

## **4 or 8 channels color digital video recorders**

- High definition: 13,5 MHz - 864 pix/row max sampling rate
- Maximum recording rate 50 pic/sec
- Four user selectable data compression levels
- 80 Gbyte Hard Disk as standard (upgradeable up to 400 Gbyte)
- Playback and live display control by front panel keyboard
- Setting procedure by front panel keyboard and On Screen Menu
- "**Clean Picture**" feature that allows to record ID data without altering the image
- Auxiliary output with full screen and QUAD display
- Automatic recording mode by scheduling, external alarms and motion detector
- Motion detector singularly settable on each camera channel
- "**Manager Bus**" (M-BUS) that allows to connect remote keyboards and additional auxiliary equipment
- Software arrangement for peed domes management
- Hardware for 10/100 base T Ethernet port (RJ45) for remote connection by LAN included (this option may be enabled by software )
- Long distance picture transmission by phone line (option)
- "**4digital**" operation mode: live multiscreen display, recording, playbacing and remote pictures transmission (LAN or phone line)

MiniCOLOR is a stand-alone color DVR that summarizes the experience of ERMES technology in digital video recording field. The moderate cost and the friendly use allow the MiniCOLOR to be placed on anybody's desk and therefore thanks to this innovative device anybody will at last make use of his personal DVR. MiniCOLOR is available with four or eight channels; both versions can work in four different ways at the same time (live multiscreen display, recording, playback and remote pictures transmission).

MiniCOLOR is a highly reliable equipment; it can work with the optional remote keyboard KEY.32 that allows to control the video selection on the auxiliary output as well as the playback remotely.

#### Live Multiscreen Display

MiniCOLOR has a digital auxiliary output that you can connect to a monitors to watch live pictures; this output can display images in full screen, PIP (Picture In Picture), quad or 8-split.

You can control the video selection on this output by the keyboard fitted on the front panel or by the optional remote keyboard.

You can use the KEY.32 keyboard in systems that need to control the video selection and the display mode only; the keyboard KEY.32S has same features and, in addition, it allows you to control the speed dome cameras by means of the DOME.D protocol converter.

#### Recording

MiniCOLOR uses a 80 Gbyte HD as standard, but you can obtain equipment with up to 400 Gbyte HD on request. MiniCOLOR uses the Optimized JPEG compression algorithm that allows to record high quality full screen picture that you cannot distinguish from live pictures when it works in playback.

The total maximum recording rate is 50 pic/sec.

Recording operation, as well as video selection on the auxiliary output, can be automatically activated by means of 3 different criteria: weekly schedule, external alarm or motion detection.

You can set the motion detector on each camera by means of a 256 areas detection grid (16x16), size and sensitivity adjustment.

The user can set the MiniCOLOR easily by the keyboard fitted on the front panel and following the instructions of the On Screen Menu.

The equipment protects the access to the setting procedure by a password; a different password protects the playback of the pictures.

#### Playback

The keyboard fitted on the front panel of MiniCOLOR includes a set of keys similar to those of standard VCR that allow you to playback pictures from the hard disk in very easy way.

These controls include the forward and reverse play, the still, the "picture by picture" forward and reverse play, the forward and the reverse fast play, the first and last picture play. You can search pictures on the hard disk by camera number, date, time. In addition, a relevant option allows you to playback pictures recorder by alarm or recorded by motion detection only.

In playback mode, the user can freely enable or disable the ID data of the pictures by means of the relevant key present on the front panel.

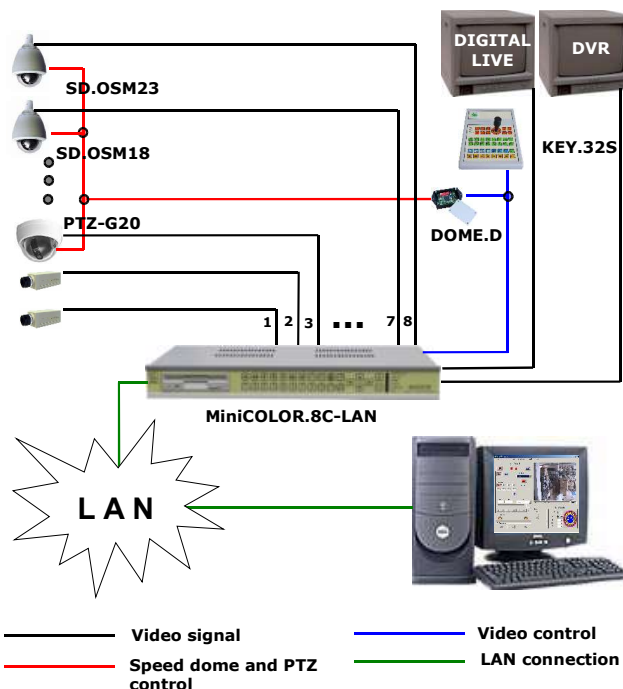
#### Remote Picture Transmission

All MiniCOLORs include the hardware for remote pictures transmission by LAN (RJ45 port) or by telephone line (RS232 port for external modem), but this function must be enabled by means of an unlock code that must be obtained from ERMES.

The enabling code includes the softwares DigiCENTER and **VideoLAN™** that run on a standard PC and that allow you to receive live pictures from cameras as well as recorded pictures from the hard disk in very easy way.

**VideoLAN™** can display live pictures in full screen, in QUAD or in automatic switching sequence mode. The user can search the pictures on the hard disk by camera number, date and time.

If the system uses speed dome cameras, **VideoLAN™** software allows to control completely these cameras by remote.



FEATURE	MDR.4C	MDR.8C
Video inputs - BNC connectors (1 Vpp - PAL)	4	8
Video outputs - BNC connectors (1 Vpp - PAL)	2 (Playback and Auxiliary)	
Output band	7,5 Mhz (-3 dB)	
Sample per line / number of colours	13,5 Mhz / 16 Million	
Max resolution	864x512 pixel	
Maximum recording rate (pictures/sec)	50	
Medium file size (Kbytes) - Compression 13/20/27/33	30 / 20 / 18 / 12	
Medium recording time (hour) - FC: 13/20/27/33 - Recording Rate: 1 pic/sec - Hard Disk: 80 Gbyte	740 / 1.100 / 1.200 / 1.840	
Standard hard disk size (Gbyte)	80	
Playback searching by: date and time / alarm / activity	YES / YES / YES	
Recording by: schedule / activity detection / alarm	YES / YES / YES	
Floppy disk driver for: picture exporting (JPEG), configuration saving and firmware upgrading.	YES	
Aux out display mode: full screen, PIP, Quad, 8-split	YES	
<b>4digital™</b> operation mode (live display, recording, playback and LAN connection)	YES	
External alarm inputs	4	8
Time-Date / character camera ID / character site ID	YES / 20 / 20	
User ioperatin by keyboard with on screen icons	YES	
User settable access code for setting / playbacking	YES / YES	
"M-BUS" for remote keyboard, telemetry, etc.	YES	
Remote pictures transmission by modem or LAN	YES	
Printer output (CENTRONICS)	YES	
Standard	PAL (NTSC)	
Digital Signal Processor	24 bits—150 Mhz	
Data and firmware storage	Flash EPROM	
Main power (external adapter)	110-220 Vac / 50-60 Hz	
Dc power	10,5-18 Vdc	
Power consumption	15 W	
Dimension (mm.)	433 x 44 x 200	

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