

# Timespace X500

DRIVING SECURITY



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

## Video

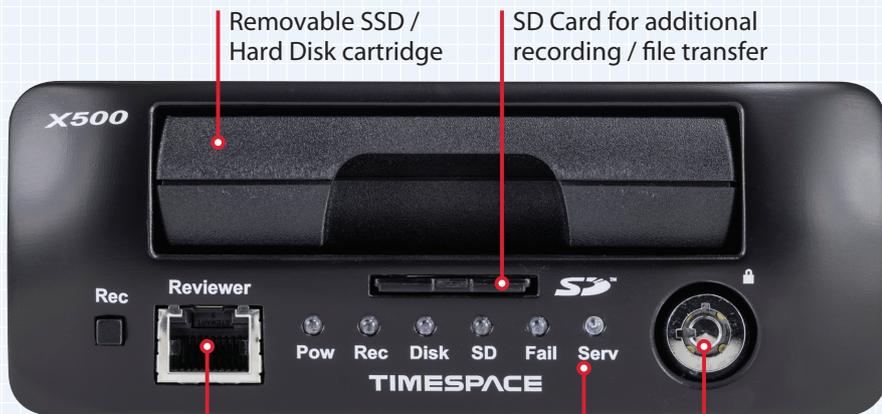
- 4 PAL/NTSC Cameras  
2CIF, 25 IPS x4, H264 compression
- 4 IP Cameras  
Up to 40MPixel cameras supported (future-proofed) including: 1080p cameras (1920 x 1080 – 2MPixel)  
4k cameras (3840 x 2160 – 8MPixel)
- H264, H265 future-compatible. RTSP protocol  
200Mbit/s to disk sustained performance.

## Audio

- 4 high quality mic 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.



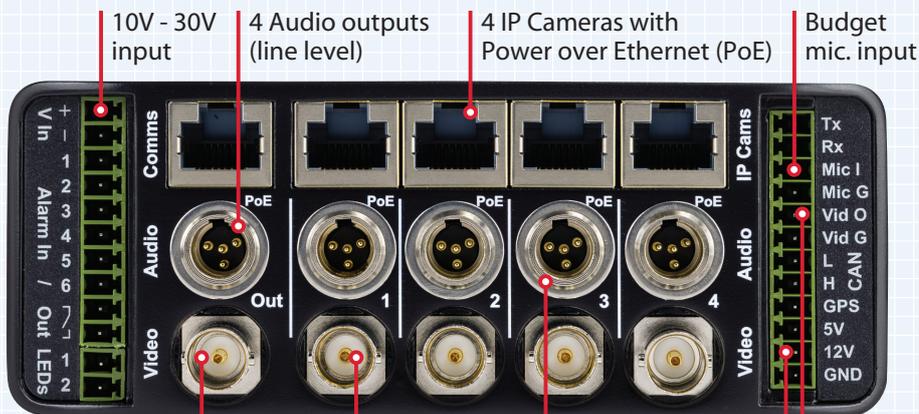
Removable SSD / Hard Disk cartridge

SD Card for additional recording / file transfer

Plug in Reviewer for set up and control

Status

Locked cartridge



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.



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## 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 (analogue only), 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	12 – 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)  
VCA CoP approval  
RoHS  
WEEE

Timespace Technology Ltd reserves the right to amend product specifications without notice and without incurring obligation.



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