

# IP Video Surveillance

## VN1664 Pro

### Network Video Recorder



## Overview

VIDEOTEKNIKA 1600 Pro Series is robust and reliable range of Network Video Recorders with Full HD 1080p local display capability and recording benchmark of up to 6 Megapixel and 2 Channel audio output through HDMI output. The VN1664 Pro ensures unlevelled video recording quality in multiple applications on an open platform in live and also in playback. VN1664 Pro has a standard availability of 16 Hard Disks bays allowing recording capacity of up to 96TB. Backup facility is available via the network ports through the VVMS and allows for local backups via USB.

## Supported Cameras

The NVR supports all Videoteknika IP Cameras and is fully compatible with our Videoteknika's VVMS Software. It functions on an open platform policy allowing for various 3rd party IP camera integration. Within the Videoteknika range various video encoders and video decoders are available to further more expand the flexibility for the system integrator and ensure total system synchronization. Each channel on-board the NVR allows for dual streaming with the mainstream supporting up to 6MP of recording resolution.

## Storage Features

The VN1664 Pro allows for individual channel recording allocation ensuring the right data capacity is assigned through the relative camera depending on its streaming resolution. Instant playback is also possible via the Videoteknika reverse instant playback capability which is unique to Videoteknika NVRs. Digital zooming while live or playback is standard with any high resolution recording camera.

## Supported Software

The NVR is supported by the Videoteknika VVMS-*Xpert*<sup>™</sup> VMS. The VVMS-*Xpert*<sup>™</sup> VMS is a modular Video Management Software dedicated for Videoteknika IP cameras expandable up to 1024 Channels per server. A 64 Ch version VVMS-*Advanced*<sup>™</sup> is supplied as a free bundled software with all Videoteknika IP Cameras. VVMS-*Mobile*<sup>™</sup> is also available on Iphone and Android applications. Videoteknika IP cameras are supported by various leading software development VMS partners.

## RAID Redundancy

The VN1664 Pro supports RAID 0 allowing for combined writing speed of multiple hard drives enabling enhanced read-write speed of IP CCTV footage. RAID 1 allowing for mirrored storage enabling 100% redundancy. RAID 5 allowing for parity striping which will allow a redundancy based on a backup on only 1 hard drive. within a group of hard drives. RAID 10 is a combination of RAID 1 & RAID 0 into 1 RAID system allowing for multiple RAID redundancy.

## Main Features

- Recording Quality up to 6MP
- 2-Way Audio
- Up to 64 Channels recording
- Supports RAID 0, RAID 1, RAID 5, RAID 10
- Up to 96 Terabytes of Hard Disk space (16 HDD Bays)
- 2 x RJ-45 Self Adaptive 10m/100m/1000m network interface
- H.264 video compression
- Dual Simultaneous Streaming
- Simultaneous HDMI, VGA & CVBS outputs
- HDMI & VGA (Full HD 1080p) output
- Local Data Export via USB / eSATA Disks
- Network Failover Support
- Dual Power Supply (Optional)
- Network backup export via Videoteknika VVMS software
- Multiple level users – Administrator / User 1 / User 2 (programmable)
- Alarm – Cause and effect programmable
- Privacy Masking
- Videoteknika – VVMS-*Advanced*<sup>™</sup> VMS software included
- Videoteknika – VVMS-*Mobile*<sup>™</sup> supported on App Store



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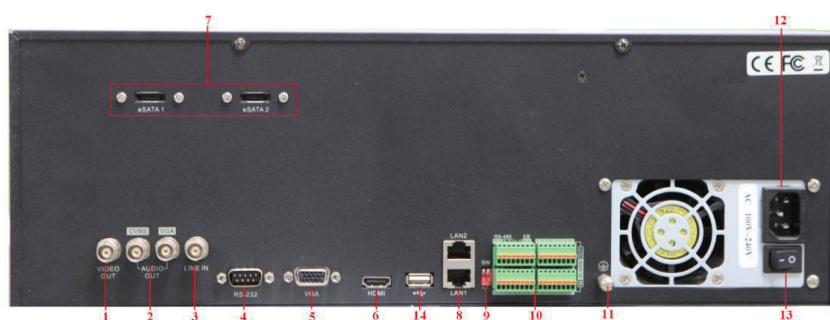


## Specifications

NVR Model	VN1664 Pro
<b>Features</b>	
IP Video Input	64-Channels
Two-way Audio	1-ch, BNC (2.0Vp-p, 1kΩ)
Recording Resolution	6MP / 5MP / 3MP / 1080P / UXGA 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
CVBS Output	1-ch, BNC (1.0Vp-p, 75 Ω) Resolution: 704 x 576 (PAL); 704 x 480 (NTSC)
HDMI Output	1-ch, resolution: 1920 x 1080P / 60Hz, 1920 x 1080P / 50Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
VGA Output	1-ch, resolution: 1920 x 1080P / 60Hz, 1600 x 1200 / 60Hz, 1280 x 1024 / 60Hz, 1280 x 720 / 60Hz, 1024 x 768 / 60Hz
Audio Output	2-ch, BNC (Linear, 600Ω)
Playback Resolution	6MP / 5MP / 3MP / 1080P / UXGA 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Synchronous Playback	16-Channels
SATA	16 SATA interfaces
eSATA	2 eSATA interface
Capacity	96 TB Total (each HDD x 6TB capacity)

NVR Model	VN1664 Pro
<b>Features (Continue)</b>	
Disk Arrays & Type	16 (RAID 0, RAID 1, RAID 5, RAID 10)
Incoming bandwidth	320 Mbps
Network Interface	2 RJ-45 10 / 100 / 1000 Mbps self-adaptive Ethernet interface
Serial Interface	1 RS-232, 1 RS-485 & 1 RS-485 keyboard
USB Interface	3, USB 2.0
Alarm In	16
Alarm Out	4
<b>Environmental</b>	
Working Temperature	-10°C ~ +55°C
Working Humidity	10% ~ 90%
<b>Electrical</b>	
Power Supply	100 ~ 240 VAC, 6.3 A, 50 ~ 60 Hz
Dual Power Supply	Yes (Optional)
Power Consumption	≤ 45W
<b>Physical</b>	
Dimensions (mm)	446 (W) x 497 (D) x 147 (H)
Chassis	19-inch rack-mounted 3U chassis
Weight	≤ 12.75 Kg (without HDD or DVD-R/W)
<b>Regulatory Certifications</b>	
	FCC, CE, C-TICK, UL

## Technical Diagram



### Rear Panel

1. Video Out
2. CVBS Audio Out, VGA Audio Out
3. Line In
4. RS-232 Serial Interface
5. VGA Interface
6. HDMI Interface
7. eSATA Interface

### Rear Panel (Continue)

8. LAN 1, LAN 2 Network Interface
9. Termination Switch
10. RS-485 Serial Interface, Keyboard Interface, Alarm In, Alarm Out
11. GND
12. 100~240VAC Power Input
13. Power Switch
14. USB Interface



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### Ordering Information

NVR Model	Network Video Recorder Details
VN1632 Pro	32-Ch, D1 to 6MP Recording Quality (Depending on Storage & Bandwith Requirements), Up to Max. 96TB of HDD space, Supports RAID 0, 1, 5,10, RJ-45 Network Interfaces, H.264, Dual Streaming, Network Failover Support, Simultaneous HDMI, VGA (Full HD 1080p) & CVBS outputs, Local & Network Backups, Dual Power Supply (Optional).
<b>VN1664 Pro</b>	64-Ch, D1 to 6MP Recording Quality (Depending on Storage & Bandwith Requirements), Up to Max. 96TB of HDD space, Supports RAID 0, 1, 5,10, RJ-45 Network Interfaces, H.264, Dual Streaming, Network Failover Support, Simultaneous HDMI, VGA (Full HD 1080p) & CVBS outputs, Local & Network Backups, Dual Power Supply (Optional).

### Recommended Associated Products



VVMs-Advanced™	VVMs-Xpert™	VVMs-Mobile™
Video Management Software	Video Management Software	Mobile Application
64 Channel	1024 Channel	
Mobile Application	Mobile Application	

### Affiliations:



### Partners:

