

HikCentral Professional ISUP Device Accessing

Operation Guide

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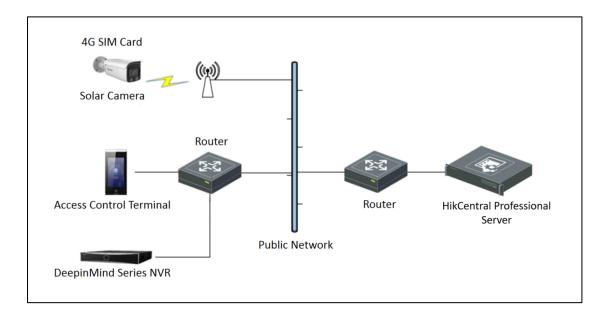
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1 Network Configuration



1.1 Typical Network Topology

1.2 Device Network

The devices are connected to the public network via 4G SIM cards (solar cameras) or by port mapping (access control devices and NVRs).

1.3 HikCentral Professional Platform Network

1.3.1 Public Network Configuration of the Server

The HikCentral Professional server opens the following ports of the platform to the public network by configuring a fixed IP address or domain name of the public network or port mapping.

Port	Protocol	Port Description
80	HTTP/WebSocket	Used for Web Client & Control Client to access the
		platform via HTTP.
443 (Optional)	HTTPS	Used for Web Client & Control Client to access the
		platform via HTTPS.
7332	ТСР	Used for receiving alarms from ISUP devices.
7334	UDP	Used for receiving alarms from ISUP devices.
7660	ТСР	Used for receiving registration from ISUP devices.

7661	ТСР	Used for getting the stream from ISUP devices via
		Streaming Server.
6123	НТТР	Used for picture storage of ISUP devices.
27661	НТТР	Used for calling back the ISUP signaling.
554	RTSP	Used for getting the stream for live view (real-time
		streaming port).
559	WebSocket	Used for getting the stream for Google Chrome,
		Firefox, or Safari.
10000	ТСР	Used for getting the stream for playback (video file
		streaming port).
16000	ТСР	Used for getting the stream from ISUP devices via the
		plugin.

1.3.2 Public Network Configuration of HikCentral Professional

Platform

Log in to the Web Client of HikCentral Professional, click **System Configuration->Network->WAN Access** to enter the WAN Access page. Switch on **Access WAN**, enter the IP address or domain name and mapped port(s) of the public network, and click **Save** to save the settings.

88	器					
III	System Configuration		WAN Access			
88		~				
Ø	Network	^	Access WAN			
			*IP Address			
			*Client Communication Port	80		
			*Client SSL Communication Port	443		
	WAN Access		*Real Time Streaming Port	554		
Ð		~	*Video File Streaming Port	10000		
		~	*Web Client Streaming Port	559		
\oplus		~	*Receiving Generic Event Port (T	15300		
٨		~	*Receiving Generic Event Port (U	15300		
\ ♥		~	*Receiving Site Registration Port	14200		
Ē			*ISUP Registration Port	7660		
			*ISUP Alarm Receiving Port (TCP)	7332		
			*ISUP Alarm Receiving Port (UDP)	7334		
			*ISUP Streaming Port (via VAG)	7661		
				Save		

1.4 (Optional) pStor Network

If pStor is accessed in the overall solution, the following ports of pStor need to be opened to the public network.

Port	Protocol	Port Description
6022	тср	Used for applying recording schedules.
6027	тср	Used for writing video data.
6112	тср	Used for uploading data via HTTPS.
6111	ТСР	Redirection port for uploading data via HTTPS.
6041	ТСР	Used for uploading data via HTTP.
6011	ТСР	Redirection port for uploading data via HTTP.
6114	тср	Used for downloading data via HTTPS.
6113	ТСР	Redirection port for downloading data via HTTPS.
6040	ТСР	Used for downloading data via HTTP.
6120	ТСР	Redirection port for downloading data via HTTP.
6045	ТСР	Used for transmitting object data.
6037	ТСР	Used for transmitting video data.
6036	ТСР	Used for transmitting video data.
6060	ТСР	Used for transmitting web data.
6098	ТСР	Used for receiving media data from Stream Media Server.
6042	ТСР	Used for forwarding storage data.
6038	ТСР	Used for forwarding storage data.
6044	ТСР	Used for forwarding storage data.
6039	ТСР	Used for forwarding storage data.
6046	ТСР	Used for transmitting RESTful data of object storage.
6201	ТСР	Communication port for object storage.
6021	тср	Used for login.

2 Access Solar Camera

2.1 Configure Device

After activating the device and configuring the network, you can log in to the device via the web browser and click **Network->Advanced Setting->Platform Access** to enter the Platform Access page. You need to enter the IP address and port No. for platform registration and record the device ID, ISUP Key, and other information.

HI	KVISION®	Live View	Playba	ck Pictu	re	Config	uration		
ç) Local	SNMP FTP	Email	Platform Access	HTTPS	QoS	802.1x	Integration Protocol	Network Service
Ē		Platform Access	Mode	ISUP		\checkmark			
Ð	Network	Enable							
	Basic Settings	Protocol Version		ISUP5.0		~			
	Advanced Settings	Server Address		-					
Q.	Video/Audio	Port		7660					
] Image	Device ID		111222					
Ē	Event	Key		*****					
	Storage	Register Status		Online		\sim			
				_					
		🗎 S	ave						

Note:

- Server Address refers to the IP address of HikCentral Professional on the WAN.
- Device ID refers to the user-defined name for the device.

2.2 Add Device

Log in to the Web Client of HikCentral Professional, click **Resource Management->Device and** Server->Encoding Device to enter the Encoding Device page. Click + to enter the Add Encoding Device page, select **Hikvision ISUP Protocol** as the access protocol, enter the device ID, name, and other information, and click **Add** to add a device.

HikCentral Professional ISUP Device Accessing Operation Guide

HikCentral Profession	al Web Client	Ø Wizard ≡
■ Resource Management	⊖Add Encoding Device	
Device and Server ^		
Encoding Device	Basic Information	
Access Control Devi	Access Protocol	Hikvision ISUP Protocol
Elevator Control De		0 Device accessing the platform via ONVIF protocol is not enabled. Go to System Configuration page to enable.
Video Intercom Dev	Adding Mode	Device ID
video intercom Dev		O Device ID Segment
Security Control De		O Batch Import
Dock Station	*Device ID	111222
UVSS	ISUP Login Password	Ø
Network Transmissi		
Guidance Screen	Verify Stream Encryption Key	
Digital Signage Ter	*Name	solar camera
IP Speaker	Picture Storage	
Security Inspection		Add Add and Continue Cancel

After the device is added, the network status of the device will be "Online" after a while.

88 💿 HikCentral Professiona	al Web Client						Ø Wizard	⊟ Maintenance and Mar	nagement admin ^v
Resource Management	+ Add 🗇 Delete	Change Password	🖉 Edit Bandwidth fo	r Video Do 🛞 1	Time Zone 🛛 🕄 Refr	esh All 🕸 N+1 Hot	t Spare	Search	Q
Device and Server ^	Name ‡	Address ‡	Serial No. 🗘	Version ‡	Available Cam 🗘	Alarm Inputs/ 🗘	Network Status	Password Stre 🛊	Operation
Encoding Device	Solar camera	10.9.99.178	DS-2XS6A25G0-I/	V5.5.111 build 210	1	0/0	Online(Waked Up)	/	0 0 0
Access Control Devi									
Elevator Control De									
Video Intercom Dev									
Security Control De									
Dock Station									

2.3 Wake Up Device

When the device power is lower than the configured threshold, the device will be in sleep mode. You can wake up an asleep device on HikCentral Professional.

2.3.1 Wake Up Device on the Page of Adding Devices

🔠 🔞 HikCentral Pre	fessiona	al Web Client						Wizard	■ Maintenance and M	Aanagement	admin `
Resource Management	ıt	+ 🗈 🔎	∠ © 6) ¢					Search		Q
Device and Server	^	Name ÷	Address 🗘	Serial No. 🗘	Version ‡	Available 🕴	Alar ‡	Network Status	Password ÷	Operation	
Encoding Device		solar camera	10.9.99.13	DS-2XS2T41G	V5.5.120 build	1	0/0	Online(Waked Up)	/	0	ø
Access Control Devi		71NXI	10.41.9.208	iDS-7716NXI-I	V4.40.400 buil	11	18/10	🛇 Online	Strong	© C	

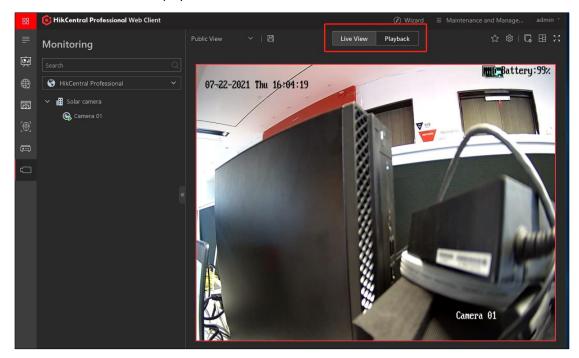
2.3.2 Wake Up Device During Live View

Click the channel of the solar camera on the Client, the Client will prompt that the device is in sleep mode and you need to wake it up.



2.4 Start Live View and Playback

Log in to the Control Client, enter the Monitoring module, and double-click the channel of the solar camera to start live view or playback.



3 Access MinMoe Series Facial Recognition Terminal

3.1 Configure Device

- 1. Log in to the device via web browser.
- 2. Click Network->Advanced->Platform Access to enter the Platform Access page.
- 3. Enter the public IP address of the platform and the port No. for registration
- 4. Record the device ID, ISUP Key, and other information.

HIKVISION	Live View	User	Search	Configuration	
🖵 Local	Platform Access	HTTP Listening			
🖽 System 🚿	/				
Hetwork A		atform Access Mode	ISUP	~	
Basic Settings		Enable			
Advanced		Protocol Version	v5.0	~	
r⊡ Video/Audio		Server Address			•
⊡ Image		Port	7660		S
Schedule	,	Device ID	123456		
		ISUP Key			
		Register Status			
Access Control					
🌡 Temperature			Sa	ve	
ූ Smart					
Theme					

Note:

- Server Address refers to the IP address of HikCentral Professional on the WAN.
- Device ID refers to the user-defined name for the device.

3.2 Add Device

Log in to the Web Client of HikCentral Professional, click **Device and Server**->**Access Control Device**, click **Add**, and enter the device ID, ISUP Login Password (ISUP Key of the device), etc.

HikCentral Professiona	🚱 HikCentral Professional Web Client					
Resource Management	Add Access Control Device					
Device and Server ^						
Encoding Device	Basic Information					
Access Control Devi	Access Protocol	Hikvision ISUP Protocol 🗸				
Elevator Control De	Adding Mode	Device ID				
Video Intercom Dev		O Device ID Segment				
Security Control De		Batch Import				
Dock Station	*Device ID	123456				
UVSS	ISUP Login Password	····· Ø				
Network Transmissi	*Name	K1T671				
Guidance Screen	Picture Storage					
Digital Signage Ter	Picture Storage	Select Local Storage or pStor Storage				
IP Speaker	Picture storage					
Security Inspection	*Storage Location	Local Storage V Configuration				
Guidance Terminal		0 The maximum picture storage speed of the System Management Server is 10 M/s.				
Recording Server		Add and Continue Cancel				

Note:

- For HikCentral Professional with version 2.0 and below, ISUP devices only support saving pictures in pStor, so the pStor storage must be configured, the authorization of saving pictures should be enabled for pStor, and the port configured in <u>(Optional) pStor Network</u> needs to be mapped to the public network.
- For HikCentral Professional with version 2.1 and above, ISUP devices also support saving pictures on the local storage, so configuring pStor is optional.

3.3 Apply Person Permission

1) Log in to the Web Client of HikCentral Professional, click **General->Person**, click **Add**, enter the person information, and click **Add** to save the added person information.

器 ⑥ HikCentral Professional 1	Web Client				Ø	Wizard	d Management 🛛 admin 👻
+ ∠ □ ~ \$	+ 🛛 🗸 🗷	l. < ± ⊂ .		総 🖨 🗌 Include Sub-	Group		
Search Y root sales	Full Name			Card No. Please enter the card	number. 🔻	Filter	Reset 🛛 🕹
sales	Profile Picture	Name 🕆	ID ÷	Person/Visitor ÷	Phone No. 🔹	Person Group 🏺	Credential Inf
		tre	5031963013	Normal Person	/	root	₩ x2 x0
		yilin wu	1238972985	Normal Person	/	root	₩ x0 x0

2) Click Access Control->Access Level and select access point(s) to add them to the access level.

Access Control	(isup-test						
Access Control Overview							
Basic Settings 🗸 🗸	*Access Level Name	isup-test					
Access Level	Description						
Manage Access Level							
Assign by Access Level	*Access Point	All Resources	~				
Assign by Person		Available			Selected		
Assign by Person Gr		Search	Q		Search		
Assign by Access Gr		> 10.9.9.44			Door 02	Area	
Access Control Applicat 🗸		> 🔲 📕 10.9.97.33		>	Door 02	test	
Video Intercom Applica V		 III 10.9.98.204 III 10.9.99.44 		<			
Troubleshooting		> 🔲 🔢 10.9.99.130					
Real-Time Monitoring		 III 10.9.99.224 III III 0.909.731 					
Q Access Control Retrieval 🗸							
	*Access Schedule	All-Day Template	∨ View				
		Save Cancel					

3) Select a method to assign the access level to the person(s).

88	6 HikCentral Profession	al Web Client					\textcircled{O} Wizard \equiv Maintenance and Management admin $$
₽	Access Control	🗄 Apply Access L 🚹				\bigtriangledown	isup-test
Ģ.		Access Level Name 🗍	Access Schedule	Access Poi	int		🖆 Assign To 🔄 Unassign 🗠 Search Q
嬴		isup-test	All-Day Template 📋	2	0		Basic Information
		a-test	All-Day Template 🗎	4	0		acs test
Lő							2248456653 L
							🚺 🛔 root > sales 🔚 0 👘 0
	Assign by Access Level						a1 b1
							□ 2010653090 ▲ root □ 0 @ 0
	Video Intercom Applica 💙						

4) Click **Apply Access Level Settings** to apply the access level.

88	🟮 HikCentral Professiona	l Web Client				
₽	Access Control	🗄 Apply Access L 😗			\bigtriangledown	isup-test
Ģ	Access Control Overview	Access Level Name ÷	Access Schedule +	Access Point		🖆 Assign To 🔄 Unassign 🗸 Search Q
國	Basic Settings 🛛 🗸 🗸	isup-test	All-Day Template 📄	2 0		Basic Information
	Access Level ^	a-test	All-Day Template 📄	a 4 o 0		
	Assign by Access Level Assign by Person					
	Assign by Person Gr Assign by Access Gro Access Control Applicat Video Intercom Applica					□ 2010653090 C A root □ 0

88	6 HikCentral Professiona	al Web Client			Apply Access Level Settings	×
₽	Access Control	🗄 Apply Access L 🔞				~
Ģ	Access Control Overview	Access Level Name	Access Schedule	Access P	Select Persons to Apply	
हिन	Basic Settings 🛛 💙	isup-test	All-Day Template 🗎	2	All Persons	
		a-test	All-Day Template 🗎	4	Specified Person	
Б	Access Level				Specified Access Point	
	Manage Access Level					
	Assign by Access Level				Apply (Initial)	
	Assign by Person					
	Assign by Person Gr				Apply Cancel	
	Assign by Access Gro					
	Access Control Applicat 💙					
	Video Intercom Applica 💙					

3.4 Functions and Applications

1) Enter the Real-Time Monitoring page on the Web Client to view the access point status and realtime access control events.

Access Control	Select,					©, Viev	w Small Pic 🗂	Unlock / Temp	🖰 Lock / Access —	🕼 Remain Unloc	🛛 Remain Locke
Access Control Overview											
Basic Settings	~			Details	_	_	- .	?	?		
🚯 Access Level	Cont Doort	2	Door 04	Carol ZHANG			10°	Door2	Door1		
Access Control Applicat-	2			243		2021-06-24 11:00:36 Door1_Cardreader 01					
📱 Video Intercom Applica	-				-	Unknown 12345678					
Troubleshooting						All Persons > Training Gro	oup				
Real-Time Monitoring					-						
Q Access Control Retrieval	~										
Access Record Retrie	Total: 7			-			_				/1 6
Device Recorded Dat-	TOTAL 7										
Entry & Exit Counting	Real-Time Event										29 GA (1) I
	Profile Picture	Full Name	ID	Person Group	Skin-Surface Tem	Record Type	Reader Authentic	Card No.	Event Source	Time	Operation
	2					Door Locked (Doo			Door1	2021-06-24 11:00:46	6
	3					Door Unlocked (D.,			Door1	2021-06-24 11:00:36	C 3
	.0	Carol ZHANG	12345678	All Persons > Traini		Access Granted by	Card/Face/Authent		Door1 Cardreader	2021-06-24 11:00:36	•

2) Enter the Access Control Retrieval page on the Web Client to search the historical event records of access control.

88 O HikCentral Profession	nal Web Client									Ø Wizard	⊟ Maintenance	ce and Manage	ment admin
	Access Record Retrieval								+ Impo	rt Event 🗸	S Forgive Anti-	Passback	Export
	Time	ull N 🗧	ID \$	Skin-S ‡	Weari ‡	Card 🗘	P ≑ - \\	Perso ‡	Time ‡	Acces ‡	Acces \$	Acces \$	Atten ‡
🖾 Basic Settings 🛛 🗸	Last 30 Days 🗸	erson No			No Mask	0479373330			2021-07-2	Door 01	Authorized	Access Gr	Undefined
🖪 Access Level 🗸 🗸	Access Point	erson No			No Mask	0479373330			2021-07-2	Door 01	Authorized	Access Gr	Undefined
🖪 Access Control Applicat 🗸	All resources are selected.	erson No			Unknown	0479373330			2021-07-2	Door 01	Failed	Combined	Undefine
🖞 Video Intercom Applica 🗸	Record Type	erson wo			Unknown	04/95/5550			2021-07-2	Door of	Pared	Combined	Underine
Troubleshooting	All record types are selected.	erson No			No Mask				2021-07-2	Door 01	Failed	Access De	Undefine
Real-Time Monitoring	Access Result	erson No			No Mask				2021-07-2	Door 01	Failed	Access De	Undefine
🔾 Access Control Retrieval 🛛 🗡	Search By	erson No			No Mask				2021-07-2	Door 01	Failed	Access De	Undefine
	Person/Visitor Card No.	erson No			No Mask				2021-07-2	Door 01	Failed	Access De	Undefini
	Person/Visitor	erson No			No Mask				2021-07-2	Door 01	Failed	Access De	Undefine
	All Person	erson No			No Mask				2021-07-2	Door 01	Failed	Access De	Undefine
	Visitor Search In	erson No			No Mask				2021-07-2	Door 01	Failed	Access De	Undefine
	Select Persons	1.61	2010653090		No Mask	18446744	Person	root	2021-07-2	Door 01	Authorized	Access Gr	Undefine
	Fuzzy Matching Person Name Fuzzy Matching	erson No			Unknown	2079148729			2021-07-1	Door 02	Failed	Anti-Passb	Undefine
	Person Name Huzzy Matching	erson No			Unknown	2079148729			2021-07-1	Door 01	Failed	Anti-Passb.	Undefini
	Search	100	~										

4 FAQ

4.1 How to check whether the needed ports are open?

For TCP and HTTP ports, you can test using the command telnet+public IP address+port No. in CMD.

As shown in the figure below, the result indicates that the port is open.

C:\Users\chenhan6>telnet 54.179.64.71 80
Telnet 54.179.64.71

For UDP ports, you can test using the port testing tool Socket Tool.

4.2 Why applying face pictures to access control devices failed?

- 1) Version 2.0 and Earlier
 - a. Check whether the pStor storage is configured.
 - b. Check whether the port configured in <u>1.4 (Optional) pStor Network</u> for saving pictures in pStor has been mapped to the public network.
 - c. Check whether the authorization for saving pictures in pStor is enabled.
- 2) Version 2.1
 - a. If the pStor storage is configured, the troubleshooting steps are the same as those in 1).
 - b. If the local picture storage is configured, you need to check whether the following port of the HikCentral Professional server is open.

6123 HTTP Used for picture storage of ISUP devices.

4.3 Why the platform cannot receive events uploaded by access control devices or get the door status?

Check whether the following ports of the HikCentral Professional server are open.

7332	ТСР	Used for receiving alarms from ISUP devices.
7334	UDP	Used for receiving alarms from ISUP devices.

4.4 Why starting live view or playback of cameras failed?

7661	ТСР	Used for getting the stream from ISUP devices via Streaming
		Server.
554	RTSP	Used for getting the stream for live view (real-time streaming
		port).
559	WebSocket	Used for getting the stream for Google Chrome, Firefox, or Safari.
10000	ТСР	Used for getting the stream for playback (video file streaming
		port).
16000	ТСР	Used for getting the stream from ISUP devices via the plugin.

Appendix Feature List

Appendix A. Feature List of Cameras Supporting ISUP 5.0

Module	Sub-Module	Features	ISUP 5.0
		Adding devices	√
		Domain name (platform) registration	V
		Remote configuration via web browser	
		(the network is disconnected between	
		the Control Client and the device)	V
		Firmware upgrading	√
		Getting capability sets of various	
		cameras	V
		Encoding device online/offline	٧
		Network camera online/offline	٧
		Video loss	V
	Device	Channel communication exception.	√
	Management	Channel recording exception	V
		Device log search	V
			Only supports copying
			back data from network
		ANR (Automatic Network	cameras to NVRs, but to
		Replenishment)	the central storage is not
			supported.
		VQD (Video Quality Diagnosis)	×
\/idee		Resource tree thumbnail	×
Video		Getting configured PTZ presets of	
		devices	×
		Recording schedule of main	
		stream/sub-stream	V
			√ (Only supported by
		Video copy-back schedule	pStor and CVR)
			$\mathbf v$ (Not supported by
	Recording	Event-based recording schedule	center storage)
	Recording		$\mathbf v$ (Not supported by
		Command-based recording schedule	center storage)
		Recording schedule of local dual-	
		stream	٧
		Manual recording (manual/event	
		linkage)	٧
		Live view of main stream/sub-steam	√
		Live view of channel-zero	√
		Switching stream (main stream, sub-	
	Live View	stream, etc.)	√
		Audio control	√
		Capture	v
		Stream encryption	V

	Two-way audio	v
	Alarm output control	√
	Displaying live view on video wall	√
	Digital zoom	√
	Fisheye expansion	V
	PTZ control (direction and rotation)	V
	Wiper control/batch wiper control	√
	3D positioning	×
	Getting presets	×
	Smooth stream	×
	POS live view	×
	ATM live view	×
	Main stream playback	V
	Sub-stream playback	V
	Switching stream (main stream, sub-	
	stream, etc.)	V
	Audio control	V
	Capture	V
	Video clipping/downloading	V
	Tagging video	√
	Digital zoom	V
	Fisheye expansion	V
Basic Playback	Playback in DST mode	V
	Pausing and resuming recording	V
	Channel-zero	V
	Displaying playback on video wall	V
	Encrypted stream playback	√
	Video locking	×
	Smooth stream playback	×
	Transcoding playback	×
	Thumbnail playback	×
	Frame-extracting playback	×
	VCA search	V
	Tag search	V
	Exporting videos	V
Search and	POS search	×
Exporting	ATM search	×
	NVR bandwidth limit of downloading	
	videos	×
	Adding device	× √
		1 -
		V
Solar Camera	Remote configuration via web browser Wake up	V V

		Playback	V
		Two-way audio	V
		Alarm output control	V
	Face Picture	Face picture group/list management	
	Management	and applying	V
		Viewing captured face pictures in real	
		time	V
	Live View	Face attribute	V
		Human body attribute	V
		Viewing face pictures by group	V
	DeepinMind	Searching by picture	V
	Series NVR	Search	V
		Age group	V
		Gender	V
		Wear glasses	V
	Face Attribute	Wear a mask	V
		Wear glasses	V
		Wear a mask	V
		Gender	V
Intelligent	Human Body Attribute	Top color	V
Application		With backpack or not	V
		Riding	V
	Person Search	Searching in face picture group	V
		Person information search (ID/name)	V
		Searching by picture	V
		Searching captured picture	V
		Face attribute report-age group	V
		Face attribute report-gender	√
	Queue	Queue-report of waiting time in queue	V
	Management		
	Camera	Queue-report of person waiting time	V
	Fisheve	Heat map	×
	Fisheye	Path analysis	×
		Face detection	٧
	Alarm	Face capture	√
		Frequently appeared person	√
	List		
	Management	Vehicle list management	\checkmark
		License plate number	√
Vehicle	Passing	Captured vehicle picture	√
	Vehicle Event	Passing vehicle event details	√
	Liconso Plata	License plate number	√
	License Plate	Country/Region	V

	1	Vehicle owner	v
		Vehicle model	V
		List	V
		Custom information	V
		Brand	V
	Vehicle	Color	V
	Attribute	Driving direction	V
	Report	Passing vehicle report	V
		Real-time people counting OSD	
		(enter/exit)	V
	Real-Time	Customer traffic limit	V
	People	People counting deduplication OSD	V
	Counting	People amount correction	V
		Regularly clearing all	V
People		Real-time people counting overload	
Counting		pre-alarm	v
	Alarm	Real-time people counting overload	
		alarm	V
	Historical	ANR of people counting data	V
	People	People counting deduplication	V
	Counting		
	Deduplication	Historical people counting (enter/exit)	V
		Alarm linked live view/playback	√
	Basic Features	Uploading alarms with pictures	√
		Event/Alarm linked capture	V
		HDD full	√
		HDD error	√
		Illegal access	V
		Hot spare monitoring station exception	V
		Recording exception	V
		Logical disk exception in array	V
		No video signal	V
Alarm	Exception	Video quality exception	V
	Alarm	High temperature exception detected	
		by SHM	V
		Low temperature exception detected	
		by SHM	V
		HDD shock exception detected by SHM	V
		Bad sector exception detected by SHM	V
		Severe failure exception detected by	
		SHM	v
		IO alarm	√
	Normal Alarm	Motion detection	√

	Video loss	V
	Video tampering alarm	V
	Face detection	V
	Face capture	V
	Defocus detection	V
	Audio input exception	٧
	Scene change detection	V
	pir alarm	V
	People counting alarm	V
	Heat map alarm	V
	Vehicle detection/license plate	
	detection	V
	Vehicle blocklist detection	V
	Vehicle allowlist detection	V
	Intrusion	V
	Line crossing detection	V
	Region entrance	V
	Region exiting	V
Behavior	Loitering detection	V
Analysis Alarm	People gathering	V
	Fast moving	٧
	Parking detection	V
	Unattended baggage	V
	Object removal	V
	Temperature measurement	V
Thermal	Temperature measurement pre-alarm	V
Alarm	Fire source detection	V
	Ship detection	V
	Face picture comparison	V
	Face picture comparison failed	V
	People density over threshold	V
New Service	Frequently appeared person detection	V
Alarm	Hard hat detection	V
	Queuing-up time over threshold	V
	Queue length over threshold	V
	Human body detection	V

Module	Sub-Module	Features	ISUP 5.0
		Adding devices	√
		Domain name (platform) registration	V
		Remote configuration via web browser	
		(the network is disconnected between	
		the Control Client and the device)	V
		Firmware upgrading	V
		Getting capability sets of various	
		cameras	V
		Encoding device online/offline	V
		Network camera online/offline	V
		Video loss	V
	Device	Channel communication exception.	V
	Management	Channel recording exception	V
		Device log search	V
			Only supported by
			people counting cameras
			and NVRs and not
		ANR (Automatic Network	supported by ANPR
		Replenishment)	cameras
		VQD (Video Quality Diagnosis)	×
N		Resource tree thumbnail	×
Video		Getting configured PTZ presets of	
		devices	×
		Recording schedule of main	
		stream/sub-stream	V
			√ (Only supported by
		Video copy-back schedule	pStor and CVR)
			$\mathbf v$ (Not supported by
	Recording	Event-based recording schedule	center storage)
	Recording		$\mathbf v$ (Not supported by
		Command-based recording schedule	center storage)
		Recording schedule of local dual-	
		stream	V
		Manual recording (manual/event	
		linkage)	V
		Live view of main stream/sub-steam	v
		Live view of channel-zero	√
		Switching stream (main stream, sub-	
	Live View	stream, etc.)	v
		Audio control	V
		Capture	V
		Stream encryption	V

	Two-way audio	V
	Alarm output control	V
	Displaying live view on video wall	√
	Digital zoom	V
	Fisheye expansion	V
	PTZ control (direction and rotation)	<u>۷</u>
	Wiper control/batch wiper control	<u>۷</u>
	3D positioning	×
	Getting presets	×
	Smooth stream	×
	POS live view	×
	ATM live view	×
	Main stream playback	V
	Sub-stream playback	V
	Switching stream (main stream, sub-	
	stream, etc.)	v
	Audio control	V
	Capture	V
	Video clipping/downloading	V
	Tagging video	V
	Digital zoom	V
	Fisheye expansion	V
Basic Playback	Playback in DST mode	V
	Pausing and resuming recording	V
	Channel-zero	V
	Displaying playback on video wall	V
	Encrypted stream playback	<u>۷</u>
	Video locking	×
	Smooth stream playback	×
	Transcoding playback	×
	Thumbnail playback	×
	Frame-extracting playback	×
	VCA search	√
	Tag search	V
	Exporting videos	V
Search and	POS search	×
Exporting	ATM search	×
	NVR bandwidth limit of downloading	
	videos	×
	Adding device	V
		V
	Remote configuration via web browser	V
Solar Camera	Remote configuration via web browser Wake up	V

		Playback	V
		Two-way audio	V
		Alarm output control	V
	Face Picture	Face picture group/list management	
	Management	and applying	V
		Viewing captured face pictures in real	
		time	V
	Live View	Face attribute	V
		Human body attribute	V
		Viewing face pictures by group	V
	DeepinMind	Searching by picture	V
	Series NVR	Search	V
		Age group	V
		Gender	V
		Wear glasses	V
	Face Attribute	Wear a mask	V
		Wear glasses	V
		Wear a mask	V
		Gender	V
Intelligent	Human Body Attribute	Top color	V
Application		With backpack or not	V
		Riding	V
	Person Search	Searching in face picture group	V
		Person information search (ID/name)	V
		Searching by picture	V
		Searching captured picture	V
		Face attribute report-age group	V
		Face attribute report-gender	V
	Queue	Queue-report of waiting time in queue	V
	Management		
	Camera	Queue-report of person waiting time	V
	Fisheye	Heat map	×
		Path analysis	×
		Face detection	V
	Alarm	Face capture	V
		Frequently appeared person	V
	List		
	Management	Vehicle list management	v
	Passing	License plate number	V
Vehicle	Vehicle Event	Captured vehicle picture	V
		Passing vehicle event details	V
	License Plate	License plate number	V
		Country/Region	V

		Vehicle owner	V
		Vehicle model	V
		List	V
		Custom information	V
		Brand	V
	Vehicle	Color	V
	Attribute	Driving direction	V
	Report	Passing vehicle report	V
		Real-time people counting OSD	
		(enter/exit)	V
	Real-Time	Customer traffic limit	V
	People	People counting deduplication OSD	V
	Counting	People amount correction	V
		Regularly clearing all	V
People		Real-time people counting overload	
Counting		pre-alarm	V
	Alarm	Real-time people counting overload	
		alarm	V
	Historical	ANR of people counting data	V
	People	People counting deduplication	V
	Counting		
	Deduplication	Historical people counting (enter/exit)	v
		Alarm linked live view/playback	√
	Basic Features	Uploading alarms with pictures	√
		Event/Alarm linked capture	√
		HDD full	√
		HDD error	√
		Illegal access	√
		Hot spare monitoring station exception	√
		Recording exception	√
		Logical disk exception in array	√
		No video signal	√
Alarm	Exception	Video quality exception	√
	Alarm	High temperature exception detected	
		by SHM	V
		Low temperature exception detected	
		by SHM	v
		HDD shock exception detected by SHM	V
		Bad sector exception detected by SHM	V
		Severe failure exception detected by	
		SHM	v
		IO alarm	V
	Normal Alarm	Motion detection	√

	Video loss	V
	Video tampering alarm	V
	Face detection	V
	Face capture	V
	Defocus detection	V
	Audio input exception	V
	Scene change detection	V
	pir alarm	V
	People counting alarm	V
	Heat map alarm	V
	Vehicle detection/license plate	
	detection	V
	Vehicle blocklist detection	V
	Vehicle allowlist detection	V
	Intrusion	V
	Line crossing detection	V
	Region entrance	V
	Region exiting	V
Behavior	Loitering detection	V
Analysis Alarm	People gathering	V
	Fast moving	V
	Parking detection	V
	Unattended baggage	V
	Object removal	V
	Temperature measurement	V
Thermal	Temperature measurement pre-alarm	V
Alarm	Fire source detection	V
	Ship detection	V
	Face picture comparison	V
	Face picture comparison failed	V
	People density over threshold	V
New Service	Frequently appeared person detection	V
Alarm	Hard hat detection	V
	Queuing-up time over threshold	V
	Queue length over threshold	V
	Human body detection	V

Appendix B. Feature List of Access Control Devices

Supporting ISUP 5.0

	Module	Sub-Module	V2.1
	Device Access	Access Control Devices	 V Camera channels of MinMoe series facial recognition terminals are not imported.
		Elevator Control Devices	×
		Video Intercom Devices	×
		Permission Applying (Person, Card, Fingerprint, and Face Pictures)	Applying face pictures depends on pStor.
		Collecting Card No. by Remote Devices	v
		Collecting Fingerprints by Remote Devices	٧
	Permission	Collecting Face Pictures By Remote Devices	V
	Management	Getting Persons from Remote Devices	V
		Getting Fingerprints from Remote Devices	V
		Getting Face Pictures from Remote Devices	V
Access Control		Getting the Device's All Parameters (Specifications of the Device)	v
		Remote Door Control	٧
		Permission Schedule Template Configuration	v
		Door Schedule Configuration (Remain Open/Closed)	V
	Access Control	Reader Authentication Mode Configuration	v
	Applications	Area Anti-Passback Configuration (Single Device and Across Devices)	v
		Route Anti-Passback Configuration (Single Device and Across Devices)	×

I		Multi-Door Interlocking	
		Configuration (Single Device)	V
		Multi-Factor Authentication	
		(Single Device)	V
		First Person In Rule (Single	V
		Device)	
		Authentication Code (Old	×
		Solution)	
		Authentication via PIN Code	×
		(New Solution)	
		Alarm Output Control	V
		Zone Arming And Disarming	√
		Getting and Setting Door	
		Parameters: Door Name, Door	V
		Open Duration, Password	
		Settings, etc.	
		Getting and Setting Reader	
		Parameters: Tampering, Failed	
		Attempts Alarm, Fingerprint	V
		Sensitivity, Face Parameter	
		Configuration, etc.	
		Getting and Setting Device Time	
Para	ameter	Parameters: NTP Time	V
Confi	guration	Synchronization and DST	v
		(Daylight Saving Time).	
		Getting and Setting Capture	V
		Parameters	V
		Getting and Setting Parameters	
		of M1 Card Encryption	V
		Verification	
		Getting and Setting Custom	-1
		Wiegand Parameters	V
		Getting and Setting NFC	,
		Parameters	V
		Getting and Setting Card	
		Swiping Parameters	V
		Getting Lost Events	
		(Automatically by Schedule and	V
		Manually)	
Acces	s Control	Device Log Search	V
	vents	Receiving Real-Time Events	
		from Devices	V
		ANR of Device Offline Events	V
		Receiving Events with Pictures	V
			l -

		Event Card Linkage (Single Device)	٧
		Event, Card No., and Employee	v
		No. Linkage (Cross-Device	
		Supported)	
		Getting Access Control Events	×
		from Remote Devices	
	Other	Getting Status	V
		Getting Capability Set	V
		Two-Way Audio	×

