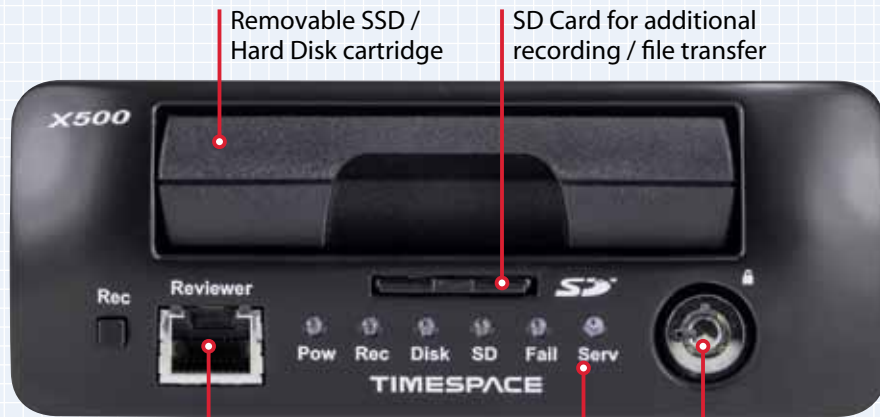


Timespace X500

DRIVING SECURITY



Timespace digital video recorders for cost effective, reliable and high performance operation in covert, mobile and law enforcement surveillance applications.



Removable SSD / Hard Disk cartridge
SD Card for additional recording / file transfer

Plug in Reviewer for set up and control
Status
Locked cartridge

Video

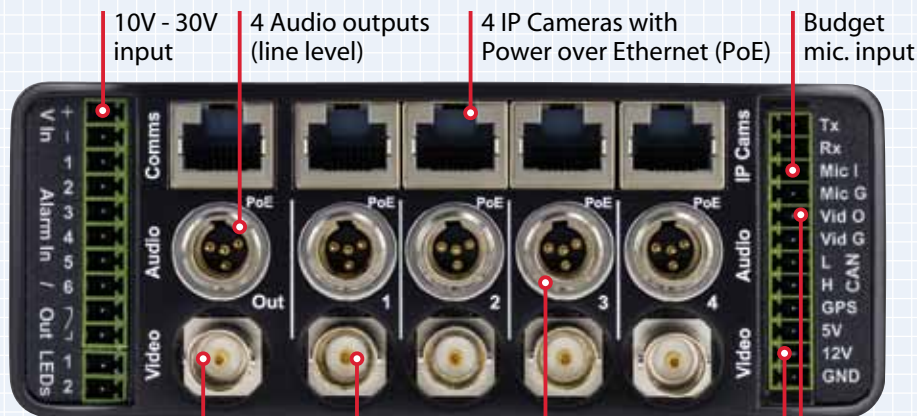
- 4 PAL/NTSC Cameras 2CIF, 25 IPS x4, H264 compression
- 4 IP Cameras Up to 40MPixel cameras supported (future-proofed) including: 1080p cameras (1920 x 1080 – 2MPixel) 4k cameras (3840 x 2160 – 8MPixel)
- H264, H265 future-compatible. RTSP protocol 200Mbit/s to disk sustained performance.

Audio

- 4 Microphone inputs, 4 Line level outputs
- 48,000Hz, 24 bit recording x 4
- Super wide dynamic range > 110 dB SNR
- Gun shot to whisper
- Plug in compatible with Shure WL183-185 and Countryman B3 series mics
- Suitable for most electret condenser mics including: MicW-iBoundary, Sony ECM-77B, Sennheiser ME 2-US, Knowles EK-23024
- 5V Mic. power via 1k resistor
- Fixed gain or software Auto Gain Control (AGC).

General

- Dimensions 206 x 136 x 53mm (length x width x height)
- Weight with disk cartridge 1040g
- Solid State Disks / Hard Disks, 500 GByte, 1 TByte, 2 TByte
- PSU 10V – 30V input. DVR itself draws 12W 12V 1.2A output (buck mode) for cameras etc. 5V 1A output (buck mode) for ancillary equip. 48V PoE output (boost mode) on all 5 ethernet connectors. 20W total PoE output.



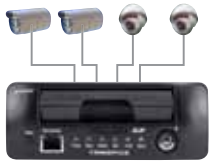
10V - 30V input
4 Audio outputs (line level)
4 IP Cameras with Power over Ethernet (PoE)
Budget mic. input
Main video output
4 PAL / NTSC camera inputs
4 recording studio quality mic. inputs
Aux video output
12V out for camera power etc.



TIMESPACE

Timespace X500

DRIVING SECURITY



Stand alone recorder



Live view using Reviewer or video out to monitor



Review recordings directly from a removable cartridge



Multi-channel live view and wireless download of recordings

Performance

PAL/NTSC (analogue) Cameras

Video recording global image rate (analogue only)	100 IPS
Analogue video inputs	4
Image rates Min – Max	1 – 25 IPS PAL, 1 – 30 IPS NTSC
Image Resolution (pixels)	2CIF – 720 x 288 2CIF – 720 x 240

IP Cameras

Image bit rate – quality setting	50 – 200 kbits / image
IP video inputs	4
IP Camera Resolution	1080p, 4k & higher
Image rate Min – Max	1 – 30 IPS
IP Cameras (global bit rate max)	100 Mbits/s

Audio

Audio microphone input	4
Audio line out	4

Other

Video out	2
Video Streaming Live view – multi channel	25 IPS via RTSP
SD Card recording rate – multi channel	25 IPS
Hard disk capacity options	500Gb, 1TB, 2TB, 3TB, 4TB
SD card capability	4-32GB
G Sensor	3 axis
Alarm input	6 selectable 2V – 24V Level
Alarm output	1 relay, 2 logic out

General Features

- Auto record on power-up or single button start/stop recording
- Recorder status indicators (6 LEDs)
- Simultaneous record, live view and file download
- H264 (MPEG-4 Part 10) compression
- Removable hard disc media cartridge – lockable
- Simple, intuitive menu system with help screens
- Optional embedded GPS for position & speed
- Normal, alarm and motion-triggered recording
- Vehicle data recording
- 7 day programmable timer recording
- Local set-up and configuration using Timespace Reviewer
- Remote control via RS232 interface
- Timer shutdown for power saving wake up on motion for security
- PTZ camera control for remote viewing
- Short circuit protection – video inputs
- Multi ranging PSU with power monitoring diagnostics

PCLink/LANLink

- Remote set-up via LAN or Wi-Fi connection
- File download via Ethernet (FTP)
- PC Multi Cam LiveView, playback, via optional Wi-Fi or 3G router
- Image search by time/date or file name – PCLink
- Quick review alarm event footage markers
- Camera and DVR health check via simple traffic-light colour indicators

Security Features

- Proprietary single file video format XBA
- User and Admin password protected functions
- Each image watermarked (SHA-2 AES Authentication – 256 bit)
- Embedded camera number, date and time in each image
- 12 user programmable embedded characters per channel

Optional Features

- 25 IPS global SD dual recording – SDHC 4GB up to 32GB (24 hours loop recording at 25 IPS super, to SD card No Audio)
- File download via SD card
- Wi-Fi / 3G / GPRS router
- CANLink data recording (view in sequence with recorded footage)

Connections / Interfacing

Analogue Camera	4 BNC Plug
IP Camera	4 RJ45 with PoE
Video out (Main and Aux)	1 BNC Plug, 1 Screw terminal
Audio microphone in	4 Mini XLR
Audio line out	1 Mini XLR (4 output)
Timespace reviewer	1 RJ45
LAN WLAN/3G	1 RJ45 with PoE
GPS/RS232	Screw terminal
Alarm inputs	Screw terminal
Alarm/LED output	Screw terminal
Power input	Screw terminal
Power output	12V and 5V Screw terminal

Physical Characteristics

Enclosure	Extruded Aluminium, with moulded end caps
Dimensions (mm)	206(l) x 136(w) x 53(h)
IP rating	IP50
Operating temperature range (temperature sensor enabled)	-10 to 50°C
Humidity	10 – 90% r.h., non condensing
Mounting plate hardware (included)	Screw-mounted any axis orientation
Power supply input	10 – 30V DC polarity protected
Continuous power – without Reviewer	tbc
Continuous power – cameras on (typical)	tbc
Continuous power – without Reviewer and in sleep mode	tbc
Maximum current – start-up	1.9A with camera and reviewer
Continuous power (maximum)	60W Ancillary equipment dependent
PoE Camera continuous power (maximum)	20W IP camera dependent
External power output	5V DC 1A / 12v 1.2A
Weight – including removable cartridge	1040g

Regulatory Approvals

CE Mark (EN55032:2012, EN55024:2010)
ISO 9001; 2015
RoHS
WEEE



TIMESPACE

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