HRSD SERIES

8 AND 16 CHANNEL EMBEDDED DIGITAL VIDEO RECORDER

The HRSD Series digital video recorder (DVR) combines the benefits of digital recording with the advanced processing of a multiplexer. The HRSD DVRs feature Honeywell's sophisticated, proprietary XtraStor compression technology that provides more storage on smaller media without sacrificing image quality – resulting in days, weeks and even months of high-resolution video storage.

Recording at a rate of up to 120/100 ips NTSC/PAL, HRSD supports configurable ips per camera and other high-end recording capabilities to efficiently capture and provide long-term storage of video, text, and audio. Multiple search engines enable the user to quickly find the evidence detail. Transfer of video evidence is fast and easy using the clip-copy function which allows video, audio, and text evidence to be burned onto a USB stick via the front panel USB port or CD-R using the internal CD-RW. A viewer executable is included with each clip, which eliminates the need to install a viewer separately to the evidence viewing PC. This maximises ease-of-use for anyone who needs to view the evidence after the occurrence of a fraudulent event.

The same powerful Remote Administration System Plus (RASplus) software used for HRXD is also used by HRSD. The RASplus advanced feature set includes simultaneous connection of up to 16 sites over a digital network. Users can configure and download software updates to remote DVRs from a central site, saving time and money by eliminating the need for many site visits.

Market Opportunities

When combined with an external interface/filter device such as SmartPIT™, the HRSD Series becomes a desirable solution for many retail or financial surveillance applications by providing an interface to POS and ATM systems.

For surveillance systems integrating multiple devices that need to share a single time reference, SNTP allows the HRSD's time clock to be synchronised to an external time reference.

Features:

- 8 or 16 looping video inputs

- Continues recording while transmitting to remote site and during playback

- Built-in CD-RW drive and 2 USB 2.0 ports

- Mouse (not included) interface via USB port

- Time synchronisation between DVR and time server or other DVR

- PTZ dome control for a wide variety of protocols

- Remote access through PSTN, LAN/WAN (internal NIC) and DSL (remote access software included)

- Multiple search engines (date/time, calendar, event, text-in)

- Multiple recording modes (time-lapse, pre-event, alarm, motion, text and panic)

- Linux OS — OS embedded in flash
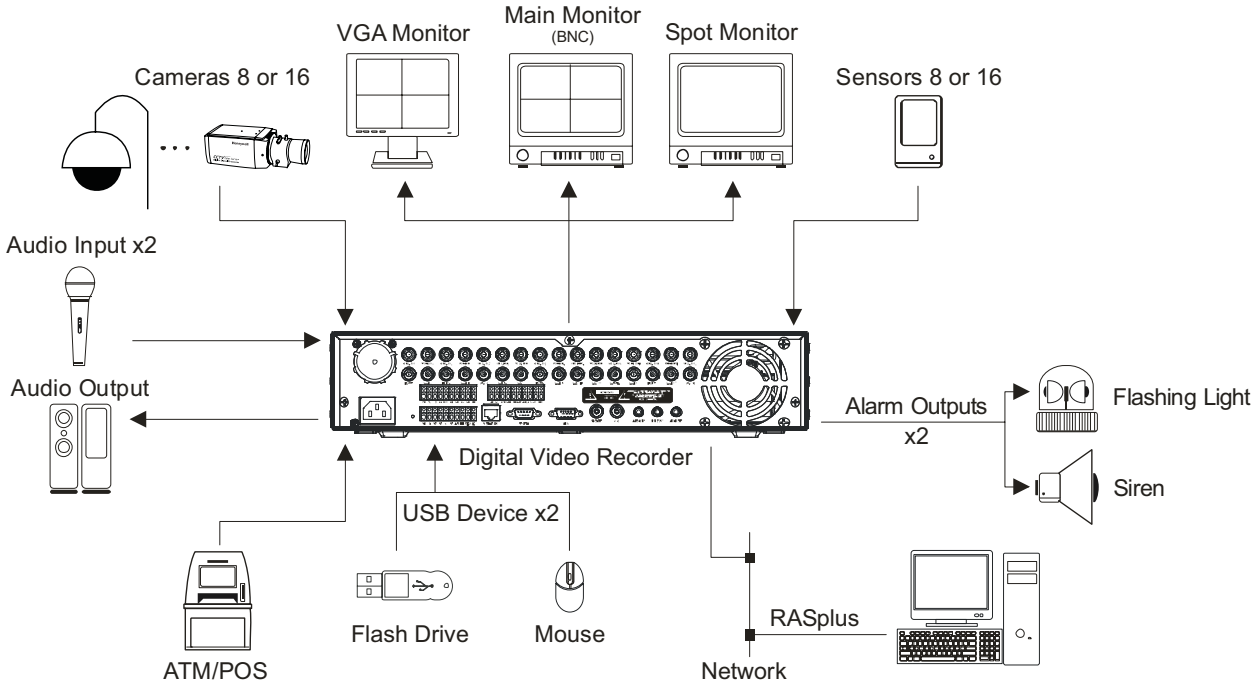
Honeywell

HRSD SERIES

SPECIFICATIONS

RAS Plus Software	
Sessions Maximum per HRSD recorder	14 simultaneous connections
Administration	2 sessions
Users Viewing Live Video (and activating outputs)	10 sessions
Users Retrieving Video	2 sessions
Compatibility	Microsoft Windows XP or Vista; see RASplus User Guide for additional detail. Doc. 900.0857

Recorder Unit	
Video Standard	NTSC or PAL (Auto Detect)
Video Display Format	720 x 480 (NTSC) 720 x 576 (PAL)
Colour Control	Brightness, contrast, hue and saturation
Recording and Transmission Compression Algorithm	XtraStor compression technology
Record Mode	(FIFO) Continuous buffer
Recording Capacity	Hard Drive 250 GB or 500 GB, see "Ordering" section for details.
Recording Rate (Global)	120/100 ips (NTSC/PAL)
Video Resolution Settings	Standard: 336 x 224 (NTSC), or 336 x 272 (PAL) High: 672 x 224 (NTSC), or 672 x 272 (PAL)
Video Motion Detection	Configurable zone detection area and sensitivity
Video Motion Search	Configurable zone of interest and sensitivity level. Includes clip list with preview image
POS/ATM interface*	8 serial text streams (max) interface via USB. RS232 port accepts single data stream with multiplexed data from up to 8 or 16 terminals
Event Recording and Reporting	Input via – alarm i/p contacts, motion and POS/ATM text data.reporting via internal buzzer,alarm o/p contacts, RAS(plus) and e-mail notification
Removable Media	Built-in CDR/W 2 – USB ports
Still Image	Bitmap or JPEG file format using RASplus
Front Panel Control	Intuitive operation supports mouse connection to USB port
SNTP Client	Synchronise timing to SNTP servers
DHCP Enabled	DHCP or Manual IP entry and ADSL with PPPoE
Port number set-up	Individual entries for remote admin, remote watch, remote search, remote callback
PTZ Protocols Support	Support for up to 50 PTZ protocols
Language Support	English, French, Spanish, Dutch, Italian, Portuguese and German
Internal Buzzer	Selectable upon alarm or event

Connections	
Video Input	8 or 16 – Looping, BNC 1.0 Vp-p @ 75 Ohms, Auto Terminating
Video Output	1 – Composite, BNC 1.0 Vp-p @ 75 Ohms 1 – VGA alternative to using BNC 1 – Spot, BNC 1.0 – Vp-p @ 75 Ohms
Audio Input/Output	2 – Line level, RCA 1 – Line Out, RCA
Alarm/Control Inputs General Purpose	8 or 16 TTL programmable as NC or NO, 4.3V threshold
Alarm Reset Input	1 TTL terminal block
Control Outputs	2 relay outputs, terminal blocks, programmable as NC or NO, 0.5 A @ 125 VAC, 1 A @ 30 VDC
Serial Ports	1 – RS232-C DB9 (P) 2 – USB (2.0) 1 – RS485 port
Internal Storage	EIDE HDD
Networking	10/100 base Ethernet (RJ-45)

Electrical	
Input Voltage	100 – 240 VAC, 2 A, 60 – 50 Hz, Autosensing
Power Consumption	90 Watts

Mechanical	
Dimensions (W x H x D)	16.9" x 3.5" x 16.3" 430 mm x 89 mm x 414 mm
Weight	Unit: 16.1 lb (7.3kg) Shipping: 27.1 lb (12.3kg)
Construction	Housing: Steel chassis Finish: Black matte paint

Environmental	
Temperature	Operating: 41°F to 104°F (5°C to 40°C) Storage: 32°F to 140°F (0°C to 60°C)
Relative Humidity	0% - 90%, non-condensing

Regulatory	
Emissions	FCC: Part 15 Subpart B, Class A CE: EN 55022:1998 + A1:2000 + A2: 2003, Class A, EN61000-3-2:2000 EN61000-3-3:1995 + A1:2001
Immunity	CE: EN50130-4:1995 + A1:1998 + A2:2003
Safety U.S. and Canada International	UL: 60950, First Edition (2003) CSA C22.2 No. 60950-1-03 First Edition April 1, 2003 CE: IEC60950-1:2001 (First Edition) and/or EN60950-1:2001

*May require external SmartPIT™ interface. See Accessories section of this datasheet.
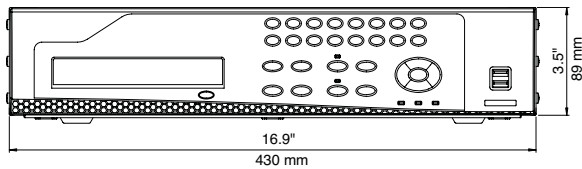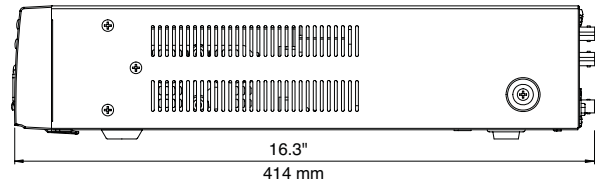
HRSD SERIES

SYSTEM DRAWING

Cameras 8 or 16

VGA Monitor

Main Monitor (BNC)

Spot Monitor

Sensors 8 or 16

Audio Input x2

Audio Output

Digital Video Recorder

Alarm Outputs x2

Flashing Light

Siren

USB Device x2

ATM/POS

Flash Drive

Mouse

RASplus

Network

HRSD SERIES

ACCESSORIES, DIMENSIONS, ORDERING

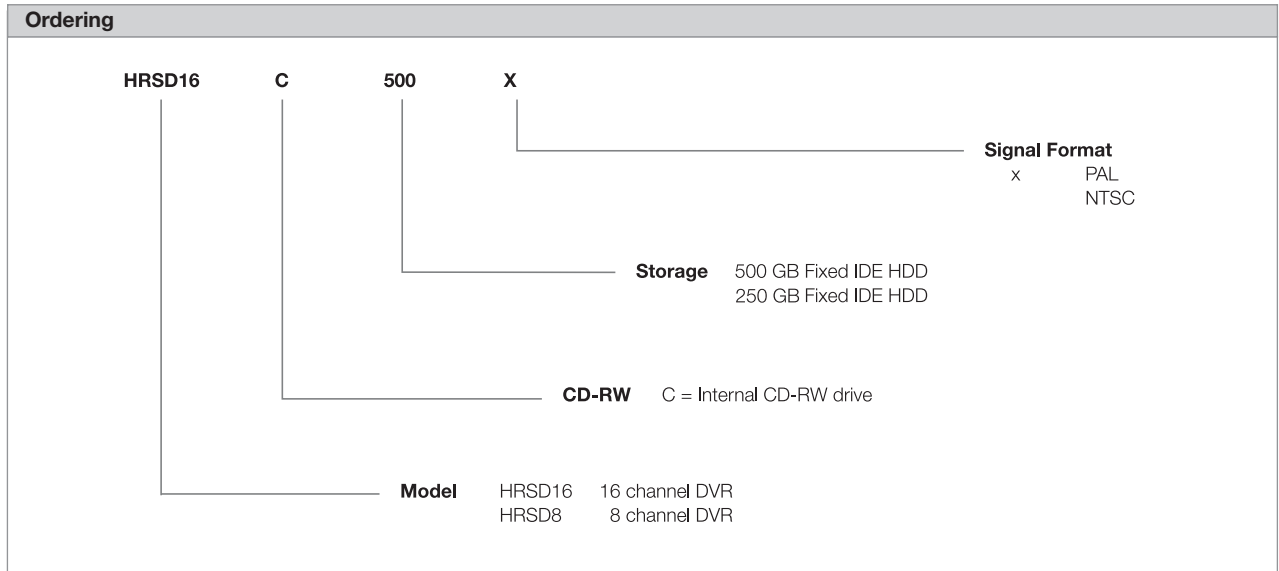| Recommended Accessories	
POS/ATM Interface	
HASMPIT	SmartPIT™, POS/ECR or ATMtext inserter
Monitors	
HMC14	14" Colour CRT Monitor
HMLCD19e2X	19" e-Series Colour LCD Monitor (VGA)
HMLCD17LX	17" L-Series Colour LCD monitor (VGA)

Recommended Accessories, cont.	
Cameras	
HCU484X	Ultra-wide dynamic high resolution body camera
HD3CHX	Super high resolution 3" mini-dome camera
HD4DX	Super high resolution day/night vandal resistant mini-dome camera
ACUIX™	High-performance PTZ camera
Surge Protection	
HCSP1	Camera Surge Protector
HDSP1	PTZ Dome Surge Protector

3.5"
89 mm

16.9"
430 mm

Front View (16 ch)

16.3"
414 mm

Side View

Ordering

HRSD16   C   500   X

Signal Format
x   PAL
     NTSC

Storage   500 GB Fixed IDE HDD
               250 GB Fixed IDE HDD

CD-RW   C = Internal CD-RW drive

Model   HRSD16   16 channel DVR
             HRSD8   8 channel DVR

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