



Digital Video Recorders
ATM Recorders
Mobile Recorders



SPECTATOR
VIDEO TECHNOLOGY

*Nieuwstraat 2,
4921 CX Made,
The Netherlands*



Features

- T1 High performance DSP with H.264 Video compression scheme
- Support QCIF, CIF, 2CIF, DCIF, 4CIF
- 25 frames recording each channel in 4CIF resolution
- Supports dual stream
 - Main stream for recording
 - Substream for remote viewing
- Audio recording on all channels
- Bi-directional audio
- External trigger inputs and relay outputs
- Video Motion Detection on each channel
- Max 8 HDD's ,max 2000GB each
- Support USB-flashdisk
- Web interface for easy setup
- Supports commonly used PTZ control protocols
- Dual video output, main and spot monitor
- Built-in DNS service
- Automatic email notification of events with snapshot attachment
- Allows seamless connection to the Spectator Service Center (SSC)

Description

Spectator's DVR-E-PAL series is a high end Digital Video Recorder with Real time recording at 4CIF resolution across all 16 channels simultaneously. Apart from a new look the new E-PAL range comprises major improvements in specifications and functionality. This series is equipped with a substantial storage capacity of up to 16 TB with a provision for 8 HDD's to be installed inside the box. A complete new Graphical User Interface along with the new jog shuttle offers a user friendly interface for local control.

Thanks to the S.M.A.R.T. technology the HDD's are continuously monitored. Only one HDD is active while other disks are in sleep mode. It is now possible to create HDD-groups, video files can be locked to prohibit overwriting, and disks can be configured for redundant storage.

The Spectator E-PAL series are pre-configured for connection to a SSC (Spectator Service Center) to provide enhanced functionality of video alarm verification of incoming alarms at the SSC, remote control of PTZ functions and 2-way audio interaction. In addition remote services like Virtual Guarding, Virtual Gate keeping and VOaaS (Video Observation as a Service) are deliverable using this series of DVR's.

**25 IPS AT 4CIF
ACROSS ALL CHANNELS
SIMULTANEOUSLY**



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Specifications

Type		SP-DVR-4-E-PAL	SP-DVR-8-E-PAL	SP-DVR-16-E-PAL
Video compression		H.264 (QCIF - 4CIF)		
Preview resolution		PAL:704*576(4CIF) NTSC:704*480(4CIF)		
Compression vs framrate	4CIF ips per CH	25	25	25
	CIF ips per CH	25	25	25
Total Frames	4CIF (PAL/NTSC)	100/120	200/240	400/480
Playback	Synchrone channels	4 channels	8 channels	16 channels
Video input - BNC	1.0Vp-p, 75Ω	4 channels	8 channels	16 channels
Main video output	1.0Vp-p, 75Ω	1 Main Video BNC output, or VGA 1024x768/60Hz (Auto select during boot)		
Spot video output	1.0Vp-p, 75Ω	1 BNC		
Loop trough Video out	1.0Vp-p, 75Ω	X		
Stream type		Video only or Audio & Video		
Bit rate		32kbps...2Mbps (Self definition)		
Audio input	BNC (2.0Vp-p, 1KΩ)	4	8	16
Audio output	line level output, 600Ω	1 BNC output		
Audio compression		OggVorbis,16kbps Voice interface		
Communication interface		RJ-45 10M/100M UTP network port		
		DB-9 RS-232 port		
		4-pin screw terminal RS-485/RS-422 PTZ port		
Keyboard interface		4-pin RS-485 port for RS-KEYB-RS		
		1 RJ-45 port		
HDD SATA interface		SATA interface, max. 4 HDD's and 1 DVD-RW (optional bracket for 8 HDD available without DVD-RW)		
USB interface		3 x USB 2.0		
		Support USB flash disk,USB HDD,USB CD-RW, USB-DVD		
External trigger inputs		4	16	16
Relay outputs		2	4	4
Power supply		90 - 135VAC or 180 - 265VAC, 50 / 60 Hz		
Power consumption		22W - 42W (without HDD)		
Operating temperature		-10 °C - +55 °C		
Operating humidity		10% - 90%		
Dimensions		19 " standard (450mm*450mm*95mm)		
Weight		<8kg (without HDD)		
Email support		plain text with attached JPEG, requires SMTP server		
DNS support		DNS on SSC, DynDNS.org or Peanut shell		

Delivery Package

- DVR
- SATA CABLES
- HDD fixing screws
- Optical USB Mouse
- Remote Control
- 19" Brackets

Ordering Information

- SP-DVR-4-E-PAL
- SP-DVR-8-E-PAL
- SP-DVR-16-E-PAL

Accessories

- SP-E-PAL-HDD Bracket

Related Products

- SP-DEC
- SP-KEYB-RS



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Features

- T1 High performance DSP with H.264 Video compression scheme Real time at CIF resolution
- Support QCIF, CIF, 2CIF, DCIF, 4CIF
- 25 frames recording each channel in 2CIF resolution
- Supports dual stream
 - Main stream for recording
 - Substream for remote viewing
- Audio recording on all channels
- Bi-directional audio
- External trigger inputs and relay outputs
- Video Motion Detection on each channel
- Max 8 HDD's, max. 2000GB each
- Support USB-flashdisk
- Web interface for easy setup
- Supports commonly used PTZ control protocols
- Dual video output, main and spot monitor
- Built-in DNS service
- Automatic email notification of events with snapshot attachment
- Allows seamless connection to the Spectator Service Center (SSC)

Description

Spectator's DVR-E series is a high end Digital Video Recorder with Real time recording at 2CIF resolution across all 16 channels simultaneously. Apart from a new look the new E range comprises major improvements in specifications and functionality. This series is equipped with a substantial storage capacity of upto 16 TB with a provision for 8 HDD's to be installed inside the box. A complete new Graphical User Interface along with the new jog shuttle offers a user friendly interface for local control.

Thanks to the S.M.A.R.T. technology the HDD's are continuously monitored. Only one HDD is active while other disks are in sleep mode. It is now possible to create HDD-groups, video files can be locked to prohibit overwriting, and disks can be configured for redundant storage.

The Spectator E series are pre-configured for connection to a SSC (Spectator Service Center) to provide enhanced functionality of video alarm verification of incoming alarms at the SSC, remote control of PTZ functions and 2-way audio interaction. In addition remote services like Virtual Guarding, Virtual Gate keeping and VOaaS (Video Observation as a Service) are deliverable using this series of DVR's.

**25 IPS AT 2CIF
ACROSS ALL CHANNELS
SIMULTANEOUSLY**



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Specifications

Type		SP-DVR-4-E	SP-DVR-8-E	SP-DVR-16-E
Video compression		H.264 (QCIF - 4CIF)		
Preview resolution		PAL:704*576(4CIF) NTSC:704*480(4CIF)		
Compression vs framrate	4CIF ips per CH	8	12	12
	DCIF	8	12	12
	2CIF	25	25	25
	CIF ips per CH	25	25	25
Total Frames	4CIF (PAL/NTSC)	100/120	200/240	400/480
Playback	Synchrone channels	4 channels	8 channels	16 channels
Video input - BNC	1.0Vp-p, 75Ω	4 channels	8 channels	16 channels
Main video output	1.0Vp-p, 75Ω	1 Main Video BNC output, or VGA 1024x768/60Hz (Auto select during boot)		
Spot video output	1.0Vp-p, 75Ω	1 BNC		
Loop trougt Video out	1.0Vp-p, 75Ω	X		
Stream type		Video only or Audio & Video		
Bit rate		32kbps...2Mbps (Self definition)		
Audio input	BNC (2.0Vp-p, 1KΩ)	4	8	16
Audio output	line level output, 600Ω	1 RCA output		
Audio compression		OggVorbis,16kbps Voice interface		
Communication interface		RJ-45 10M/100M UTP network port		
		DB-9 RS-232 port		
		4-pin screw terminal RS-485/RS-422 PTZ port		
		4-pin RS-485 port for RS-KEYB-RS		
Keyboard interface		1 RJ-45 port		
HDD SATA interface		SATA interface, max. 4 HDD's and 1 DVD-RW (optional bracket for 8 HDD available without DVD-RW)		
USB interface		3 x USB 2.0		
		Support USB flash disk,USB HDD,USB CD-R/W, USB-DVD		
External trigger inputs		4	16	16
Relay outputs		2	4	4
Power supply		90 - 135VAC or 180 - 265VAC, 50 / 60 Hz		
Power consumption		22W - 42W (without HDD)		
Operating temperature		-10 °C - +55 °C		
Operating humidity		10% - 90%		
Dimensions		19" standard (450mm*450mm*95mm)		
Weight		<8kg (without HDD)		
Email support		plain text with attached JPEG, requires SMTP server		
DNS support		DNS on SSC, DynDNS.org or Peanut shell		

Delivery Package

- DVR
- SATA CABLES
- HDD fixing screws
- Optical USB Mouse
- Remote Control
- 19" Brackets

Ordering Information

- SP-DVR-4-E
- SP-DVR-8-E
- SP-DVR-16-E

Accessories

- SP-E-HDD Bracket

Related Products

- SP-DEC
- SP-KEYB-RS



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Features

- High performance DSP with H.264 Video compression scheme
- Support up to 4CIF
- Audio recording
- Multi channel playback
- Video loop through outputs
- External trigger inputs and relay outputs
- Video Motion Detection on each channel
- Max 4 HDD's, or 2 HDD's and DVD-writer
- Support USB-flashdisk
- Web interface for easy setup
- Supports commonly used PTZ control protocols
- Built-in DNS service
- Automatic email notification of events with snapshot attachment
- Allows seamless connection to the Spectator Service Center (SSC)

Description

Spectator's DVR-ELE is the new and improved successor of the entry DVR SP-DVR-LE series. Apart from a new look the new ELE range comprises major improvements in specifications and functionality. Some of the important changes in this new series are the dual stream video compression engine, 4CIF recording features and a complete renewed Graphical User Interface. The new jog shuttle offers a user friendly interface for local control.

The new ELE series DVR's are based on dedicated hardware, using the powerful TI DaVinci processor for the video compression tasks and a reliable embedded Linux Operating System. The OS and system firmware use a flash memory and are independent of the status of the HDD.

Thanks to the S.M.A.R.T. technology the HDD's are continuously monitored. Only one HDD is active while other disks are in sleep mode. It is now possible to create HDD-groups, video files can be locked to prohibit overwriting, and disks can be configured for redundant storage.

The Spectator ELE series are pre-configured for connection to a SSC (Spectator Service Center) to provide enhanced functionality of video alarm verification of incoming alarms at the SSC, remote control of PTZ functions and 2-way audio interaction. In addition remote services like Virtual Guarding, Virtual Gate keeping and VOaaS (Video Observation as a Service) are deliverable using this series of DVR's.



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Specifications

Type		SP-DVR-4-ELE	SP-DVR-8-ELE	SP-DVR-16-ELE
Video compression		H.264 (QCIF - 4CIF)		
Preview resolution		PAL:704*576(4CIF) NTSC:704*480(4CIF)		
Compression vs framrate	4CIF ips per CH	8	8	6
	2CIF ips per CH	16	16	12
	CIF ips per CH	25	25	25
Total Frames	CIF (PAL/NTSC)	100/120	200/240	400/480
Playback	Synchrone channels	4 channels	8 channels	16 channels
Video input - BNC	1.0Vp-p, 75Ω	4 channels	8 channels	16 channels
Main video output	1.0Vp-p, 75Ω	1 Main Video BNC output, or VGA 1024x768/60Hz (Auto select during boot)		
Spot video output	1.0Vp-p, 75Ω	1 BNC		
Loop trougt Video out	1.0Vp-p, 75Ω	External multewire from DB-15 to BNC		
Stream type		Video only or Audio & Video		
Bit rate		32kbps...2Mbps (Self definition)		
Audio input	BNC (2.0Vp-p, 1KΩ)	4	4	4
Audio output	line level output, 600Ω	1 RCA output		
Audio compression		OggVorbis,16kbps Voice interface		
Communication interface		RJ-45 10M/100M UTP network port		
		DB-9 RS-232 port		
		4-pin screw terminal RS-485/RS-422 PTZ port		
		4-pin RS-485 port for RS-KEYB-RS		
Keyboard interface		1 RJ-45 port		
HDD SATA interface		SATA interface, max. 2 HDD's and 1 DVD-RW (optional bracket for 4 HDD available without CD-RW)		
DVD-S		Optional available		
USB interface		2 x USB 2.0		
		Support USB flash disk,USB HDD,USB CD-R/W, USB-DVD		
External trigger inputs		4	16	16
Relay outputs		4	4	4
Power supply		90 - 135VAC or 180 - 265VAC, 50 / 60 Hz		
Power consumption		22W - 42W (without HDD)		
Operating temperature		-10 °C - +55 °C		
Operating humidity		10% - 90%		
Dimensions		19" standard (440mm*390mm*70mm)		
Weight		7.6kg (without HDD)		
Email support		plain text with attached JPEG, requires SMTP server		
DNS support		DNS on SSC, DynDNS.org or Peanut shell		

Delivery Package

- DVR
- SATA CABLES
- HDD fixing screws
- Optical USB Mouse
- Remote Control
- 19" Brackets
- Video loop through cable(s)

Ordering Information

- SP-DVR-4-ELE
- SP-DVR-8-ELE
- SP-DVR-16-ELE

Accessories

- SP-ELE-HDD Bracket

Related Products

- SP-DEC
- SP-KEYB-RS



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Features

- TI Davinci DSP hardware H.264 Video compression
- Real time at CIF resolution
- Bi-directional audio
- Supports dual stream
- Web interface for easy setup
- Supports commonly used PTZ control protocols
- Dual video output, main and spot monitor
- Allows seamless connection to the Spectator Service Center (SSC)

Description

The SP-DVR-4-S is a fully embedded DVR/DVS system for stand alone use or networking. This product is ideal for securing small shops and home security applications. The user defined high bandwidth main stream is generated to have perfect local recordings and high quality LAN streaming, while the user defined sub stream could be used for low bandwidth internet streaming. The included remote control and/or the USB mouse are for easy local operation.

Video alarm verification after alarm activation is available with this product if it is connected to a Spectator Service Center (SSC), as well as remote services including Observation and Virtual Gatekeeping. The SSC operator can select and move the camera, switch the output, and, if connected to a local audio system, listen in and talk to potential or actual intruders.

Specification

Type	SP-DVR-4-S
Video compression	H.264 real time each channel
Compression resolution	PAL:176*144(QCIF), PAL:352*288(CIF)
Video input	4 channels BNC (1.0Vp-p, 75Ω)
Monitor video output	2 Video BNC outputs (1.0Vp-p, 75Ω), 1 Main monitor & 1 Spot monitor
VGA output	1 VGA, 800x600/60Hz, 1024x768/60Hz, 1280 x1024/60Hz
Frame rate (PAL / NTSC)	100 ips / 120 ips
Stream type	Video only or Audio & Video
Bit rate	32kbps...2Mbps (Self definition)
Audio input	1 channel RCA (2.0Vp-p, 1KΩ)
Audio output	1 channel RCA output (line output, 600Ω)
Audio compression	OggVorbis,16kbps Voice interface
Communication interface	1 RJ-45 10M/100M UTP network port, 1 4-pin screw terminal RS-485 port
HDD interface	1 SATA interface, max 2000GB.
USB interface	1 USB 2.0, support USB flash disk,USB HDD,USB CD-R/W
External trigger inputs	4
Relay outputs	1
Power supply	12VDC, external power supply
Power consumption	< 10W
Operating temperature	-10 °C - +55 °C
Operating humidity	10% - 90%
Dimensions	315mm x 230mm x 45mm

Delivery Package

- External power supply
- Remote control
- SATA-cable and HDD fixing screws
- Optical USB mouse

Ordering Information

- SP-DVR-4-S

Related Products

- SP-DEC



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Features

- All major ATM transaction protocols supported
- Transaction data can be overlapped on video image
- Available with or without 5" LCD screen
- TI High performance DSP with H.264 Video compression schemeReal time at CIF resolution
- Support QCIF, CIF, 2CIF, DCIF, 4CIF
- 25 frames recording each channel
 - Main stream for recording
 - Substream for remote viewing
- Audio recording on all channels
- Bi-directional audio
- External trigger inputs and relay outputs
- Video Motion Detection on each channel
- Support USB-flashdisk
- Supports dual stream
- Web interface for easy setup
- Supports commonly used PTZ control protocols
- Dual video output, main and spot monitor
- Built-in dynamic IP support for remote observation (DynDNS)
- Automatic email notification of events with snapshot attachment
- Allows seamless connection to the Spectator Service Center (SSC)
- +12VDC output for camera supply

Description

The Spectator ATM Digital Video Recorder is a high quality real time Audio-Video recorder and investigation tool in one box. With an internal storage space for up to 4 hard disk drives totalling up to 8 TB (using 2000 GB HDD's), it is capable of storage of more than 6 months (with one camera at high quality and medium usage traffic) of recording for ATM cameras. The transaction data can be overlaid on the video image and recorded. It facilitates the post event investigation by allowing video search to be made by using the card number used in the transaction. Connectivity by RS 232, Ethernet and RS 485 is built in allowing it to be used in all situations. Protocol compatibility for most well known brands of ATM machines is built-in as standard. It comes in 2 and 4 input models with or without a 5" LCD screen and is optimized for connection to the Spectator Central Monitoring station technology. It supports video motion detection on all channels and external USB backup is included as a standard feature.



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Specifications

Type	SP-DVR-2-ATM	SP-DVR-4-ATM
Video compression	H.264	
Preview resolution	PAL:704*576(4CIF) NTSC:704*480(4CIF)	
Compression resolution	PAL:704*576(4CIF) (6 ips/channel)	NTSC:704*480(4CIF) (7 ips/channel)
	PAL:704*288(2CIF) (12 ips/channel)	NTSC:704*240(2CIF) (14 ips/channel)
	PAL:528*384(DCIF) (8 ips/channel)	NTSC:528*320(DCIF) (10 ips/channel)
	PAL:352*288(CIF) (25 ips/channel)	NTSC:352*240(CIF) (30 ips/channel)
	PAL:176*144(QCIF) (25 ips/channel)	NTSC:176*120(QCIF) (30 ips/channel)
Video input - BNC (1.0Vp-p, 75Ω)	2 channels	4 channels
Monitor video output (1.0Vp-p, 75Ω)	1 Video BNC output	
VGA output	1, Supports: 800×600/60Hz, 800×600/75Hz, 1024×768/60Hz	
Frame rate : PAL	50 ips	100 ips
	: NTSC	60 ips
Stream type	Video only or Audio & Video	
Bit rate	32kbps...2Mbps (Self definition)	
Audio input - BNC (2.0Vp-p, 1KΩ)	2 channels	4 channels
Audio output - line output, 600Ω	1 Audio BNC output	
Audio compression	OggVorbis,16kbps Voice interface	
	1 BNC (Line in, 1KΩ)	
	1 RJ-45 10M/100M UTP network port	
Communication interface	1 RJ-45 RS-232 port	
	1 RJ-45 RS-485 port	
	SATA interface, max. 4 HDD's	
HDD SATA interface	SATA interface, max. 4 HDD's	
USB interface	1 USB, support USB1.1; Support USB flash disk,USB HDD,USB CD-RW	
External trigger inputs	5	5
Relay outputs	2	4
Power supply	100 - 240VAC, 50 / 60 Hz	
Power consumption	22W - 42W (without HDD)	
Operating temperature	-10 °C - +55 °C	
Operating humidity	10% - 90%	
Dimensions	180mm * 180mm * 280mm	
Weight	<5kg (without HDD)	
Email support	plain text with attached JPEG, requires SMTP server	
DNS support	DNS on SSC, DynDNS.org or Peanut shell	

Delivery Package

- ⊙ DVR
- ⊙ RS-232 CABLE
- ⊙ SATA CABLES
- ⊙ HDD fixing screws
- ⊙ Optical USB Mouse
- ⊙ Remote Control

Ordering Information

- ⊙ SP-DVR-2-ATM
- ⊙ SP-DVR-4-ATM
- ⊙ SP-DVR-2-ATM-LCD (with LCD)
- ⊙ SP-DVR-4-ATM-LCD (with LCD)

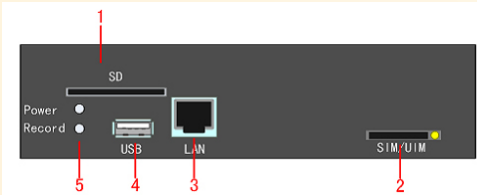
Related Products

- ⊙ SP-DEC



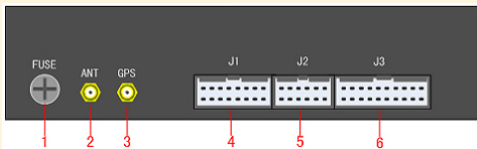
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Front panel

1. SD-card slot
2. SIM card slot (SP-DVR-MS-4-GT only)
3. LAN interface
4. USB interface
5. Power and Record indicators



Back panel

1. Fuse
2. 3G antenna connection
3. GPS antenna connection
4. J1 multiconnector; power, remote control
5. J2 multiconnector; RS-485, alarm outputs
6. J3 multiconnector; video input/output, camera out

Delivery Package

- ⦿ Remote control (wired)
- ⦿ Connection cables for J1, J2, J3
- ⦿ GPS antenna
- ⦿ 3G antenna (SP-DVR-MS-4-GT only)

Ordering Information

- ⦿ SP-DVR-MS-4-G
- ⦿ SP-DVR-MS-4-GT (Build in 3G module)

Features

- ⦿ Build in GPS receiver
- ⦿ Build in 3G transmitter (SP-DVR-4-MC-GT)
- ⦿ Real time at CIF resolution, 4CIF (6fps)
- ⦿ Bi-directional audio
- ⦿ Supports dual stream
- ⦿ Web interface for easy setup
- ⦿ Wide power supply range of 6 - 36VDC
- ⦿ SD-card support
- ⦿ Allows seamless connection to the Spectator Service Center (SSC)

Description

The SP-DVR-MS-4 is specially designed for small mobile applications such as taxi, buses, or other vehicles. It's a fully embedded fanless design for stand alone use or networking. A wide power range of 6-36V DC with internal surge protection will fit in most electrical systems. Connected to a wireless network device the images can be remotely viewed and alarms can be received from this mobile DVR. This device will be delivered standard with a GPS receiver + antenna. All GPS position information will be stored in the video files, and can be used to display the GPS position during playback.

Please contact us for detailed information about mobile applications.

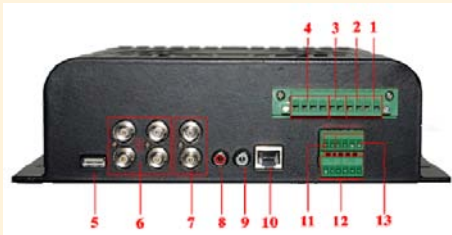
Specification

Type	SP-DVR-MS-4-G(T)
Video compression	H.264 real time CIF each channel, 4CIF 6fps / channel
Compression resolution	PAL:176*144(QCIF), PAL:352*288(CIF)
Video input	4 channels BNC (1.0Vp-p, 75Ω)
Monitor video output	1 Video BNC output (1.0Vp-p, 75Ω)
VGA output	-
Frame rate (PAL / NTSC)	100 ips / 120 ips
Stream type	Video only or Audio & Video
Bit rate	32kbps...2Mbps (Self definition)
Audio input	2 channel RCA (2.0-2.4Vp-p, 1KΩ)
Audio output	1 channel RCA output (line output, 600Ω)
Audio compression	OggVorbis, 16kbps Voice interface
Communication interface	1 RJ-45 10M/100M UTP network port, 1 RS-485 port
SD interface	1 SD supported max 16 GByte
USB interface	1 USB 2.0, support USB flash disk, USB HDD, USB CD-R/W
External trigger inputs	7
Relay outputs	2
Power supply	6 - 36VDC wide input range
Power consumption	< 10W
Operating temperature	-10 °C - +55 °C
Operating humidity	10% - 90%
Dimensions	150mm x 45mm x 105mm
Weight	< 1 kg



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1. DC IN - power input
2. KEY - Ignition switch interface
3. KB interface
4. DC OUT +12VDC/+5VDC
5. USB
6. Video Inputs (4Ch)
7. Video out (main/aux)
8. Audio in
9. Audio out
10. LAN
11. Alarm output
12. Alarm input
13. RS-485 serial interface

Delivery Package

- ⊙ Remote control
- ⊙ HDD fixing screws

Ordering Information

- ⊙ SP-DVR-MC-4

Features

- ⊙ Real time at CIF resolution, 4CIF (6fps)
- ⊙ Bi-directional audio
- ⊙ Supports dual stream
- ⊙ Web interface for easy setup
- ⊙ Composite main and spot monitor output
- ⊙ Wide power supply range of 6 - 36VDC
- ⊙ Swappable 2.5" HDD-bay
- ⊙ Allows seamless connection to the Spectator Service Center (SSC)

Description

The SP-DVR-M-4 is specially designed for mobile applications such as trains, busses, or other vehicles. It's a fully embedded fanless, anti-vibration and anti-shock design for stand alone use or networking. A wide power range of 6-36V DC with internal surge protection connected by heavy duty screw terminals ensures smooth operation. Connected to a wireless network device the images can be remotely viewed and alarms can be received from this mobile DVR.

Please contact us for detailed information about mobile applications.

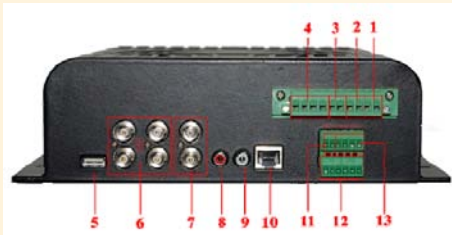
Specification

Type	SP-DVR-MC4
Video compression	H.264 real time CIF each channel, 4CIF 6fps / channel
Compression resolution	PAL:176*144(QCIF), PAL:352*288(CIF)
Video input	4 channels BNC (1.0Vp-p, 75Ω)
Monitor video output	2 Video BNC outputs (1.0Vp-p, 75Ω), 1 Main monitor & 1 Spot monitor
VGA output	-
Frame rate (PAL / NTSC)	100 ips / 120 ips
Stream type	Video only or Audio & Video
Bit rate	32kbps...2Mbps (Self definition)
Audio input	1 channel RCA (2.0Vp-p, 1KΩ)
Audio output	1 channel RCA output (line output, 600Ω)
Audio compression	OggVorbis, 16kbps Voice interface
Communication interface	1 RJ-45 10M/100M UTP network port, 1 4-pin screw terminal RS-485 port
HDD interface	2 SATA interface, 2 hot swappable 2.5" disk drives, max 2000GB.
USB interface	1 USB 2.0, support USB flash disk, USB HDD, USB CD-R/W
External trigger inputs	4
Relay outputs	1
Power supply	6 - 36VDC wide input range
Power consumption	< 10W
Operating temperature	-10 °C - +55 °C
Operating humidity	10% - 90%
Dimensions	210mm x 236mm x 73mm
Weight	< 2 kg



SPECTATOR
VIDEO TECHNOLOGY

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1. DC IN - power input
2. KEY - Ignition switch interface
3. KB interface
4. DC OUT +12VDC/+5VDC
5. USB
6. Video Inputs (4Ch)
7. Video out (main/aux)
8. Audio in
9. Audio out
10. LAN
11. Alarm output
12. Alarm input
13. RS-485 serial interface

Delivery Package

- Mobile DVR
- Remote control
- External GPS-mouse
- Connection cables
- 3G antenna (SP-DVR-MC-4-GT only)

Ordering Information

- SP-DVR-MC-4-G
- SP-DVR-MC-4-GT (Build in 3G module)

Features

- GPS receiver
- Build in 3G Transmission (SP-DVR-MC-4-GT)
- Real time at CIF resolution, 4CIF (6fps)
- Bi-directional audio
- Supports dual stream
- Web interface for easy setup
- Composite main and spot monitor output
- Wide power supply range of 6 - 36VDC
- Swappable 2.5" HDD-bay
- Allows seamless connection to the Spectator Service Center (SSC)

Description

The SP-DVR-M-4 is specially designed for mobile applications such as trains, busses, or other vehicles. It's a fully embedded fanless, anti-vibration and anti-shock design for stand alone use or networking. A wide power range of 6-36V DC with internal surge protection connected by heavy duty screw terminals ensures smooth operation. Connected to a wireless network device the images can be remotely viewed and alarms can be received from this mobile DVR.

Please contact us for detailed information about mobile applications.

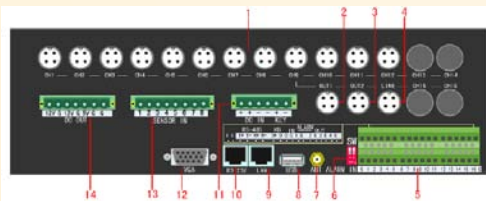
Specification

Type	SP-DVR-MC4
Video compression	H.264 real time CIF each channel, 4CIF 6ips / channel
Compression resolution	PAL:176*144(QCIF), PAL:352*288(CIF)
Video input	4 channels BNC (1.0Vp-p, 75Ω)
Monitor video output	2 Video BNC outputs (1.0Vp-p, 75Ω), 1 Main monitor & 1 Spot monitor
VGA output	-
Frame rate (PAL / NTSC)	100 ips / 120 ips
Stream type	Video only or Audio & Video
Bit rate	32kbps...2Mbps (Self definition)
Audio input	1 channel RCA (2.0Vp-p, 1KΩ)
Audio output	1 channel RCA output (line output, 600Ω)
Audio compression	OggVorbis,16kbps Voice interface
Communication interface	1 RJ-45 10M/100M UTP network port, 1 4-pin screw terminal RS-485 port
HDD interface	2 SATA interface, 2 hot swappable 2.5" disk drives, max 2000GB.
USB interface	1 USB 2.0, support USB flash disk,USB HDD,USB CD-R/W
External trigger inputs	4
Relay outputs	1
Power supply	6 - 36VDC wide input range
Power consumption	< 10W
Operating temperature	-10 °C - +55 °C
Operating humidity	10% - 90%
Dimensions	210mm x 236mm x 73mm
Weight	< 2 kg



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- (1) Video & audio input, camera power supply interface
- (2) Video & audio main output
- (3) Video & audio aux output
- (4) Voice talk interface
- (5) RS-485, KB, ALARM IN, ALARM OUT interface
- (6) RS-485 switch
- (7) GPS antenna interface
- (8) USB interface
- (9) LAN network interface
- (10) RS-232 interface
- (11) Power supply input, ignition switch interface
- (12) VGA interface
- (13) Vehicle state records interface
- (14) DC12V, 5V power supply output

Features

- Real time 4CIF recording/streaming each channel
- Optional GPS receiver with video overlay function
- eSata interface for high speed back-up
- Bi-directional audio
- Supports dual stream
- Web interface for easy setup
- Wide power supply range of 6 - 36VDC
- Anti-shock technology for 2 SATA 2,5" hard disks
- High-end aviation connectors for audio/video connections
- Allows seamless connection to the Spectator Service Center (SSC)

Description

The SP-DVR-8/12-M is specially designed for mobile applications such as trains, busses, or other vehicles. It's a fully embedded, anti-vibration and anti-shock design for stand alone use or networking. A wide power range of 6-36V DC with internal surge protection connected by heavy duty screw terminals ensures smooth operation. Optional a GPS receiver can be integrated in the DVR which overlays the GPS data like speed and position on the videochannels. Connected to a wireless network device the images can be remotely viewed and alarms can be received from this mobile DVR. Please contact us for detailed information about mobile applications.

Specification

Type	SP-DVR-8-M	SP-DVR-12-M
Video compression	H.264 4CIF real time each channel	
Compression resolution	PAL:704*576(4CIF) NTSC:704*480(4CIF)	
Video input - (1.0Vp-p, 75Ω)	8 channels	12 channels
Video output (1.0Vp-p, 75Ω)	1 Video main output 1 video aux output, 1 VGA Supports: 800×600/60Hz, 800×600/75Hz, 1024×768/60Hz	
Frame rate (PAL / NTSC)	200 ips	300 ips
Stream type	Video only or Audio & Video	
Bit rate	32kbps...2Mbps (Self definition)	
Audio input - (2.0Vp-p, 1KΩ)	8 channels	12 channels
Audio output - line output, 600Ω	1 Audio main output, 1 aux audio output	
Audio compression	1 BNC (Line in, 1KΩ) OggVorbis,16kbps Voice interface	
Communication interface	1 RJ-45 10M/100M UTP network port, 1 RJ-45 RS-232 port, 1 screw terminal RS-485 port	
HDD SATA interface	2 internal SATA, 1 external eSATA backup	
USB interface	1, Support USB flash disk,USB HDD,USB DVD-RW	
External trigger inputs	16	
Relay outputs	4	
Power supply	6-36 VDC	
Power consumption	35W (without HDD)	47W (without HDD)
Operating temperature / humidity	-20 °C - +65 °C / 10% - 95%	
Dimensions	290mm * 225mm * 90mm	
Weight	5kg (without HDD)	

Delivery Package

- Remote control
- HDD fixing screws

Ordering Information

- SP-DVR-8-M
- SP-DVR-12-M
- SP-DVR-8-MG (incl. GPS option)
- SP-DVR-12-MG (incl. GPS option)



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