VIDEO MOTION DETECTION
- 80x64 pixel VMD detection resolution
- Programmable VMD grid with 16 individually definable zones per camera
- 3 different modes: Static, Last Trigger, Normal
- User-definable sensitivity for each zone
- Pre and post activity recording, definable by user
- Change camera recording rates on activity
- Notify user of activity over Ethernet, ISDN and PSTN
- Stores all VMD instances in events database
- VMD images can be protected on HDD
- Global VMD relay
- Linkable to alarm zone

IMAGE PROTECTION/UNPROTECTION
- All images tagged as an alarm will be automatically protected
- Non alarmed video footage may be user selected using time/date, from/to for image protection.
- Protected images may be manually unprotected

DIGITAL SIGNATURE
- Automatic MD5 Finger Printing on FTP download and on demand via software GUI

ARCHIVING
- All archiving is achieved via FTP on
  Scheduled
  Manual request (time/date from/to)

SCHEDULE
- 7 day schedule
- 10 definable holiday schedules

AUTHENTICATION
- Configurable password over network for;
  Viewing
  Playback
  Configuration
  Telnet
  FTP
  Serial port configuration

ADDITIONAL EXPANSION
- 2 x DM Bus (RS485)
  1 x CIO1 (Alarms – expanding to max 21)
  2 x CIO2 (Relays – expanding to max 34)

MULTILINGUAL SUPPORT
- English
- French
- Dutch
- German
- Spanish
- Italian
- Portuguese
- Arabic

SUPPORT APPLICATIONS
- DVIP Viewer
- VCR Playback Utility
- Watermarking Utility
- Database Editor
- Backup Utility

BROWSER SUPPORT
- IE 5.5 and Above
- Netscape 4.7 and above

DEVELOPERS SUPPORT
- Java (Via the DM SDK Software Developers Kit)

TEMPERATURE RANGE
- Operating Temp 5 to 45°C (41 – 113 °F)

RELATIVE HUMIDITY
- 5% to 85% Non condensing

DIMENSIONS
- 85mm (H) x 225mm (W) x 322mm (L)

PSU
- Input Voltage – 110VAC to 230VAC 50/60Hz
- Output Voltage – +5, +12, -12 VDC

COLOUR – CASE
- Silver – Pantone 877

Note[1] Please contact customer services for availability.

Note[2] BS-8418 is a ratified code of practice for detector activated CCTV systems reporting alarms to remote video receiving centres.

Note[3] Some telemetry devices will require an RS232 to RS485/RS422 interface, not supplied.

PLEASE CHECK THE WEBSITE FOR LATEST DEVELOPMENTS

FOR FURTHER INFORMATION PLEASE CONTACT

REF: DM09/04

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preliminary data sheet

DV-IP ATM

ATM Security

ATM machines operate a service of convenience, which is taken for granted by most of the general public, however these cash points are nothing more than dumb tellers which are open to abuse by the criminal underworld. Popular crimes include; card skimming, shoulder surfing, and straight forward theft.

To help the financial sector combat ATM crime, and the fraudulent use of debit/credit cards Dedicated Micros designed the DV-IP ATM. The unit is specifically sized for installation within the confined conditions of an ATM machine. DV-IP ATM processes transaction data which is then recorded with the video footage. Post event analysis via the built in text search engine provides video imagery of the ATM user plus transaction information. This will then allow the branch customer services team to quickly resolve any genuine customer withdrawal disputes. Spot monitor support provides a visual deterrent which helps to assure customers and staff of a safe and secure cash withdrawal facility.

DV-IP ATM is a professional network video server, and is designed to meet the demands of 24 hour video surveillance using new or existing IP enabled computer networks.

The video servers provide a cost-effective means by which you can record and distribute video from your CCTV cameras to any computer on the network, anytime, anywhere.

The DV-IP records high quality images locally in M-JPEG format, ensuring recording continues in the event of network failure, and features data streaming in MPEG-4[1], to allow IP data transmission over low bandwidth connections.

The units also feature false alarm management, tamper-proof alarm-handling, secondary signalling, fault tolerance and comprehensive logs in full compliance with BS-8418, critical for central monitoring station applications.

Benefits

- 4 CAMERA INPUTS
- HIGH QUALITY M-JPEG RECORDING AND SIMULTANEOUS MPEG-4[1] COMPRESSION FOR LOW BANDWIDTH PLAYBACK/LIVE VIEWING
- DESIGNED FOR CENTRAL MONITORING APPLICATIONS (BS-8418[2] COMPATIBLE)
- ATM INTEGRATION VIA RS232 OR ETHERNET
- AUTOMATIC CONNECTION TO REMOTE VIDEO RECEIVING CENTRE ON ALARM
- HIGH RESOLUTION VMD, 16 ZONES SELECTABLE PER CAMERA
- BUILT-IN WEB SERVER
- ALARM INPUTS CONFIGURABLE FOR TAMPER OR NO/NC OPERATION
- RELAY OUTPUTS, AUTOMATIC OR MANUAL OPERATION
- TRANSMISSION OVER ETHERNET, DSL, CABLE, ISDN AND PSTN*
- HYBRID SYSTEM - WILL NOT STOP RECORDING EVEN IN EVENT OF NETWORK FAILURE
- UN-INTERUPTED RECORDING, DURING PLAYBACK, BACKGROUND IMAGE ARCHIVING, MULTIPLE USER VIEWING
- SERIAL TELEMETRY SUPPORT
- SPOT MONITOR OUTPUT FOR VISUAL DETERRANCE
- FULL DUPLEX AUDIO WITH RECORDING
- AUTOMATIC IP ADDRESS DESIGNATION WITH DHCP
- BANDWIDTH LIMITATION FOR ETHERNET/DIAL-UP NETWORKS
- 24/7 SCHEDULING, 10 HOLIDAY PROFILES
- SDK AVAILABLE FOR PROJECT CUSTOMISATION

*VIA SUITABLE MEDIA INTERFACE – E.G. ROUTER

DV-IP ATM

Professional Network Video Server

The DV-IP ATM range features a 4 input high performance TCP video server capable of recording up to 50pps PAL/60pps NTSC. DV-IP ATM is based around an embedded real-time operating system, this provides a reliable and cost-effective way of digitising, recording and distributing high quality video across a network or internet to a viewer's PC

NETWORK CONTROL

Control of DV-IP ATM is achieved over Ethernet either by proprietary software or via a standard web browser. Pre-loaded WebPages allow for setup, configuration, image archiving, live viewing, telemetry and playback.
For ease of configuration DV-IP ATM will interface with a DHCP (Dynamic Host Configuration Protocol) server to automatically assign an IP address and other relevant IP settings. DV-IP ATM also supports manual IP address assignment. Bandwidth Restriction ensures image transmission only uses allocated bandwidth.

RECORDING

Simultaneous recording and playback from any camera continues uninterrupted whilst other images are being viewed live. The DV-IP ATM also allows for the resolution of viewed images to be dynamically altered maximising live viewing performance over the available bandwidth.

LOW BIT RATE VIDEO

MPEG-4 is a video compression standard which provides a means to distribute live/recorded video over low bandwidth or bandwidth constrained networks efficiently. This functionality is independent of the recording process. High quality JPEG images may be downloaded separately if required for evidential or archiving purposes.

TEXT INTEGRATION

Using the optional accessory ECOM/ATM (purchased separately) transaction data can be captured. The ECOM/ATM interfaces with the ATM machine via RS232 or Ethernet, the native protocol is then processed, reformatted and transmitted to the DV-IP ATM unit for recording with the video. It is possible to perform retrospective searches on captured text via the pre loaded web pages and other text enabled applications generated via the SDK. Text tools are also available via the SDK enabling integrators to create powerful custom applications.

ALARMS

4 (selectable tamper or NO/NC) and 1 (NO/NC) alarm inputs allow for the integration of PIR, teller panic buttons and safe door contacts etc into the CCTV system. Using the alarms in tamper mode allows the type of alarm to be determined e.g. tamper, warning low resistance, warning high resistance etc.

2 light duty relay outputs are also provided offering further flexibility in executing remote tasks such as remotely switching on lights and opening doors. Relay outputs can also be configured as part of an alarm response and executed the split second the alarm is tripped. Unlocking DV-IP viewer provides alarm receiving functionality (RVRC) where notification of alarms can be over Ethernet, PSTN or ISDN ensuring incidents are never missed. DV-IP ATM supports a total of 21 alarm inputs when using a remote alarm module(CI01) and allows a maximum of 34 relay outputs via relay output modules (CI02).

TELEMETRY

On screen telemetry control is supported over RS232 offering support for Dennard, BBV, Pelco, Panasonic, Kalatel, Phillips, VCL/Ademco, American Dynamics cameras and domes. Note for some manufacturers an RS232 to RS485/RS422 adaptor may be required.

Priority control ensures that operators do not get into a 'tug of war' scenario when operating PTZ cameras. Telemetry control is locked out for other users until a timeout has expired, ensuring an operator can position a camera without interference.

SECURITY

DV-IP ATM features a built-in firewall for intrusion detection and protection. Network PING responses can be disabled, it is no longer possible to stumble across the server, by 'Pinging' address ranges. Coupled with Trusted IP addresses and the ability to open specific TCP and UDP ports the DV-IP ATM is configurable for use on any network large or small.

DV-IP ATM can be configured to emulate a remote keyboard offering control of third party matrix connected telemetry cameras. Supported matrices include Ademco/VCL, American Dynamics, BBV TX1000/1500, and DM star commands.

Specification

CAMERAS
- 4
- 1V Pk-Pk Video Input
- PAL, NTSC
- Colour, Mono mix
- 75Ω Camera Termination provided in software

MONITOR OUTPUT
- 1 Analogue spot output
- Full screen
- Full screen sequence

COMPRESSION
- M-JPEG (Video)
- MPEG-4[1] (Video)
- ADPCM (Audio)
- User definable image file sizes

RESOLUTION
- Sample rate 13.5MHz to CCIR 601

- JPEG
  PAL – 640x256, 720x256, 768x288, 640x576, 768x576
  NTSC – 640x240, 720x240, 640x480, 720x480,

- MPEG-4[1]
  PAL – 176x144, 352x288, 640x256, 720x288
  NTSC – 176x112, 352x240, 640x240, 720x240
  Configurable bit rate from 64kb/s – 1Mb/s

RECORDING
- 50 PPS PAL
- 60PPS NTSC
- Variable record rate selectable per camera
- Simultaneous, recording, viewing, playback
- Time/date stamping of all images
- Event recording
- Looped recording
- Variable record rate per camera

AUDIO (MONURAL)
- 2 x Audio Inputs – Phono
- Full bi-directional audio with recording on each input software selectable
- 8Khz Sampled
- 47KΩ input impedance

- 2 x Audio Output - Phono
- 47KΩ output

NETWORK SUPPORT
- RJ45 Connector
- 10/100 BaseT Auto Negotiation (or forced 10BaseT)
- Network Protocols Supported; IP, TCP, UDP, DHCP, FTP, TELNET, ICMP, HTTP, ARP ,
- Configurable port numbers for HTTP
- Built-in firewall for intrusion detection and protection

SERIAL PORTS
- 4 x Serial Ports comprising;
  2 x Full RS232 (9 wires)
  2 x RS232 (3 wires)

SERIAL PORT OPERATIONAL MODES
- PPP, Telemetry, Matrix Control, Debug, ASCII Text

FRONT PANEL STATUS
- Network activity
- HDD activity
- Power

TELEMETRY
Serial
- Dennard - RS485[3]
- Panasonic - RS485[3]
- VCL - RS485[3]
- Kalatel - RS485[3]
- American Dynamics - RS422[3]
- Philips - RS232 - Biphase
- Pelco 'P' - RS422[3]

Storage Guide.

RECORD DURATION	IMAGE QUALITY* LOW 14K	MEDIUM 18K	HIGH 25K
	DISK SIZE		
1 day	4.8GB	6.2GB	8.6GB
7 days	33.6GB	43.4GB	60.2GB
30 days	144GB	186GB	258GB
60 days	288GB	372GB	516GB
90 days	432GB	558GB	--------

* 4PPS global used as a benchmark for above calculations.

INTERNAL HARD DISK STORAGE
- Up to 600GB maximum at the time of going to press

MATRIX CONTROL
- Ademco VCL – RS232
- American Dynamics – RS232
- BBV Serial telemetry – RS485[3]
- DM Star Commands – RS232

ALARM CONTACTS
- 5 x Alarm Inputs Total
  4 x General Alarm Inputs (tamper or NO/NC selectable)
  1 x Global Alarm
- Normally Open/Normally Closed software selectable
- Tamper selectable

ALARM SUPPORT
- Tamper (Resistance)

0 - 800Ω	Tamper (Short circuit)
800 - 900Ω	Warning - low resistance
900 - 1.2kΩ	Normal (closed)
1.2 - 1.3 kΩ	Warning - high resistance
1.3 - 12 kΩ	Alarm (open)
above 12 kΩ	Tamper (Open circuit)

- Voltage Free
  Closed contact operation
- VMD Trigger
- Camera Fail Trigger

BS-8418 SUPPORT[2]
- Tamper proof alarm inputs
- Nuisance detector management
- Application watch dog
- Comprehensive system logs
- Secondary signalling support via relay contact
- Modem port for secondary signalling
- Relay system set/unset notification
- Entry/Exit routes for alarm inputs

RELAYS
- 2 onboard light duty relay output (500mA @ 12V-48V Max)

All relays are selectable for the following;
- Global alarm/user definable
- Global VMD/ user definable
- Global camera fail/user definable
- Set/Unset notification (BS8418[2] support)
- Primary signalling failure (BS8418[2] support)
- User definable