

The HR-NR5000-2U series NVRs are designed for the dynamic needs of the emergent digital video surveillance market. With high image resolution, seamlessly integrated mass storage, and alarm recording, Instek Digital™ NVRs deliver flexible and powerful performance to security professionals for distributed enterprise architectures and centralized management applications.

Instek Digital™ NVRs are a complete network based video recording solution which supports various video compression formats of IP cameras (H.265, H.264, MPEG-4, and MJPEG), and image resolutions, from CIF/ D1, VGA, to multiple megapixels. Integrating with megapixel IP cameras, Instek Digital™ provides a breakthrough platform to view high resolution video from your surveillance system. Simply plug into the network infrastructure and Instek Digital™ NVRs can display the video image from any IP camera source through the Ethernet. The IP cameras can be installed without cumbersome cabling; meaning that setting up a new IP-based security system has never been easier or more cost effective.

Based on X86 Linux OS, Instek Digital™ combined with dual power supplies and RAID-5 and RAID-6 enhancement, provides customers a stable and secure system. X86 Linux OS increases overall system availability by reducing system downtime caused by power supply and hard drive failure. It has the capability to keep a complete six month audit trail database of user activities. Instek Digital™ NVRs allow different recording settings- continuous, motion detected, event triggered, and scheduled recording. This increases the data storage utilization giving more space to store video and saving money.

Instek Digital™ NVRs provide the most intelligent and comprehensive video search tools. Users can retrieve the desired video images with a few simple clicks. Its graphical display illustrates the recorded video history, yet with quick indicators for alarm instances (video loss, motion detection, real-time video analytics, sensor or digital inputs, even POS and Access Control System events), and manual recording instances (special events triggered by security personnel onsite).



Key Features

- Synchronized audio/video recording and playback
- Stable and secure application on X86 Linux OS
- Support various video compression formats of IP-cameras (H.265, H.264, MPEG-4, and MJPEG)
- Support various image resolutions from CIF/ D1 / 720p / 1080p to multiple Megapixels
- Automatic time synchronization between all units in Instek Digital™ (NTP protocol)
- Variant recording modes continuous, motion detected, alarm, Intelligent Video detected, scheduled, manual and SDK API
- SDK API ready for integration with POS, Access Control and Building Automation systems
- Pre-alarm and post-alarm video recording bays
- Quadruple operations for camera live viewing, recording, playback and remote streaming
- Comprehensive graphical illustration for quick search of recorded video
- Playback by date, time, camera and alarm instance
- Dual watchdog for guaranteed high availability
- Remote viewing, access, and control via TCP/IP (LAN/WAN/Internet)
- Long term storage capacity up to 8 HDD bays
- RSA-2048bit encryption/decryption for video recording/transmission
- 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	Operating system	X86 Linux	
	Network throughput	up to 800 Mbps	
	Recording throughput	up to 64 MB/s	
	Network interface	2 gigabit Ethernet	
	Hard-Disc Drive trays	8 swappable	
	RAID	optional RAID 0, 1, 5, 6, 10, 50	
	External storage	archive server / JBOD ¹ / 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 RS485	
	Video outputs	1 x VGA	
	USB	6 x 2.0	
	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	
	Digital 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)	
	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. 90%, non-condensing
Electrical	Power input	AC 100V ~ 240V	
	Dual power supply	optional	
Mechanical	PSU	400W	
	Form factor	2U rack-mount	
	Dimensions w / wo box (WxDxH mm)	650 x 790 x 285 / 442 (485 incl. side rails) x 579 x 96	
Features	Weight w / wo box (kg)	20.8 / 12.5	
	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		

Turnkey Models:

Description:

Channel Upgrade License:

HR-NR5464-2U	64 camera channels	8 removable HDD bays
HR-NR5448-2U	48 camera channels	8 removable HDD bays
HR-NR5432-2U	32 camera channels	8 removable HDD bays
HR-NR5416-2U	16 camera channels	8 removable HDD bays

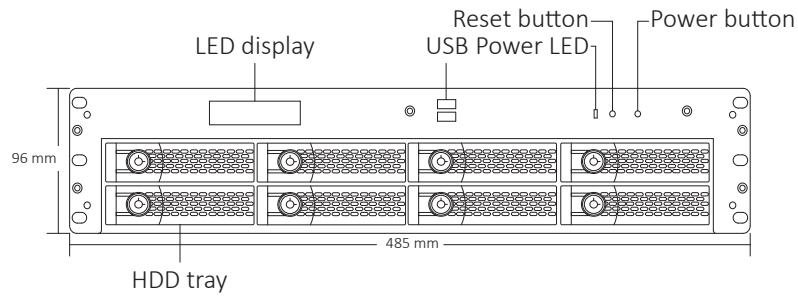
HR-NR5064-SW	64 camera channels
HR-NR5032-SW	32 camera channels
HR-NR5016-SW	16 camera channels
HR-NR5008-SW	8 camera channels
HR-NR5004-SW	4 camera channels
HR-NR5002-SW	2 camera channels
HR-NR5001-SW	1 camera channels

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.

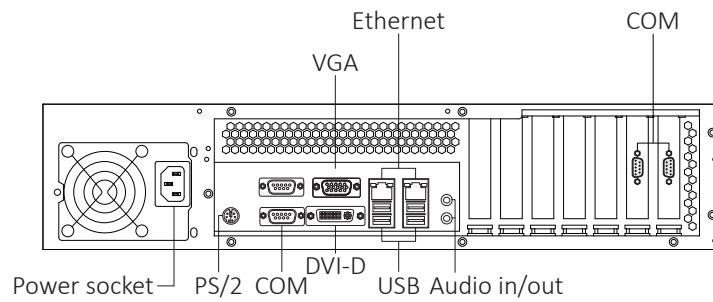
1) JBOD can only be connect in a RAID setup.

Note: max. channel number is 64.

Front View NR5000-2U



Rear View NR5000-2U



Rear View NR5000-2U | dual power supply

