

Timespace Technology Ltd • Blackstone Road • Huntingdon • PE29 6TT • England Tel: 01480 414147 • Fax: 01480 414146 • Email: mail@tspace.co.uk Mobile, Portable and Covert Surveillance

> X200 Digital Video Recorder And Product Family



Product Features

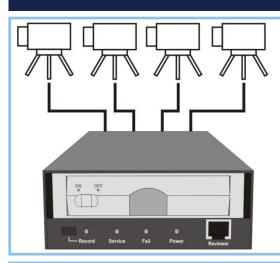
- Small Size, Low Power Consumption
- 4 or 16 video inputs and 2 audio inputs
- Proprietary MPEG format
- 25 images/second
- 4 levels of resolution
- Removable hard disk cartridges up to 250Gb
- GPS / GSM / 3G
- LAN/WLAN/Automatic Download
- RS232 Control / SMS notifications
- Normal, Alarm, Timer or Stills recording
- Motion activation recording
- Vehicle Brake/Indicator Monitoring
- 2 live view video switcher outputs
- Watermarked Images
- Password protection
- Intuitive Controls
- Flexible Menu System with Help Screens
- Rapid Search of Recordings
- 3 year Warranty



PCLink200 Reviewing/Archiving Software

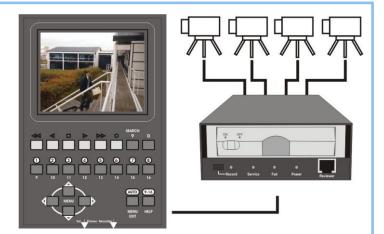
- GPS Mapping
- Image manipulation
- Individual / Multi view / Full screen playback
- Remote DVR configuration

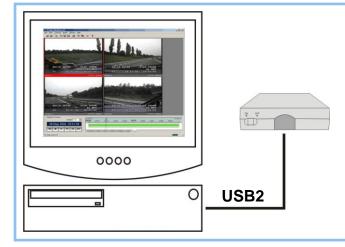
Using the X200 System



The X200 Digital Video Recorder is used With a removable Hard Disk Cartridge to record from multiple video and audio sources.

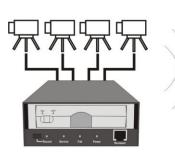
The X201 Reviewer is used for on-site reviewing of video/audio recordings and to configure the optional menu settings of the X200 Digital Video Recorder.

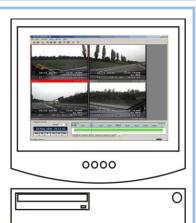




The removable Hard Disk Cartridge is connected to a PC (via USB Kit) to analyse, copy or archive video/audio recordings and to download new operating software.

A Wireless Local Area Network (WLAN) system can be used to download recordings from the X200 in a vehicle to a PC.





X200 Specifications



X200 front panel showing LED indicators, record button and X201 Reviewer connection

X200 4 and 16 camera versions showing the range of inputs and outputs



2 Channel Audio Inputs/Outputs

Video Output 4 Video Inputs



2 LED Outputs

4 Alarm Inputs and Output

Video Recording Max Rate

Resolution TVL Pixels Format

Input Signal

Simultaneous Functions Recording Medium

Recording Modes

Alarm recordings

Timer recording

Motion Activation

Embedded Text

Camera Focus Mode

Audio recording

Type Connections Sampling Rate Sampling Res. Max Level 25ips PAL, 30ips NTSC, shared; selectable by camera Low, Medium, High, V.High 540 720 x 288 PAL; 720 x 240 NTSC MPEG - full image update or optional conditional refresh 4 or 16 inputs; composite video 1V p/p; colour/mono; PAL/NTSC auto-switching Record, Playback, Live views, Ethernet 2.5" IDE PC-compatible hard disk in customised cartridge Normal, timer, alarm, single/multi shot, loop or single pass Post-trigger recording; show alarmed cameras live on video switcher, pre-trigger write protection of existing recordings Weekly timer (7 day programmable) or interval timer, or both User configurable for cameras, areas and sensitivity Camera number, date and time plus 12 user characters for each camera; GPS* speed and position External indication of relative camera focus

Mono or Stereo 2 line inputs; 2 line outputs 16kHz/8kHz 16 bits/8 bits Selectable: 0.12V to 2V RMS (0.35V to 5.6V pk-pk)

X200-16

16 Video Inputs, 1 Video Output and 2 Audio Inputs/Outputs



LAN/WLAN Connection 12V DC Power Inputs

Configuration Entry

Password Date Options Summertime Correction

File System File Type

File Name

File Size File Protection

Playback Functions

Image Search

Remote Operation* Systems Functions Menu system with help screens; accessed (with password) by X201 Reviewer 4 user-definable levels dd/mm/yy; mm/dd/yy UK; Europe; USA; Off

Proprietary ".xba", convertible (with password) to AVI Optional file text plus date/time, for example: "Bus0034 2004 month 08 day 16 12_30_00. xba" 10 min or 1 hour Write-protection via file menu; optional automatic write-protection of alarm/shot recordings

Rewind, Replay, Stop, Play, Fast Forward, Jog mode Time/date or by file

Ethernet (LAN/WLAN*) GSM*, RS232 File transfer to PC (LAN/WLAN*) Configuration of X200 (GSM*, RS232) Shuttle commands (GSM*, RS232) Live camera views (GSM*, RS232) Automatic file download (LAN/WLAN*)

* Additional hardware required - not supplied by Timespace Technology

<u>GPS*</u>

Embedded Text

GPS Data

Clock Lock

Connections/Controls Connector Type

Video Inputs

Video Out

Video Switcher Out

Audio In

Audio Out

Alarm Inputs Alarm Output Power Inputs

GSM* /GPS* /RS232 Control LAN/ WLAN*/ 3G* Reviewer (X201) Record On/Off Indicators LED LED Out

General Security

Power [DC] External PSU Specification

Power Recording Power Not Recording Peak Current

Power on until Recording Clock

Case Dimensions (mm) Dimensions (mm) Weight Environment Operating Temp. Range Storage Temp. Range Mounting Warranty

Approvals EMC Position (coordinates) and speed (kph or mph) Files contain GPS position/speed/time for mapping Locks X200 clock to world GPS clock

Cable harness (X200-16) Individual connectors (X200-04) 16 on 25-way "D" connectors (X200-16) 4 x BNC (X200-04) 1 on 25-way "D" connector (X200-16) 1 x BNC (X200-04) 2 on 25-way "D" connector (X200-16) 1 on BNC connector (X200-04) 2 line on 25-way "D" connector (X200-16) 2 line on DIN 5 way audio socket (X200-04) 2 line on 25-way "D" connector (X200-16) 2 line on DIN 5 way audio socket (X200-04) 4 on screw terminals 1 on screw terminals 2.5mm DC socket for PSU (2.5 x 5.5 x 9.5mm) 1 x pair screw terminals, 12V 9-way "D" connector (RS232 serial) RJ45 (rear panel) RJ45 (front panel) Push button (menu disable) Power, Recording, Service, Fail 2 x screw terminals to duplicate Record, Service, Fail and Power LED Proprietary files; password protection;

fragile watermark every image (MD5+DES); embedded camera text 12V DC * Output: 12V DC Regulated, 2A (Continuous) 3A (Peak) 0.60A, 12V (7.2W) 0.48A, 12V (5.8W) 2.8A peak start-up current @ 12V (X201 connected) < 5 seconds TCXO (+/- 1 min/year); optional GPS locked clock* Mild steel, grey painted 210 x 112 x 47 (case) 220 x 116 x 52 (overall) 965g (without cartridge) Indoor use +5C to + 40C, 20% to 80% RH -40C to +65C Free-standing or screw-mounted 36 months

89/336/EEC Generic 95/54/EC Commercial Vehicles Specification 5 UK Home Office

** Designed to be powered from an external power source which complies with the Low Voltage Directive (73/23/EEC).

REMOVABLE HARD DISK CARTRIDGE

X201 Reviewer/LAN/WLAN* while in

5V 1A (PSU supplied with USB

Program menus, check camera

views, review live or recorded images

22 tactile keys with LED indicators

Single channel via built-in speaker

(serial data; video; audio; DC supply);

X200 interface: 8-way RJ45

Data link cable (X200 to X201)

36 months (monitor 12 months)

Aluminium, grey painted

~ 200g depending on type

2.5" IDF

Interface Kit)

143 x 84 x 23

Powered by X200

PAL/NTSC

headphone jack

176 x 120 x 37

0.35A, 12V (4.2W) 3" LCD monitor, TFT,

960(H)]x234(V) pixels

30 months

X200, PC using Interface Kit (see below)

Access

Hard Disk Power Requirement

Dimensions [mm max.] Weight Warranty

X201 REVIEWER

Functions

Operation Power Power Consumption Display

Format Audio Connectors

Case Dimensions [mm] Supplied Accessory Warranty

PCLINK200 REVIEWING/ARCHIVING SOFTWARE

Supplied in Interface Kits; software Availability available to law enforcement agencies Compatibility Recordings made by X200 Cartridge or recordings on CD/DVD, PC Access hard disk (copied or LAN/WLAN* uploaded files). Direct LAN/WLAN* access of recordings on Hard Disk Cartridge installed in X200. Automatic LAN/WLAN* file download software (LANLink) Windows 98, ME, 2000, XP, Vista. **Operating Systems** 2GHz Pentium, 256MByte RAM, Approx. 200Mb Hardware Requirements free disk space, USB2 Optional password on PCLink software Security and on export video to AVI function **Playback Controls** Rewind, jog back, stop, play and fast forward, jump to time, rapid shuttle via timeline. Playback Speed Variable x0.1, x0.2, x0.5, x1, x2, x3, x4, x6, x8, x10 realtime for rapid playback. Features Realtime playback with audio Review archive files on single/ Multi-screen Full screen playback view Copy 10 min or 1 hour files from cartridge to PC Copy images into Microsoft Word etc. Activate and verify watermarks Export video in multiple CD/DVD sized files Stand-alone (no install reqd.) playback software Export video to AVI file

OTHER ACCESSORIES

USB INTERFACE KIT

For access to X200 recordings via USB2 socket of PC; includes software, cables, instructions, PCLink200 software.

VEHICLE MOUNTING KIT

Shock and vibration protection in mobile and portable applications.

* Additional hardware required - not supplied by Timespace Technology



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