

## DIS-1/S and DIS-1/L



### DIS-1/S and DIS-1/L Single Channel – MPEG-2 Network-Video-Codec

This single channel network-video-codec is specially designed for use with security transmission, video and audio recording systems.

Compressed to MPEG-2 standard, the data can be transmitted over the built-in network interface and simultaneously recorded on an internal hard disk. In parallel at the same time, another data stream can be received from the network and displayed on a locally connected monitor.

The picture and sound quality meets the highest requirements, and depending on the configuration, can match DVD quality.

Network transmission complies with international standards and supports unicasting as well as multicasting.

#### A new standard in video/audio technology

This new innovative codec system can be used wherever digital audio and video processing (recording, replay, transmission) is required – with top quality pictures and in real time (25 pictures/s, 50 fields/s). It will be attractive for applications in airports, casinos, light rail systems, subways, railway stations, ports, traffic monitoring situations, larger buildings and other properties, anywhere suitable network infrastructure is already in existence.

#### Advantages

The high picture quality is achieved using the MPEG-2 (video compression) technology. Several codecs can be networked together via a network interface and evaluated using PView software. The built-in Ethernet interface provides the ideal, easy connection to existing networks.

The MPEG-2 recorder is available in the following formats: 1 HU (DIS-1/S) and 2 HU (DIS-1/L).

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

Reliability is fundamental to security. And in a digital environment reliability is based not only on the quality and suitability of the hardware and software, but crucially, on the stability of the operating system. This is the simple but compelling reason why all Dallmeier recorders use Linux. - Because Linux's well-known inherent stability and outstanding reliability are already proven in other sensitive areas such as medical technology and space travel it has to be the first choice for security too.



#### TECHNICAL FEATURES

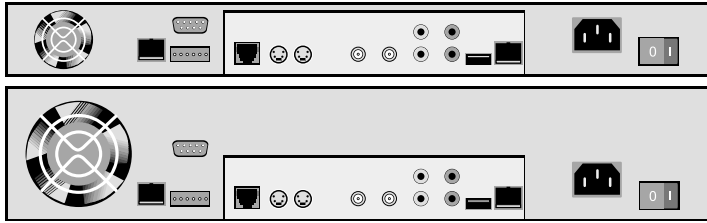
- 1 channel video operation
- Triplex functionality: simultaneous audio/video recording, transmission and replay (receiving)
- Full recorder/player functionality in the network:
  - picture/audio transmission
  - manage using PView (optional)
  - software update via Ethernet (P-Update)
  - Unicast und Multicast
- Easy to operate using on screen display on a CVBS monitor
- Up to 2 HDD\*\* (DIS-1/S) or 4 internal HDD\*\* (DIS-1/L)
- High system stability from use of special RISC processor architecture and real time Linux

#### FEATURES

- Timeshift functionality
- Special replay modes: single frame jog, variable speed and slow motion modes (up to 1024 x replay)
- Built-in picture processing: dynamic noise reduction (DNR) filter
- Built-in picture pre-processing (brightness, contrast, sharpness, saturation)
- Variable recording control (permanent, contact-controlled, time managed, motion dependent)
- Track management: long play track used as ring memory
- Comprehensive configuration settings
- High storage capacity for archiving video and audio data
- Text insertion: date, time in the picture as on-screen display
- DBC (Dynamic Bandwidth Control)

# DIS-1/S and DIS-1/L

## Back Panel



## SPECIFICATIONS

<b>Video Encoder/Decoder</b>	resolution	PAL	NTSC
	frame rate	720 x 576	720 x 480
		6.25 fps	7.5 fps
		12.5 fps	15.0 fps
		25.0 fps	30.0 fps
	GOP structure	configurable	
<b>Audio Encoder/Decoder</b>	bit rate	192, 224, 256, 384 Kbps	
	scan rate	32 KHz, 44,1 KHz, 48 KHz	
<b>Data formats</b>	PS		
<b>Video data rate</b>	constant and dynamic 0.5 MBit/s – 16 MBit/s (MPEG-2)		
<b>Network protocols</b>	RTP, UDP, TCP, IP, IGMP, ICMP, ARP, Unicast, Multicast		
<b>Video standards</b>	MPEG-2 ISO/IEC 13818-2, MP@ML		
<b>Audio standards</b>	ISO/IEC 11172-2 (MPEG-1) Layer II		
<b>Multiplex standards</b>	ISO/IEC 13818-2 (MPEG-2)		
<b>Software upgrade</b>	Flash ROM, remote servicing and update enabled via LAN		
<b>Configuration</b>	via LAN/WAN: PView		
	local: OSD and/or infrared remote operation		

## INTERFACES

<b>Video IN</b>	NTSC or PAL; BNC socket; Y/C (mini DIN 4)	
<b>Video OUT</b>	NTSC or PAL; BNC socket; Y/C (mini DIN 4)	
<b>Audio IN</b>	1 x stereo input on 2 x chinch jack	
<b>Audio OUT</b>	1 x stereo input on 2 x chinch jack	
<b>Alarm inputs</b>	4 x alarm contacts, galvanically separated, inputs via WAGO terminal block	
<b>Serial</b>	1 x RS-232, 9 pin D-SUB	
<b>IR remote operation</b>	multi-protocol compatible	
<b>USB</b>	2 x USB interfaces (1.1) (1 x on front)	
<b>Ethernet</b>	10/100 Base-TX, automatic recognition, semi-duplex/full duplex, RJ-45	
<b>IDE</b>	DIS-1/S	internal IDE interface
	DIS-1/L	internal IDE interface; additional access to HD via IDE controller

## OPTIONS

<b>Hard disk</b>	DIS-1/S	1 HU max. 2 HDD**
	DIS-1/L	2 HU max. 4 HDD**
	maximum storage capacity on request	
<b>PView</b>	software for remote control via LAN/WAN	

## Infrared remote operation

<b>Jog Shuttle</b>	
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## OTHER DEVICE DATA

<b>Power supply</b>	100 V/AC – 240 V/AC, 50/60 Hz	
<b>Medium power consumption</b>	approx. 28 W	
<b>Temperature</b>	+5° C to +40° C	
<b>Humidity</b>	5 – 95 %	
<b>Weight</b>	approx. 5 kg	
<b>Mounting form</b>	DIS-1/S	1 HU
	DIS-1/L	2 HU
<b>Size</b>	DIS-1/S	W 425 x H 43 x D 350 mm (H 51 mm with housing feet)
	DIS-1/L	W 425 x H 80 x D 350 mm (H 88 mm with housing feet)

## Device Security

CE, C-TICK, 1998 EN 61000-3-2, EN 61000-3-3, FCC Part 15  
Subpart B, EN 61000-4-2, IEC 61000-4-3, EN 61000-4-4, EN 61000-4-5, ENV 50141,  
DIN EN 60950 (VDE 0805):1997-11 + A11:1998-08; IEC 950:1991 + A1:1992 + A2:1993  
+ A3:1995 + A4:1996

## ACCESSORIES

### Mouse

### Manual

### Power cable

## MPEG-2 COMPRESSION

Storage capacity for various bit rates (can be set for 6.25 fps, 12.5 fps or 25 fps)

Bit rate	Storage required/GB		
	1 Day	1 Week	1 Month
0.5	5.4	37.8	162
1	10.8	75.6	324
2	21.6	151.2	648
4	43.2	302.4	1296
6	64.8	453.6	1944
8	86.4	604.8	2592
10	108.0	756.0	3240
16	172.8	1209.6	5184

\*\* current size info by request or at [www.dallmeier-electronic.com](http://www.dallmeier-electronic.com)

