



TransVu 3 DATA SHEET

Transport environments can prove harsh for electronic equipment, with exposure to repetitive shocks and vibration proving too much for some electronic systems. Specifically designed for public and commercial transport applications and encased in a rugged metal chassis, the TransVu unit can withstand this tough environment to provide uninterrupted in-vehicle security surveillance.

Rugged Design

Designed to conform to ETSI 5M2 (road) and EN 61373 (rail) standards, with an anodised aluminium enclosure and aerospace grade suspension bushes, the TransVu can withstand prolonged exposure to the vibration and shock that is typical of road and rail transport.

TransVu Media

The TransVu Media variant allows advertising or customer information to be shown to passengers. User programmable, TransVu Medias' messaging system uses industry standard programming languages such as JavaScript. The messaging can be location specific, advertising shops or attractions on the vehicle's route. In addition, text can be overlaid with the images to add specific messages to customers. Additional revenue benefits can be realised by deploying a flexible advertising solution such as this.



Logging of Vehicle Systems

TransVu supports logging of vehicle systems such as engine speed, vehicle speed, use of indicators, brakes etc. Harsh braking and turning are logged as events, the on-board accelerometer constantly logs these forces and on playback displays on screen graphs accurately displaying turning, accelerating and braking forces.

GPS

Through the use of an optional GPS unit, positional information can be relayed to a control room which may be integrated with moving map displays. GPS routes can be created and vehicles that are "off route" can be tracked and intercepted, ideal for security applications or where vehicles need to remain on a set route. The TransVu can support an external GPS module using serial connectivity.

FEATURES AND BENEFITS

- Mobile DVR specifically developed for public and commercial transport applications.
- 16 camera inputs.
- IP and Megapixel Camera compatible.
- Record Rate of 400pps across unit.
- GPS, accelerometer and vehicle systems data all linked to video footage.
- Option for second Ethernet port for AOE storage or IP camera connections.
- Programmable general-purpose indicator outputs.
- Realtime multiscreen display output for all cameras in live and playback Spot monitor output.
- Monitor output for view / replay or media output (optional).
- Optional media support for advertising and public address.
- IP only version available (build to order).
- Full Configuration of the product using on-board monitor GUI.
- Ignition controlled shut-down with configurable time delay.
- Audio output for on-board multi-media or passenger announcements.
- Removable hard drives.
- 3-axis 2g to 8g full deflection auto-configurable accelerometer, (enables product mounting in any orientation).
- Heater option available for extreme cold climates.
- Location tracking using GPS*.
- Wireless LAN Compatible.
- GSM/SMS/GPRS/UMTS(3G)/HSDPA/HSUPA/HSCSD support.
- Composite local main monitor outputs.
- Low power consumption.
- Spot monitor output.

TECHNICAL SPECIFICATION

Camera Inputs

16 camera inputs. Camera Masking Detection, Auto detection on power up. Alarm on camera fail. Support for IP and Megapixel cameras.

Record Rates

Max 400pps (PAL) across the unit.

Compression

JPEG, H.264 and MPEG-4 format files.

Record Profiles

MultiMode recording allows record profiles to be set on a per-camera basis.

Monitor Viewing

Main Monitor: Composite.

Spot Monitor: Composite.

Audio

Line in: 2 x 1v pk-pk or configurable for electric microphone input.

Line out: 1 x 1v peak to peak.

Local and network audio record and playback.

Recording Media

1 or 2 Removable SATA hard drives (in separate, lockable drawers). Up to 4TB of internal storage. Solid state option.

Alarm Inputs

8, individually configurable (6 pre-configured as alarm inputs, 2 pre-configured as frequency counts).

Auxiliary Relays

2, independent software control.

Accelerometer

3-axis accelerometer to provide g-force measurements in various orientations.

Third Party Integration

PowerScript feature assists in the integration between the TransVu and third-party products enabling powerful unique applications to be created.

TransVu Status Module

Provides visual messages to the vehicle operator as to the status of various components of the TransVu unit. Status messages include; power status, camera fail, recording status, alarm status and camera masking. The module is available as an optional accessory.

Panic Button

Striking a driver's panic button instantly alerts a central control station and can transmit images of an emergency over any network to which the TransVu is connected.

Rapid Deployment

The low current consumption required for operation combined with the unit's mobility makes the TransVu product range ideal for rapid deployment applications where solar power with backup batteries provides the power.

Resolution

QCIF, CIF, 2CIF and 4CIF resolution.

Data Ports

Serial Ports: 1 x RS485, 1 xRS485/RS422 and 3x RS232. Can be used for interface to external GPS, GPRS, modems or Telemetry control of cameras.

Ethernet: Single or Dual Ethernet ports 10/100

USB: 1 x USB 2.0 Connector for archive, USB mouse, or touch screen monitors.

Canbus 2.0 port.

J1708 port.

Enclosure

IP65 minimum ingress protection,

Anti-vibration mounts,

Optional heater to enable operation to -20C ambient.

Weights & Measures

Dimensions: 120mm (4¾") (H) x 253mm (9¹⁵/₁₆") (W) x 317mm (12½") (D)

Weight: 10 kg (22.0 lbs) (dual removable drive)

Power Supply

+11Vdc – 42V dc12V, 5V individually software switched Ignition and low voltage sense.

Dedicated input. Integrated +12v @ 3A and +5v @ 2A protected PSU for powering external equipment.

Temperature Range

TransVu (Diskless): -5C to 70C (23°F to 158°F)

Disk Drive: 5C to 55C (41°F to 131°F)

Solid State Disk Drive: 0C to 70C (32°F to 158°F)

Extended Options

GPS, Individually managed camera power outputs Single or Dual Drive.

Warranty

3 years warranty including HDDs.

Approvals EMC

2014/30/EU, Electromagnetic Compatibility Directive.

Shock and Vibration

IEC 61373:1999

BS EN 50155:2001

IEC 60571 Ed. 2.0b:1998

ETSI EN 300 019-2-5 V2.1.2 (2001-09)

Environmental

Temperature

IEC 60068-2-1

IEC 60068-2-2

BS EN 50155:2001

IEC 60571:1998

Note: the above approvals refer to current standards. Where appropriate, the latest revisions will be applied to the latest generation of TransVu products.

* *Via Suitable Interface*

ORDERING INFORMATION

Part Number	Description
TV3/16/0T/C2I	TransVu 3, 0TB, Dual Caddy.
TV3/16/2T/C2I	TransVu 3, 2TB, Dual Caddy.
TV3/16/4T/C2I	TransVu 3, 4TB, Dual Caddy.



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