CONTENTS

1. Introduction ........................................................................................................................................... 3
2. Update FW on the DAHUA Videophone ............................................................................................... 4
  2.1. Download FW .................................................................................................................................... 4
  2.2. Settings ............................................................................................................................................. 5
  2.3. Updating FW ....................................................................................................................................... 6
3. Setting up the DAHUA Videophone ....................................................................................................... 8
  3.1. Logging in to the web interface ......................................................................................................... 9
  3.2. Creating Users ................................................................................................................................. 11
4. Setting up a DAHUA contact on LARA Intercom .................................................................................. 12
  4.1. Verify connection ............................................................................................................................ 12
5. Set DAHUA contact in iHC-MAIRF Application .................................................................................. 13
6. Set up the DAHUA VTO 2000 Videophone as a client of iMM or Connection Server ......................... 15
  6.1. Connect the DAHUA VTO 2000A Video phone as a client of the iMM or Connection Server .......... 17
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](http://dahuawiki.com/ConfigTool) and install it on your computer.
2.2. Settings

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

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.

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.

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 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.

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.
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.fw” 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 into 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 ...).

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

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

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.

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)

- 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
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.

Touch to enable Intercom.
Select the Dahua device type. Enter the access data for the selected Dahua Videophone.

* 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:

Accept call
Reject call
Unlock
End 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.
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 **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 **OK** button.

![IP VDP Door Station Web Server V1.0](image)

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

![IP VDP Door Station Web Server V1.0](image)

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

![IP VDP Door Station Web Server V1.0](image)
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.

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.

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 telephone.

Contact list on the server

Connection options

<table>
<thead>
<tr>
<th>IP Type</th>
<th>Connection</th>
<th>Number of Users</th>
<th>Redirecting IP Type / server</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dahua VTO2000</td>
<td>Independent (VTO 2000)</td>
<td>0-5</td>
<td>0</td>
</tr>
<tr>
<td>Dahua VTO2000</td>
<td>Client Connected to (IMM Server)</td>
<td>0-100</td>
<td>0 / 5</td>
</tr>
<tr>
<td>Dahua VTO2000</td>
<td>Client Connected to (Connection Server)</td>
<td>0-15 *</td>
<td>0 / 5</td>
</tr>
<tr>
<td>2N Helios IP series</td>
<td>Client Connected to (IMM Server)</td>
<td>0-100</td>
<td>3 / 5</td>
</tr>
<tr>
<td>2N Helios IP series</td>
<td>Client Connected to (Connection Server)</td>
<td>0-15 *</td>
<td>3 / 5</td>
</tr>
<tr>
<td>Alphatech IP - BOLD</td>
<td>Client Connected to (IMM Server)</td>
<td>0-100</td>
<td>0 / 5</td>
</tr>
<tr>
<td>Alphatech IP - BOLD</td>
<td>Client Connected to (Connection Server)</td>
<td>0-15 *</td>
<td>0 / 5</td>
</tr>
</tbody>
</table>