*Ness Ultimate Hybrid Series

4 / 8 / 16 Channel Megapixel + IP camera support



The Ness Ultimate Hybrid series are premium H.264 DVRs supporting multi-codec, analog and IP cameras, Megapixel recording and display.

Designed for advanced surveillance and multifunctional projects such as military bases, research institutes, financial buildings and casinos. With a high-performance compression engine, the Ultimate Hybrid series provides real-time recording, fast data transmission over the internet and crystal clear video quality. Additionally, Multi-codec allows users to select specific recording modes from H.264 / MPEG-4 / MJPEG to meet various uses in different environments. Compatible with both IP and analog cameras, the Ultimate Hybrid series applies the concept of hybrid connection for flexible surveillance solution.

Furthermore, the Megapixel recording capability provides high-definition video for capturing fine detail from high resolution megapixel cameras.

Hybrid Technology - Digital & Analog Display & Recording SUPPORT MEGAPIXEL CAMERAS

Advanced Functions

- H.264 / MPEG-4 / MJPEG compression
- IP Camera recording
- Megapixel recording
- · Real-time recording
- Pentaplex Operation
- User management
- · Per channel configuration
- NTP for time synchronization
- WLAN, SMS
- Built-in Pelco Coaxitron® protocol
- · POS Funtion: transaction monitoring
- 1TB HDD included, up to 3 internal SATA HDDs
- DVD+RW included
- HDMI Digital video output
- Dual-gigabit LAN ports
- 4/8/16ch audio recording
- · Mobile View software
- DynaRemote[™] for remote monitoring
- DynaGuard™ CMS for large-scale video management





₽ Ness Ultimate Hybrid Series

MODEL NAME		104-293 16 Channel DVR	104-292 8 Channel DVR	104-291 4 Channel DVR
Video				
Operation	System		Embedded (Linux)	
Video Standard		NTSC/PAL Switch Selectable		
Input		BNCx16,1.0Vp-p/75 ohm	BNCx8,1.0Vp-p/75 ohm	BNCx4,1.0Vp-p/75 ohm
Input IP devices		Up to 8ch	Up to 8ch	Up to 4ch
Main Monitor		BNC x 1, S-Video x 1, 1.0Vp-p/75 ohm		
Outputs Call Monitor Loop				
			BNC x 1, 1.0Vp-p/75 ohm	
		BNCx16,1.0Vp-p/75 ohm	BNCx8,1.0Vp-p/75 ohm	BNCx4,1.0Vp-p/75 ohm
Digital Display Output		800 x 600, 1024 x 768, 1280 x 1024 pixels		
VGA Output		800 x 600, 1024 x 768, 1280 x 1024 pixels		
Picture Refresh Rate		NTSC: 480 PPS(16CH) / PAL: 400 PPS(16CH)		
Audio				
Input		x 16, Line-In	x 8, Line-In	x 4, Line-In
Output		X 10, 20	x 1, Line-Out	x :, =•
Compression Method			ADPCM, G.726	
Data Rate				
		8KB/s, per CH		
Recordin	g	T	11.004	
Compression Method			H.264	
,		MPEG-4, MJPEG		
Recording Mode		Schedule, Alarm, Motion Detection		
Pre-Alarm		1~30 sec		
11.004	NTSC 720x480	480pps	240pps	120pps
	PAL 720x576	400pps	200pps	100pps
	NTSC 720x480	240pps	120pps	120pps
		200pps	100pps	100pps
		200μρς		тооррѕ
Recording Quality		8 Levels Presets, Adjustable		
Data Life Time		Yes (Programmable)		
Storage				
Build-in S	torage Interface	>	4 SATA for HDD and DVD+RW	l .
Build-in S Cartridge	/ DVD+RW		Optional	
Build-in S	/ DVD+RW			
Build-in Si Cartridge External Si	/ DVD+RW	Dy	Optional na Storage ™ 200 (Gigabit LAI	N)
Build-in Si Cartridge External Si Export	/ DVD+RW	Dy	Optional	N)
Build-in Si Cartridge External Si Export	/ DVD+RW Storage	Dy X4 USB2.0	Optional na Storage ™ 200 (Gigabit LAI Ports, Support Thumb Drive an	N) d DVD+RW
Build-in Si Cartridge External Si Export Alarm Alarm Inp	/ DVD+RW Storage ut	Dy	Optional na Storage ™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL)	N)
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Def	/ DVD+RW Storage ut tection	X4 USB2.0 x16, Terminal Block(TTL)	Optional na Storage ™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable	N) Id DVD+RW x4, Terminal Block(TTL)
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion De	/ DVD+RW Storage ut tection etection	Dy X4 USB2.0 x16, Terminal Block(TTL)	Optional na Storage ™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve	N) Id DVD+RW x4, Terminal Block(TTL)
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion De	/ DVD+RW Storage ut tection	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid	Optional na Storage ™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve	N) Id DVD+RW x4, Terminal Block(TTL) el Adjustable
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los	/ DVD+RW Storage ut tection etection ss Detection	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A /	Optional na Storage ™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A /	x4, Terminal Block(TTL) el Adjustable x2, Terminal Block, 3.0A/
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel	/ DVD+RW Storage ut tection etection ss Detection lay Output	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid	Optional na Storage ™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve	N) Id DVD+RW x4, Terminal Block(TTL) el Adjustable
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel	/ DVD+RW Storage ut tection etection es Detection lay Output cation	x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC	x4, Terminal Block(TTL) el Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel Communic Network C	/ DVD+RW Storage ut tection etection ss Detection lay Output cation Connectivity	x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC	x4, Terminal Block(TTL) el Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel Communic Network C	/ DVD+RW Storage ut tection etection es Detection lay Output cation	x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC	x4, Terminal Block(TTL) el Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel Communic Network Ci	/ DVD+RW Storage ut tection etection ss Detection lay Output cation Connectivity	x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC	x4, Terminal Block(TTL) Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Del Motion Del Video Los Alarm Rel Communio Network Ci Compatib Remote Ci	ut tection etection as Detection lay Output cation Connectivity le IP Cameras Control Software	x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 bynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote	x4, Terminal Block(TTL) Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Del Motion Del Video Los Alarm Rel Communio Network Ci Compatib Remote Ci	ut tection etection as Detection lay Output cation Connectivity le IP Cameras Control Software	x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 bynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome Cording	x4, Terminal Block(TTL) Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Del Motion Del Video Los Alarm Rel Communion Network Ci Compatib Remote Ci RS232C	ut tection etection as Detection lay Output cation Connectivity le IP Cameras Control Software	x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 bynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome Cording, System Setup, Dome Cording Signary D-Sub 9 Pin Male	x4, Terminal Block(TTL) Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Del Motion Del Video Los Alarm Rel Communion Network Ci Compatib Remote Ci RS232C RS485	ut tection etection ss Detection lay Output cation Connectivity le IP Cameras Control Software Operation	x4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D Dyn Monitoring, Playback, Rec	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 pynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome Cording, System Setup, Dome Cordinal Block	x4, Terminal Block(TTL) el Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK et M Camera Control, Archiving
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel Communic Network Ci Compatib Remote Ci RS232C RS485 Dome Co	ut tection etection as Detection lay Output cation Connectivity le IP Cameras Control Software	x4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D Dyn Monitoring, Playback, Rec	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 bynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome Cording, System Setup, Dome Cording Signary D-Sub 9 Pin Male	x4, Terminal Block(TTL) el Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK et M Camera Control, Archiving
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Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel Communion Network Ci Compatib Remote Ci RS232C RS485 Dome Cor General Unit Dime	/ DVD+RW Storage ut tection etection ss Detection lay Output cation Connectivity le IP Cameras Control Software Operation introl Protocol	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D Dyn Monitoring, Playback, Rec DSCP, Pelc	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 bynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome Cording, System Setup, Dome Cording, System Setup, Dome Cordinal Block D-Sub 9 Pin Male Terminal Block 0 P, Pelco D, AD422,Fastrax 2, 3 (WxHxD)mm (17.3 x 3.54 x	x4, Terminal Block(TTL) el Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK e TM Camera Control, Archiving , Panasonic 16.3 inches)
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel Communio Network Ci Compatib Remote Ci RS232C RS485 Dome Cor General Unit Dime Unit Weig	/ DVD+RW Storage ut tection etection as Detection lay Output cation Connectivity le IP Cameras Control Software Operation introl Protocol ensions ht	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D Dyn Monitoring, Playback, Rec DSCP, Pelc	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 pynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome C D-Sub 9 Pin Male Terminal Block o P, Pelco D, AD422,Fastrax 2, 3 (WxHxD)mm (17.3 x 3.54 x 7Kg (15.42 lbs) with DVD-RW	x4, Terminal Block(TTL) 2l Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK 2TM Camera Control, Archiving , Panasonic 16.3 inches)
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Det Motion Det Video Los Alarm Rel Communio Network Ci Compatib Remote Ci RS232C RS485 Dome Cor General Unit Dime Unit Weig	/ DVD+RW Storage ut tection etection ss Detection lay Output cation Connectivity le IP Cameras Control Software Operation introl Protocol	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D Dyn Monitoring, Playback, Rec DSCP, Pelc	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 bynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome Cording, System Setup, Dome Cording, System Setup, Dome Cordinal Block D-Sub 9 Pin Male Terminal Block 0 P, Pelco D, AD422,Fastrax 2, 3 (WxHxD)mm (17.3 x 3.54 x	x4, Terminal Block(TTL) 2l Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK 2TM Camera Control, Archiving , Panasonic 16.3 inches)
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Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Del Motion Del Video Los Alarm Rel Communio Network Ci Compatib Remote Ci RS232C RS485 Dome Coi General Unit Dime Unit Weig Package I	ut tection etection ss Detection lay Output cation Connectivity le IP Cameras Control Software Operation ensions ht Dimensions Weight	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D Dyn Monitoring, Playback, Rec DSCP, Pelc	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 DynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome C D-Sub 9 Pin Male Terminal Block o P, Pelco D, AD422,Fastrax 2, 3 (WxHxD)mm (17.3 x 3.54 x 7Kg (15.42 lbs) with DVD-RW 1 (WxHxD)mm (22.17 x 7.76 x 10Kg (22.03lbs)	x4, Terminal Block(TTL) 2l Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK 2TM Camera Control, Archiving , Panasonic 16.3 inches)
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Del Motion Del Video Los Alarm Rel Communio Network Ci Compatib Remote Ci RS232C RS485 Dome Coi General Unit Dime Unit Weig Package I Package I Package I Operation	ut tection etection ss Detection lay Output cation Connectivity le IP Cameras Control Software Operation ensions ht Dimensions Weight Temperature	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D Dyn Monitoring, Playback, Rec DSCP, Pelc	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 et RJ-45 connector, 10/100/	x4, Terminal Block(TTL) 2l Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK 2TM Camera Control, Archiving , Panasonic 16.3 inches)
Build-in Si Cartridge External Si Export Alarm Alarm Inp Alarm Del Motion Del Video Los Alarm Rel Communion Network Compatib Remote Compatib R	ut tection etection ss Detection lay Output cation Connectivity le IP Cameras Control Software Operation ensions ht Dimensions Weight Temperature	X4 USB2.0 x16, Terminal Block(TTL) 15 x 11 Grid x3, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC Etherne ACTi, AXIS, D Dyn Monitoring, Playback, Rec DSCP, Pelc 440 x 90 x 41	Optional naStorage™ 200 (Gigabit LAI Ports, Support Thumb Drive an x8, Terminal Block(TTL) N.C. / N.O., Programmable Array, Sensitivity, Trigger Leve Programmable X2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC et RJ-45 connector, 10/100/100 DynaColor, HUNT, SANYO, SOI naGuard™ CMS, DynaRemote cording, System Setup, Dome C D-Sub 9 Pin Male Terminal Block o P, Pelco D, AD422,Fastrax 2, 3 (WxHxD)mm (17.3 x 3.54 x 7Kg (15.42 lbs) with DVD-RW 1 (WxHxD)mm (22.17 x 7.76 x 10Kg (22.03lbs)	x4, Terminal Block(TTL) el Adjustable x2, Terminal Block, 3.0A / 30 VDC or 3.0A / 125 VAC 0 Mbps NY, VIVOTEK et TM Camera Control, Archiving , Panasonic 16.3 inches)

sales@ness.com.au

nessmelb@ness.com.au

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

PERTH 08 9328 2511

ADELAIDE 08 8152 0000 adelaide@ness.com.au

NFS (NZ) 09 580 1576



