NVR-ND-645

IC Secure Video Management System



System Specifications	
Operating System	Windows 11
Main Processor	Intel Ultra 5
RAM	16GB (2x8GB) DDR5 5600
Graphics Card	Nvidia Dedicated Graphics
Network interface	1 (10/100/1000 Mbps Ethernet port, RJ-45)
Video	
Max IP Channels	64 Channels
Video Compression	MJPEG, MPEG4, H.264, H.265
Record Mode	Continuous, customized schedule, event
Record Interval	Pre-event recording time: 3 ~ 15 (sec.); Post-event recording time: 10 ~ 60 (sec.)
Recording File Format	3GP

Audio		
Audio Compression		G.711, G.726, AMR, MPEG-2 AAC-LC
Two-way Talk		Supported
Live View		
Display Layout	Equal	1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8
	Panorama	1P+6, 2P, 2P+3, 3P
	Focused	1+12, 1+16, 1+3, 1+5, 1+7, 1+9, 2+8
	Vertical	1V+6, 2V+2, 2V+3, 3V, 3V+4, 4V, 4V+4, 5V
	Custom	Supported
Camera Tour		Supported
Fisheye Display Mode		1O, 1P, 1R, 1O3R, 4R, 2P, 4R Pro, 1O8R
3rd Party Fisheye Dewarping		Supported
Multi-Sensor Display Mode		1P, 1R, 1P2R, 1P3R
Display Watermark		Supported
Playback		
Playback Source		Local Server, Edge Storage
Playback Control		1/64X ~ 64X speed control, next/previous frame, pause, play, rewind, stop
Playback Timeline		Event timeline interval display, scale adjustment
Display Watermark		Supported

O=Fisheye, P=Panorama, Pro=Linked View, R=Rectangular Zone, V=Vertical

Search		
Bookmark Search		Supported
Event Search		Supported
Thumbnail Search		Supported
Log Search		Supported
Data Magnet Search		Supported
Alarm Search		Supported
Smart Search	Smart Search I [1]	Pixel change based detection, within a designated area.
	Smart Search II [2]	Search based on Video Content Analytics.
Deep Search [2]	Object Search	People, Vehicle
	Attribute Search	People: gender, age, clothing color, accessories Vehicle: license plate search, type, color
	Scene Search	Line crossing, intrusion, loitering
Backup & Export		
External Network Storage		NAS (SMB/CIFS), iSCSI
Backup Settings		Select cameras, schedule, upload limit
Exported Snapshot Format		JPEG, PNG
Exported Video Format		3GP, AVI
Storage		
M.2 Support		3 2230/2280 slots (1 OS Drive, 512GB M.2 NVMe SSD)
3.5” bay support		3 Internal

1. Supported on IC Realtime non-NDAA cameras and ONVIF compliant 3rd party cameras.
2. Supported on IC Realtime NDAA Cameras

Alarm Management		
Maximum Alarm Period		30 (sec.)
Schedule Type		Continuous, Scheduled
Camera Event Alarm Trigger	General	Audio detection, camera DI/DO, camera disconnected, IR (Infrared), motion detection, PIR (Passive infrared), recording error, SD card life expectancy detection, shock detection, stop recording, tampering detection, temperature, video loss (Video server only)
	Video Content Analytics	Intrusion detection, loitering detection, line crossing detection, unattended object detection, missing object detection, face detection, crowd detection, running detection, parking violation detection, restricted zone detection, smart tracking, zone detection
	Thermal Camera Event [3]	Intrusion, Multi-loitering, Fire spot detection, Smoker detection, Smoke and flame detection, Temperature threshold, Temperature difference, Temperature rise, Temperature section
System Event Alarm Trigger		Storage failure, storage full, network disconnected, fan status, Number of remaining people [4]
External Device Event Trigger		Data Magnet, I/O box DI/DO, TCP message, virtual trigger
Alarm Action		Add bookmark, go to camera presets, go to e-map, play audio file with network audio device, set DO status, start to record video, send email with snapshot, send HTTP requests (GET/POST method), send live streaming, send mobile notification, sound the alarm
Alarm Result Display		By list, by thumbnail
Alarm Search Filter		Time, trigger type, status, name, trigger source

3. Only supported by IC Realtime NDAA Thermal Cameras.
4. Requires appropriate configuration of counting camera and Counting Report.

Alarm Management (Cont'd)		
Alarm Status		New, in progress, false alarm, close
Alarm Result Export		3GP, CVS
Additional Time for Exported Alarm Clip		Pre-triggered: 1 ~ 10 (min.); Post-triggered: 1~60 (min.)
PTZ		
Supported Zoom Type		Digital zoom, optical zoom
PTZ Control Mode	Pan and Tilt Control	Mouse drag and move, click to move, joystick
	Zoom Control	Area zoom, button, mouse wheels, joystick
PTZ Operation		Home, preset, patrol, auto pan, auto focus, manual focus, focus speed, zoom speed, tracking
Tracking Mode		Auto tracking, Smart Tracking Advanced
E-Map		
Supported Image Format		BMP, GIF, JPG, PNG, SVG
Supported Items		Camera, Camera DI/DO, regional map
Map Control		Add and remove items (Camera, DI/DO, regional map), click icon for live view/ playback/ PTZ control, FOV direction adjustment, icon/ FOV color, icon/ FOV type
Alarm Notification		Video prompt
User Management		
Max User Accounts Per Server		4,096
User Account Management		Basic user account, Windows Active Directory user account
User Role / User Permissions		Admin, Custom / Accessible devices, configuration, operation

System Monitoring		
Monitoring Dashboard	Server Status	CPU, memory, network, storage
	System Error List	Supported
Diagnostic Service		Supported
Log Management		Supported
Camera Integration		
Video Source		Proprietary, ONVIF, RTSP
IC Realtime NDAA Cameras	Basic Settings	Camera name, streaming protocol (TCP,UDP,HTTP,HTTPS)
	Video Settings	Video codec, resolution, maximum frame rate, intra frame period, video quality, target bit rate, policy (Frame rate priority, image quality priority), Smart Stream
	Image Settings	Color mode, mount type (Fisheye lens only), power line frequency, timestamp, video title, video orientation
ONVIF Cameras	Profile	Profile S, T
	Video	H.265, H.264, MPEG4, MJPEG
	Audio Format	G.711, G.726, MPEG-2 AAC-LC
	Audio Capability	One-way audio
	Image	Brightness, Color Saturation, Contrast, Sharpness
	Network	DHCP/Fixed IP
	Control	PTZ control (Up, down, left, right, zoom in/out)
	Discovery	Supported
	Event	Motion, camera DI/DO, video lost (Video server only)