



CD3
Video Security

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DVR-N4 Information



DVR-N4 Networking 4 Camera Digital Video Recorder with 250 GB Hard Disk Drive (expandable) + 2 Channel Audio Recording

- Records 4 cameras simultaneously + 2 channels of audio
- Built-in advanced video motion detection feature
- Selectable image resolution and frame speed recording
- Includes FREE wireless remote control
- High quality HDD drive with a huge 250 gigabytes of storage *available
- Expandable hard disk bay (2 HDD bays)
- Time / date stamp and searchable playback w/ jog shuttle feature

DVR-N4 4 channel digital video + 2 channels audio recorder (DVR) with network remote viewing ability & built-in dedicated operating system (non-PC OS). This unit is 'plug & play' compatible with ALL of our cameras and wireless receivers. Also compatible with most consumer television sets (those with standard composite RCA / BNC video inputs). Top quality 7200RPM HDD with 8MB buffer included INSTALLED (250 GB) + expandable to additional storage/ drives by request.

Profile:

What a great digital video recorder! More features with MUCH higher quality + speed in comparison to similar looking DVRS, many of which are terribly slow on playback with poor quality video. With any of our cameras and plugged into any simple RCA capable television, this is ready to go within minutes of opening box (though there are many advanced features which may take hours to learn about and test, etc.).

- Internal video motion detection function converts ANY camera into a MOTION DETECTION camera. Records ONLY when activity is present in the frame.
- Jog shuttle feature allows quick forward/ reverse scanning through video archives

This DVR has what most prospective purchasers of a 4 camera system would want: super fast playback speed on every channel, very good visual resolution on play back of recorded video, dynamic motion detect recording ability and even 'full-frame' + digital zoom ability on playback of any channel. This is a GREAT value for any small multiple camera operation.

Many consumers are often BLINDED by buzzwords and end up putting far too much emphasis on the numeric technical specifications. NUMBERS on PAPER in the electronics industry (including video) often don't even get CLOSE to an accurate representation of what end-quality performance and satisfaction the user will experience. These numbers almost NEVER give any consideration to the level of engineering and manufacturing for the particular device. Too many in our industry are advertising their DVR systems with spec numbers and buzzwords, often with no regard or concern about what level of practical quality technology exists. And please BEWARE the claims of what "PC" slot recording cards will do for you.

Super fast playback is visually nearly real time for any channel, even when all channels are recording at once. Most which spec like this have a visible slow drag in time on playback of the compressed video. This DVR 'specs' at 60 FPS / frames per second (not 'fields per second' as is so often misrepresented in this industry). On paper, 60FPS shared between 4 cameras is 1/2 real time, considering that 30 FPS per channel is judged as real time video (even though with PAL video it's actually 25 fps). So, for 4 cameras (or channels of video), 120 FPS (30FPS each x 4 = 120) is considered true "realtime" speed of video. Please see our DVR-RT4 for full realtime spec capability (at high resolution for each channel).s

*The #DVR-N4 is one of those rare devices because it EXCEEDS its own technical manufacturer specifications. It appears to have much closer to 100+ fps record / playback speed! Almost not a single 'drag' in any of the video recorded from 4 color cameras with simultaneous activity in all fields (only true test is to maximize bandwidth requirements when recording).

Very good quality in playback. Not true 'high resolution' recording as in our professional real time #DVR-RT4 , #DVR-RT8 and #DVR-RT16, but WAY better than other such units which spec at 320 x 240 lines per channel (and advertise at '480' based on a number for VIEWING-ONLY of one SINGLE CHANNEL ONLY having NOTHING to do with the recording!). BEWARE, we have seen some that were so poor in image quality that we didn't know whether to laugh or cry (since we had already purchased it for sample evaluation purposes).

The internal motion detection ability of this unit is AMAZING! Highly adjustable and extremely sensitive when desired. Also includes the ability to 'mask' out certain areas in which user does not want motion to activate recording (such as passing cars on a street, etc.). Many DVR systems have (although many still don't) this internal ability but each major OEM seems to have its own unique method. We've tested several which looked 'antique' in relative comparison to the dynamic control and ability to adjust sensitivity on this one- it's GREAT.

This is considered a 'standalone' unit as it does NOT require any type of computer, though it CAN BE NETWORKED through its rear LAN port connection (RJ-45 type plug) to a PC computer for remote access viewing from multiple computers and/ or even over the internet (CD software included). PC remote viewing only.

We carry ONLY proven, stable video recording technology and even the very best hard drives are installed. We special order and install only 7200 RPM HDD drives with 8MB buffer by Western Digital®, Seagate® and Maxtor®. Do you really know what you're getting in your DVR if it isn't from CD3?! Likely a generic brand low capacity HDD with no buffer- and often even only too slow 5400 RPM performance!

Common Applications:

- Residential and small business security solutions
- Remote video monitoring of vacation property, etc.

Available Options:

Handheld wireless IR remote control included FREE with each DVR-N4 ordered.

FREE bonus accessory package includes RCA-BNC video plug adapters, remote viewing software CD and more.

We can install a second HDD (hard disk drive) to increase storage capacity to 500GB. Simply tell operator you want DVR-N4 and additional HDD-250.

Variations / Alternate Equipment to Consider:

For the ultimate in versatility and performance, consider our PROFESSIONAL HIGH RESOLUTION REAL TIME DVR SERIES #DVR-RT4, #DVR-RT8, #DVR-RT16. Like the DVR-N4 and DVR-N16, these are standalone (non-PC based) but still networkable systems. However, our realtime units feature one channel of audio PER every one channel of video and the 4 and 8 camera models are high resolution 480+ TV lines PER channel (each camera).

Our DVR-N16 is the 'big brother' of this unit. They are physically identical but they DVR-N16 has the ability to handle 16 channels of video + 2 channels of audio.

Cautions:

Networking this recorder into a PC computer system could potentially be confusing for some. And, unfortunately- based on type of computer, operating system and how particular settings are configured- there are simply too many variables involved for us to provide any kind of 'easy advice'. Generally speaking, if a customer has read all included instructions but still has trouble setting up a camera, wireless unit or VCR/DVR, we will be happy to walk the person through it over the telephone. However, networking issues are where we must 'draw the line', since they are generally far too complex and time consuming for our technicians to convey sight unseen over the telephone.

This unit is NOT designed for mobile or vehicle applications.

DVR-N4 Technical Specifications

FPS Recording Frame Rate	60 frames per second total, 15 frames per second per camera
FPS Display Frame Rate	realtime 120 frames per second total, 30 frames per second per camera
Recording Resolution	each camera: (NTSC): 360(H) x 240(V) / (PAL): 360(H) x 288(V)
Operating System	Linux-based HyRTK operating system
Compression Method	M-JPEG
Colors	16.7 million
Monitor Resolution	(NTSC): 720(H) x 480(V) / (PAL): 720(H) x 576(V)
Graphical User Interface Menus	easy to use on-screen programming guide
Backup Method	via RCA to VCR or other video recorder, or over network
Video Motion Detection Capable?	standard and built-in
Video Motion Detection Options	16 x 12 area division on/off selector grid for each camera, 10 levels of sensitivity adjustment
Monitoring Options	digital zoom in/out, picture in picture (PIP)
Playback Options	search, digital zoom in/out picture in picture (PIP), still image capture
Alarm/Event Recording Capable?	yes, with built-in external alarm input / output ports (4 in, 1 out)
Network Operation Capable?	possible with WAN or LAN router
Remote Internet Viewing Capable?	using WAN or LAN router
Ethernet/Modem Built-In?	ethernet standard and built-in
Standard HDD Capacity	250 GB (gigabytes)
Maximum Recording Time (std. HDD)	up to 2400 hours time lapse recording and up to 160 hours full frame speed recording
HDD Speed	7200 RPM+ 8 MB buffer
Includes Remote Controller?	free wireless IR remote controller
Simplex/Duplex/Triplex Operation?	simplex operation
Number of Video Inputs	four (4) video inputs for four (4) cameras total
Video Input Type	composite 1 Vp-p @ 75 ohms unbalanced
Video Output Type	composite 1 Vp-p @ 75 ohms unbalanced OR S-Video
Video Input Plug	BNC (connects easily to RCA with included adapter)
Video Output Plug	BNC (connects easily to RCA with included adapter) OR S-Video
Audio Recording Capable?	synchronized audio recordings
Number of Audio Inputs	two (2) audio inputs for two (2) microphones total
Audio Input Type	line level audio (preamplified)
Audio Output Type	line level audio (preamplified)
Audio Input Plug	2 x RCA (connects easily to BNC with included adapter)
Audio Output Plug	1 x RCA (connects easily to BNC with included adapter)

DVR-N4 Technical Specifications (continued)

Input Voltage	12v DC
Power Consumption	5 amps or less
Power Input Plug	proprietary 6-pin plug for use with included 110v/230v AC/DC power transformer
S/N (signal to noise) Ratio	more than 40 dB
Operating Temperature	+5°C ~ +40° C
Operating Humidity	less than 90%
Dimensions	17.1" x 12.8" x 4.3" / 434 mm x 325 mm x 110 mm
Weight	11 lbs. / 5 kg (single HDD configuration)
Cord Length	10' / 3 meters
*Additional Features	superior video motion detection performance, post-alarm recording with duration adjustment, AC/DC power transformer included FREE, password protected, plug and play BNC adapters included FREE
*Options	expandable HDD storage capacity (see above)
Warranty	one year

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