Digital Villa VTO (VTO6 Series) Installation Guide

V2.0.2

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.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

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1 System Networking

This chapter mainly introduces usage of digital VTO, please read the following content and install the device according to your actual condition.

1.1 One-to-One Scene

Visitor press Call button to call residence (as VTH) or Center. The following makes VTO6110BW as example. See Figure 1-1.



Figure 1-1

1.2 One-Multiple Scenes

In general, user installs VTO at entrance of building, and installs VTH in resident's room. Visitor can call any resident via the VTO, and the resident being called can unlock to allow the visitor entering the building. Then, the visitor call the resident to unlock room door again via second-confirm VTO.

1.3 Group Call Scene

About group call, please refer to Ch 4.3. See Figure 1-2.



Figure 1-2

2 Install VTO

2.1 Model List

This manual is for the following models; please carefully check your product model and its function.

Product Model	Enclosure	Color	IC Card	Button	Lock Control
	Material		Unlock		Module
VTO6000A	Metal	Metal	Not support	Mechanical	External
		Gray			
VTO6110B	Fireproof	Black	Support	Touch	External
	ABS				
VTO6110BW	Fireproof	White	Support	Touch	External
	ABS				
VTO6210B	Fireproof	Black	Support	Touch	Built-in
	ABS				
VTO6100C	Fireproof	White	Support	Mechanical	Built-in
	ABS				
VTO6000C	Fireproof	White	Not support	Mechanical	Built-in
	ABS				
VTO6000CM	Metal	Metal	Not support	Mechanical	Built-in
		Gray			

2.2 Screw

Before you install the VTO, please check screws in accessories bag and install according to this manual.

Component Name	VTO6000A	Purpose
ST3×10 Cross recessed countersunk	1	Fix unit and embedded
head tapping screws—galvanizing		box
black		

Component Name	Figure	VTO6000C, VTO6000CM VTO6100C	VTO6110B, VTO6110BW
M3x8 Cross recessed countersunk head tail machine screws galvanizing black		1	1

M4×30 Cross recessed countersunk head tail machine screws	(2015)00000000000000000000000000000000000	2	2
ST3×18 Cross recessed countersunk head tail tapping screws galvanizing white	[]mmmmm=	2	4
White expansion tube $\ \ $		2	4

2.3 VTO6000A

2.3.1 Dimension

Before you install the device, please make sure you know the dimension of device and select appropriate installation method. See Figure 2-1.





2.3.2 Installation Step

Step 1. Install metal bracket into the groove on wall.

- Step 2. Fasten ③ onto the metal bracket along device chassis and bracket chassis (④ in Figure 2- 2).
- Step 3. Lock screw a (ST3 \times 10 Cross recessed countersunk head tapping screws), and fix device unit onto the metal bracket.



Figure 2-2

2.3.3 Wiring See Figure 2-3.





No.	Port Name	Note
01	Power	Input DC 12V
02	Lock Port	Connect access control extension module
03	Network Port 1	Plug in RJ45 cable

2.4 VTO6110B/VTO6210B/VTO6110BW

2.4.1 Dimension

Before you install the device, please make sure you know the dimension of device and

select appropriate installation method. See Figure 2-4.



Figure 2- 4 VTO6110B/VTO6210B/VTO6110BW

2.4.2 Installation Step

Here makes VTO6210B as an example. Installation of VTO6110B and VTO6110BW may refer to VTO6210B.

Step 1. Fix installation bracket on wall.

- a) Use M4 screw in accessories, to fix bracket onto 86 box (b in Figure 2-5).
- b) After 86 box is locked, fix ST3.0 screw in accessories onto wall. (c in Figure 2-5)
- Step 2. Fix device unit ① onto installation bracket, fasten top edge and lightly push bottom edge.
- Step 3. Use M3 screw to fix device and bracket.





2.4.3 Wiring

This chapter introduces wiring between VTO embedded box and por.t See Figure 2- 6.

• VTO6110B, VTO6110BW



Figure 2-6

No.	Port Name	Note
01	Power	Input DC 12V
02	Lock Port	Connect access control extension module
03	Network Port 1	Plug in RJ45 cable

• VTO6210B



Figure 2-7

No.	Port Name	Note
01	10 Din Dort	Connect to door lock, door sensor and unlock button.
	10-Pin Pon	It provides preserved 485 port for other devices.
02	Power	Input DC 12V
03	Network Port 1	Plug in RJ45 cable

2.5 VTO6000C/VTO6000CM/VTO6100C

2.5.1 Dimension

Before you install the device, please make sure you know the dimension of device and select appropriate installation method. See Figure 2-8.



Figure 2-8

2.5.2 Installation Step





- Step 1. Remove M3 screw at the bottom of VTO, take down decoration cvoer (1).
- Step 2. Fix the VTO onto wall, use M4 screw in accessories to fix the bracket onto 86 box (③ in Figure 2- 9).
- Step 3. b is designed to fasten the product. After 86 box is locked, Fix ST3.0 screw on to wall (c in Figure 2- 9).
- Step 4. Place decoration cover (1) on to device unit (2), fix with MS screw.

Note:

Do not install VTO6100C on iron gate, otherwise the signal may be masked.

2.5.3 Wiring

This chapter taks VTO6100C as example since VTO6000C, VTO6000CM and VTO6100C's rear ports are the same. See Figure 2- 10.



Figure 2-10

		5
No.	Port Name	Note

1	Network Port	Plug in RJ45	
2	3-pin Green	Incort lock	
	Port 1	Insert lock	
3	3-pin Green	Insert door sensor and unlock button	
	Port 2		
4	Power Port	DC 12V	
5	Debug Port	For installer use	

2.6 Electric Control Lock and Electromagnetic Lock

This chapter introduces VTO connection to electronic control loch and electromagnetic lock.

2.6.1 Electric Control Lock

 Here makes VTO6100C as an example. For VTO6000C, VTO6000CM and VTO6100C you can refer to this chapter.

When VTO connects to electric control lock, it means that the positive end of electronic control lock connects to NO of VTO (03.3-pin green 1) while its negative end connects to COM of VTO (03.3-pin green 3).

When VTO connects to unlock button, one end of unlock button connects to ALM2 of VTO (04.3-pin green 2) while the end connects to CND of VTO (04.3-pin green 3). See Figure 2- 11.



Figure 2-11

• Here makes VTO6210B as an example.

When VTO connects to electric control lock, it means that the positive end of electronic control lock connects to NO of VTO (RS485 port 2) while its negative end connects to COM of VTO (RS485 port 1).

When VTO connects to unlock button, one end of unlock button connects to ALM1 of

VTO (RS485 port 5) while the end connects to GND of VTO (RS485 port 4). See Figure 2- 12.



Figure 2-12

2.6.2 Electromagnetic Lock

 Here makes VTO6100C as an example. For VTO6000C, VTO6000CM and VTO6100C you can refer to this chapter.

When VTO connects to electromagnetic lock, it means that the positive end of electromagnetic lock connects to NC of VTO (03.3-pin green 2) while its negative end connects to COM of VTO (03.3-pin green 3).

When VTO connects to door sensor in electromagnetic lock, one end of door sensor connects to ALM1 of VTO (04.3-pin green 1) while the end connects to GND of VTO (04.3-pin green 3). See Figure 2- 13.



Figure 2-13

Here makes VTO6210B as an example.
 When VTO connects to electromagnetic lock, it means that the positive end of

electromagnetic lock connects to NC of VTO (RS485 port 3) while its negative end connects to COM of VTO (RS485 port 1).

When VTO connects to door sensor in electromagnetic lock, one end of door sensor connects to ALM2 of VTO (RS485 port 6) while the end connects to GND of VTO (RS485 port 4). See Figure 2- 14.



Figure 2-14

3 Installation Debugging

Warning:

- Before debugging, the staff shall be familiar with device's installation, wiring and usage.
- Beore debugging, check wiring for short or open circuit.
- When staff find each circuit is normal, plug the device to power.
- After debugging, clear the site.

3.1 Requirement for Power

After installation is complete, first make sure devce power, current, wiring are right, then plug device to power.

3.2 On and Off

After plugging device to power, you can turn on the device.

- VTO6110B/VTO6110BW/VTO6210B
 After power is pluggin in, indicators in button area light up and about 60s later they turn off. Now system enters normal working status.
- VTO6000C, VTO6000CM and VTO6100C After power is pluggin in, indicators in button area turn blue and about 60s later they turn off. Now systen enters normal working status and the indicators remains blue.

3.3 Debug Network

First check if network is connected. In Internet Explorer's address field, input IP address of the VTO. If you can successfully login its WEB interface as in Figure 3-1, it means the network works properly.

Note:

Default IP address of VTO is 10.22.5.189 or 192.168.1.110. Default username and password is admin/admin. After first login, please change your password.

IP VDP Door Station Web Server V1.0				
Username:				
Log	in Cancel			

Figure 3-1

4 Operation

4.1 WEB Setup

If you first use VTO, you may need to operate according to the following steps:

• Login WEB

First, make sure your PC and the VTO are well connected, and follow steps below to login WEB interface.

Step 1. In Internet Explorer, input IP address of the VTO, and press Enter. System shows Figure 4- 1.

Step 2. Input Username and Password.

Step 3. Click on Login.

Note:

Default IP address of VTO is 10.22.5.189 or 192.168.1.110. Default username and password is admin/admin. After first login, please change your password.

IP VDP Door Sta	t ion Web Server V1	.0
Username: Password: Lo	gin Cancel	

Figure 4-1

• Setup

Step 1. In WEB interface, select System Config>Local Config, set video format as WVGA as in Figure 4- 2.

Local Config	A&C Manager	System Time
Device Type	Villa Station	¥
Video Format	wvga	×
Reboot Date	Tuesday	v

Step 2. In System Time tab, click on Sync PC to make VTO time the same with PC.

Step 3. Select System Config>Network Config, set VTO IP, Subnet Mask and Default Gateway. See Figure 4- 3.

Network Config	
IP Address	172 . 5 . 1 . 31
Subnet Mask	255 . 255 . 0 . 0
Default Gateway	172 . 5 . 0 . 1
MAC Address	00 - 01 - 5b - 00 - 33 - 13
	Default Refresh OK

Figure 4-3

Step 4. (Optional) If VTO connects to VTMS platform, System Config>LAN Config, set Area No. Section No. Building No. And etc. These parameters must match settings on VTO as in Figure 4- 4. Please refer to Appendix 2 and 3. See Figure 4- 5.

LAN Config	
Group Call	
Building No.	01
Building Unit No.:	1
VTO No.	6901
VTO No.	6901

Figure 4-4

SN:		Ø	
Name: 😐	Name		
Type: 🛚	VT0 •	=VTO ty	
Manufacturer: *	dahu	•	
Position: *	Community 1	• Building 1	
	Unit 1	•	6901
Net Address:	0.0.	0.0	
Sub Net:	0.0	0.0	
Gate Way:	0.0.	0.0	
Net Port:		0	
Switch:	=Switch=	[•]	
Recieve Notice:	~		
Comments:	-		

Figure 4-5

4.2 Issue Card

• Issue Card on WEB

In WEB interface, click on Issue Card, and when you hear a "DI" sound, it means you have successfully issued card. Then, you can swipe this card to unlock. (VTO6000A/VTO6110B/VTO6110BW require access control module)

• Issue Card by VTMS

Please refer to VTMS user's manual.

4.3 Group Call

When guiest press Call button on VTO, multiple VTHs will ring. Resident can accept call, hand up or unlock on any of these VTHs.

Note:

VTH includes main VTH and extension. In a system, there is no more than 1 main VTH and 5 extensions. See Figure 4- 6.



Figure 4-6

• Set VTO

Step 1. Select System Config>Indoor Station Manager, system shows Indoor Station interface.

Step 2. Click on Add, input VTH Short No., IP Address (optional) to add a VTH. See Figure 4-7.

Note:

In Indoor Station interface, you only need to add main VTH, and you do not need to add extension.

Digital Indoor St	tation			
FamilyName	FirstName	Room No.	SN	
1	Add			×
	Forsibblerse			
	FamilyName			
	FirstName			
	VTH Short No.			
	IP Address	. 0		
		ок	Cancel	

Figure 4-7

Step 3. In LAN Config interface, check Group Call, and click on OK. See Figure 4- 8.Step 4. After config is complete, enter Logout interface to reboot VTO.

LAN Config		
-		
Group Call		
Area No.	330103	
Section No.	01	🗇 Area LAN
Building No.	01]
Building Unit No.:	1	
VTO No.	6901	
Register to the MGT Centre		
MGT Centre IP Address	172 . 5 . 1 . 107	
MGT Port No.	12801	
From VTO IP Address	VTO IP Setup	
Warning:The device needs reboot a	after modifing the config above	a.
	Default Re	fresh OK

Figure 4-8

• Set Main VTH

Step 1. On VTH screen, press System Settings>Project Settings, input password (default is 002236) to enter Project Settings interface.

Step 2. Press Product Info, input Room No., Local IP and etc as in Figure 4-9. Note:

Room No. Must match setting in VTH Short No. in Figure 4-7.

₽		Project Settings	A
	Room No.	102 Master	🖬 Product Info <
	Local IP	172 5 1 105	묘 Network
	Subnet Mask	255 255 0 0	
	Gateway	172 5 0 1	
	MAC	00:01:5b:a1:33:44	🗘 Default
	Version	Eng_P_V1.100.0000.0.R.20130428	➔ Back
		ОК	

Figure 4- 9 Step 3. Press Network, input VTO IP Address. See Figure 4- 10.

₽		Project Settings		A
	Main_VTO Name	Main VTO		Product Info
	Device Type	Unit Door Station		🛱 Network 🧹
	VTO Middle No.	10116901	~	PC Info
	VTO IP Address	172 5 1 31		🗘 Default
	Network Port	13801		
	Enable Status	ON		Back
		ОК		
		ОК		

Figure 4-10

• Set Extension

Step 1. On VTH screen, press System Settings>Project Settings, input password (default is 002236) to enter Project Settings interface.

Step 2. Press Product Info. Press Master, Master icon becomes Extention icon.

Step 3. Set Room No. (i.e. 102-1), input IP Address, Subnet Mask and Gateway.

Step 4. In Master IP, input IP of the main VTH. After competion, extension will automatically sync with main VTH info configured by user. See Figure 4- 11.

÷		Project Settings		< 🏠
	Room No.	102-1 Extensi	on	🔜 Product Info <
	Local IP	172 5 1 106	a de	Network
	Subnet Mask	255 255 0 0		
	Gateway	172 5 0 1		
	MAC	90:02:a9:80:20:e7		Default
	Version	Eng_P_V1.100.0000.0.R.20130	511	➔ Back
	Master IP	172 5 1 105		
		ОК		

Figure 4-11

5 FAQ

FAQ	Solution
Device cannot boot up.	• Check if VTO is plugged to power. Its normal
	power range is 10V~15V.
	• If VTH is powered by 2-pin green plug, check if
	the power supply is normal. Power voltage is
	normally 10V~15V.
	• If VTH is powered by switch, check if switch is
	on and cable is loose. Switch voltage is
	normally 22V~26V.
VTO cannot call VTH.	Check if VTH has not been registered on VTO.
Sound is too low.	Based on actual condition, adjust VTO and VTH
	volume.
VTH does not have video	• In VTO WEB interface, switch video format to
or video frame is poor.	WVGA.
	• Avoid expose VTO to place of poor light or
	direct sunlight.
I cannot unlock.	• Make sure VTO supports unlock by swiping
	card.
	• Check if VTO access control module is loose.
	• Check electric control lock is normal. (wiring is
	wrong, no voltage output or low voltage)
Door Sensor Alarm	Please check if door is stuck.
I cannot issue card. (For	VTO must support card issuing function
model with this function	• The card must be IC card.
only)	

Appendix 1

Appendix 1.1 Cable Specification

The wiring length between VTO and VTH is L_N , so reasonable specification of wiring is:

Cable Specification	0 <l<sub>N≤50m</l<sub>	50 <l<sub>N≤100m</l<sub>
UTP Cat5e/Cat6: 10 ohm/100m	Optional	Optional
UTP Cat5e/Cat6: 18.8 ohm/100m	Optional	Not optional

Note:

Please do not let L_N be over 100m.

Appendix 1.2 Power Extension Line Specification

The wiring length between VTO and adaptor is L_{C} , so reasonable specification of extnsion line is:

Extension Line Specification	0 <l<sub>C≤30m</l<sub>	30 <l<sub>C≤100m</l<sub>
20AWG	Optional	Not optional
18AWG	Optional	Optional
17AWG	Optional	Optional

Note:

Before plugging extension line to power, make sure its positive and negative end are correctly wired.

Appendix 1.3 Embedded Box

VTO Model	Embedded Box
VTO6000C, VTO6100C, VTO6000CM	86 box
VTO6110B, VTO6210B, VTO6110BW	86 box, 120 box

Appendix 2 VTMS

Check Installation Environment

This manual makes Window XP as example to introduce how to modify IP of PC inorder to connect VTMS and monitoirng system.

Step 1. Select Start>Control Panel>Network Connection>Local Area Connection, right click on Local Area Connection icem, select Properties, see Appendix 2- 1.





Step 2. View and modify IP address, make it in the same segment with VTO. See Appendix 2- 2.

Local Area Connection Properties	Internet Protocol (TCP/IP) Prope	erties 🔹 ? 🔀
General Advanced	General	
Connect using: Broadcom NetXtreme 57xx Gigabit Cc	You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings.	matically if your network supports ask your network administrator for
This connection uses the following items:	🔘 Obtain an IP address automatica	lly
Client for Microsoft Networks	Our of the following IP address: —	
File and Printer Sharing for Microsoft Netw Question Printer Scheduler	IP address:	10 . 15 . 6 . 141
✓ There Protocol (TCP/IP)	Subnet mask:	255.255.0.0
Install Uninstall	Default gateway:	10 . 15 . 0 . 1
Description	Obtain DNS server address auto	matically
Transmission Control Protocol/Internet Protocol.	ol Protocol/Internet Protocol.	
across diverse interconnected networks.	Preferred DNS server:	10 . 1 . 2 . 80
Show icon in notification area when connected	Alternate DNS server:	10 . 1 . 2 . 81
✓ Notify me when this connection has limited or n		Advanced
OK		OK Cancel



Step 3. After complete modification, select Start>Run, input "cmd", click on OK. Enter command interface, input "ping" + IP of the VTO. If it obtains communication data, then VTO and the PC are connected. See Appendix 2- 3.



Appendix 2-3

• Enable VTMS

The following mainly introduces how to config VTMS for you to login VTO and use VTMS. Step 1. Install VTMS on PC.



Step 2. Double click on *zw_guard*..., click on Start service, and VTMS will boot up.

	Start service	1		Stop se	ervice		
mage	Create	CPU(%)	memory(K)	Threads	Process ID	Parent ID	Priority(0-31)
mysqld_zwan.exe	11/18/2013 09:00:53	0	13484	30	444	548	8
java_zwan.exe	11/18/2013 09:01:01	0	129692	169	3016	816	8
VIS_MOLEAE	11/10/2010 05:01:21		5500				

Appendix 3 VTMS Client

This following mainly introducts how to config VTMS Client.

Appendix 3.1 Config Network Address

Step 1. Install VTMS Client on PC.



Step 2. Double click on VTMS. exe, in pop-up box input username, password, IP address,

port and etc. Click on Login. See Appendix 3-1.

Note: Default username and password is admin and 123, respectively. After first successful login, please change password.

name	admin	
pwd	***	
ip	172.5.1.107 port	8787
auto	i login 🛛 🔽 sav	e pwd

Appendix 3-1

Step 3. In main interface, click on Device MGR. See Appendix 3-2.



Appendix 3-2

Step 4. Double click on VTS parameter collumn, sustem pops up Edit device box, input PC's IP address. See Appendix 3- 3.

Edit device ×
SN: 33010300000800053 🗇
Name: * VTS
Type: * VTS 🛛 🔻
Manufacturer: * Dahu 🔍
Net Address: 172 . 5 . 1 . 107
Net Port: 12801
Comments:
Changed Save Changed Cancel

Appendix 3-3

Step 5. Click on Save. Input project password (default project password is 123).

Step 6. Re-login VTMS, you can see VTMS is successfully configured as in Appendix 3-4.



Appendix 3-4

Appendix 3.2 Create Organization

First you must build up environment and set VTMS server, please refer to Appendix 2. This chapter takes example of a residence with 10 buildings and 2 units.

Create Residence Organization

Step 1. In VTMS main interface, select Organization, click on Batch Add. System pops up Batch Add box, see Appendix 3- 5.

Operation 전 Yessenses 1 은 환자Reg 1 는 환자Reg 2	Zane Sie Community II Name Community I Address Community 1
Upper SN: Community 01	Add @ Madity @ Second Batch Add @ Batch Delete
Upper Name: Community 1 Batch parameter: A tutal of 10 📑 buildingh),auch aith 2 a

Appendix 3-5

Step 2. Click on OK to save. The created organization is as in Appendix 3-6.

HITSELAN EXPANSION TIME ONLY . REFEEN COTTINE HODE	Zone SN: Community 01
Vganization	Name: Community I
a ∰ttuideg 1	Address: Community 1
± ₩fluiding 1 ± ₩fluiding 1	Note
	Q Add Modify O Details
	🙃 Batch Add 🧔 Batch Delete

Appendix 3-6

• Add VTO

Step 1. In VTMS main interface, select Device MGR, click on Add, system pops up Batch Add box.

Step 2. Fill in info according to your actual condition, and click on Save. See Appendix 3-7.

Add device	×
SN:	Ď
Name: 🕯	Name
Туре: *	▼ VTO ▼ =VTO ty ▼
Manufacturer: *	dahu 🗸 🗸
Position: *	Community 1 🛛 🔻 Building 1 👘
	Unit 1 🛛 🗸 🗸 6901
Net Address:	0.0.0.0
Sub Net:	0.0.0.0
Gate Way:	0.0.0.0
Net Port:	0
Switch:	=Switch= 🛛 🔻
Recieve Notice:	\checkmark
Comments:	
Type & location can't l	be changed after saving! 📙 Save 🛛 🔞 Cancel

Appendix 3-7

• Add VTH

Step 1. In VTMS main interface, select Device MGR, click on Batch Add, system pops up Batch Add box.

Step 2. Fill in info according to your actual condition, and click on Save. See Appendix 3-8.

Batch Add
Device Type: * VTH
VTH type: * Digital 🔹
Manufacturer: * dahu 🔍
Community: * Community 1 •
Building: * Building 1 🛛 🗸
Unit: * Unit 1 🛛 🗸 🗸
Floors per unit: * 10
House per floor: * 2
📀 Add 🛛 📀 Cancel

Appendix 3-8