



VEHICLE VIDEO RECORDERS

The VVR 1200 is a range of specialist vehicle video recorders for demanding mobile applications.

Specifically designed, tested, certified and guaranteed for 24/7 use in public transport and emergency service vehicles.



DVD Quality Images

The exceptional image quality of the VVR 1200 range is made possible through the total control that Vision Systems Technology have on the image compression hardware and software. Unwanted artifacts and missed frames are avoided through a combination of optimised video algorithms and real-time micro control of image processors.

Resolution and bit rates are user configurable per channel, with a range from QCIF @ 16kbs to 4CIF @ 2mbs. At this upper setting, a VVR recording of a commercial DVD is indistinguishable from the original.

Limitless Image Storage Capacity

All VVR 1200 models have externally located, compact, ruggedized storage modules for mounting in the most conveniently accessible location within the vehicle. Modules can be linked together to provide storage of almost limitless size and flexibility. We can use any combination of 2.5", 3.5", SSD and NAS (Network Attached Storage) devices on the same system.

Fast Image Retrieval

There is a choice of three fast and convenient means of retrieving images:

- Removable hard drive storage accessible via any Windows XP/Vista machine
- WLAN (using optional WLAN equipment)
- Transfer to a portable storage device (USB CD/DVD writer or Flash Disk)

Easy Image Viewing and Analysis

Set up, administration, review of recordings and export of recorded material is by means of client software.

Image Export

Images can be burnt to CD/DVD either using the client software supplied or directly from the VVR. The CD/DVD burning engine is built in ensuring your evidence is burnt correctly every time. The player software is applied to the burnt disc at the same time as the archive footage to aid review by non trained users.

Reliability

Before the release of any variant a rigorous testing programme exposes the model to extremes of temperature, shock, vibration and severe magnetic fields.

Image Transmission

Live and recorded video are available via our built in web server or network client. This allows remote monitoring and systems administration from anywhere in the world (comms dependant). Our highly efficient video compression codec allows for useful images to be received over mobile/cell connections as low as 16kbs.

Certification

EMC	95/45/EC Commercial Vehicles 89/336/EEC Generic MIL-STD 461 Land Class 3
Environmental	MIL-STD 810F

We also produce units with finishes to meet Desert, Naval and Airborne standards to DO-160 and MIL-S-901D requirements.



Technical Specifications – VVR 1200 series DVR



Video Inputs

VVR 1204 4-channel: 4 video channels PAL/NTSC/SECAM plus audio

VVR 1208 8-Channel: 8 video channels PAL/NTSC/SECAM plus audio

VVR 1216 16 Channel: 16 video channels PAL/NTSC/SECAM plus audio

Encoding

Each channel is separately configurable using H.264 (MPEG4 part 10) settable between 16kbps and 2mbps. Configurable resolutions from QCIF to 4CIF at frame rates up to 25/30fps (PAL/NTSC).

Image Storage

Either internal drives (non-removable 2.5" hdd or ssd) or Vision Systems Technology's unique ruggedised external storage modules up to 2.0TB.

Alarm Inputs

8 opto isolated alarm inputs designed to be directly linked to vehicle 12/24vdc electrical systems.

Operating System

The unit runs on a custom built Windows XP Embedded image sitting on its own solid state Disk On Module.

Internal Clock

RTC is onboard with daylight saving handled by the OS (RTC accuracy +/- 1min/year).

Signal Interfaces

BNC Video (via 21 way D-Sub), BNC Audio (line level), 1x PS/2 Mouse, 1x PS/2 Keyboard, 1x 10/100 RJ45 Ethernet, 2x Standard USB2.0, 3x Ruggedized USB 2.0, 1x RS232 (Modem/GPS/PTZ), 1x VGA, 1x SVHS and 1x RCA composite.

Mechanical

Overall dimensions including mounting brackets are 270w x 264d x 93.5h. Weight 2.12KG.

Power

11.5 – 24vdc input. Power on/off state via ignition with 20 minutes timer. 12vdc and 5vdc regulated outputs rated at 20W per output current limited.

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