

Document Changes:

Who	Date	Version	Comments
Support	23/09/2017	1.0	Initial release version
Support	12/02/2018	2.0	Updated for Firmware Release 1.4.71Build170515

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1 Introduction

This guide will take you through the steps to setup a Hikvision Video Intercom system for a single dwelling with 2×1 Indoor Room Stations and 1×1 Villa Door Station. This assumes that the Intercom devices are at factory default settings and need to be activated.

2 Equipment

1 x KAD606 – Video/Audio Distributor 2 x DS-KH8301-WT – Indoor WiFi station 1 x DS-KV8102-IM – Villa Door Station 1 x PC/Laptop running iVMS4200 2.6.2.50 Build 170724

3 Pre-Requisites

3.1 Network Worksheet

Before we begin we need to plan out our network IP addresses to be assigned to each of the intercom components to provide connectivity. Any IP subnet can be used, however note that there can only be a maximum of 9 villa door stations in one system, so leave enough address space to cater for this if required.

	Device Type	Local IP	Subnet Mask	Gateway	Door Station IP	SIP Server	Main Door Type
Main Door	V Series	192.168.20.100	255.255.255.0	192.168.20.254	N/A	N/A	V Series
Master Indoor Station	Indoor Station	192.168.20.110	255.255.255.0	192.168.20.254	192.168.20.100	192.168.20.100	N/A
Extension Indoor Station	Extension Station	192.168.20.111	255.255.255.0	192.168.20.254	N/A	N/A	192.168.20.110

In our example we are going to use 192.168.20.0/24 subnet as per the table below.

3.2 Firmware

The minimum firmware release for the intercom system is v1.4.71 Build 170715. Please ensure this version of firmware is installed before proceeding with the remaining setup. To obtain the firmware please login to your account on our website or email us at support@diysecuritycameras.com.au. Note we can only supply firmware to our customers.

3.3 iVMS4200 Software

You will need to install the iVMS4200 software version 2.6.2.50 Build20170724 onto your laptop. This is the minimum version of iVMS4200 required for this version of the firmware.

3.4 PC/LAPTOP

A Windows PC/Laptop is required to run the iVMS4200 software to programme and setup the Intercom system. The PC in our example should be connected directly to the KAD LAN2 port. Initially the default factory IP address for the Intercom devices are: 192.0.0.64/24 (255.255.255.0) and 192.0.0.65/24 (255.255.255.0)

To allow the PC to communicate with the Intercom devices, configured the PC with a primary IP address of 192.168.20.150 (in our example) and a secondary IP address of 192.0.0.250. If you are not sure how to setup a secondary IP address, Google is your friend.

4 Configure iVMS4200 Software

This version of iVMS4200 software the device types have been combined and there is no need to add another device type.

- 1. Start the iVMS-4200 software.
- Click on Help->About
 Ensure your version is 2
- 3. Ensure your version is 2.6.2.50 Build 20170724 or later

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Hikvision Device: Encoding Device/ Door Station/Decoder/Storage			
Server/Indoor Station/Master Station/Security Control Panel/			
Access Controller	•		•
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5 Activate Intercom Devices

All Intercom devices need to be activated (ie with a strong password) before being configured for use. Activation can be done via the iVMS4200 software tool.

Notes around the activation password

- a. Please make this a strong password.
- b. The activation password is the main admin configuration/setup password.
- c. This password is required to perform configuration of the Intercom devices via the iVMS4200 software.
- d. This password is different to the indoor station "admin" password, which can be set separately.



Plug in all the Intercom devices as per above diagram and they will booted up and power on. When powered on they will appear at the bottom in "Online Devices" section of the iVMS4200 software.

Note in version v1.4.71 Build 170715 all devices appear to	gether.
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Now we activate the devices individually.

5.1 Door Station

1. Select Door Station at the bottom of the screen and click "Activate"

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Enter a strong password for the door station and click "OK" 2.

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5	Encoding device/Outdoor Device: DVR/DVS/NVR/PC/PC/PD/WMS-4200 PCNVR/IVMS-4200 EncodeCard server//Door Station/Outer Door Station/Door Station (V Series)	Online Device (1)		0.7020		Cancel Server Port 8000	Start Time 2017-08-23 14.04.06	Filler Added No	

3. Device should now show as active.

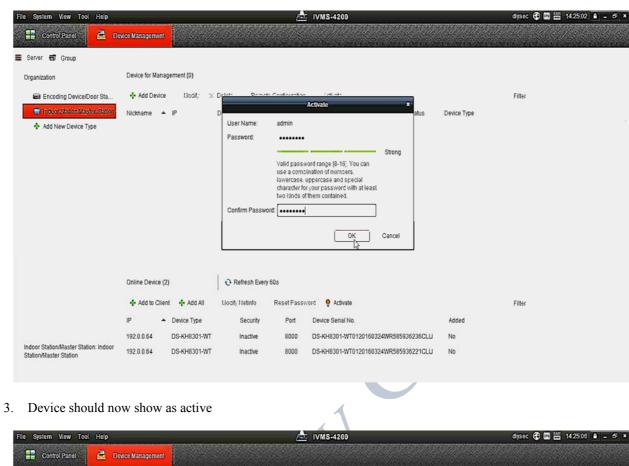
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server//Door Station/Outer Door Station/Door Station (V Series)									
ndoor Station									

1. Select Indoor Station at the bottom of the screen and click "Activate"

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Grandinimester Standin				

2. Enter a strong password for the indoor station and click "OK".



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4. Repeat steps 1 and 2 for the remaining Indoor Stations until all show as active.

November 2017

Control Panel	levice Management			
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rganization	Device for Management (0)			
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tation/filaster Station	192.0.0.64 DS-KH8301-WT Active 8000	DS-KH8301-WT0120160324WR585936221CLU	No	
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6 Assign IP Address to Intercom Devices

As per our Network Worksheet in section 3.1 assign the IP address, netmask, gateway IP to each Intercom device.

6.1 Door Station

1. Select Door Station at the bottom of the screen and click "Modify NetInfo"

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		Add All		-cts-ata				Filter	
	Online Device (1)			Activate Security	Server Port	Start Time	Added		

2. Enter IP address, Netmask, Gateway and activation password. Click "OK"

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3. Device should now show with the new assigned IP address.

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<u>/</u>	IP Device Type Firr	mware Version Security	Server Port Start Time	Added	
DVR/DVS/NVR/IPC/IPD/IVMS-4200	192.168.20.100 DS-KV8102-IM V1.4	4.0build 170302 Active	8000 2017-08-23 14:04:06	No Par suo	ameters modifica cess.
PCNVR/IVMS-4200 EncodeCard server//Door Station/Outer Door Station/Door Station (V Series)					
	5000				

6.2 Indoor Station

Note: All indoor stations will have the same default IP address of 192.0.0.64. If you require a particular Indoor Station to be the Master, then plug the Indoor Station in one at a time and assign the IP address to it.

1. Select one Indoor Station at the bottom of the screen and click "Modify NetInfo".

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2. Enter IP address, Netmask, Gateway and activation password.

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		Device Serial No.:	DS-KH8301-WT0120160324WR585936236CLU			
		Network Information:		, ₍₍₎		
		IP Address:	192.168.20.111			
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3. Device should now show with the new assigned IP address

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Station/Master Station Station/Master Station	192.0.0.64 DS-KH8301-WT	Active 8000 DS-KHI	3301-WT01201603 WR585936221CLU	No	

4. Now select the remaining Indoor Station and repeat steps 1 and 2 above. After completing all Indoor stations should show their new IP addresses as per below.

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			ß			
		Online Device (2)	O Refresh Every 60s			
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7 Configuration and Setup of Intercom Devices

We have successfully activated all our devices and assigned IP addresses. We are now ready to add the devices to the iVMS4200 software client and configure each individual component. The following section will configure each Intercom device as per our worksheet details in 3.1. Important things to note in our configuration:

- a. The Door Station provides our SIP server.
- b. The Door Station provides our time synchronisation.
- c. The Door Station is linked to the Master Indoor Station.
- d. The Master Indoor Station then links to any Extension Indoor Stations within the system.
- e. The Master Indoor Station is used to contact the Hik-Connect app.

7.1 Door Station

- 1. Click "Add to Client" bottom section
- 2. In the popup box enter Nickname (ie MainDoor), admin as the user id and the admin password, and click add.

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🖀 Server 📹 Group	1	Add ×	
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🕂 Add New Device Type		Nickname: MainDoor	
		Address: 192.168.20.100	
		Port: 8000	
		User Name: admin	
		Password:	
		 Export to Group 	
		Set the device name as the group name and add all the channels connected to the device to the group.	
	Online Device (1)		
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🙆 🕭 🖬 🔹 No e-mail account is	s configured, and all the sendi	operations are stopped.	

3. If successful the door station should now appear in the "Device for Management" section ready for configuration.

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Indoor Station/Master Station	Nickname 🔺 IP Der	ice Serial No.	Security	Net Status	HDD Status	Recording Status Signal Status	Hardware Status
+ Add New Device Type	MainDoor 192.168.20.100 DS-	KV8102-IM0120170216WR718246023C	LU Strong	0	0	• •	. e 👘
	Online Device (1)	Refresh Every 60s					
						_	
		odify Netinfo 🕤 Reset Password	Activate			Filter	
	IP A Device Type	Firmware Version Security		Start Time	Added		н. С
Encoding device/Outdoor Device: DVRDVSINVRIPCnPDivINS-4200 PCNVRIVMS-4200 EncodeCard server/Door Station/Outer Door Station/Door Station (V Series)	192.168.20.100 DS-KV8102-IM	V1.4.0build 170302 Active	8000	2017-09-29 13:20:06	Yes		
👜 👃 🖾 🔹 Knock down Alarm							¥ = *

- 4. Highlight the "MainDoor" device just added and click on "Remote Configuration".
- 5. Navigate to System->Time. Setup the time using NTP. Note the Door Station is responsible to keep our time synchronised. In our example we use the gateway address because it is an NTP server, however your setup may vary. Note the NTP server must be entered as an IP address and not a domain name. If unsure you can use public NTP servers like Google (time.google.com / 216.239.35.12).
- 6. Select "Enable DST" and set the appropriate start/end time and DST bias.
- 7. Click Save and the Synchronization.

File System View Tool Help		💩 IVMS-4200	diysec 🛞 🔤 🛗 14:23:12 🔒 🗕 🗗 🗙
🔡 Control Panel 🛃		Remote Configuration	×
Server Scoup Organization	- System Device Information Ceneral Time	Configuring the Time Settings (e.g., NTP) Time Zone Select Time Zone: (GMT+10.00) Canberra, Guam, Melbourne, Syd	Filter
 Indoor Station/Master Stati Add New Device Type 	ු System Maintenance ල User ගැ RS485 * අට Intercom * අට Network	Server Address: 192.168.20.254 NTP Port: 123 Sync Interval: 60 Y Minute(s)	nal Status Hardware Status
	* 🖒 Video Display	Start Time: October - First Week - Sun - 2 :00 End Time: April - Last Week - Sun - 2 :00 DST Bias: 60 min - Synchronization	Save
Encoding device/Outdoor Device: DVRDVSNVFNIPC/PD/VMS-4200 PCNVRVM3-4200 EncodeCard server/Door Station/Outer Door Station/Door Station (V Series)			
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8. Navigate to Intercom->Id Configuration. Set Device Type to "Door Station (V series)". All other parameters can be left at defaults. Note "No:" 0 indicates a Master/Main Door Station. Click save.

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Encoding device/Outdoor Device: DVR/DVS/N/RI/PC/PD/I/VIS-420(PC/N/RI/VIS-420(EncodeCard server/Door Station/Outer Door Station/Door Station (V Series)				≠ □ \$

- 9. Navigate to Intercom->Dial. Set "Room No:" to 1 and click Save. This is the room number we use for our master indoor station.
- 10. Our Door Station is now configured, Close the configuration window by clicking on the X.

	Remote Configuration ×
 System Device Information General Time System Maintenance User RS485 C Intercom ID Configuration Time Parameters Access and Elevator Control IO Input/Output Volume Input/Output Volume Input/Output Network Network Video Display 	Dial Image: Im

7.2 Master Indoor Station

- 1. Click "Add to Client" (bottom section)
- 2. In the popup box enter Nickname (ie Master), admin as the user id and the admin password, and click Add. Repeat for the remaining indoor stations.

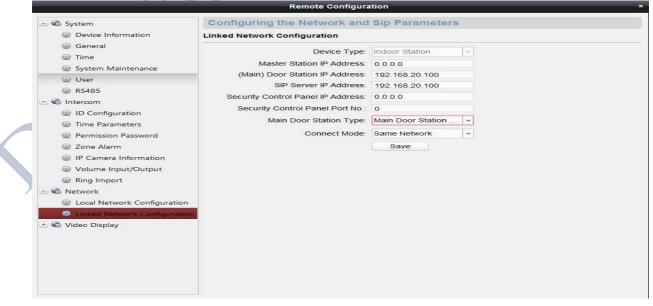
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+ Add New Device Type		Adding Mode:	IP Segment		
		Nickname:	Master		
		Address:	192.168.20.110		
		Port:	8000		
		User Name:	admin		
		Password:	•••••		
			And Cancel		
	Online Device (2)	Refresh Every 60s			
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	IP Device Type	Security	Port Device Serial No.	Added	
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Indoor Station/Master Station: Indoor Station/Master Station	192.168.20.110 DS-KH8301-V	/T Active	8000 DS-KH8301-WT0120160324WR585936221CLU	No	
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3. If successful the indoor station should now appear in "Device for Management" section ready for configuration.

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4. Highlight the "Master" device just added and click on "Remote Configuration".

- 5. Navigate to Intercom->ID Configuration.
 - a. Set "Device Type" to "Indoor Station".
 - b. Set "Room No:" as 1.
- Click "Save". c. A IVMS-4200 System View 🔁 🔤 🛗 17:37:21 🔒 🗕 🗗 Remote Configuratio Control Panel Configuring the Room Numbers E \delta System 🔳 Server 🗃 Group Device Information Device No. Configuration Organization General Device Type: Indoor Station Encoding Device/Door Sta Time Room No. 1 🚱 System Maintenance She + Add New Device Type @ User Save @ RS485 E 🗟 Intercom 👙 10 Ga G Time Parameters Permission Password Zone Alarm @ IP Camera Information Volume input/Output B Ring Import • C Network 🖲 🕜 Video Display Indoor Station/Master Station Station/Master Station 🙆 🦺 🚰 🔹 Knock down A * = *
 - 6. Navigate to Network->Linked Network Configuration. This is where we link our Master Indoor station to our Main Door Station. Main point to note here is that our Main Door Station is also our SIP Server. Set the following parameters (as per our example):
 - a. Main Door Station IP: 192.168.20.100.
 - b. SIP Server IP: **192.168.20.100**.
 - c. Main Door Station Type: Main Door Station (V Series)
 - d. Connect Mode: Same Network.
 - e. Click Save



7. Our Main Indoor Station is now configured, Close the configuration window by click on the X.

7.3 Extension Indoor Station

1. Highlight the "Extension" device and click on "Remote Configuration".

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+ Add New Device Type	Master 192.168.20.110 DS-KH8301-WT0120160324WR585936221CLU Strong 📀 Indoor Station	
	Extension 192.168.20.111 DS-KH8301-WT0120160324WR585936236CLU Strong 😚 Indoor Station	
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- 2. Navigate to Intercom->ID Configuration. Set the following:
 - a. Device Type: Station Extension
 - b. No: 1 (As the first extension. Multiple extension from 2 upwards for a maximum of 9)
 - c. Click Save.
 - d. Click "OK" (To change the device type and reboot. (The device will now reboot)

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- 3. Once device has reboot and reappeared, highlight the device and click on "Remote Configuration" as per step 1 above.
- 4. Navigate to Network->Linked Network Configuration. Set the following:
 - a. Main Indoor Station IP: 192.168.20.110
 - b. Connected Mode: "Same Network"
 - c. Click Save.

System Device Information	Sip Parameters
Device Information Linked Network Configuration	
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General	Station Extension 0.0.0.0 0.0.0.0 0 192.168.20.110

5. Our Extension Indoor Station is now configured, Close the configuration window by click on the X

8 Validation

If we have followed the steps above and configured everything correctly both the indoor stations should show a "green" connected icon on the main screen indicating that the network is connected and that the main door station is available. A "red" icon indicates something is configured incorrectly or not connected. Please revisit the step above paying particular attention to the setting of IP addresses, Main Door Station IP, SIP Server IP and Door Station Dial parameters.

