

The HR-NR5000-3U 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.

Instek Digital™ NVRs combined with dual power supplies, RAID-5 and RAID-6 enhancement 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
- Supports up to 128 camera channels
- Supports RAID 5 and RAID 6 for video-data protection
- 12 hotswappable hard-disc drive bays
- Dual power supply (optional)
- Dual 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 | | 16 / 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 | 12 swappable | | | |
| | RAID | optional RAID 0, 1, 5, 6, 10, 50 | | | |
| | External storage | archive server / JBOD ² / 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 | 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 | | | |
| | 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 | | |
| | | PSU | 400W | | |
| | Mechanical | Form factor | 3U rack-mount | | |
| Dimensions w / wo box (WxDxH mm) | | 650 x 790 x 285 / 442 (485 incl. side rails) x 579 x 132 | | | |
| Weight w / wo box (kg) | | 22.2 / 15.3 | | | |
| 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.

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

Turnkey Models:**HR-NR54X8-3U****HR-NR5464-3U****HR-NR5448-3U****HR-NR5432-3U****HR-NR5416-3U****Details:**

128 camera channels | 12 removable HDD bays

64 camera channels | 12 removable HDD bays

48 camera channels | 12 removable HDD bays

32 camera channels | 12 removable HDD bays

16 camera channels | 12 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

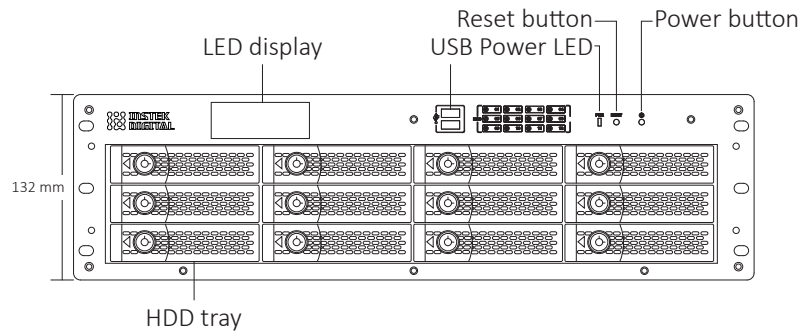
4 camera channels

2 camera channels

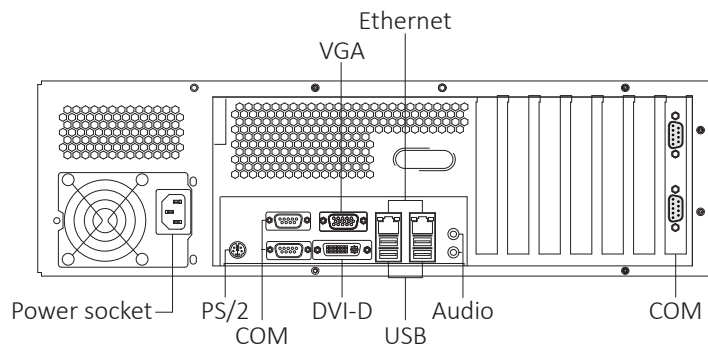
1 camera channels

Note: max. channel number is 128.

Front View ID-NR5400-3U



Rear View ID-NR5400-3U



Rear View ID-NR5400-3U | dual power supply

