Digital Villa VTO (VTO6 Series) User's Manual

V2.0.1

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Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Note:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly. Otherwise, it may cause fire or electric shock.

Special Announcement

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
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- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

1 Product Overview

1.1 List of Models

This manual applies to multiple product models; please carefully confirm your model and its features.

Model	Chassis	Color	Unlock via	Button Type	Lock Control Module
	Material		IC card		
VTO6000A	Metal	Metal	N/A	Mechanical	External
		grey		key	
VTO6110B	Fireproof	Black	Support	Touch button	External
	ABS				
VTO6110BW	Fireproof	White	Support	Touch button	External
	ABS				
VTO6210B	Fireproof	Black	Support	Touch button	Built-in
	ABS				
VTO6100C	Fireproof	White	Support	Mechanical	Built-in
	ABS			key	
VTO6000C	Fireproof	White	Not support	Mechanical	Built-in
	ABS			key	
VTO6000CM	Metal	Metal	Not support	Mechanical	Built-in
		grey		key	

1.2 VTO6000A

1.2.1 Front Panel



Figure 1-1 VTO6000A

No.	Port Name	Note
1	Nameplate	You can fix company nameplate here.
	Companyation	Light compensation will automatically turn on
2	Compensation	during monitoring, calling, or connecting status if
	Light	there is no enough light in environment.
3	Camera	It monitors corresponding door region.
4	Call Button	Call center or VTH.
5	Speaker	Audio output.
6	MIC	Audio input.

1.2.2 Rear Panel



Figure 1-2 VTO6000A

No.	Component Name	Note
1	Power	Connect to 12V DC.
2	RS485 Port	May connect to access control extension module
3	Network Port	Plug in network cable (RJ45 port).

1.3 VTO6110B/VTO6110BW/VTO6210B

1.3.1 Front Panel

VTO6110B, VTO6110BW and VTO6210B's front panel is as in Figure 1-3.



Figure 1-3 VTO6110B/VTO6110BW/VTO6210B

No.	Component	Note
	Name	
1	Componention	Light compensation will automatically turn on during
	Light	monitoring, calling, or connecting status if there is no
	цуп	enough light in environment.
2	Camera	It monitors corresponding door region.
3	Card Swiping	Authorize IC card and unlock by swiping IC card (must
	Area	connect to access control extension module).
4	4 Coll Dutton	Lightly touch button area, to call center or VTH.
		Blue NO: VTO is under standby status.

1.3.2 Rear Panel

VTO6110B and VTO6110BW's rear panel is as in Figure 1- 4 VTO6110B and VTO6110BW.



Figure 1- 4 VTO6110B and VTO6110BW

No.	Component	Note
	Name	
1	Vandal	It will generate clarm cound and report to the center and
	Proof	It will generate alarm sound and report to the center once
	Switch	v i o is forced to leave the wall.
2	Network	Diug in natwork apple (D 145 part)
	Port	Flug III network cable (RJ45 port).
3	Power	Connect to 12V DC.
4	RS485 Port	May connect to access control extension module.
5	Speaker	Audio output

VTO6210B's rear panel is as in Figure 1-5 VTO6210B.



Figure 1- 5 VTO6210B

No.	Component	Note
	Name	
1	Vandal Proof Switch	It will generate alarm sound and report to the center once VTO is forced to leave the wall.
2	Network Port	Plug in network cable(RJ45 port).
3	Power	Connect to 12V DC.
4	RS485 Port	May connect to door lock, door sensor and unlock button. It reserves port for other device.
5	Speaker	Audio output

1.4 VTO6000C/VTO6000CM/VTO6100C

1.4.1 Front Panel

VTO6000C and VTO6000CM's front panel is as in Figure 1- 6 and VTO6100C's front panel is as in Figure 1-7.



Figure 1- 6 VTO6000C and VTO6000CM



Figure 1-7 VTO6100C

No.	Component Name	Note
1	Compensation Light	Light compensation will automatically turn on during monitoring, calling, or connecting status if there is no enough light in environment.
2	Camera	It monitors corresponding door region.

3		Authorize IC card and unlock by swiping IC card
		(must connect to access control extension module).
	Card Swiping	Note:
	Area	Only VTO6100C supports IC card unlocking function.
		Silk-screen in this area may vary for different
		product.
4		Lightly touch button area, to call center or VTH.
	Call Button	Blue NO: VTO is under standby status.
		Blue flashing: VTO is calling or in call status.
		Yellow: IC card unlocking or call is abnormal.

1.4.2 Rear Panel



	Figure	1- 8	VTO6000C/V	/TO6000CM/	VTO6100C
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No.	Port Name	Note
1	Network Port	Connect to network cable (RJ45 port).
2	Power	Connect to 12V DC.
3	Debug Port	For installer use.
4	Green Port 1	Connect to lock.

5	Green Port 2	Connect to door sensor and unlock button.
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2 Introduction to Web

2.1 Login

Here takes VTO6210B as an example.

First, make sure both PC and the VTO are connected to the Internet and follow these steps to login Web management page.

Step 1. In Internet Explorer input the IP address of VTO, press Enter. You will see the login page as in Figure 2-1.

IP VDP Door Station Web Server V1.0
Username: admin Password:
Login Cancel

Figure 2-1

Step 2. Input username and password.

Step 3. Click on Login.

Note: The default IP address of VTO is 10.22.5.189 or 192.168.1.110. Default username password is admin/admin. After you login for the first time, please change the password for security purpose.

2.2 System Config

2.1.1 Local Config

2.2.1.1 Local Config

In Local Config interface, you can view VTO model, version info and etc.

IP VDP Door Station Web Server V1.0							
System Config Local Config	Local Config	A&C Manager	System Time				
 LAN Config Indoor Station Manager 	VTO Model Video Format	VTO6100C WVGA	~				
 Network Config Change Password 	Reboot Date Volume Config	Tuesday 80	Tuesday 80				
Info Search Status Statistics	Frame Rate Version Info	25 2013-07-24 V	25 ▼ 2013-07-24 V1.000.0.0				
▶ Logout	Restore Backup	Default	Vth Info	ОК	Default All		
		Restore Back	qu				

Figure 2-2

Parameter	Note
VTO Model	Display VTO model, such as villa VTO, unit VTO.
Video Format	Set video format that collected by the camera, including: WVGA and D1.
	WVGA resolution is 800×480; D1 resolution is 704×576.
Reboot Date	On the set date, device will automatically reboot.
Volume Config	Adjust device volume, range 0 \sim 100.
Frame Rate	NTSC: 30 fps, PAL: 25 fps.
Version Info	Display device version info.
Restore Backup	Mainly used to restore card no. and VTH info, refer to Ch 3.7.
Default	Only restore current Local Config page to default settings.
Default All	Device restores all parameters to default settings.
	Every 30 minutes, VTO automatically saves card no. and VTH information
	in the system.

2.2.1.2 A&C Manager

Figure 2-3

Parameter	Note			
Unlock Responding	The interval between current unlock and next one,			
Interval	unit is second.			
Unlock Period	Period door remains unlocked, unit is second.			
FTP IP, FTP port, FTP	FTP server is used to store picture taken when card is			
user, FTP password	swiped at VTO. User can login FTO to get these			
	pictures.			
Issue Card	Activate IC card of the VTO so user can swipe the IC			
	card to unlock.			
	Note:			
	Please refer to Digital Villa VTO (VTO6 Series)			
	Installation Guide V 2.0.0			

2.2.1.3 System Time

Here you can set date format, time format, and input system date and time. You can also click on Sync PC to synchronize system time with PC time.

2.2.2 LAN Config

Here you can register VTO to center and set how to call center. Please refer to Ch 3.1.1.

2.2.3 Indoor Station Manager

In Indoor Station Manager interface, you can add VTH (digital indoor station), view VTH info and delete VTH.

IP VDP Door Station Web Server V1.0							
System Config	Indoor Station						
Local Config	Digital Indoor Station						
LAN Config	FamilyName FirstName	Room No.	SN	IP Address	Card No. Info	Modify	Delete
Indoor Station Manager	000000000000000000000000000000000000000						
> Network Config	000000000000000000000000000000000000000	101	330103011071010151	172.5.2.133		2	•
> Change Password	000000 000000						
► Info Search							
Status Statistics		198	330103011071019851	172.5.2.186		2	•
▶ Logout	www www						
		199	330103011071019951	172.5.2.186		2	•
		197	330103011071019751	172.5.2.143		2	•
		196	330103011071019651	172.5.2.186		2	•
	Add						┥ ┥ 1/1 🕨 🖿 Go to

Figure 2-4

Add VTH

In Indoor Station Manager interface, click on Add. The system pops up a window as in Figure 2-5.

Add		×
E a maile à la main		
FamilyName		
FirstName		
VTH Short No.		
IP Address		
	OK Cancel	

Figure 2-5

Fill in VTH info as user's name, VTH short no. and IP address.

Note:

VTH short no. consists of four digits, the first two digits can be within 01~99, the last two digits can be within 01~16.

2.2.4 Network Config

Here you can set VTO IP address, Subnet Mask and Default Gateway.

After you have modified IP address, Web page will reboot and go to the new IP address web page.

IP VDP Door Station Web Server V1.0						
▼ System Config	Network Config					
Local Config	IP Address	10 15 5 242				
> LAN Config	Subnet Mask	255 255 0 0				
> Indoor Station Manager	Default Cateway					
Network Config	MAC Address					
 Change Password 	MAC Address	90 - 02 - a9 - 80 - 41 - 98				
▶ Info Search		Default Refresh OK				
Status Statistics						
▶ Logout						

Figure 2-6

2.2.5 Change Password

Here you can change login password of VTO webpage.

2.3 Info Search

2.3.1 Call History

Here you can view call history of VTO in Call History interface. It can save up to 1124 items. .

Sustan Canfin	VTO Coll History						
Tipfe Coareb							
• Into search	Index	Call Type	Room No.	Begin Time	Talk Time(m)	End State	
 Call History 	1	Outgoing	101	0	00:00	Missed	^
Status Statistics	2	Outgoing	101	0	00:00	Missed	
▶ Logout	3	Outgoing	101	0	00:00	Missed	
-	4	Outgoing	101	0	00:00	Missed	
	5	Outgoing	101	0	00:00	Missed	
	6	Outgoing	101	0	00:00	Missed	
	7	Outgoing	101	0	00:00	Missed	
	8	Outgoing	101	0	00:00	Missed	
	9	Outgoing	101	0	00:00	Missed	
	10	Outgoing	101	0	00:00	Missed	
	11	Outgoing	101	0	00:00	Missed	~

Figure 2-7

2.4 Status Statistics

2.4.1 VTH Status

Here you can view connection status of VTH.

• Status

Offline: VTO and VTH are not connected, you cannot call, monitor, talk or etc. Online: VTO and VTH are connected, you can call, monitor, talk and etc.

- MON
- Unmon: VTH is not monitoring.
- Onmom: VTH is monitoring.

IP VDP Door Station Web Server V1.0							
System Config	VTH Status					<u> </u>	
▶ Info Search	VTH	Status	MON	IP:PORT	REG_TIME	OFFTIME	
	101	Offline	Unmon	172.5.2.133:0	0	0	<u>^</u>
> VTH Status	196	Offline	Unmon	172.5.2.186:0	0	0	
► Logout	197	Offline	Unmon	172.5.2.143:0	0	0	
	198	Offline	Unmon	172.5.2.186:0	0	0	
	199	Offline	Unmon	172.5.2.186:0	0	0	
							×
						H ◀ 1/1 ► ► Go to	

Figure 2-8

2.5 Logout

Here you can reboot device or logout.

Click on logout to log out the system and it returns to login page.

3 Basic Function Introduction

3.1 Call Function

3.1.1 Call Manager Center

Check Register to the MGT Center, you can touch the button to call manager center. Now VTO can only call MGT Center. Manager center's time can be set on management platform or villa VTO's web-end. Once manager center picks up the call, you can perform a visual bidirectional talk with the manager center. You can touch the button on VTO to end call at any time.

- Step 1. According to VTO configured for the center, fill in building no, building unit no. and VTO no.
- Step 2. In LAN Config, check register to the MGT center, as in Figure 3-1.
- Step 3. Fill in MGT center IP address and MGT port no.
- Step 4. Set call VTS time. Within this period, VTO can only call the center.
- Step 5. Check Call VTS or not.
- Step 6. Confirm all config, and click on OK. Enter Logout→ Reboot Devices, to manually reboot the device.

IP VDP Door St	ation Web Server V1.0	
System Config	LAN Config	
Local Conlig LAN Config	Group Call	
Indoor Station Manager	Building No.	7
> Network Config	Building Unit No.:	
> Change Password	VTO No.	6901
▶ Info Search	Register to the MGT Centre	
► Status Statistics	MGT Centre IP Address	10 . 33 . 5 . 227
▶ Logout	MGT Port No.	12801
	Call vts time	00 💌 : 00 💌 To 00 💌 : 00 💌 🗂 Call vts or not
	From VTO IP Address	VTO IP Setup
	Warning:The device needs reb	poot after modifing the config above.
		Default Refresh OK

Figure 3-1

3.1.2 Call User

Press Call button under standby status, and the VTO will call user. User may monitor VTO from VTH.

- On VTH, press Unlock button to unlock door.
- When VTH picks up, you can start talk with the VTH.
- If no one answers the call, then the call will end automatically and device returns to standby status.

3.1.3 Group Call

Group call is mainly used for one VTO. Press Call button on VTO to call multiple VTH at the same time.

VTH consists of master VTH and extension VTH. A system can only have a max of 1 master VTH and 5 extension VTHs. Please refer to Digital Villa VTO (VTO6 Series) Installation Guide V 1.0.0.

3.2 Monitor

Both VTS and VTH are able to monitor this VTO by enabling the camera to capture local circumstance.

3.3 Unlock Function

Unlock by Center

When center is called, calling or monitoring, center can remotely unlock door. VTO will return to standby interface after call ends or countdown stops.

Unlock under Calling Status

When VTH is called, calling or monitoring, VTH can remotely unlock door. VTO will return to standby interface after call ends or countdown stops.

Unlock by IC Card

At the card swiping area on VTO, swipe authorized IC card. You can unlock door when you pass identification.

3.4 Issue Card

Place IC card at the card swiping area to authorize it. User can swipe IC card to unlock door.

Note:

Some products do not support IC card, please refer to Ch 1.1.

The VTO supports two methods to issue card: platform and WEB. Please refer to Digital Villa VTO (VTO6 Series) Installation Guide V 1.0.0.

3.5 Compensation of Light

In dark environment or at night, the VTO adopts auto photoreception technology which achieves light compensation in connecting status.

3.6 Vandal Proof

There is one channel of vandal proof which will generate alarm sound and report to the manager center once VTO is forced to leave the wall.

3.7 Restore Backup

Restore Card Info

If you encounter abnormality with card info or accidently restore default settings, you can restore card info with this function.

Restore VTH Info

If VTH info is mistakenly changed, you can restore VTH info with this function.

Note: Every half hour, VTO automatically saves card and VTH info in the system. If you want to restore card and/or VTH info, you must restore within half hour after your last operation that change these info.

4. FAQ

1. Q: I pressed the touch button, and the indicator turned on, but the VTO did not start a call?

A: Please check your operation process.

- 2. Q: How to end a call when I am calling?
 - A: Please press button on VTO and there will be sound from the device.
- Q: The device could not boot up and there was no sound or light.
 A: Please check if power supply is well plugged.
- Q: My call did not go though.
 A: It is network connection error; please check the cables of the device and its extension.
- 5. Q: VTO did not respond after I swiped IC card.
 - A: Please check if your card is authorized.
- 6. Q: It says the card is invlid.

A: Please contact the administrator for confirmation.

7. Q: I heard a beep sound when I swiped IC card, but the door did is still locked.

A: Please check if your card is authorized.

8. Q: I have other problems not included above.

A: Please contact technical staffs for assistance.

Appendix 1 Technical Specifications

Model	VTO6000A
System	
Main Processor	Embedded microcontroller
OS	Embedded LINUX OS
Video	
Video	
Compression	H.264
Standard	
Input/Approaching	1.2 maga pixels CMOS HD comora
Induction	T.3 mega pixels CIVIOS HD camera
Night Vision	Support
Audio	
Input	Omnidirectional microphone
Output	Built-in loudspeaker
Bidirectional Talk	Support bidirectional talk
Operation Mode	
Input	One-key input (with backlight)
Lock Status	Support (Optional)
Check	Support (Optional)
Network	
Ethernet	10M/100Mbps self-adaptation
Internet Protocol	TCP/IP
General	
Power Supply	DC 10~15V
Power	Otopolly <110/
Consumption	Standby STW; working STOW
Temperature	-20°C~+70°C
Relative Humidity	10%~90%RH
Dimensions	151*48.5*230mm (L*W*H)
Weight	0.96kg

Model	VTO6110B/VTO6110BW/VTO6210B
System	

Main processor	Embedded microcontroller
OS	Embedded LINUX OS
Video	
Video	
compression	H.264
standard	
Input/Approaching	1.3 mega pixels CMOS HD camera
Induction	1.5 mega pixels GMOS HD camera
Night vision	Support
Audio	
Input	Omnidirectional microphone
Output	Built-in loudspeaker
Bidirectional talk	Support bidirectional talk
Operation Mode	
Input	One-key input (with backlight)
Swipe card	Built-in IC card sensor
Alarm	
Vandal proof	Support
Door status check	Support
Network	
Ethernet	10M/100Mbps self-adaptation
Internet protocol	TCP/IP
General	
Power supply	DC 10~15V
Power	C_{t-2} dby $< 1/0/$, we thin $\sigma < 10/0/$
consumption	Standby ≤1W ; working ≤10W
Temperature	-10° ℃ ~+60 °℃
Relative Humidity	10~95%RH
Dimensions	114.2mm*43mm*154.2mm (L*W*H)
Weight	0.5kg

Model	VTO6000C/VTO6000CM/VTO6100C
System	
Main processor	Embedded microcontroller
OS	Embedded LINUX OS
Video	
Video	
compression	H.264
standard	
Input/Approaching	1.3 moga pixals CMOS HD camora
Induction	1.5 mega pixels CiviOS HD camera

Night vision	Support
Audio	
Input	Omnidirectional microphone
Output	Built-in loudspeaker
Bidirectional talk	Support bidirectional talk
Operation Mode	
Input	One-key input (with backlight)
Swipe card	Built-in IC card sensor (for VTO6100C only)
Alarm	
Vandal proof	Support
Door status check	Support
General	
Ethernet	10M/100Mbps self-adaptation
Internet protocol	TCP/IP
Power supply	DC 10~15V
Power	Standby <11/1 : working <10/1/
consumption	Standby STW, Working STOW
Temperature	-10° ℃ ~+60° ℃
Relative Humidity	10~95%RH
Dimensions	100*42*141mm (L*W*H)
Weight	0.5kg

Note:

- This manual is for reference only. Slight difference may be found in user interface.
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- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local service engineer for more information.