Dallmeier electronic

WAVELET

DVS 600

IFSEC SECURITY INDUSTRY AWARDS OVERALL WINNER 2003

OVERALL WINNER

identical built to DMS 180 III

DVS 600

Intelligent video motion detector with high performance picture store for outdoor and indoor applications

When you are monitoring highly sensitive government, local authority or industrial sites you need to concentrate on essentials: on alerting security staff quickly and efficiently.

Dallmeier electronic has designed the hybrid DVS 600 - a complete recording system and a high performance motion detector all in one - for precisely this kind of application. The technical configuration and the built-in picture store are based on the quality hardware platform used in the DMS180 III.

The risk of false alarms is minimized by using special picture processing algorithms and alarm message connectivity. Picture processing algorithms differentiate between „real" detection objects (e.g. a human) from „false" detection objects (e.g. an animal) and filter these out before processing further. With alarm conditions linked together an alarm is only triggered when several alarm conditions coincide (e.g. light beams, motion detectors,...). When the picture is switched directly to a security control room the alarm messages can be quickly verified by viewing the relevant pictures and further measures instigated immediately. The product is easy to install and straightforward for the installer to set up. Communication is fully compatible with all other Dallmeier products, so PView software can be used for analysis and verification.

High performance directional analysis and 3D perspective extend the system's potential uses into demanding outdoor environments such as in property monitoring, car park space management, process or traffic flow monitoring. The DVS 600 meets individual needs for comprehensive, seamless, round-the-clock un-manned property monitoring.

Linux security operating system - because you can't compromise with security

Linux

TECHNICAL FEATURES

- LAN Ethernet interface activated
- False alarm suppression using digital filters (e.g. noise, snow, rain)
- Intelligent object analysis (size, direction, speed)
- Object size determined with reference to perspective
- Object behaviour analysis = object tracing (provides additional detection security)
- 2 digital control inputs for options
- Relay output for each channel
- Connection with external signals via digital potential-free contact inputs

FEATURES

- Completely remotely configurable
- SEDOR technology: built-in security for automatic camera sabotage recognition
- SmartFinder
- Comprehensive self-diagnostic and monitoring mechanisms
- Operate via VGA or standard CVBS monitor
- Easy installation/servicing via removable BNC connection block, fan door with easy-change filter
- PRemote: MPEG-4 – fast picture transmission
- Maintenance-free operation

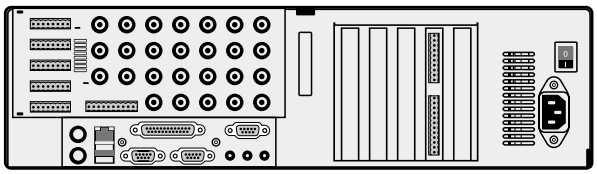
CERTIFICATIONS

- Certified by UVV-Kassen and Kalagate
- Network approvals for IZB, DVS and FIDUCIA

www.dallmeier-electronic.com

DVS 600

Back Panel



Detection process

Software-controlled scanning of each channel at 8 fields/sec with a local resolution of 4,096 fields in the video picture, measurement of the differential brightness change for each of the four alarm zones, correction for object speed using various comparative time periods within a picture ring buffer, analysis process determined by a separate RISC processor for each channel.

Picture processing

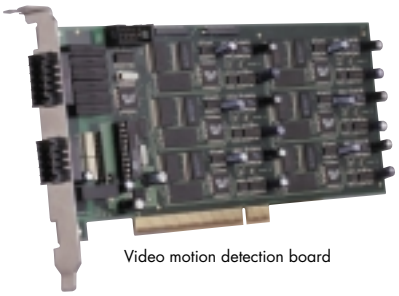
Three digital filters for suppressing false alarms (noise, snow, rain, etc.), simultaneous detection of up to 20 simultaneously moving objects, directional analysis for 8 definable directions of motion, three dimensional picture analysis.

Statistical evaluation, alarm handling

Analysis of four alarm zones with freely-configurable shape and positions, main and pre-alarm, configurable minimum and maximum object size, free logical connection of all alarm signals, linkage across all channels. Detection alarm by potential-free contact or to up to 8 different alarm receivers via Ethernet.

Other functions

Four independent set-up memories with both time-controlled and contact-controlled switching. The fields where moving objects have been detected are recorded in the alarm memory and transmitted together with the live picture via Ethernet/ISDN as well as being displayed using PView/PRemote.



Video motion detection board

SPECIFICATIONS

Details of the software, picture store, recording and backup options are identical to those of the DMS 180 III. Please refer to the relevant product leaflet for this information.

The standard version has 6 camera channels and has 6 sensor channels activated.

	Camera inputs	Detection channels	ISDN
Standard version	6	6	opt.
Possible expansion	12	6	opt.
	18	6	opt.
	24	6	opt.
	12	12*	not possible
	18	12*	not possible
	24	12*	not possible

Motion detector unit	parallel real-time processing of all 6 video channels by independent flash-RISC processors CCIR/PAL video standard Storage of 4 complete setups (time controlled, and/or contact controlled) Configuration via network with convenient graphical interface
Menu languages	D, GB, F, I, ES, NL, S, FIN, HU, CRO, CZ, SLO, CN**

HARD DISKS

Storage capacity	IDE HDD	min. 120 GB** standard built-in

INTERFACES

	LAN	LAN-on-board Ethernet (10/100 MBit), RJ 45 (activated)
	Contact IN	30 input contacts: 24 x camera-related, 6 x freely configurable input contacts (5 x 8 pin WAGO terminal block), with 4-way function (e.g. hold-up, alarm) 8 input contacts per detection unit (10 pin socket block)
	Contact OUT	5 x freely configurable output contacts, closers or openers with timer function, 10 pin WAGO terminal block 6 output relays per sensor unit (12 pin socket block)
	Serial	RS-232 (2 x 9 pin D-SUB)
	Parallel	1 x 25 pin D-SUB for PC printer
	USB 2.0	3 x USB 2.0 (2 x on rear, 1 x on front)
	VGA	possible connection for VGA-/TFT monitor
	PS/2	Mouse/Keyboard

SOFTWARE

SenViCon	Software for setting up video channels
PRemote	Software for analysis and configuration via LAN/WAN, ISDN, PSTN (MPEG-4)

HARDWARE OPTIONS

MCD 25	Multi Control Display, for multiple picture display with triplex functionality (live picture, replay, PRemote simultaneously) over a VGA monitor
Combi-drive CD-RW	51/4'' Combi-drive: Slimline CD-RW (min. 8x/8x/24x) & Slimline Floppy
Combi-drive DVD-RW	51/4'' Combi-drive: Slimline DVD-RW & Slimline Floppy
ISDN	64/128 Kbit
DFM-1	Radio clock unit (DCF-77)
DNI	Dallmeier Network Interface, inserts data from various external devices (e.g. ATM, cashier systems, access control systems)
VdS mounting kit	hood (protection for rear connections) rigid mount

Other ccessories on request

OTHER HARDWARE DETAILS

Hardware watchdog, real-time clock, automatic summer/winter switching, removable BNC connection panel, sabotage contact/cover contact (VdS compliant), integral temperature sensors (internal and external temperatures), temperature-controlled fan (DFC - Dynamic Fan Control), fascia with integral fan filter (exchangeable without tools)

	Mains voltage	Wide range 95 - 264 V/AC, 50 - 60 Hz, 150 W approx.
	Dimensions	W 425 x H 116 x D 445 mm (with housing feet H 133 mm)
	Temperature	+5° C bis +40° C/41° F – 104° F extended temperature range (VdS compliant) to +55° C/131° F
	Weight	approx. 10-12 kg, excl. internal HDD expansion
	Operating system	Linux

Device security

UL (Kanada & USA), FCC, CE, CB

Interference emission: Category B of EN 55022: 1998;

Resistance to interference: Category B of EN 55024: 1998; DIN EN 60950 (VDE 0805):1997-11 + A11:1998-08; IEC 950:1991 + A1:1992 + A2:1993 + A3:1995 + A4:1996

ACCESSORIES

optical USB mouse Dallmeier-edition (incl. PS/2 adapter), manual, power cable, 2 x 9 pin D-SUB socket with housing, 5 x 8 pin WAGO socket board, 1 x 10 pin WAGO socket board, 1 x 10 pin socket board,1 x 12 pin socket board, software SenViCon

* optionally, the device can be upgraded to 12 detection channels with an additional motion detection card

** current data by request or by referring to www.dallmeier-electronic.com

Product information 05/2004 V 1.1.0. Product specifications subject to change without notice.

Item-No. PB180.600.PBE