

Full-Featured MPEG-4 DVR

4CH
8CH
16CH



Ness Ultimate Series

The Ness Ultimate Series is a full-featured MPEG-4 DVR. With 4ch, 8ch & 16ch models available, the Ness Ultimate series are designed for medium-sized installations, such as supermarkets, hospitals, train stations, commercial buildings and more. The Ultimate series provides Triplex+ Operation that enables live display, playback, remote monitoring while recording. With Modular Upgrade Kits, users can expand the Ultimate with additional storage, POS tracking, and audio monitoring. The Ultimate Series provides user-friendly interfaces such as jog/shuttle, IR remote control, mouse, compact control keyboard, and ezBurn™, ezRecord™, ezDDNS™ technologies. Furthermore, combining up to 4# internal HDDs and NAS devices with an efficient MPEG-4 compression engine, vast recording capacity is available. The onboard capability for web viewing provides accessibility for remote viewing and system control via the internet.



Features

Advanced Functions

- Triplex+ Operation: Live, Record, Playback, Network
- Supports up to 2 Terabytes of internal storage
- Supports internal CD-RW/DVD+RW
- Main & Spot Monitor Outputs (VGA+Composite) all models
- Dual-Main Monitor Outputs (VGA+Composite) 16ch only
- Supports Modular Upgrade Kits
- Per Channel Configuration
- Multi-Language support
- Digital Zoom 2x2
- Multiple built-in dome camera control protocols
- Supports WLAN
- Supports Pre-Alarm Recording
- Built-in Coaxitron® Protocol for PTZ control via coax
- Built-in web viewing capability for remote monitoring
- Remote monitoring supports MS Windows Vista® and IE7

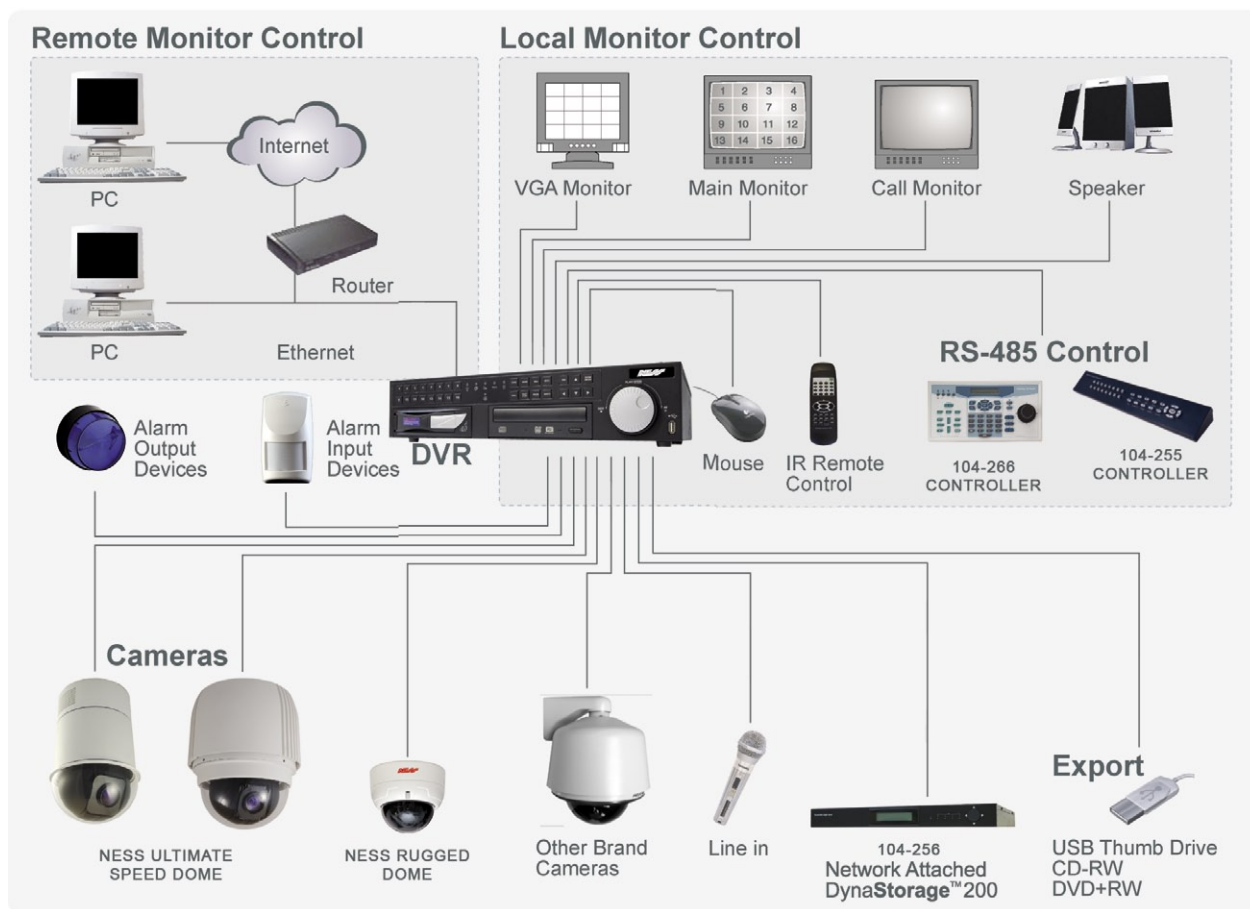
Human Interface Choices

- ezBurn™ for quick video export
- ezRecord™ for quick recording setting
- ezDDNS™ for automatic DDNS configuration
- Exports AVI files for Microsoft® Media Player
- Jog / Shuttle
- IR Remote Control (Standard)
- USB Mouse (Optional)
- Compact Control Keyboard (Optional)

Modular Upgrade Kits (Optional)

- External NAS for extended recording storage
- POS Module for transaction monitoring (16ch models)
- Turbo Module built-in for real time recording or network transcoding (16ch models)
- Audio Hub for synchronized 16channel audio recording (16ch models)

System Configuration

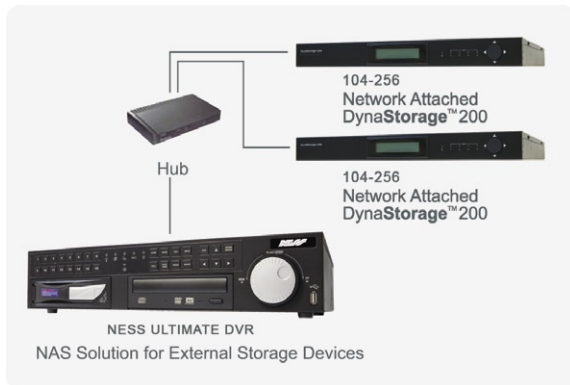


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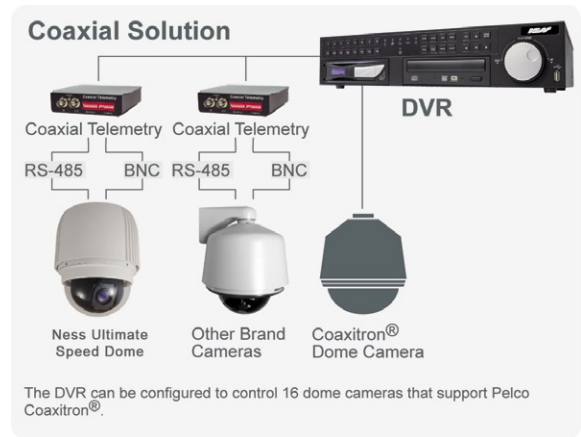
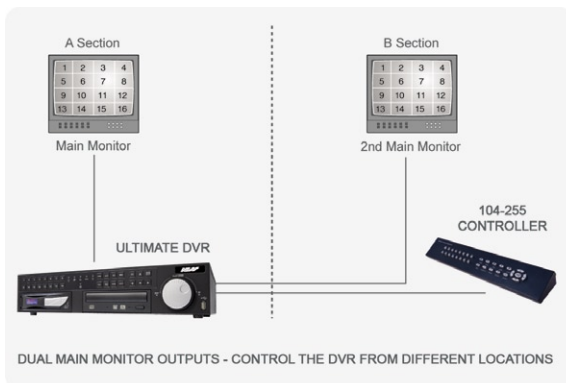
Choice Of Human Interfaces

The Ness Ultimate series provides intuitive control through user-friendly interfaces. With accessories such as the 104-255 Compact Control Keyboard and mouse support, the Ultimate series offers system control beyond the conventional front panel keys. The ezRecord™ and ezBurn™ features reduce recording configurations and video exporting tasks down to a few keystrokes. The Ultimate series comes with jog/shuttle and IR controller for video tracking and remote operation.



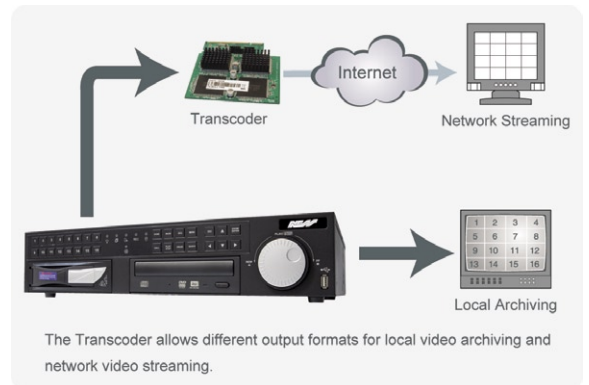
NAS Solution: Extended Recording Capacity

The DynaStorage™ 200, a NAS (Network Attached Storage) device, is designed to provide extended recording capacity for the Ultimate series via the Gigabit Ethernet interface. Its plug-and-play interface allows the DynaStorage™ 200 to directly connect to the DVR and instantly increases storage capacity. Multiple units of DynaStorage™ 200 can be connected with a hub for even more storage.



Coaxial Control

The Ness Ultimate series supports speed dome camera control through coaxial cable. The DVR can be configured to control 16 dome cameras that supports Pelco Coaxitron®, or conventional speed dome cameras through the Coaxial Telemetry for signal translation.



Transcoder

With the built in Turbo Module, the Transcoder improves users' remote monitoring experience while maintaining detailed local video data. The Transcoder allows different network video streaming format from local video archiving. The Ness Ultimate series will record local video at a high quality, high frame rate setting, but stream network video at a lower bit, reduced frame rate to ensure smooth monitoring at the remote site. (16ch models only)

Dual-Main Output

The Ness Ultimate series provides a Dual-Main Output function, which enables two main monitors for system control. Both main monitors can be used to modify system settings, view live video, or playback video. The DVR can manage control priority for different users. System administrators can control the DVR at different locations. (16ch models only)

SPECIFICATIONS	104-253 ULTIMATE 4CH	104-252 ULTIMATE 8CH	104-251 / 104-276 ULTIMATE 16CH	
Video				
Operating System	Embedded (Linux)			
Video Standard	NTSC/PAL switch selectable			
Video Operation	Triplex+ (Live, Record, Playback , Remote, and Internet access)			
Resolution – Live Video	720 x 576 pixels			
Input	BNC x 4, 1.0Vp-p/75 ohm	BNC x 8, 1.0Vp-p/75 ohm	BNC x 16, 1.0Vp-p/75 ohm	
Outputs	Main Monitor	BNC x 1, S-Video x 1, 1.0Vp-p/75 ohm		
	Call monitors	BNC x 1, 1.0Vp-p/75 ohm		
	Loop	BNC x 4, 1.0Vp-p/75 ohm	BNC x 8, 1.0Vp-p/75 ohm	BNC x 16, 1.0Vp-p/75 ohm
	VGA Output	800 x 600, 1024 x 768, 1280 x 1024 pixels @ 60Hz		
Digital Zoom	2 x 2			
Camera Installation	Plug & Play			
Audio				
Input	RCA x 2, Line-In			
Output	RCA x 2, Line-Out			
Recording Mode	Always Real Time Record, Synchronized w/ Video			
Compression Method	ADPCM, G.726			
File Size	8KB/Sec			
Operation	Remote + VCR mode			
Playback	At original video speed			
Recording				
Compression Method	MPEG-4 Advanced / Simple / Profile			
Recording Mode	Schedule, Alarm, Motion Detection			
Pre-Alarm	0~30 sec			
Resolution & Rate	720x576:25pps 720x288:50pps, 360x288: 100 pps	720x576:50pps 720x288:100pps, 360x288: 200 pps	720x576: 100 pps 720x288: 200 pps, 360x288: 400 pps	
Recording Quality	8 levels presets, adjustable			
Image Size	2K to 20K Byte/picture			
Storage Mode	Linear / Circular			
Playback				
Playback modes	Play, Stop, Pause, Rewind, Forward, Search			
Playback Speed Adjustment	Yes 1X, 2X...32X			
Retrieve	Date/Time, Event			
Data Life Time	Yes (Programmable)			
Storage				
Built-in Storage	X2 ATA 133 / UDMA 133 IDE, HDD / CD-RW / DVD+RW			
Built-in HDD	Up to 2 built-in HDDs + Removable HDD + DVD Burner (or total of 4 HDDs without DVD Burner)			
Built-in HDD size	500GB or 1000GB - refer to sales information			
External Storage	Gigabit LAN for NAS Storage			
Export	X3 USB2.0 ports, support ThumbDrive®, CD-RW, or DVD+RW			
Alarm				
Alarm Input	X4, terminal block	X8, terminal block	X16, Terminal Block	
Alarm Detection	N.C./N.O., Programmable			
Audible Alert	Built-in Buzzer			
Motion Detection	21 X 16 Grid Array, Sensitivity, Trig Level Adjustable			
Video Loss Detection	Programmable			
Alarm Relay Output	X3, Terminal Block, 1.0A/24V (Programmable)			
Communication				
Network Connectivity	Ethernet RJ-45 connector, 10/100Mbps, supports DHCP / PPPoE / DDNS			
Remote Control Software	Web interface included			
Access Control	2 Level Password			
Remote Operation	Monitoring, Playback, Recording, System Setup, Dome Camera Control			
RS232C	D-sub 9 pin female			
RS485	Terminal Block interface for DVR Controller, PTZ Controller			
Dome Control Protocol	DynaColor, Pelco P, Pelco D, AD422, Fastrax 2			
General				
Dimensions (W x H x D)	440 x 90 x 413mm			
Weight	6kg			
Operating temperature	0°C ~ +40°C			
Humidity	5% ~ 85% non-condensing			
Operating voltage / Consumption	240V AC / 100W			

The DVRs can support up to 2 built-in HDDs + Removable HDD + DVD Burner (or total of 4 HDDs without DVD Burner)

SYDNEY 02 8825 9222 **MELBOURNE** 03 9875 6400 **BRISBANE** 07 3399 4910
 sales@ness.com.au nessmelb@ness.com.au nessbris@ness.com.au

PERTH 08 9328 2511 **ADELAIDE** 08 8152 0000
 nessper@ness.com.au adelaide@ness.com.au



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