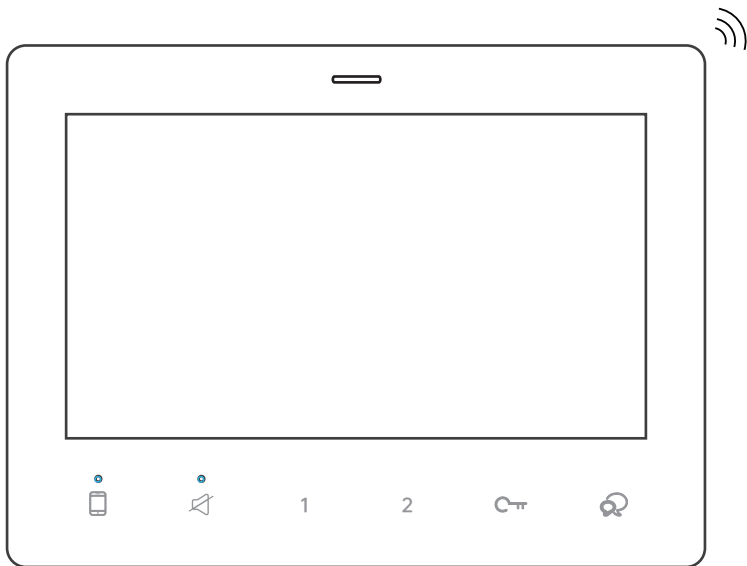


2-WIRE IP VIDEO INTERCOM SYSTEM

DH7G

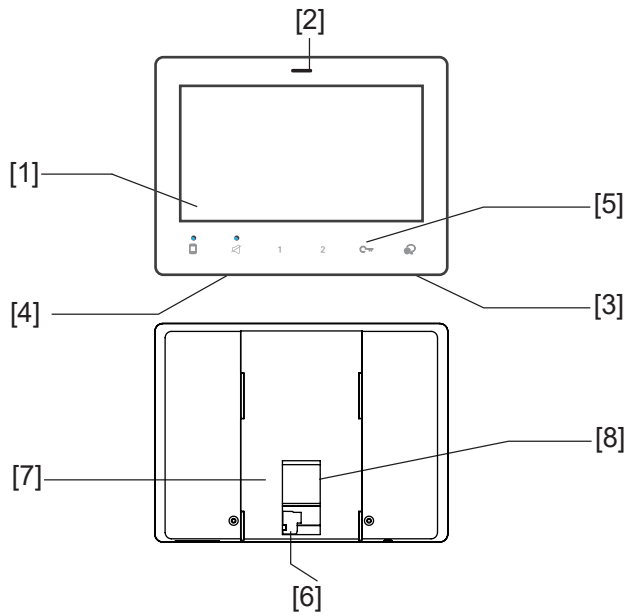
7" IPS FULL VIEW ANGLE TFT MONITOR



DH7G

- Please read this manual carefully before using the product you purchase, and keep it well for future use.
- Please note that images and sketch maps in this manual may be different from the actual product.

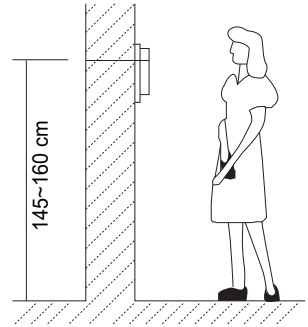
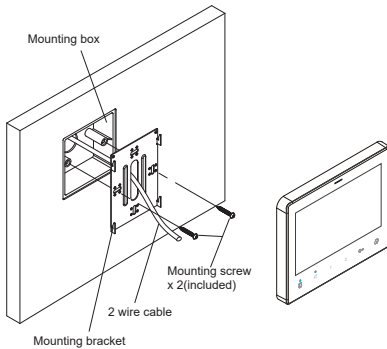
1. Parts and Functions



Key functions

NO.	Item	Description
[1]	Digital LCD touch screen	See the next page for details Display the visitors' image
[2]	Indicator LED	Solid ON: standby Flash: Calling/missed calls
[3]	Speaker	Send out sounds of ring tones, audios and alarms
[4]	MIC	Voice input.
[5]	Smart Keys	To operate the monitor in different scenario
[6]	2 wire connector	Bus terminal
[7]	SD card slot	Use to insert micro-SD card
[8]	Doorbell connector	Connect to doorbell button

2. Mounting



The installation height is suggested to 145~160cm.

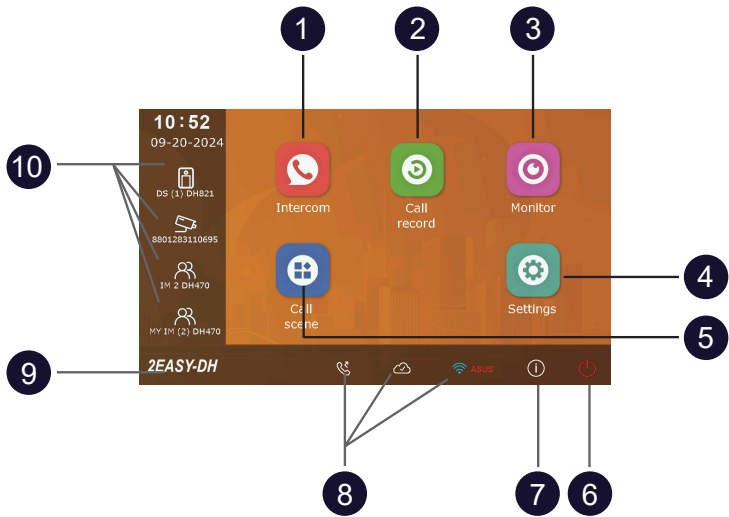
1. Use screws to fasten the mounting bracket to the wall with mounting box.
2. Connect the 2 wire cables to the unit.
3. Mount the unit to the mounting bracket, make sure the unit is absolutely attached to the mounting bracket.

3. Main Menu

The Main menu is your starting point for using all the applications on your monitor.

Touch anywhere of the screen on monitor in standby mode, the Main menu will appear as follow:

The main menu of DH7G



- 1

Intercom icon
Allows you to call other indoor station.
- 2

Call Record icon
Allows you to view the call record.
- 3

Monitor icon
Allows you to monitor the door stations, cameras.
- 4

Setting icon
Use to change the indoor station's settings.
- 5

Call Scene icon
Allows you to activate the functions of No disturb, Divert.
- 6

Close icon
Touch to turn off the screen.
- 7

About icon
Allows you to view the information about device.
- 8

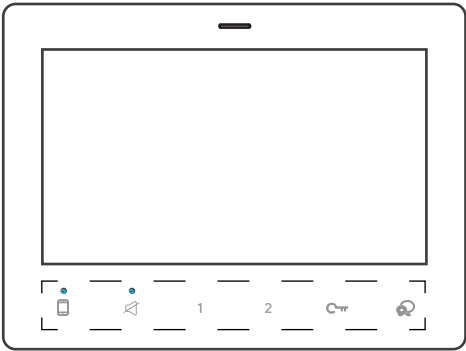
Status bar
Displays icons that indicate the indoor station's status(see 4. Status bar icons(page4)).
DH7G SE not support WIFI
- 9

Logo
Shows "2EASY-DH" by default. Means the brand of indoor station. Can be customized.
- 10

Shortcut windows
Touch to enter the corresponding items directly.

4. Status Bar Icons and Smart Touch Keys

4.1 Smart Touch Keys



Key	Description	
	Divert	When screen off: tap the key to turn on/off the direct function. When screen on: tap the key will goes to APP setting page. LED off: divert is off LED on: divert is on
	No Disturb	When screen off: tap the key to turn on/off no disturb mode. (each time turn on will be 8 hours) When screen on: tap the key will goes to call scene setting page. LED off: no disturb is off LED on: no disturb is on
1	Quick key1	Key1 is bound to Shortcut1. After setting Shortcut1*, tapping Key1 works the same. It can monitor a door station or IP camera or call other monitors.
2	Quick key2	Key2 is bound to Shortcut2. After setting Shortcut2*, tapping Key2 works the same. It can monitor a door station or IP camera or call other monitors.
	Unlock	When calling or monitoring, tap the key to release door lock 1
	Talk/Mon	When calling press to answer the call, or in talking press to finish calling. In standby, press to monitoring door stations.

* Shortcut settings in "Settings" -> "General" -> Shortcut settings

4.2 status icons

Icon	Description	
	Missed call	Display when there is missed call unread. Touch to review the missed call in shortcut.
	No disturb	Indicates the device is in “No disturb” mode.
	Divert call	Indicates the device is in “Divert call” mode.
	Device online	Indicates device online, but not connect to internet.
	Cloud server worked	Indicates the device is connected to the cloud server.
	No cloud server	Indicates the device is not connected to the cloud server.
	Cloud server anomaly	Indicates the device cloud server connection is abnormal.

Other status icons

Icon	Description	
	Talking	Indicates the device is in “talking” status.
	Unlock	Indicates open the corresponding door.

5. Answering a Call

When you receive a call, the indoor station rings. Image will be displayed on the screen.

1. Touch  icon or press  **TALK/MON** button.

- Speak within about 50 cm of the microphone.
- Begin communicating hands free with the visitor for 90 seconds.

2. When finished, Touch  icon or press  **TALK/MON** button again.

Available functions while talking on a call

- Door release

6. Monitoring

This section can be used to monitor your home by enabling one of the cameras inside the apartment, the common areas (e.g. garages, garden), and at the entrance.

1. From the main menu, tap **"Monitor"** icon.
2. Select the desired tap.
 - Allows you to select door station camera or IP camera (if the system installs multi door station or IP camera) .
3. Select the desired camera.
4. When finished, tap  button on panel.

* During monitoring, images can be viewed, but audio cannot be heard.

Available functions during monitoring:

- Door release

Note: Tap monitor quick actions to monitor corresponding camera directly (If the monitor quick actions is set on the shortcut windows).

7. Favorite Setting

This section can be used to set your favorite.

1. From the main menu, tap **"Monitor"** icon.
 - A list of available setting categories is displayed.
2. Select "Monitor" item.
3. Click the upper left corner of the item you need to select, and then the "  " icon will appear.
4. If you need to cancel, click the upper left corner again.



8. Making Calls

You can call other residences, common area phones or facility staff office, and even other rooms in your own residence.

whichever monitor answers the call, you can use many of the features described in feature available while talking on a call.

Namelist call by using the namelist

1. From the main menu, tap **"Intercom"** icon.
 - A list of available items is displayed.
2. Select "Namelist".
 - A list of name is displayed if the system allows.
3. Select the desired name.
 - Calling the target directly.

Innercall

If you have monitors installed in different rooms in your residence, you can call those rooms and use the system as an intercom.

1. From the main menu, tap **"Intercom"** icon.
 - A list of available items is displayed.
2. Select "Inner call".
 - A list of M/S is displayed.
3. Select the desired target.
 - Calling the target directly.

9. View Call Record

The monitor records information about calls from door station.

1. From the main menu, tap **"Call record"** icon.
2. Select the desired tap.
 - Incoming: Displays all calls from door station.
Tap the desired record will play the video.
*If the calls were missed, indicator LED will be flashing.
 - Delete all: Delete all the calls records.

Note :

1. If door station without SD card, video recording time is 3 seconds.
If door station with SD card, video recording time is 10 seconds by default
2. Support 512G SD card.

10. No Disturb Mode

During a certain period, if you don't want to be disturbed, you can go to set DND mode.

1. From the main menu, tap **"Call scene"** icon.
2. Select the desired tap.
 - No disturb 8H: Set to no disturb mode 8 hours.
 - No disturb always: Set to no disturb mode always.

Note:

* The no disturb indicator turns from green to red, to indicate that the no disturb function has been activated.

* This function will perform immediately if selected, and the status bar on main menu interface will show "🔕" icon.

11. Divert Calls

The calling from door station can be diverted to your smart phone. Please note that the function should connect to internet via Wi-Fi(DH7G) or cable internet net (Additional accessory DH-LAN)

1. From the main menu, tap **"Call scene"** icon.
2. Select the desired tap.
 - Divert call if no answer: If nobody answers the call in 30s when receives call from door station, diverts the call to the smart phone. At this mode, the monitor will always open the screen and show image from door station during diverted, if the monitor answers the call at this time, diverted will conclude at once.
 - Divert call always: When receives call from door station, diverts the call to smart phone directly. At this mode, the monitor will shut off the screen after diverting successfully, but you can still use it in normal.

Note:

- * If divert the call to smart phone via Sip sever, need to choose one.
- * This function will perform immediately if selected, and the status bar on main menu interface will show "📞" icon.

12. Change the Monitor's Settings

1. From the main menu, tap **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Select the desired tap.
3. Select the desired setting category.
4. Change the settings as desired.
5. Tap ← / 🏠 to save the new setting.

List of settings

 Call Tune >	Ring volume - Ring timing - DS ring - Doorbell ring - Intercom ring - Innercall ring
 General >	Date and time - Language - Monitor timing - Name - Auto close after unlock - Auto unlock - Shortcut setting - SD card - Key tone
 Installer >	Call_Nbr - Parameter - Upgrade - Onsite tools - Restore factory settings
 Manager >	Wlan Setting - Sip config - Unlock code - Card manager
 Ext.Unit >	IPC camera - WLAN IPC camera

Example: "DS ring"setting

1. From the main menu, tap **"Setting"** icon.
- A list of available setting categories is displayed.
2. Select "Call Tune", and then tap "DS ring" item.
- A list of available tune is displayed.
3. Select the tune as desired, and tap.
4. Tap ← / 🏠 to save the new setting.

Ring volume: adjust the ringtone volume.

Ring timing: adjust the ringtone time.

DS ring: call tone from door entrance panel.

DoorBell ring: call tone from doorbell.

Intercom ring: call tone from an intercom of another apartment.

InnerCall ring: call tone from an intercom in your apartment.

Example: "Date and time" setting

1. From the main menu, tap **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Select "General", and then tap "Date and time" item.
 - Date and time setting interface is displayed.
3. Select and change the settings as desired.
4. Tap ← / 🏠 to save the new setting.

Date mode: 2 display mode: month/date/year and date/month/year

Time mode: 2 display mode: HOUR_12 and HOUR_24.

Date: touch it to set the date .

Time: touch it to set the time.

Internet time: touch it can synchronize the system time.

Example: "Language" setting

1. From the main menu, tap **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Select "General", and then tap "Language" item.
 - Language interface is displayed.
3. Select and change the settings as desired.
4. Tap ← / 🏠 to save the new setting.

Example: "Shortcut setting"

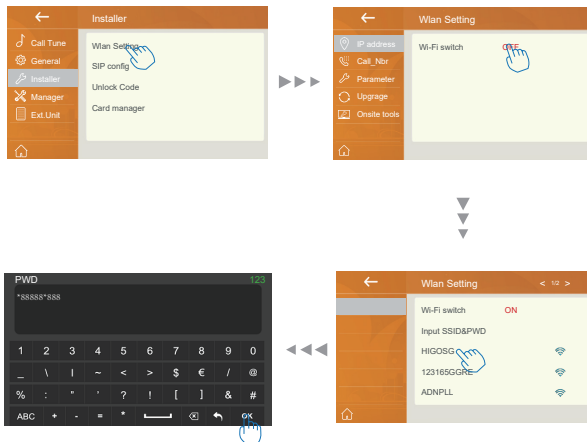
1. From the main menu, tap **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Select "General", Next page, and then tap "Shortcut setting" item.
 - Shortcut setting interface is displayed.
3. Select the type of function for which you want to add/remove a quick action.
4. Tap ← / 🏠 to save the new setting.

Note: Other settings are related to the system type. Please make settings according to the functions provided by your system.

13. Internet Connect

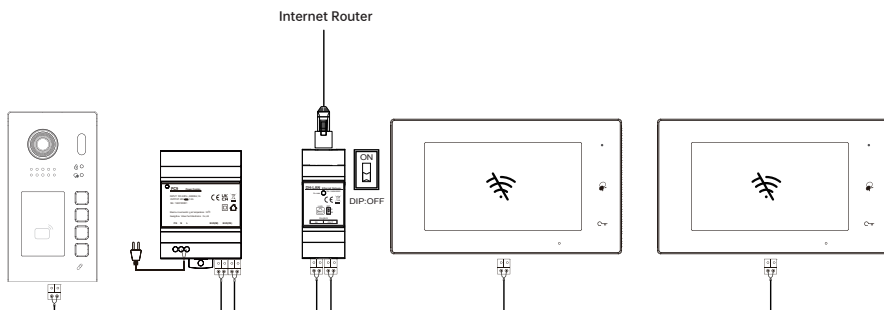
13.1 Wi-Fi Connect

1. From the main menu, tap **"Setting"** icon.
- A list of available setting categories is displayed.
2. Select **"Manager"** item.
3. Select **"Wlan Setting"** item.
4. Turn the Wi-Fi switch on, and then the system will search the Wi-Fi.
5. Select the Wi-Fi you want, and input the password of Wi-Fi to connect.
6. Tap ← / 🏠 to save the new setting.



13.2 Cable Connect

Requires additional accessory DH-LAN connect to cable internet, refers to DH-LAN manual.



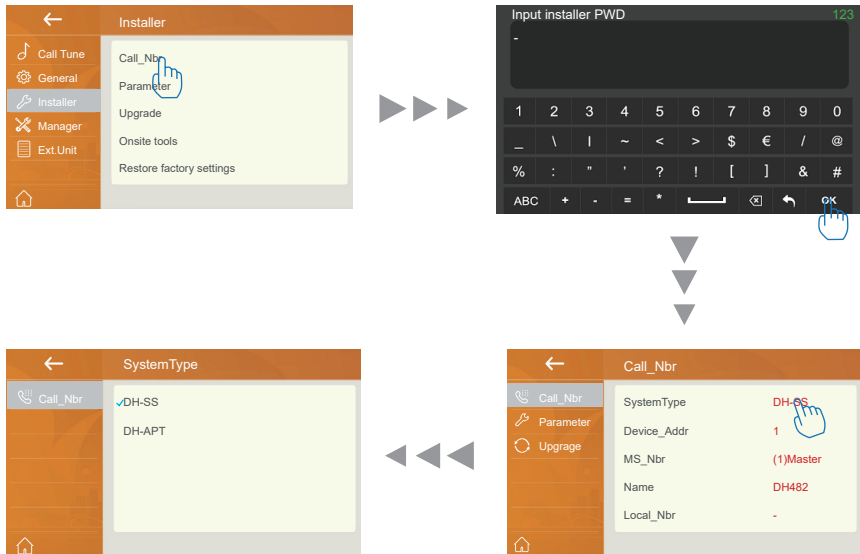
Modify APP network to “LAN”

Tap “connect” icon on the bottom, and “SIP network setting” from “WLAN” change to “LAN”



14. Address Setup

1. From the main menu, tap **"Setting"** icon.
- A list of available setting categories is displayed.
2. Select "Installer", and then tap "Call_Nbr" item.
3. Input password if required (66666666 by default).



System Type:

If using Door stations DH622/DH611 is "DH-SS"

If using Door stations DH850/DH821 is "DH-APT"

For system type "DH-SS"

Device_Addr: room number from 1~8

MS_Nbr: input for master and slave settings, from 01~04, 01 master, rest slave.

Name: Monitor name

Local_Nbr: extra call codes

For system type "DH-APT"

RM_Nbr: setup room number by input or select from the list, from 1~64

MS_Nbr: setup master or slave address.

tap input room number first, then select M/S address 01 is master, rest slave.

Name: Monitor name

Local_Nbr: extra call codes

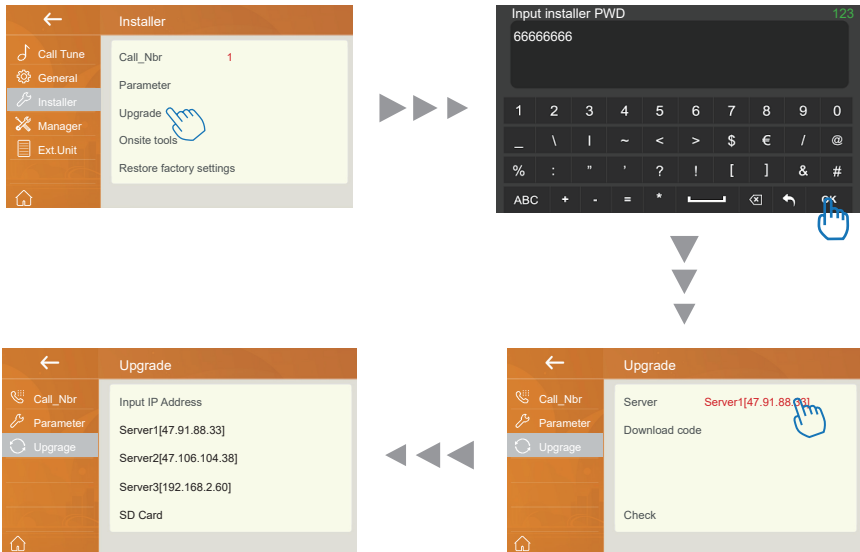
Global_Nbr: reserved

Update Call_Nbr from RES: update call_nbr from door station list

Restore Call_Nbr default: restore and release the address setting

15. Upgrade

1. From the main menu, tap **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Select "Installer", and then tap "Upgrade" item.
3. Input installer password (66666666 by default)



Tap “Server” to select firmware source, update firmware could come from as below, tap on the source:

1. **Cloud Server**

Cloud server requires internet.

Server1[47.91.88.33]

Server2[47.106.104.38]

2. **Local LAN Server3 (Reserved)**

Server3[192.168.2.60] #IX-Builder default IP

[Input IP address]

3. **SD card**

Copy upgrade firmware before upgrade.

SD card

After tap “Download code” and input code, the code could get from v-tec support team when device needed to update. After all, tap “Check” to load upgrade information from source.

With tips on the screen as below:

Please insert SD card. #Some upgrade is oversize, require SD card to storage firmware.

Mismatched. #Update firmware was founded, but is not suitable for this device.

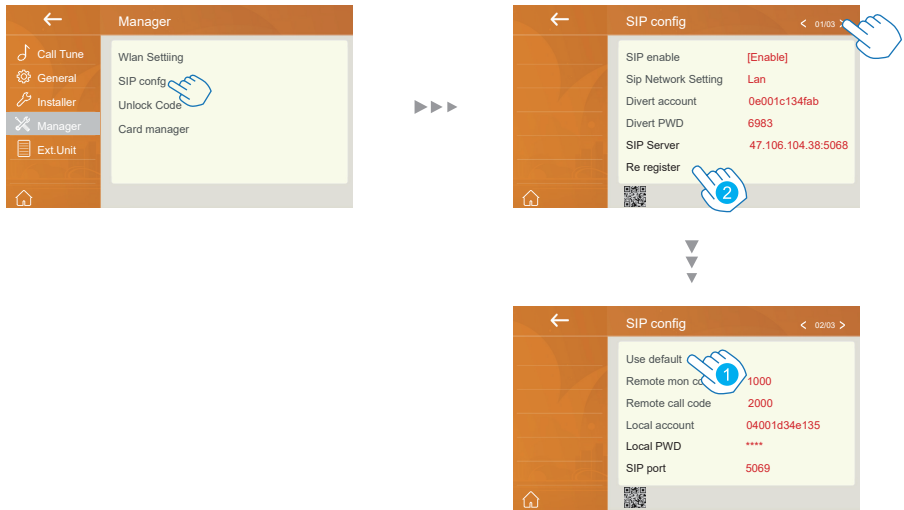
Connect Error. #Check networks.

No file. #Source has been inspected but there is no firmware need to upgrade.

Otherwise the device will go into upgrade automatically, please do not power off during upgrade.

16. SIP Config

It's available to divert the call to mobile while out of home via SIP server.



1 Touch it to restore all settings on “SIP config” and create 2 SIP accounts, one for DH monitor and one for VDP Connect APP. Server will apply to restore two accounts' password to default, and register it. Only when:

- If your DH monitor is not brand new, we suggest you touch “Use default” before testing.

- VDP Connect APP is not able to register on server.

2 Touch it, DH monitor will apply to clean all SIP “contact” on server, and also will try to register itself to server, with this function it will helps when:

- VDP Connect APP is not able to get push notification.

- DH monitor has connect with Wi-Fi, but “Server” icon with “!” or “x” beside.

17. How to add IP camera to IP monitor

Preparation

Select the appropriate IP camera to access the system on demand. And set parameters for the IP camera.

Video Codec

An Onvif IP camera could be added to DH monitor, as long as this IPC could support following video codec: H264B/H264/H264H

- * 1. MJPEG decoding is not supported.
- 2. Some IPC can support both audio and video streams, please select video stream.

Preset the IP Camera before establishing a connection to the DH monitor

The setting interface of each IP camera brand are different.
Please set the following items according to the actual situation.

Network

Choose to set DHCP or STATIC depending on the system.

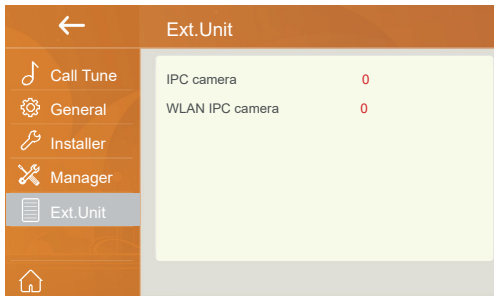
Video

Each stream type need to do setting separately.

	Main Stream (Full screen)	Tri-Stream (App view)
Encoding	Only H264 is supported	
Resolution	1280*720	320*240
FPS(Frames per second)	acceptable setting range: 15 ~ 18, 15 is the Best recommendation	
Bit Rate	700~1024kbs	512kbs~640kbs
BitRate Control	CBR is the Best recommendation	

Add IP Camera to DH7G on site

1. Select the correct menu according to the actual situation



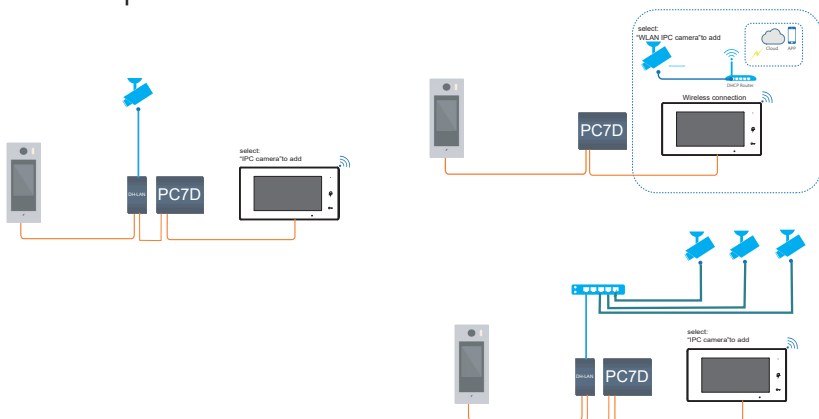
It depends on how the monitor is connected to the router where the IPC is located.

Without accessory DH-LAN: Both DH monitor and IP camera are wireless connected to the same HOME Router, select WLAN IP camera to add.

With accessory DH-LAN: IP camera is wired connect to the DH-LAN by CAT5 cable (note:DH-LAN can be installed anywhere on the 2-wire BUS), select IPC camera to add.

- 1.use accessory DH-LAN to connect only 1pc IP camera to DH system directly.
- 2.use accessory DH-LAN to connect to a POE switch, then connect max 16pcs IP cameras to this POE switch.

see below samples:



2. Add by search or manual.

3. Login

4. Save

Delete IP camera

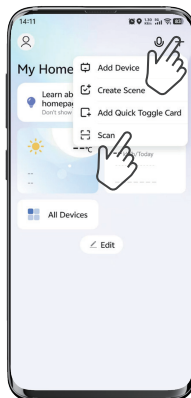
main menu → Settings → Ext.Unit → IPC camera / Wlan IPC camera → chose
→ Delete

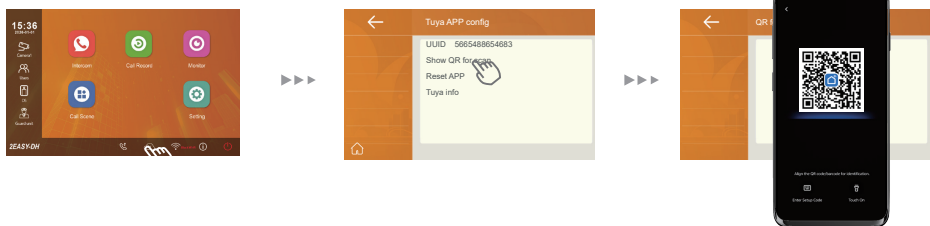
18. Connect with APP

1. Download TUYA Smart Life APP, search “smart life” in APP/Play store or scan below QR code. Register as APP request.

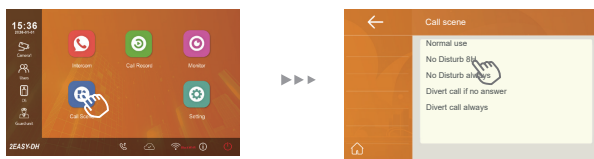


2. On monitor, tap the cloud icon than “Show QR for scan”, and on Smart Life tap the “add” icon on the right top, and scan, then scan the QR code.

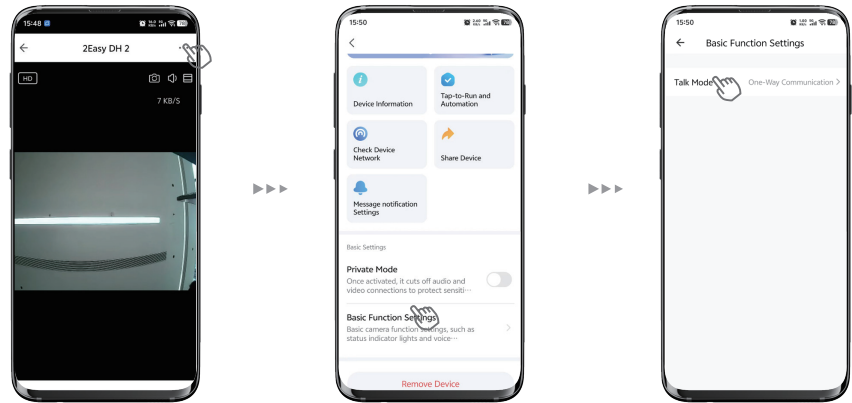




3. Set up the call scene Tap “Call scene” in the main menu, and then select “Divert call always.” so call will be transfer to app

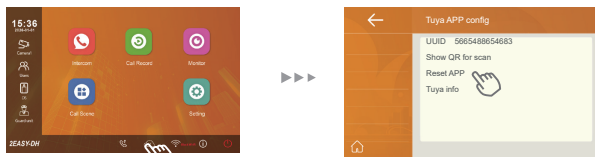


4. Change the app to 2-way communication to have better experiences



19. Reset TUYA APP

Reset TUYA APP via monitor will force to log out currently connected APP, so that you will be able to bind again.



In the APP configure menu, tap reset TUYA app and input password will reset and reboot the device.

Previously connected APP will notice in the message center the device has been removed due to rest.

20. Specification

- Power Source: DC 20~28V
- Power consumption: Standby 1.5W; Working 4W
- Monitor screen: 7'' IPS full view angle TFT
- Display Resolutions: 1024*600 resolution
- Wire Type: 2-wire
- Wiring Distance: 100m (Approx. 330')
- Operating temperature: -10 to +50 (oC)
- Dimension: 139.2(H)×186.2(W)×13.8(D)mm

21. Precautions

- 1) All components should be protected from violence vibration. And not allow to be impacted, knocked and dropped.
- 2) Please do the cleanness with soft cotton cloth, please do not use the organic impregnant or chemical clean agent. If necessary, please use a little pure water or dilute soap water to clean the dust.
- 3) Image distortion may occur if the video monitor is mounted too close to magnetic field e. g. Microwaves, TV, computer etc.
- 4) Please keep away the monitor from wet, high temperature, dust, caustic and oxidation gas in order to avoid any unpredictable damage.
- 5) Must use the right adaptor which is supplied by the manufacturer or approved by the manufacturer.
- 6) Pay attention to the high voltage inside the products, please refer service only to a trained and qualified professional.

