

Instek Digital™ NR5000-4U series is designed focussed on large project, such as cities, airports and public transportation. These environments require large storage space and fast access to important video data. Instek Digital™ NVRs deliver flexible and powerful performance to security professionals for distributed enterprise architectures and centralized management applications.

It can record video-data up to 128 channels simultaneously on 24 hard-disc drives. Also optional RAID model is available, which ensures maximum security. The hard-disc drive bays for the RAID models are hot-swappable, which makes it easy to change hard-disc drives without turning-off the system. This ensures accessibility of critical video-data 24/7 without any hassle. Furthermore the hard-disc drive bays are protected for unauthorized access by a centralized front panel and the individual bays are also lockable for additional safeguard.

The NR5000-4U series is available with dual power supplies, RAID enhancement and three hot-swappable system fans, providing customers stability and security.

The pre-installed NVR software and customized Linux operating system, provides overall system availability by reducing system downtime caused by power supply and hard-disc drive failure. Furthermore it has been specially configured to allocate more resources for demanding tasks for viewing and recording of high resolution video. Instek Digital™ NVR software will also save a lot of cost and time, since setting up the NVR will be reduced to a minimum. To ensure future project expansion, Instek Digital™ NVR's are easily scalable. Just purchase the amount of channels that are required.

To enhance security, Instek Digital™ NVR features industrial standard 'Modbus-TCP' DIO, RSA-2048bit encryption/decryption support for video recording/transmission and the support for HTTPS(TLS/SSL) connection for commands exchange between the NVR and Instek Digital™ VMS Command Center.



Key Features

- Durable hardware design
- Stable and secure application on Linux OS
- Supports up to 128 camera channels
- Supports RAID 5 and RAID 6 for video-data protection
- 24 hotswappable hard-disc drive bays
- Dual power supply (optional)
- Watchdog for guaranteed high availability
- SDK API ready for integration with POS, Access Control and Building Automation systems
- RSA-2048bit encryption/decryption for video recording/transmission
- Viewing clients: Command Center (VMS), CCMobile (mobile app) and NVR Web Portal
- Alarm history and user activity log for six months
- Comprehensive graphical illustration for quick search of recorded video
- Playback by date, time, camera and alarm instance
- PTZ control with optional remote I/O module
- Industrial standard 'Modbus-TCP' DIO module
- Digital signature with watermark protection
- HTTPS(TLS/SSL) connection supported between camera and NVR for secured video-stream
- NVR embedded QoS (Quality of Service for Surveillance) for bandwidth optimization

INSTEK DIGITAL

Instek Digital is a video surveillance business unit of Good Will Instrument Co., Ltd. and focus on the development of high quality digital surveillance solutions. The company inherited over 20-years of surveillance experience. Instek Digital has the luxury of a strong financial background supported by Good Will Instrument Co., Ltd. – has over 40-years of electronics R&D and manufacturing experience. And Good Will Instrument Co., Ltd. is also listed on the Taiwan Stock Exchange.

Instek Digital offers a wide array of video surveillance software and hardware – under the brand of Instek Digital. The core design are based on the following principles; "User-Friendliness", "Scalability" and "Reliability". Instek Digital's solutions are based on an open platform – creating seamless third party integration. With this concept Instek Digital has created a business model that can meet every aspect in today's surveillance demand. The results speak for themselves – based on small and large projects that we have deployed around the world.

System	Camera channels	128		32 / 48 / 64	
	Operating system	X86 Linux			
	Network throughput	up to 800 Mbps			
	Recording throughput	up to 64 MB/s			
	Network interface	4 gigabit Ethernet		2 gigabit Ethernet ⁽¹⁾	
	Hard-Disc Drive trays	24 swappable			
	RAID	RAID 0, 1, 5, 6, 10, 50			
	External storage	archive server, SAS DAS + JBOD / IP SAN + JBOD / NAS supporting iSCSI target			
	Supported codecs	H.265 / H.264 / MPEG4 / MJPEG			
	Audio input / output	1 / 1			
	Serial port	3 x RS-232 + 1 x RS-485			
	Video outputs	1 x VGA / 1 x DVI-D			
	USB	2 x 2.0 4 x 3.0			
	Video server and camera support	3S, ACTI, Appro, Arecont Vision, Axis, Basler, Bosch, Brickcom, D-Max, Dynacolor, Etrovision, Hikvision Hisharp, Hi-tron, Hunt, ITX, IQinvision, JVC, Matricam, Messoa, Mobotix, Panasonic, Pelco, Pixord, Probe, Samsung, Sanyo, Secubest, Sony, Uniview, Vivotek			
	Serial input / output module	max. 128 inputs / 64 outputs using remote I/O modules ID-IO2000-1600 (16 DI), ID-IO2000-0016 (16 DO), ID-IO2000-0808 (8 DI / 8 DO) (optional)			
	IP input / output module	ID-IO3000-1600 (16 ch. DI) / ID-IO3000-0807 (8 ch. DI / 7 ch. DO) / ID-IO3000-0016			
	RS232 / 485 converter	I- CT2000- 232 T485 (optional)			
	ACS	Cardex, CEM, Kantech			
	Security	RSA2048 bit encryption			
	Bandwidth optimization	Quality of Service for Surveillance (QoSS)			
	Environmental	Operating temperature	0 ~ 40°C		
		Humidity	max. 95%, non-condensing		
	Electrical	Power input	AC 100V ~ 240V		
		Dual power supply	optional (2 x 875W)		
		PSU	500W		
	Mechanical	Form factor	4U rack-mount		
Dimensions w / wo box (WxDxH mm)		640 x 860 x 365 / 483 x 625 x 177			
Weight w / wo box (kg)		29.4 / 22.0 dual power 32.2 / 24.8			
Rail slider		included			
Features	Searching method	date / time / camera / alarm list / smart search			
	Image control	contrast / brightness / saturation / hue			
	Recording modes	continuous / scheduled / motion detection / event triggered			
	Pre / post recording	1 ~ 60 seconds			
	ONVIF	2.0 and Profile S			
	Product certification	CE, FCC			

a) The actual video display performance may vary according to type of camera(s) and lighting condition.
 b) Product specifications and availability are subject to change without notice.
 c) Instek Digital is a registered trademark of Good Will Instrument Co., Ltd.

1) Expandable to 4 gigabit Ethernet

Turnkey Models:

HR-NR54X8-4U
HR-NR5464-4U
HR-NR5448-4U
HR-NR5432-4U

Details:

128 camera channels	24 removable HDD bays
64 camera channels	24 removable HDD bays
48 camera channels	24 removable HDD bays
32 camera channels	24 removable HDD bays

Channel Upgrade License:

HR-NR5064-SW
HR-NR5032-SW
HR-NR5016-SW
HR-NR5008-SW
HR-NR5004-SW
HR-NR5002-SW
HR-NR5001-SW

64 camera channels
32 camera channels
16 camera channels
8 camera channels
4 camera channels
2 camera channels
1 camera channels

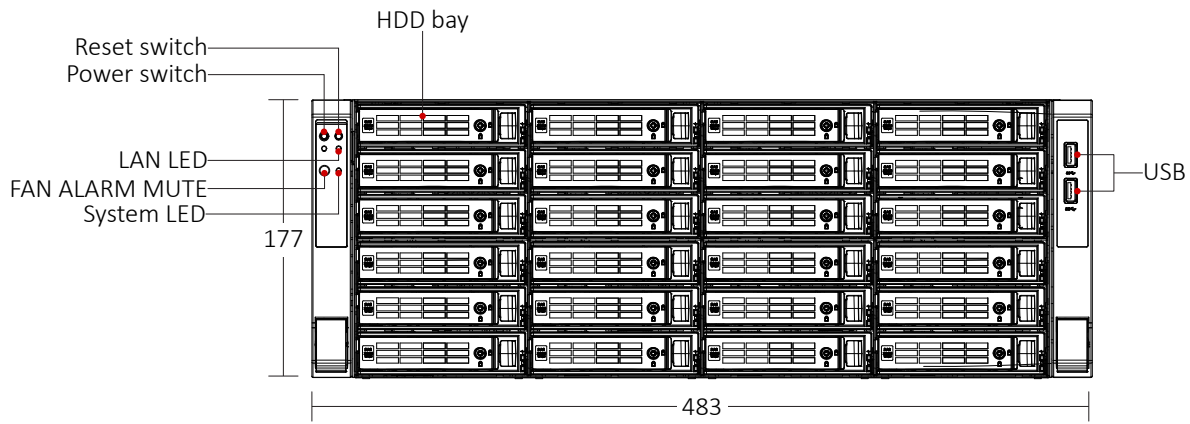
Note: max. channel number is 128.

NVR Failover:

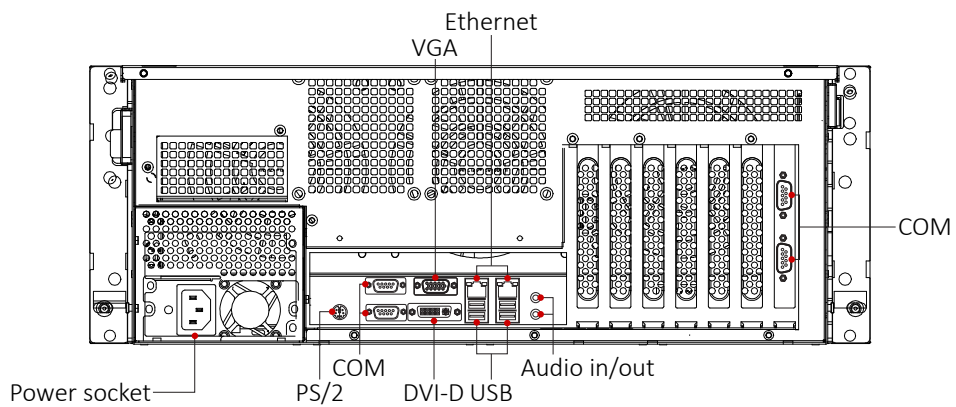
HR-FO5064-SW
HR-FO5032-SW
HR-FO5016-SW
HR-FO5008-SW
HR-FO5004-SW
HR-FO5002-SW
HR-FO5001-SW

64 camera channels
32 camera channels
16 camera channels
8 camera channels
4 camera channels
2 camera channels
1 camera channels

Front View ID-NR5000-4U



Rear View ID-NR5000-4U



Rear View ID-NR5000-4U (dual power)

