The HR-NR3000-2U 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 cumber some cabling, meaning that setting up a new IP-based security system has never been easier or more cost effective.

Instek Digital™ NVRs combined with dual power supplies, provides customers a stable and secure system. The 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 NVR™ provides 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).
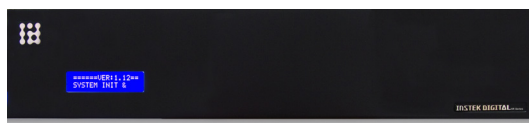
Key Features

- Durable hardware design
- Stable and secure application on Linux OS
- Four fixed hard-disc drive bays
- Optional dual power supply
- Dual watchdog for guaranteed high availability
- SDP API ready for integration with POS, Access Control and Building Automation systems
- Viewing clients: Command Center, nCCTV HD (TV-wall solution), CCMobile (mobile app) and CCWeb
- Alarm history and user activity log for six months
- Triple stream support
- Indoor positioning support
- HTTPS(TLS/SSL) connection supported between camera and NVR for secured video-stream
- NVR embedded QoSS (Quality of Service for Surveillance) for bandwidth optimization

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INSTEK DIGITAL

System	Operating system	X86 Linux
	Network throughput	up to 800 Mbps
	Recording throughput	up to 64 MB/s
	Network interface	1 gigabit Ethernet
	Hard-Disc Drive trays	4 fixed
	External storage	archive server / IP SAN + JBOD / NAS supporting iSCSI target
	Supported codecs	H.265 / H.264 / MPEG4 / MJPEG
	Audio input / output	1 / 1
	Serial port	1 x RS-232
	Video outputs	1 x HDMI / 1 x DVI-D
	USB	6
	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. 95%, non-condensing
Electrial	Power input	AC 100V ~ 240V
	Dual power supply	optional
	PSU	300W
Mechanical	Form factor	2U rack-mount
	Dimensions w / wo box (WxDxH mm)	535 x 570 x 245 / 445 x 402 x 88
	Weight w / wo box (kg)	12.2 / 8.6
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.

Turnkey Models:	Description:		Channel Upgrade License:	
HR-NR3832-2U	32 camera channels, 4 fixed HDD bays		HR-NR5016-SW	16 camera channels
HR-NR3816-2U	16 camera channels, 4 fixed HDD bays		HR-NR5008-SW	8 camera channels
			HR-NR5004-SW	4 camera channels
			HR-NR5002-SW	2 camera channels
			HR-NR5001-SW	1 camera channels

Note: max. channel number is 32.

Front View NR3000-2U series

88 mm

445 mm

LED display

Rear View NR3000-2U Series

Power button

Ethernet

Audio

USB 2.0

Power socket

DVI-D

HDMI

PS/2

USB 3.0

COM

USB 2.0
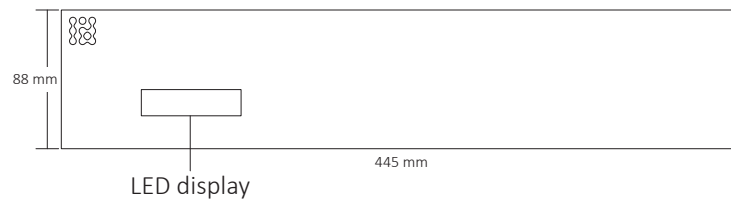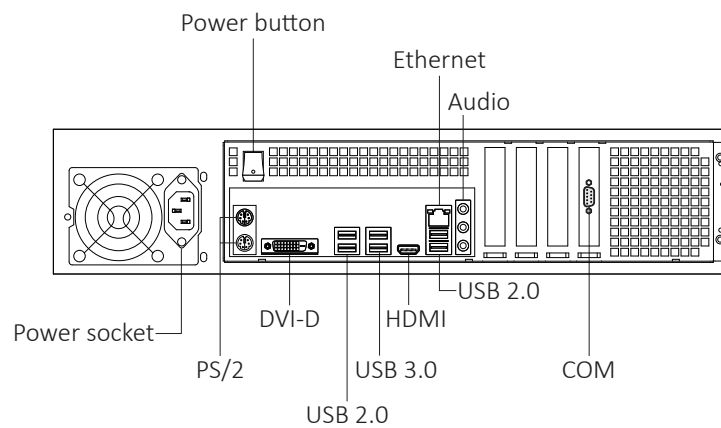
Rear View NR3000-2U Series | dual power supply

Power button

Ethernet

Audio

USB 2.0

Power socket

DVI-D

HDMI

PS/2

USB 3.0

COM

USB 2.0