

V8442-XX-XX 1U DBFO DVD RECORDER



FRONT VIEW

Unit Description

This is a mobile PC-based solution for recording camera images overlaid with Text data from Traffic Monitoring Equipment (ADR) while capturing log files and handling all interaction with the ADR automatically. Using MPEG encoding to hard drive or to DVD, it compresses the image as necessary to fit on a single disc depending upon the recording duration chosen. It is capable of starting and stopping recording at preset times, overlaying site data including its ID and GPS LAT/LON position, comparing the ADR timestamp with actual time, logging onto the ADR and requesting the traffic data stream. It stores the raw flow data and can burn the DVD at the end of recording from the hard drive copy. Precise Time references are obtained from an external GPS/MSF module (V8441). It is fitted with the V8421 Text Overlay Unit, which strips the incoming stream of data not required for display, and reformats the text order to suit the required on-screen presentation.

Display Characteristics

Operating with colour or monochrome cameras, the text display consists of text, 6 lines by 28 characters located at the bottom of the screen. New incoming data is displayed at the bottom of the screen then all the text is scrolled upwards, ensuring that the last 6 entries are on-screen at the same time. Maximum display latency for overlay is 20mSec. Other non-PVR data is displayed in fixed preset positions. A PC video monitor output is provided to monitor the equipment operation.

Specification

Power in	12V dc 5A max +-10%
Video in	PAL, 1V pk-pk into 75 ohms
Serial input	RS232 38k4 baud 8 data, 1stop
DVD	DVD+RW, CDRW. Min. burn 1hr, max 24 hours per DVD.

Controls	Record start/stop, PC on/reset, Rec/Play mode
Indicators	Power, Recording States: waiting, Recording, HD activity, Burn DVD, Finished Sequence
Connectors:	Video In, Cam Monitor: BNC 75 ohm,isolated ADR: RS232 9 way D male Power: 2.5mm DC socket Camera: 6 way HR30 combined: 12V power, GPS and MSF timecode inputs Link: 12V out, ADR Serial RS232 9600Baud,8,n,1, ext. DVD det. PC: keyboard, mouse, VGA, video monitor (PAL), 100 Base-T Ethernet x1, USB2.0 x 2, (IEEE1394 Firewire optional)
PC:	
CPU	C3/Eden 1GHz,
Memory	DDR 266Mhz, 256MB fitted
Hard drive	80GB, 7200RPM, 8mSec, UltraDMA 133
Record format	MPEG2 (high res mode) MPEG4 wmf format depending upon duration and quality requirements.
Recording Resolution:	720 x 576 Pal HI-res mode 384 x 288 MPEG4 long-duration modes (> 2hour) at 20fps typ. 720 x 576 long-duration at 12fps typ. Depending upon scene.
Operating Sys	Windows XP Pro

Operation

Required operations are normally preselected from the DVD setup file. Alternatively, it can be manually setup on site for basic operation with recording to hard drive with no DVD. A CD based setup file may be

used if DVD storage is not required. The unit may be set for automatic or manual modes of operation, In Auto, the unit starts a record/burn cycle on power on, then powers off when finished. In manual mode, the operator depresses Start/Stop Recording as needed. All transactions with the ADR are automatically started and stopped. No keyboard, mouse or VGA monitor are required in normal operation.

The Hard drive size typically allows 45 2 hour recordings to be made. If not burned to DVD, they can be uploaded using the fast Ethernet port provided to a host PC.

Construction

Enclosure 1U 19" rack mount with shortened depth to fit confined enclosures. Front panel overlaid with Perspex to protect legend.
 Dimensions 440 (excl mountings) x 242 x 44.60
 Weight 4kg

Supplied with:

- Mating connectors
- Operating instructions.

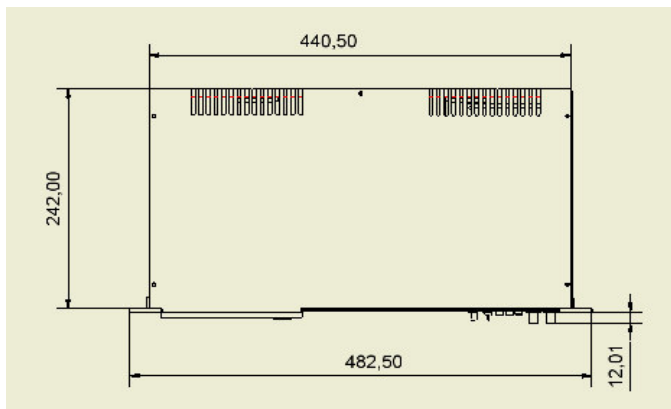
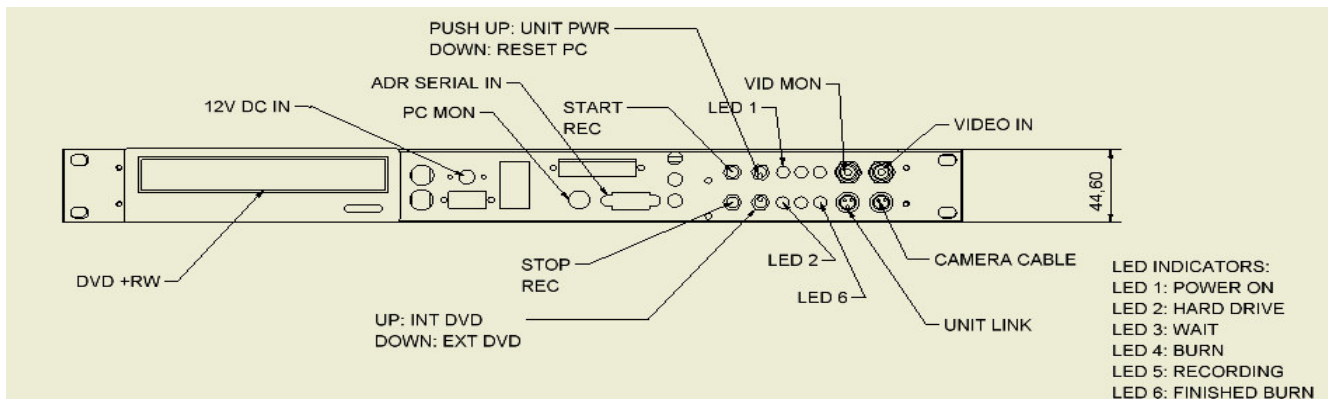
Warranty: 1 year limited warranty

Environmental:

Operating temp -10 - +35C
 Storage temp: -20 - + 60C
 Versions available: V84421-02-
 - 03-PT (Peek Traffic ADR4000)
 - others to special order

Options: larger Hard drive
 MPEG4 recording only
 Digital camera interface Firewire

Note: Firmware reconfiguration may be required to suit the interface equipment at additional cost.



UNIT LINK CONNECTOR:	CAMERA CONNECTOR:
1 12V OUT	1 12V
2 0V	2 0V
3 SPARE	3 GPS SERIAL IN
4 OVERLAY SERIAL 9600	4 MSF PULSE IN
5 SPARE	5 SPARE
6 EXT DVD DETECT	6 SPARE

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