# HIKVISION

# How to Activate Device

# **Quick Guide**

(How to activate HIKVISION IPC/DVR/NVR with a strong password)

**HIKVISION SUPPORT TEAM** 

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#### Contents

Background Introduction	2
Activation Methods	3
Using Web Browser	3
Using SADP Software	4
Using iVMS-4200 Software	5
Front-End Device Activation by Back-End Device	6
Appendix	8
Third Party Connection	8
Password Rules	9
Lockout Rules	10
Supported Product List	11

## **Background Introduction**

HIKVISION's newly manufactured devices (i.e., IP cameras (IPC), PTZ cameras, digital video recorders (DVR), and network video recorders (NVR)) with the latest firmware (IPC and PTZ from V5.3.0, DVR/NVR from V3.3.0) no longer have a default password. When using the device for the first time, users need to activate the device through a compulsory password setting. The password level must be stronger than "risk" (password rules and levels will be introduced in the appendix).

#### NOTES:

1. If the device with old firmware uses "risk" password, the old user name/password is still valid and the device is still active after upgrading to V5.3.0. However, it will remind users that this is a "risk" password;

2. If the device is reset to default, it will reboot to inactive state.



#### **Using Web Browser:**

Front-end device such as cameras (from V5.3.0) and back-end device such as NVRs and DVRs (from V3.3.0) can be activated by Internet Explorer (IE) Web browser. Before logging into the device, users need to set a login password and click [**OK**] to proceed.

Activation			
	User Name Password	admin	
		Valid password range (8-16). You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.	a
	Confirm		
			ОК
ion			ОК
ion User Nam	ne	admin	OK
ion User Nam Password	ne	admin	OK
ion User Nam Password	ne	admin	OK
ion User Nam Password	ne 1	admin Valid password range [8-16 can use a combination of nu lowercase, uppercase and s character for your password least two kinds of them cont	ОК Strong J. You umbers, special d with at tained.
ion User Nam Password Confirm	ne I	admin Valid password range [8-16 can use a combination of nu lowercase, uppercase and s character for your password least two kinds of them cont	ок Strong ]. You umbers, special d with at tained.
ion User Nam Password Confirm	ne I	admin Valid password range [8-16 can use a combination of nu lowercase, uppercase and s character for your password least two kinds of them cont •••••••	OK Strong J. You J. You J

IE Activation Interface



#### **Using SADP Software:**

Users can activate devices with the new firmware by using SADP tool. For this procedure users will need version V2.2.3.6 (SADP) or above.





The next steps are the correct procedure to successfully activate devices via SADP software:

- Select the device you want to activate from the "Online Devices" list;
- Set the New Password at the "Device Activation" field;
- Confirm the New Password;
- Click [**OK**] to apply.

					SADP				- o ×
	Online Devices	🕡 Help							
<b>(</b> ) 1	otal number of onli	ne devices: 20			Save a	s Excel 🛯 🗶 Refr	esh	Modify Network Para	meters
	Device Type	IPv4 Address	Security	Port	Software Version	IPv4 Gateway	HTT	IP Address:	192.168.2.9
001	iDS-2CD6124F	192.168.2.130	Active	8000	V5.1.7build 140626	192.168.2.254	80	Port:	8000
002	DS-2CD6026F	192.168.2.101	Active	8000	V5.1.0build 131202	192.168.2.254	801(	Subnet Mask:	255.255.255.0
003	DS-2CD4624F	192.168.2.103	Active	8000	V5.2.0build 140721	192.168.2.254	80	IPv4 Gateway:	192.168.2.254
004	DS-2CD4024F	192.168.2.105	Active	8000	V5.2.0build 140721	192.168.2.254	80	IPv6 Address:	3a3a::
005	DS-2CD6362F-IS	192.168.2.100	Active	8000	V5.0.9build 141009	192.168.2.254	80	IPv6 Gateway:	3a3a::
006	DS-2CD4A25F	192.168.2.35	Active	8000	V5.2.6build 141212	192.168.2.254	80	IPv6 Prefix Length:	64
007	DS-2CD4A25F	192.168.2.64	Active	8000	V5.2.6build 150415	192.68.2.254	80	HTTP Port:	80
008	DS-2CD2T22-I5	192.168.2.107	Active	8000	V5.2.0build 140721	192.168.2.254	80	Device Serial No.:	DS-7732NI-SP162013022
009	DS-2CD2032-I	192.168.2.224	Active	8000	V5.2.0build 140721	192.168.2.254	80	Enable DHCP	
010	DS-2DF8223I-A	192.168.2.108	Active	8000	V5.2.4build 141121	192.168.2.254	80 🖡	Password	Save
011	DS-2CD755F-EIZ	192.168.2.102	Active	8000	V5.2.0build 140721	192.168.2.254	80		
012	DS-2DE4582-AE	192.168.2.109	Active	8000	V5.1.1build 140116	192.168.2.254	80		
013	DS_C10S	192.168.2.51	Active	8000	V1.2.1build 140808	192.168.2.254	N/A	Device Activation	
014	DS-9016HFI-ST	192.168.2.113	Active	8000	V3.1.1build 140421	192.168.2.254	N/A	New Password:	•••••
015	DS-7732NI-SP	192.168.2.112	Active	8000	V3.1.1build 150122	192.168.2.254	N/A	Strong	
016	DS-7708NI-SP	192.168.2.226	Active	9000	V3.1.7build 141201	192.168.2.254	N/A	Confirm Password:	••••••
017	DS-6408HDI-T	192.168.2.188	Active	8000	V2.3.2 build 140303	192.168.2.254	N/A		ОК
018	DS-96256NI-E	192.168.2.110	Active	8000	V3.0.2build 140925	192.168.2.254	80		
019	Service Watch	192.168.2.16	Active	7208	HIKEU0TEM	192.168.2.254	N/A		
020	DS-7732NI-SP	192.168.2.9	Inactive	8000	V3.3.0build 150324	192.168.2.254	80		
			<u> </u>						
							÷		

SADP Activation Interface

### Using iVMS-4200 Software:

Users can activate devices with the new firmware by using iVMS-4200 Software as well. For this procedure users will need version V2.3.1.3 (iVMS-4200) or above.

	About	ĸ
al a	Name: iVMS-4200	
	Version: v2.3.1.3 build20150416	
	Managable Device Number: 256	
	Home Page: www.hikvision.com	
	2002-2015 © Hangzhou Hikvision Digital Technology Co., Ltd. All Rights Reserved	
	OK	

iVMS-4200 Software Version

File System View Tool Help			💩 iVMS-4200		1 3	💷 🏭 15:42:13	e - e ×
📑 Control Panel 👧 Mai	n View 📄 📄	Log Search	🖨 Device Management				
Server 🗃 Group							
Organization	Device for Manag	ement (8)					
Encoding Device	Add Device	Modify D	elete Remote C VCA Allo	ca Activate	Refresh All	Filter	r
Add New Device Type	Nickname 🔺	IP	Device Serial No.		Security	Net Status	HDD Statu
	10.10.38.108	10.10.38.108	iDS-2DF5274-A20140421CCCH	123456794B		8	0
	10.7.34.113	10.7.34.113	DS-2CD2T10-I320141111AACH4	489144035		8	0
	10.7.34.115	10.7.34.115				C	0
	10.8.1.118	10.8.1.118	DS-2CD4A65F-IZHS20150320C0	CWR486431538		C	0
	11111	10.18.0.121	DS-2CD4312F-IZHS20140710C0	CWR471911604		C	0
	12	10.7.52.12	DS-9016HFI-S1620120723BBRF	R409949596WCVU	Weak	0	0
	5.3.3.3	5.3.3.3				C	0
	11111	192.168.1.64			Inactive	œ	0
	۰ (			)			4
	Online Device (12	2)	Refresh Every 15s		$\frown$		÷
	Add to Client	t 🗘 Add All	Modify Netinfo Res	et Password	Activate	Filter	
	IP 🔺	Device Type	Firmware Version	Security	erver Port	9 art time	Ac
	10.18.0.231	DS-2CD6026FHV	VD-A V5.2.6build 141218	Active	8000	2015-02-15 09:42:1	4 NC
Encoding device: DVR/DVS/NVR/IPC/IPD/iVMS-4200	192.168.1.64	DS-2CD4312F-IZ	HS V5.3.0build 150325	Inactive	8000	2015-03-26 15:34:4	4 Ye
PCNVR/IVMS-4200 EncodeCard	192.168.1.64	DS-2CD4032FW	D-APW V5.3.0build 150325	Inactive	8000	2015-03-26 13:09:4	0 Ye.

iVMS-4200 Activation Interface



#### Front-End Device Activation by Back-End Device

A back-end device (from V3.3.0) can activate a front-end device, only if the back-end device has already been activated.

	Activation	
User Name	admin	
Create New P	****	Strong
Confirm New P	*****	
Valid password of numbers, low	range [8-16]. You can use vercase, uppercase and sp	a combination ecial character
for your passw	ord with at least two kinds o	of them
contained.		
0	OK	Cancel

Back-End Device Local Activation Interface

Users can use back-end device (from V3.3.0) to activate front-end device (from V5.3.0). There are five methods:

- One-touch adding: In the back-end device interface, users can use "One-touch adding" to add all front-end devices on the LAN. At the same time, the devices will be automatically activated with the back-end device password;
- *One-touch activation*: In back-end device interface, users can activate all front-end devices in LAN with the self-defined passwords or back-end device password;
- Manual addition 'S': Add one front-end device manually with the back-end device password;
- Manual activation 'S':Activate one front-end device manually with the self-defined passwords or back-end device password;
- Plug & Play: Connect a front-end device to a back-end device's PoE interface with the back-end device password.

			Camera Manager	ment			
IP Camera	IP Camera Import	/Export					
■Came	ra No. Add/Delete	Status	Security	IP Camera Address	Edit	Upgrade Camera Nar	ne Protocol
	۲		Inactive	192.168.1.64			HIKVISION
	🗢 👇		😵 inactive ຊ	192.168.1.64	2		HIKVISION
	Refresh	One-touch Ac	tivate Upg	rade	Delete	One-touch Addi	ng Custom Adding

Back-End Device Local Interface for activating Front-End Device

#### NOTES:

- 1. The front-end device upgraded from old firmware (login with admin/12345) supports Plug & Play normally;
- 2. Before connecting to a back-end device with old firmware, the inactive front-end device needs to be activated first;
- 3. The PoE port of back-end device with old firmware cannot recognize the front-end device with new firmware. The NVR needs to be upgraded.
- 4. The method of activating front-end devices by back-end device is highly recommended.



# **Third-Party Connection**

#### Third-Party Front-End Device Connect to HIKVISION Back-End Device:

HIKVISION back-end device needs to be activated before connecting to third-party front-end devices.

#### HIKVISION Front-End Device Connect to Third-Party Back-End Device:

HIKVISION front-end devices need to be activated before connecting to third-party back-end devices.

#### **Third-Party VMS Platform:**

HIKVISION device needs to be activated before connection. We can provide an SDK interface and ISAPI protocol for integration.



## **Password Rules**

#### **Password Level Judgment**

There are four kinds of characters that can be used for password: numbers/English uppercase letters/English lowercase letters/ special characters:

- Level 0 (risk): Password length is fewer than eight characters; password contains one kind of character; password is the same as user name; password is the mirror writing of user name. (Example: 12345, abcdefgh)
- Level 1 (weak): Password contains two kinds of characters. The combination is number + English lowercase letter or number + English uppercase letter, and the password length must be no fewer than eight characters. (Example: 12345abc, 12345ABC)
- Level 2 (medium): Password contains two kinds of characters. The combination is NEITHER number + English lowercase letter NOR number + English uppercase letter, and the password length must be no less than eight characters. (Example: 1234567+, abcdefg/, GFEDCBA), ABCDEFGh, )
- Level 3 (strong): Password contains more than two kinds of characters and the password length must be no less than eight characters. (Example: 1234abc+)

NOTE: Password level should be higher than 0. Using "risk" level password is forbidden.

# **Lockout Rules**

#### Login Attempts:

Admin Account:	7 password input attempts are allowed
Other Account:	5 password input attempts are allowed
After login error attemp	ts reach the limitation, the device will lock the current IP or account;

#### **Device Lockout Duration:**

Remote login: 30 minutes (the client's IP will be locked) Local login: 1 minutes (the account will be locked);

#### NOTES:

- 1. Users who have already logged in will not be locked out;
- 2. Admin account can unlock the other accounts by SDK



IE Lockout Interface



## **Supported Product List**

This login strategy was firstly carried out on HIKVISION IPC V5.3.0 firmware and DVR/NVR V3.3.0 firmware, released in March, 2015. Other product lines will be updated gradually. Supported products are listed below:

#### Supported SADP

Version: v2.2.3.6 Build20150428 (or above)

#### Supported iVMS-4200

Version: v2.3.1.3 Build20150416 (or above)

#### Supported IPC (2XX2 series)

DS-2CD2012-I, DS-2CD2022-I, DS-2CD2032-I, DS-2CD2012F-I(W), DS-2CD2022F-I(W), DS-2CD2032F-I(W), DS-2CD2112F-I(S)(W), DS-2CD2122F-I(S)(W), DS-2CD2132F-I(S)(W), DS-2CD2312-I, DS-2CD2332-I, DS-2CD2412F-I(W), DS-2CD2432F-I(W), DS-2CD2512F-I(S), DS-2CD2532F-I(S), DS-2CD2612F-I(S), DS-2CD2622F-I(S), DS-2CD2632F-I(S), DS-2CD2712F-I(S), DS-2CD2722F-I(S), DS-2CD2732F-I(S), DS-2CD2712-I3/I5/I8, DS-2CD2722-I3/I5/I8, DS-2CD2732-I3/I5/I8

#### Supported IPC (XXX0 series)

DS-2CD2010-I, DS-2CD2010F-I(W), DS-2CD2020-I, DS-2CD2020F-I(W), DS-2CD2110F-I(W)(S), DS-2CD2120F-I(W)(S), DS-2CD2410F-I(W), DS-2CD2420F-I(W), DS-2CD2510F, DS-2CD2520F, DS-2CD2610F-I(S), DS-2CD2620F-I(S), DS-2CD2710F-I(S), DS-2CD2720F-I(S), DS-2CD2810F, DS-2CD2820F, DS-2CD2T10-I3/I5/I8, DS-2CD2T20-I3/I5/I8, DS-2CD2Q10FD-IW, DS-2CD2D14WD, DS-2CD2C10F-IW, DS-2CD6510-I(O)

#### Supported IPC (4XX2, 4XX4 series)

DS-2CD4012F-(A)(P), DS-2CD4012FWD-(A)(P), DS-2CD4024F-(A)(P), DS-2CD4032FWD-(A)(P), DS-2CD4112F-I(Z), DS-2CD4112FWD-I(Z), DS-2CD4124F-I(Z), DS-2CD4132FWD-I(Z), DS-2CD4212F-I(Z)(S)(H), DS-2CD4212FWD-I(Z)(S)(H), DS-2CD4224F-I(Z)(S)(H), DS-2CD4232FWD-I(Z)(S)(H), DS-2CD4312F-I(Z)(S)(H), DS-2CD4312FWD-I(Z)(S)(H), DS-2CD4312F-PTZ, DS-2CD4324F-I(Z)(S)(H), DS-2CD4324F-PTZ, DS-2CD4332FWD-I(Z)(S)(H), DS-2CD4332FWD-PTZ, DS-2CD6412FWD

#### Supported IPC (XX26, XX24FWD series)

DS-2CD4026FWD-(A)(P), DS-2CD4126FWD-IZ, DS-2CD4526FWD-IZ(H), DS-2CD4626FWD-IZ(H), DS-2CD4A26FWD-IZ(H)(S), DS-2CD6026FHWD-(A)(P), iDS-2CD6024FWD/(B/F), iDS-2CD6124FWD-IZ/(H/C/B/F), DS-2CD6226FWD-IZ(H)(S), DS-2CD6412FWD, iDS-2CD6412FWD/C

#### Supported IPC (4XX5 series)

DS-2CD4025FWD-(A)(P), DS-2CD4035F-(A)(P), DS-2CD4035FWD-(A)(P), DS-2CD4065F-(A)(P), DS-2CD4085F-(A)(P), DS-2CD4025F-(A)(P), DS-2CD4125FWD-IZ, DS-2CD4135F-IZ, DS-2CD4135F-IZ, DS-2CD4135F-IZ, DS-2CD4135F-IZ, DS-2CD4125FWD-IZ(H),



DS-2CD4535F-IZ(H), DS-2CD4535FWD-IZ(H), DS-2CD4565F-IZ(H), DS-2CD4585F-IZ(H), DS-2CD45C5F-IZ(H), DS-2CD4625FWD-IZ(H)(S), DS-2CD4635F-IZ(H)(S), DS-2CD4635FWD-IZ(H)(S), DS-2CD4665F-IZ(H)(S), DS-2CD4685F-IZ(H)(S), DS-2CD46C5F-IZ(H)(S), DS-2CD4A25FWD-IZ(S), DS-2CD4A35F-IZ(S), DS-2CD4A35FWD-IZ(S), DS-2CD4A65F-IZ(S), DS-2CD4A85F-IZ(S), DS-2CD4AC5F-IZ(S)

# Supported PTZ (Support all the previous released models. Here lists the latest released models)

DS-2DF5220S-DE4/W, DS-2DY9185-AI2N, DS-2DY9185-A, DS-2DY9185-AI2

#### Supported DVR/NVR (Netra and 7600HI-ST series)

DS-9204/08/16HWI-ST, DS-9104/08/16HFI-ST, DS-9104/08/16HWI-ST, DS-9104/08/16HFI-RT, DS-9116HFI-XT, DS-9004/08/16HFI-ST, DS-9004/08/16HWI-ST, DS-9004/08/16HFI-RT, DS-9016HFI-XT, DS-8104/08/16HFI-ST, DS-8104/08/16HWI-ST, DS-8004/08/16HFI-ST, DS-8004/08/16HWI-ST, DS-7208/16HWI-SV, DS-9608NI-ST, DS-9616NI-ST, DS-9632NI-ST, DS-9664NI-ST, DS-9608NI-RT, DS-9616NI-RT, DS-9632NI-RT, DS-9664NI-RT, DS-9616NI-XT, DS-9632NI-XT, DS-9664NI-XT, DS-8608NI-ST, DS-8616NI-ST, DS-8632NI-ST, DS-9664NI-ST, DS-7708NI-ST, DS-7716NI-ST, DS-7732NI-ST, DS-7764NI-ST, DS-7708NI-SP, DS-7716NI-SP, DS-7732NI-SP, DS-7608NI-ST, DS-7616NI-ST, DS-7632NI-ST, DS-7608NI-SP, DS-7616NI-SP, DS-7632NI-SP, DS-7600HI-ST

#### Supported NVR (-EX series)

DS-7604NI-E1, DS-7608NI-E1, DS-7616NI-E1, DS-7604NI-E1/4P, DS-7604NI-E1/4N, DS-7608NI-E2, DS-7616NI-E2, DS-7632NI-E2, DS-7608NI-E2/8P, DS-7616NI-E2/8P, DS-7616NI-E2/16P, DS-7632NI-E2/16P, DS-7632NI-E2/8N, DS-7616NI-E2/8N, DS-7632NI-E2/8N, DS-7616NI-E2/16N, DS-7632NI-E2/16N, DS-7708NI-E4, DS-7716NI-E4, DS-7732NI-E4, DS-7708NI-E4/8P, DS-7716NI-E4/16P, DS-7732NI-E4/16P, DS-8608NI-E8, DS-8616NI-E8, DS-8632NI-E8, DS-8664NI-E8

#### Supported NVR (-SN series)

DS-7104/8/16NI-SN, DS-7104/8/16NI-SN/N, DS-7104/8/16NI-SN/P DS-7604/8/16NI-SN, DS-7604/8/16NI-SN/N, DS-7604/8/16NI-SN/P

#### Supported NVR (-SE series)

DS-7604/08/16NI-SE, DS-7604/08/16NI-SE/N, DS-7604/08/16NI-SE/P DS-7604/08/16NI-V, DS-7604/08/16NI-VP

#### Supported DVR (7100/7200/7300/8100SH series)

DS-7204/08/16HI-SL, DS-7204/08/16HI-E1, DS-7104/08/16HWI-SH, DS-7104/08/16HWI-SL, DS-7104/08/16HVI-SL, DS-7104/08/16HVI-SL, DS-7204/08/16HVI-SH, DS-7204/08/16HWI-SH, DS-7204/08/16HWI-E1, DS-7208/16HWI-E2. DS-7304/08/16HWI-SH, DS-7304/08/16HWI-SH, DS-7324/32HWI-SH, DS-7324/32HFI-SH, DS-7324/32HCI-SH, DS-8124/32HCI-SH



#### Supported TVI DVR

DS-7104/08/16HGHI-E1, DS-7104/08/16HGHI-SH, DS-7204/08/16HGHI-E1, DS-7208/16HGHI-E2, DS-7204/08/16HGHI-SH, DS-7204/08/16HGHI-SH, DS-7304/08/16HQHI-SH, DS-7304/08/16HQHI-SH, DS-7304/08/16HQHI-SH, DS-9004/08/16HQHI-SH

