresh OK		
	Info Search					
	Status Statistics					
	Logout					



# 3.2. Creating Users

#### (SIP client for VTO2000)

Go to the Device Manager menu to the 8001-Indoor Station Manager folder where you create users 502, 503.

#### • Creating a new user

Press the Add button to display the window to create a new user (for example: Lara Intercom).

IP VDP Door S	tation Web Server	V1.0							
System Config	Outdoor Station Manager	8001-Indoor Station Mar	nager Config M	lanager					
> LAN Config	FamilyName	FirstName	VTH Position	Room Number	Open Door Password	Register Type	Card No. Info	Modify	Delete
> Device Manager			#	9901	******	public		2	<b>_</b>
<ul> <li>Network Config</li> </ul>		7							
> Video Set	Add Clear								
> User Manager									
> IPC Information									
> Publish Information									
> UPnP Config									
▶ Info Search									
▶ Status Statistics									
▶ Logout									

In line VTH short No. Set: for LARA Intercom - 502 (for MIIRF - 503) - the number must always be set

In the Password Register line, type the password: asdf

In the Register Type line, switch to local.

Confirm with OK.

Add			×
	FamilyName		
	FirstName		
	VTH Short No.	502	
Oper	Door Password		
Re	gister Password	••••	
	Register Type	local 🗸	
		OK Cancel	-

You create the other users in the same way.

For both LARA Intercom and the application, the user is set up the same way.

A maximum of 5 users can be set per VTO2000 videophone.

After setting the DAHUA Video telephone, restart the Logout menu by pressing the Restart button.





# 4. Setting up a DAHUA contact on LARA Intercom

(Program Lara Configurator v. 3.4.003 or higher)

Register a contact in the Lara configurator •

Use the Load settings button to connect to the IP address of the LARA device.

On the Intercom tab, enable Enable Intercom

Activate the **iMM server**.

Fill items:

Display: Input

User: 502

Password: asdf

Domain: already set (IP address Dahua video phone)

ARA Configurator v3.4.003		
Přihlášení administrátora: Admin: admin Heslo: xxxxxxx	LAN parametry: IP: 10.20.30.10 Vyhledat zařízení Verze FW: verze FW: verz	ařízení: Děšné 1009 rze B
Operace: De	álkové ovládání:	
Načíst nastavení	I<< PLAY STOP >> I Název stanice:	
Uložit nastavení		Zvonek
Nastavení zařízení:		
Síťové nastavení   Seznam sta	anic   Funkce   Interkom   Ekvalizér   Aktualizace FW	
Hlavní nastavení: *	Seznam kontaktů:	
Povolit Interkom	Název:	<b></b>
C P2P  IMM server	Telefonní číslo:	
I Hlavni obrazovka	Typ zařízení: neznámý	
Display: Hall	Kamera: zakázána	_
Uživatel: 502	Spínač: neaktivní	
Heslo: asdf	Počet ko	ontaktů: 0 / 32
Doména: 10.20.30.17	Auto-prijeti. jizakazano	
	NO NO	ový Editovat

Create a new contact •

To create another contact, use the **New** button.

With this connection to the Dahu Videophone there can be up to 5 contacts.

#### 4.1. Verify connection

For the connection functionality, verify the Device Status item on the VTO 2000 web interface in the Status Statistic menu

IP VDP Door St	tation Web Server	V1.0			
System Config	Device Status				
- Status Statistics	VTH	Status	IP:Port	Reg Time	Off Time
Device Status	8001	Online	10.20.30.17:5061	2017-03-13 16:18:16	0
> Logout	502	Online	10.20.30.10:5060	2017-03-13 17:14:12	0
Logoar					🖬 🛋 1 / 1 🕨 🍽 Go to 🕢 📦





# 5. Set DAHUA contact in iHC-MAIRF Application

The DAHUA Videophone can be connected separately or in an existing installation with eLAN-RF-003 (or eLAN-RF-Wi-003).

Enter the settings in the app. Touch Advanced Settings and then on the Intercom, you will see the videophone setup menu.

Enter setup	<b>く</b> Back		Help 📿	< Back		
					cameras	
IHC-MAIRF		elan settings			intercom	
Settings						
Help		rooms				
Products						
Exit						
		advanced settings				
	I		-			
Version: 1.0.066_developerBuild						

Touch to enable Intercom.

Select the Dahua device type. Enter the access data for the selected Dahua Videophone.

	< Back		
	Enable intercom		Authorised Intercom
	Select type of intercom: D	ahua	
User number ID Outdoor station manager *	8001		
Username**	admin		
User password**	admin		
User SIP - 503 for application	503		
User password set 503: asdf	asdf		
IP address DAHUA	10.20.30.17		
video phone	Status: On		
		Refresh	Save and update your settings

\* In the default setting of 8001, the number can be found on the web interface of the videophone, in the System Config menu, Device Manager, the Outdoor Station Manager tab

\*\* Factory settings:

Username: admin

User password: admin

You can change the name and password to the video console's Web interface in the System Config menu, User Manager.





#### Checking the connection

After intercom setup, you can check the successful connection of the Dahua Videophone application in the android notification bar



#### Incoming call from the DAHUA Videotelephone:

Incoming call:





# 6. Set up the DAHUA VTO 2000 Videotelephone as a client of iMM or Connection Server

Sign into the VTO 2000 Videotelephone web interface in the recommended Internet Explorer browser.

Login data as the factory settings: Name: admin Password: admin

Confirm with the Login button.



In the Lan Config menu, fill in line No. The contact name of the Intercom. Under Support building and Support units, switch to Turn off. On the Server type menu, switch to Asterisk mode. Confirm with **OK.** 

IP VDP Door St	ation Web Server V	/1.0	
🔻 System Config	LAN Config		
Local Config     LAN Config	Building No.	0	
<ul> <li>Network Config</li> <li>Video Set</li> </ul>	Building Unit No.	0	
> User Manager	Call VTS Time	00 V : 00 V To 23 V : 59 V Call VTS Or Not	
▶ Info Search ▶ Logout	Support Building	⊖ Turn on	
	Support Unit	O Turn on ● Turn off	
	Server Type	Asterisk	
		Warning: The device needs reboot after modifing the config above.	
		Default Refresh OK	





Go to the Network Config menu.

In the SIP Server Config tab, enter the IP address of the iMM Server / Connection server or PBX 3rd. (10.20.30.20).

In the  $\ensuremath{\textbf{Password}}$  line, set the password for the Intercom contact

In the SIP line, delete the VDP text and leave it empty.

Save the settings with the  $\mathbf{OK}$  button.

IP VDP Door St	t <b>ation</b> Web	Server V	/1.0		
System Config	TCP/IP	F	TP Config	SIP Server Config	Port Config
LOCAL CONING     LAN Config	[	IP Address	10.20.30.20		
> Network Config		Port	5060	(1~65535)	
> Video Set		Username	Intercom		
> User Manager		Password	••••		
▶ Info Search ▶ Logout		SIP Domain			
			Sip Server Ena	ible	
			Warning:The device	ce needs reboot after modifin	g the SIP server enable.
			Default	Refresh OK	

Switch to the **Port Config** folder. Uncheck the **Enable field**. Save with **OK**.

IP VDP Door St	ation Web Server V	/1.0			
	TCP/IP F	TP Config	SIP Server	Config	Port Config
<ul> <li>Local Config</li> <li>LAN Config</li> </ul>	WEB Port	80		(80, 1025~6	\$5535)
> Network Config	SIP Port	5060		(1~65535)	
> Video Set	RTP Port	15000		(15000~200	000)
> User Manager	Sip Router Add.	Setting	Enable		
Info Search					
▶ Logout		Warning:The devic	e needs reboot :	after modifir	ng the config above.
		Default	Refresh	ОК	

Select the A & C Manager tab. In the Villa Call Number line, enter Hall. Confirm with OK.

IP VDP Door St	tation Web Server V	/1.0				
System Config	Local Config A8	C Manager	Talk Manager	System Time	Facade Layout	Config Manager
Local Config	Unlock Responding Interval	15				
<ul> <li>Device Manager</li> </ul>	Unlock Period	2				
> Network Config	Door Sensor Check Time	30	Check	Door Sensor Signal Before	Lock	
> Video Set	Open Door Command	123				
<ul> <li>User Manager</li> <li>Info Search</li> </ul>	Villa Call Number	Hall				
▶ Logout	Auto Snapshot	O Turn on	<ul> <li>Turn off</li> </ul>			
		Default	Refresh OK			



### 6.1. Connect the DAHUA VTO 2000A Video phone as a client of the iMM or Connection Server

Log in to the IMM or Connection Server web interface and go to the Intercoms tab.

Server	Configura	ation Systen	n HA Bus	RF Configu	ration Zones	House	SecurityScan	EventScript	A/C	Rooms
Cameras	Miele	Intercoms	Energy (	Giom Manua	Default Sett	ings Aud	it Logout			

In the Intercom settings menu, select the type of Dahua-VTO2000A.

Fill in the login information on the device and the lock code for opening.

Intercom settings			
Device type: Dahua-VTO2000A v Username: admin	Password:	Lock code: •	save

#### On the New intercom account, create a user on the Asterisk (PBX) server.

Enter the video phone name and fill in the account, name and password to connect to the Asterisk server from the config menu of the SIP server config in the DAHUA

video telepho	ne.		Account on the SIP server	
	New intercom account	(		
Displa when	Contact name: Entry y name dialed	Account: Intercom	Secret: asdf	Stream: rtsp://10.20.30.17 Add

Contact list on the server

Apply settings	Activate newly created contacts on the server			
ntercom accounts				
Contact name	Account	Secret	Stream	
Entry	Intercom	asdf	rtsp://10.20.30.17	Remove Get 2n config file
			2	
			Deleting a contac	t Uploading 2N

#### Connecti on options

IP Туре	Connection	Number of Users	Redirecting IP Type / server
Dahua VTO2000	Independent (VTO 2000)	0-5	0
Dahua VTO2000	Client Connected to (iMM Server)	0-100	0 / 5
Dahua VTO2000	Client Connected to (Connection Server)	0-15 *	0 / 5
2N Helios IP series	Client Connected to (iMM Server)	0-100	3 / 5
2N Helios IP series	Client Connected to (Connection Server)	0-15 *	3 / 5
Alphatech IP - BOLD	Client Connected to (iMM Server)	0-100	0/5
Alphatech IP - BOLD	Client Connected to (Connection Server)	0-15 *	0 / 5

