

Full-Featured MPEG-4 DVR

8CH
16CH



Ness Ultimate Series

The Ness Ultimate Series is a full-featured MPEG-4 DVR. With 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.



Consistent™
Commitment
To
Value

Features

Advanced Functions

- Triplex+ Operation: Live, Record, Playback, Network
- Supports up to 2 Terabytes of internal storage
- Supports internal CD-RW/DVD+RW
- Dual-Main Output **NEW**
- 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 Pelco Coaxitron® Protocol **NEW**
- Built-in web viewing capability for remote monitoring
- Remote monitoring supports MS Windows Vista® and IE7

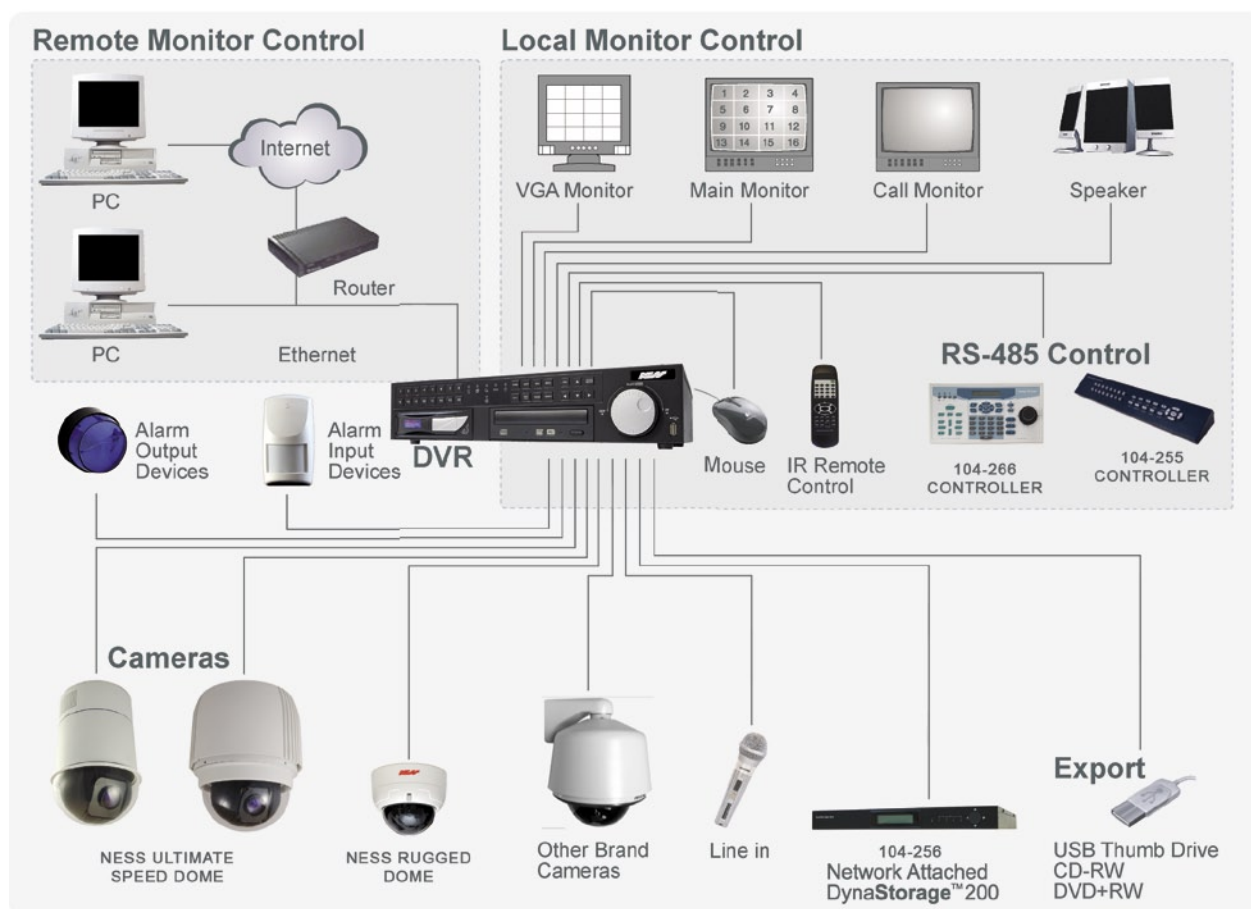
Human Interface Technology

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

Modular Upgrade Kits (Optional)

- DynaStorage™ 200 for extended recording storage
- POS Module for transaction monitoring **NEW**
- Turbo Module for real time recording or network transcoding (Included in Ultimate 16ch, optional in Ultimate 8ch)
- Audio Hub for synchronized 16ch audio recording

System Configuration



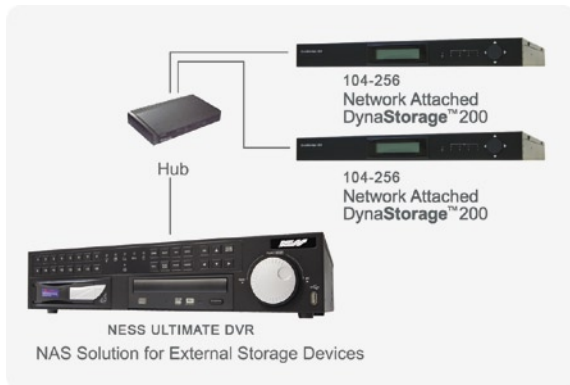
Full-Featured MPEG-4 DVR



INTERFACES

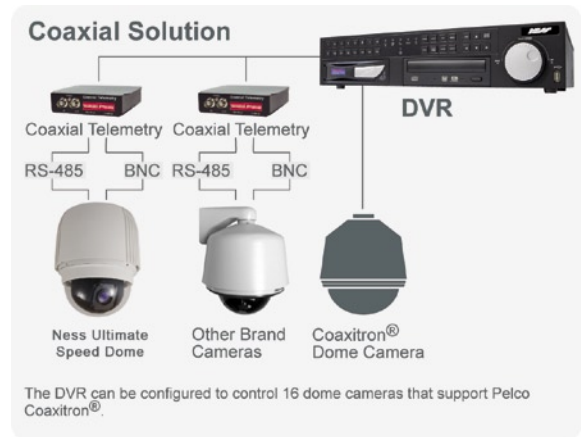
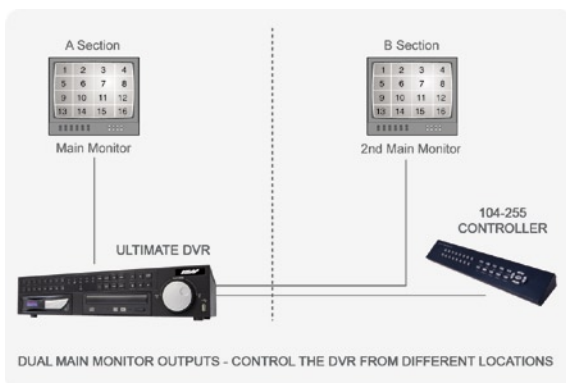
Choice Of Human Interfaces

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.



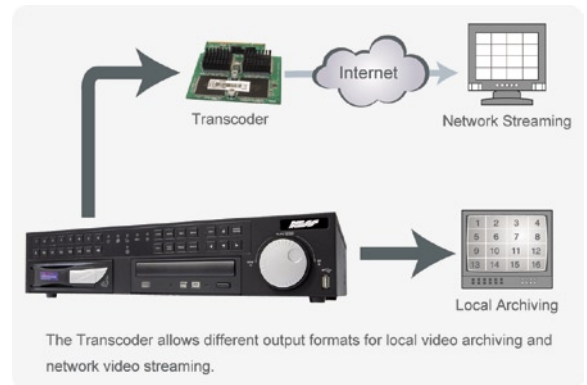
NAS Solution: Extended Recording Capacity

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.

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.

Technical Specifications

Item			
Video			
Operation System		Embedded (Linux)	
Video Standard		NTSC / PAL Switch Selectable	
Video Operation		Triplex [†] (Live, Record, Playback, and Network)	
Resolution – Live Video		PAL: 720 x 576 pixels	
Input		BNC x 16, 1.0 Vp-p / 75 ohm	
Outputs	Main Monitor	BNC x 1, S-Video x 1, 1.0Vp-p / 75 ohm	
	Call Monitor	BNC x 1, 1.0 Vp-p / 75 ohm	
	Loop	BNC x 16, 1.0 Vp-p / 75 ohm	
VGA Output		800 x 600, 1024 x 768, 1280 x 1024 pixels	
Picture Refresh Rate		PAL: 400 PPS (16CH)	
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 with Video	
Compression Method		ADPCM, G.726	
Data Rate		4KB/s, per CH	
Operation		Remote + VCR Mode	
Playback		Only for Video Original Speed	
Recording			
Compression Method		MPEG-4 Advanced Simple Profile	
Recording Mode		Schedule, Alarm, Motion Detection	
Pre-Alarm		1 ~ 30 sec	
Resolution & Rate	PAL	720X576	Max 100 pps
		720x288	Max 200 pps
		360x288	Max 400 pps
Recording Quality		8 Levels Presets, Adjustable	
Image Size		2KB to 20KB / Picture	
Storage Mode		Linear / Circular	
Playback			
Playback		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 4 built-in HDDs	
External Storage		DynaStorage™ 200 (Gigabit LAN)	
Export		x3 USB2.0 Ports, Supports ThumbDrive, CD-RW, or DVD+RW	
Alarm			
Alarm Input		x16, Terminal Block (TTL)	
Alarm Detection		N.C./ N.O., Programmable	
Auditory Alert		Built-in Buzzer	
Motion Detection		21 x 16 (PAL) Grid Array, Sensitivity, Trigger Level Adjustable	
Video Loss Detection		Programmable	
Alarm Relay Output		x3, Terminal Block, 3.0 A/30 VDC or 3.0 A/125 VAC	
Communication			
Network Connectivity		Ethernet RJ-45 connector, 10/100 Mbps, Supports DHCP / PPPoE / DDNS	
Remote Control Software		Included	
Access Control		2 Level Password	
Remote Operation		Monitor, Playback, Recording, System Setup, Dome Camera Control, Archive	
RS232C		D-Sub 9 Pin Female	
RS485		Terminal Block	
Dome Control Protocol		DynaColor, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic	
General			
Unit Dimension (W x H x D)		440 x 90 x 413 mm (17.3 x 3.54 x 16.3 inches)	
Unit Weight		6 kg (12.33 lbs) with CD-RW	
Package Dimension (W x H x D)		590 x 210 x 460 mm (23.2 x 8.27 x 18.1 inches)	
Package Weight		8.5 kg (18.72 lbs)	
Operation Temperature		0°C ~ 40°C (32°F ~ 104 °F)	
Relative Humidity		5% ~ 85% Non-condensing	
Power Consumption & Input		AC 100 ~ 240V, 50-60 Hz, 100 W (Manual Select)	

Remark ①: DynaRemote™ Software Requirements:
Windows 2000 or XP, Intel® PIII or faster, 256MB RAM (512 MB RAM recommended),
Microsoft® Internet Explorer 6.0 SP2, LAN or Internet connection.

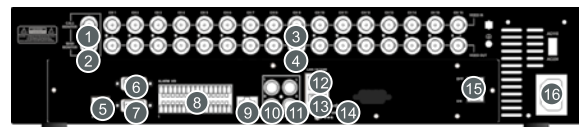
Major Operating Controls

Front Panel



- ① Cartridge (Optional)
- ② CD-RW or DVD+RW (Optional)
- ③ Channel Keys
- ④ LEDs
- ⑤ IR
- ⑥ Function Keys
- ⑦ Direction Keys
- ⑧ Shuttle Jog
- ⑨ USB2.0 Port

Rear Panel



- ① Call Monitor Output
- ② Main Monitor Output
- ③ Video Input
- ④ Video Looping
- ⑤ S-Video Output
- ⑥ VGA Port
- ⑦ RS-232C
- ⑧ Alarm I/O & RS485
- ⑨ NAS Port (RJ45)
- ⑩ Audio Input
- ⑪ Audio Output
- ⑫ LAN Port (RJ45)
- ⑬ USB2.0 Port
- ⑭ NTSC/PAL Switch
- ⑮ Power Switch
- ⑯ Power Jack

Extended Storage System: DS200

Front Panel






Rear Panel



The addition of high quality storage devices extends DVR usability and recording capacity.

Modular Upgrade Kits

UPGRADE KIT	FEATURES	OPTION
 Turbo Module	<ul style="list-style-type: none"> • Enable 16ch Real Time Recording: Recording Rate: 400pps Dual-Main Output • Enable Transcoder: Remote Image Resolution Adjustable Remote Per Channel Configuration 	Included (Ultimate 16ch) Optional (Ultimate 8ch/4ch)
 Audio Hub	<ul style="list-style-type: none"> • 16CH Audio-in Recording • Real Time Audio Recording • Remote Audio Surveillance • RS232 Interface 	Optional
 POS Module	<ul style="list-style-type: none"> • Local Text Overlay in Live/PB • Remote Text Overlay in Live/PB • Local Text Search • Remote Text Search • Exception Handling • Export w/ Text Data 	Optional

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