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Video Doorbell

TECHNICAL DATA SHEET | Ref: 2024 006 | JUN 2024

#### Dahua

Dahua Video Doorbell

Firmware Version 4.7 Outdoor and Indoor unit







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# Used Setup

### Example of the physical layout of fw v4.7 indoor unit



## Example of the web browser layout of fw v4.7 outdoor unit





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### What products and firmware are used.

1	Initialized	VTO	DHI-VTO2311R-WP	192.168.22.170:37777	d4:	V4.700.0000000.0.R
2	Initialized	VTH	DHI-VTH5422HW	192.168.22.156:37777	fc:5	V4.700.0000000.0.R

Outdoor station:

DHI-VTO2311R-WP

Firmware : V4.700.0000000.0.R

Product : https://smartsd.com/product/20328085/dahua-dhi-vto2311r-wp FW : https://www.dahuasecurity.com/search/products?keyword=vto2311

Indoor monitor:

DHI-VTH5422HW

Firmware : V4.700.0000000.0.R

Product : https://smartsd.com/product/20325022/dahua-dhi-vth5422hw

FW : https://www.dahuasecurity.com/products/All-Products/Video-Intercoms/2-Wire-IP/Indoor-Monitor/Pro-Series/VTH5422HB/VTH5422HW





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## **Programming local wizard**

How to program the outdoor station.

First startup

Use the configtool to initialize the VTO. Give the VTO a Password and an IP address. Login to the local web browser.

Device Initialization					
	🕑 Disclaimer		Password Settings		C Auto Check for Updates
	Usernar	ame			
	• Passw • Confir	word firm Password			
	Email A	Address	)vdv@smartsd.com	Email Address	
			Next		



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M WEB SERVICE Setup Wizard				
	0			
	Step 1			2 Step 2
Add Delete Clear Refresh				Piease enter Q
Device Type	T SIP No.	IP Address	Online Status	Operation
VTO	8001	127.0.0.1	• Online	2 8
U VTH	9901#0	192.168.22.156	Online	2 8
U VTH	9901#1		Offline	∠ 8
U VTH	9901#2		Offline	∠ 8
U VTH	9901#3		Offline	∠ 8
U VTH	9901#4		Offline	28
U VTH	9901#5		Offline	28
U VTH	9901#6		Offline	∠ 8
U VTH	9901#7		Offine	∠ 8
U VTH	9901#8		Offline	28
11 records				< 1 2 > 10 / page > Go to Page
		Exit Back OK	l i i i i i i i i i i i i i i i i i i i	
-				
WEB SERVICE Setup Wizard				
A wee service Setup Wizard				
▲ web SERVICE Setup Wizard	🕑 Step 1			(v) Step 2
A WESSERVICE Setup Woard	✓ Step 1			✓ Step 2
A wes stavice : Setup Woard	✓ Step 1			✓ Step 2
A WES SERVICE Setup Waard	🕑 Step 1			(c) Step 2
A WES SERVICE Setup Waard	Step 1	Ø		(c) Step 2
A WES SERVICE Setup Woard	⊘ Sep 1	Successfully configu	red.	(c) Step 2
A WES SERVICE Setup Woard	⊘ 3ep 1	Successfully configu	red.	(c) Step 2
A WES SERVICE Setup Woard	⊘ 3ep 1	Successfully configu	red.	⊙ Step 2
A WES SERVICE Setup Woard	⊘ 3ep 1	Successfully configu	red.	(√) Step 2
A WES SERVICE Setup Woard	⊘ 3ep 1	Successfully configu	red.	(✔) Step 2
▲ WES SERVICE Setup Woard	⊘ 3ep 1	Successfully configu	red.	✓ Step 2
▲ WES SERVICE Service Wound	✓ 3ep 1	Successfully configu	red.	✓ Step 2
▲ WES SERVICE Service Wound	✓ 3ep 1	Successfully configu	red.	₩ Step 2
▲ WES SERVICE Service Wound	✓ 3ep 1	Successfully configu	red.	₩ Step 2
▲ WES SERVICE Service Wound	✓ 3ep 1	Successfully configu	red.	✓ Step 2
WES SERVICE Setup WEARD	Step 1	Successfully configu	red.	✓ Step 2
▶ WEB SERVICE Setup WEARD	Step 1	Successfully configu	red.	✓ Step 2
▲ WES SERVICE Setup WEARD	✓ Step 1	Successfully configu	red.	Step 2
▲ WES SERVICE Setup WEARD	✓ 34p 1	Successfully configu	red.	Step 2
▶ WEB SERVCE Setup WEARD		Successfully configu	red.	Step 2





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## Menu's in the outdoor station

Local Device config.

Login in to the web browser.



# There you'll see the new layout.







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There you'll find settings like, basic settings and access control tab.

<u>Basic Settings.</u>	
-Device type	(For single or multiple button configuration)
-Room Number	(For call settings)
-Call Period	(Time schedule to enable or disable call button)
-SD Card Functions	(Enable functions for snapshots)



#### Below an example of 2 functions activated on the SD card. With the SD card inserted in a PC afterwards.

Functions					
Storage Method	SD Card				
SD Card Usage		0.53M/7574.13M	SnapShot × +		×
	Format SD Card	If the SD card cannot be recognized, you can format it.	$\leftarrow$ $\rightarrow$ $\uparrow$ $\mathbb{C}$ $\square$ $\rightarrow$ USB-station (E:) $\rightarrow$	SnapShot > Zoeken in SnapShot	۹
Auto Capture while Unlocking			⊕ Nieuw - 👗 🗘 🛱 🖄	∿ Sorteren ~	Details
Auto Capture during Call			Afbeeldinger 🖈 Naam	- Gewijzigd op Type Grootte	
Upload Messages and Videos			Muziek * AccessControl	13-6-2024 09:45 Bestandsmap	
Auto Record while Calling			🔀 Video's 🎓 🧮 Coll	13-6-2024 09:44 Bestandsmap	
<ol> <li>Please regularly perform</li> </ol>	backups to avoid data lo	355.	Chermopname		
Apply Refresh Defi	auit				



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<u>Access control</u>

-Input and output settings

I WEB SERVICE	_ <b></b>	Local Device Config		
Basic Settings				1
Access Control	~	Interval between Consecutive	15	s (1-20)
Confia		Door Unlocked Duration	2	s (1-20)
		Alarm Input/Door Detector	🔿 Alarm Input 💿 Door Detecto	or
		Check Door Detector Signal		
		Door Detector Alarm Thresh	30	s (1-9999)
		Door Detector Status	● NC ○ NO	
		Report Status of Door Detector		
		Unlock Code	123	
		IC Card		
		IC Card Encryption & Verifica		
		Apply Refresh De	efault	



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## **Device settings**



#### Here you'll find the former "household settings" like VTH, room numbers and online status.

间 WEB SERVICE				Setup Wizard   🕲   🎗 admin   🕲   🕽
Add Import Export Delete Clear Refres	h			Please enter Q
Device Type	T SIP No.	IP Address	Online Status	Operation
UTO VTO	8001	127.0.0.1	Online	28
U VTH	9901#0	192.168.22.156	Online	2
U VTH	9901#1		<ul> <li>Offline</li> </ul>	2 8
U VTH	9901#2		<ul> <li>Offline</li> </ul>	2 8
U VTH	9901#3		<ul> <li>Offline</li> </ul>	2 8
U VTH	9901#4		<ul> <li>Offline</li> </ul>	∠ 8
□ ∨тн	9901#5		Offline	∠ 8
П УТН	9901#6		<ul> <li>Offline</li> </ul>	∠ 8
U VTH	9901#7		<ul> <li>Offline</li> </ul>	∠ 8
U VTH	9901#8		<ul> <li>Offline</li> </ul>	∠ ≙
11 records				< 1 2 > 10/ page > Go to Page



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## **Person Management**



#### Possibility to add User with card access.

Add import Reson Boott Reson Dones Cear Refresh Add X Prose	
No. Person ID Room No. Card Operation	
* report d  * Room No.  Ubername	



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## **Network settings**

MEB SERVICE			Setup Wita	a   🛛   A admin   🔍   20
n,				
c de	Local Device Config	Device Setting	Person Management	
	Network Settings	Log	System	

TCP/IP tab to edit the LAN/WLAN settings.

🗎 WEB SERVICE   🖻	Network Settings	
<b>IP</b> ТСР/IP	Default Card	
👽 Port	NIC	
SIP Server	MAC Address	d4 : 43 : 0e : 05 : b8 : 37
Cloud Service	IP Address	192 . 168 . 22 . 170
UPnP	Subnet Mask	255 . 255 . 255 . 0
🕈 WI-FI	Default Gateway	192 . 168 . 22 . 1
<b>G</b> bale serves	Preferred DNS	8 . 8 . 8 . 8
	Alternate DNS	8.8.4.4
		0 <b></b> . <b>0</b>
	Apply Refresh	Default
	herest	



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SIP Server tab to define between main and substation.

ENABLED => this outdoor unit is the main unit DISABLED => Fill in the IP address from the main unit.

🗎 WEB SERVICE 🛛 🏛	Network Settings	
<b>IP</b> тср/ір	SID Server	
₽ Port	Sir Server	
SIP Server	IP Address	192.168.1.111
Cloud Service	Port	5060
U UPnP	Username	8001
🗢 Wi-Fi	Password	
Basic Services	SIP Domain	VDP
	SIP Server Username	admin
	SIP Server Password	•••••
	Apply Refresh	Default

#### Standard parameters:

Server type	: Device
IP address	: (IP address of the main unit, who has "sip server" enabled.)
Port	: 5060
Username	: 8001
Password	: 123456
SIP Domain	: VDP
SIP Username	: admin
SIP Password	: (Password of the main unit, who has "sip server" enabled.)



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Cloud service tab, to link the first (or only) button to the DMSS app.

Default the function is ENABLED.

🗎 web service 🛛 🏛	Network Settings
IP TCP/IP	Enable
😨 Port	After the function is enabled and the device connects to the network, we
SIP Server	will collect device information such as the IP adress, MAC address, device name and serial number. The collected information will only be used to
Cloud Service	remotely access the device. If you do not want to enable this function, please clear the selection from the check box.
U UPnP	P2P Status Online
🔶 Wi-Fi	Par Statur Online
Basic Services	SN
	Apply Refresh



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## **System**



System tab for multiple settings:

-Video	Stream and camera settings
-Audio	Audio messages and volume control
-Time	
-Onvif user	
-Config	Im/ex-port settings of config file
-Maintenance	Auto reboot schedule, DEFAULT = ON!!!
-Update	
-Legal and system info	





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Example of the Audio messages and volume control.

🖻 web service 🛛 📾	System		Setup Witard   🕲   A. admin   😇   💢
■ Video	Audio Control		
Audo     Time     Config     Config     Config     Config     Lipstente     Lipstente     Lipstente     System Info	Voice Prompt shile Brigure  Ringstore Ringstore United Autor United Autor United Unite		
	Sover Youne  Sover Youne  Sover Youne  Sover Young  Sove		
	Audio Type Criling Swry Successfully Unioned Nobody Arssend Cell Ended Nonesistert Number	Auto Me	Madify & & & & & & & & & & & & &

#### Standard the maintenance time is activated!

曲 web service 🛛 🛍	System Log Network Settings	Setup Wizard	ତି   R admin	
♥ Video	Maintearce			
Audio	Auto Maintenance			
Ø Time	Maintenance Time Tue V 0200 V			
A ONVIFUser				
😪 Config	Appy Hertesh			
Maintenance				
全 Update				
Egal Info				
System Info				





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### program the indoor monitor(s).

Ņ	Configtool	7 Device(s) found	9		Sea	rch Setting 🛛 🔻 —	×
P	Modify IP		Network Config	Network Terminals Password	WireZone	AlarmMode 4	•
Ŧ	Device Upgrade	► VTO ▼ VTH 192 168 :37777	Local Info				
<u>م</u>	Online Ungrade	192.168. :37777 192.168. :37777 192.168. :37777	Room	Add roomnumber			
0.5		192.168. :37777	Main IP	0.0.0.0	Main VTH	•	
ø	Device Config		Main User	admin	Main Password	•••••	
٥	System Settings		SIP Server				
٩	December 20 and		Sip Server IP	IP address of VTO	Sip Server Port	5060	
	Password Reset		Sip Register Pwd	••••• Default (123456)	Sip Realm	VDP	
Б	Building Config		Login User	admin	Login Password	Password of VTO	
			Enable				
88	CGI Protocol					ок	
						Apply to	

1. DEVICE CONFIG (for one button main unit setup).

In the tab "Network config" click on the VTH you want to edit. "Local info" tab.

> Fill in the "room number" at the "room" option the same numbers as like in the VTO. example, if this is the first one fill in "9901#0". The next (SUB) VTH will be room "9901#1" and edit the "main vth" to "sub vth".

"SIP Server" tab.

The "Sip server IP" is the IP address of the (main) VTO.

Fill in the password from the VTO in the "login password" tab.

After all is edit, click "OK" In the bottom right corner.



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	Dahua								Video D	oorbell
Ņ	Configtool	7	Device(s)	found	0			Sea	arch Setting	<b>▼</b> - ×
₽	Modify IP				Network Config	Network Terminals	Password	WireZone	AlarmMode	•
ŧ	Device Upgrade	► VTC ▼ VTF	) <del>1</del> 192.168. 192.168.	:37777 :37777	Network Termi Main VTO	nals T				
ᠬ	Online Upgrade				Main VTO Name	Main VTO		Main VTO IP	IP address VTO	
	Davice Config				Main VTO User	admin		Main VTO Pwd	Password VTO	
۲	Device Connig				VTO Enable St	atus				Save
٥	System Settings									
⋳	Password Reset									
Ъ	Building Config									
器	CGI Protocol									
										Apply to

#### 1. DEVICE CONFIG

In the tab "Network terminals" click on the VTH you want to edit. Fill in the IP address and the password of the VTO. Click on "Enable" and "SAVE". This option makes sure u can see the outdoor station without calling.

### How to check the local setup.

When you finished the programming of the VTO and VTH's. You'll need to reboot all the devices. This will make sure every device will make a new (fresh) connection to the sip server (VTO). This can be checked at "device setting" in the VTO. <u>Rebooting and connecting can take up to 10min</u>.



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## Activating DMSS app in indoor monitor



In the home screen click on the QR code icon in the middle of the right side icons.



It will raise the question if u want to use the DMSS app. Click "OK".





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Activate the cloud by clicking the slider.

0					alhua
	~	Change Network Password		e=	Contractor
	Cloud				
	Username	User		129	
	New Password	Please enter a password containing 8-16 characters	741	0	
	Confirm Password	Please enter a password containing & 16 characters	745	8	
				ØD	
	1				
				and the	

Edit the name and fill in a new password.



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After confirming the ID and Password settings, there will appear a new login QR code. There is now a new "DMSS" tab in the top of the screen.





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 Connecting app to installation

 Which app do I need to download.

For android and Apple mobile phones, download in the app stores the "DMSS" app. <u>https://play.google.com/store/apps/details?id=com.mm.android.DMSS&hl=en&gl=US</u> <u>https://apps.apple.com/us/app/dmss/id1493268178</u>

## How to make an account.

In the "Small apartment" mode u **NEED TO** make an account for using the app for receiving push notifications. This because of the multiple buttons on one location.



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### How to connect the app to the indoor monitor.

When downloaded the app. Open the app on your mobile device.







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When the scan is succeeded. You will see the next screen with the serial number written down. When u added a security code you need to fill this in. When there is no security code leave this empty and press next.



## Device SN and Security Code

# Serial number

# Please enter the security code

If the security code is not on the device label, you can leave this field empty.

Next



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Choose what kind of device you scanned. In this case it's a "VTH". When you want to finish this step the app will show a message that u need to make an account. Click "Log in"







TECHNICAL DATA SHEET | Ref: 2024 006 | **JUN 2024** Dahua Video Doorbell Make an account with a personal mail address. ALL USERS NEED TO HAVE THEIR OWN ACCOUNT !! You'll receive an code in the mail to verify. < < Welcome Sign up Sign up Enter email **Email adres** × Ø Enter password Þ Combination of 8-32 letters and characters, case sensitive. Get verification code Forgot password? I have read and agree to

> User Service Agreement Privacy Agreement



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When u put in the received verify code, the next screen will appear. Make up a device name for reference. Then use the data that was put in the VTH. Edit the "username" if it's edit in the VTH. Fill in the "device password" that was made in the VTH.





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When successfully added, you'll see the next screen. Make sure all options for notifications are enabled. In the DMSS as in the mobile device settings. There is an option to call from the mobile device to the indoor monitor, also to the outdoor station, with or without video. Also open the door with release key 1 and 2.

