DiREX-Pro Series

6-channels (AV) encoder with integrated DVR
up to 120 GB internal / 2 TB external removable disk; 12V / 110-230V

DiREX-Pro.60 - the stamina specialist with audio	🔊 📹
DiREX-Pro.A40 - extremely temperature-resistant	☀ 🌡 ❄
DiREX-Pro.120 - extra extended recording time	⚙ 🕐

DiREX-Pro Digital Network Video Recorders with internal web-server and triplex functionality have numerous advantages: in addition to high video quality provided by proprietary (MPEG4-based) compression, they come with 4 video and 2 audio channels, RS-232 and RS-485 interfaces as well as a dynamic data speed. This allows image quality to be constant at a data speed that is dependant upon the movement level. CCTV security systems that incorporate DiREX-Pro exhibit increased reliability as, in the event of damage to one video-server, full network access is maintained and, moreover, recording continues even if the network itself is damaged.

Main Features

- 4 video inputs / 2 audio inputs / Ethernet / USB / serial
- Triplex operation via TCP/IP, internal Web server, multicasting
- FIFO recording and HDD management for continuous operation
- Embedded system (Linux), non-PC-based, watchdog
- OS and video encoder in flash (HDD disengageable)
- Superb video quality, retrospective correction of brightness/contrast
- RS-485 for PTZ with presets/tours (Pelco, Panasonic and others)
- RS-232 for alarm inputs/outputs (opt. alarm box), GPS NMEA
- Video sensor with user-selectable masking (18x24 fields)
- Email notification following camera sabotage, motion, alarm etc.
- Optional software modules (telnet, FTP server and others)
- Monitoring of HDD wearing and internal temperature alert
- Aluminium enclosure, fan-free operation, small and dust-protected
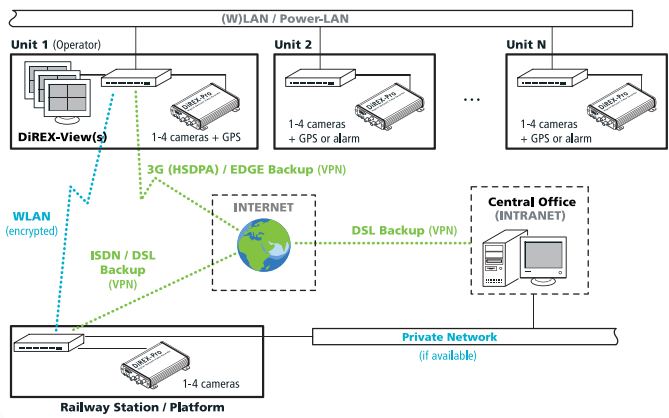
Scope of delivery:
Network DVR, carrying case, CD with software / manual, (cross-over) ethernet cable, USB cable, SubD (9Pin) adaptor, 100-240V AC power supply, AC power line (EU, UK, US/Jap. or Austral.), EMC power filter (Pro.A40 only)
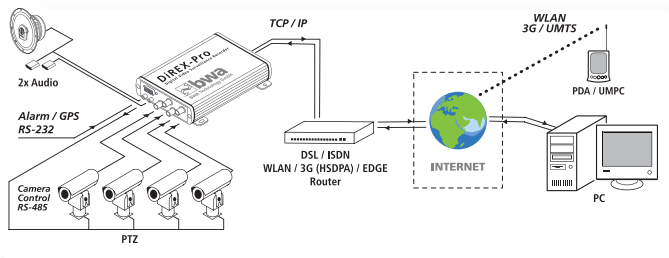
bwa
endless video coverage

More about functional range and firmware at:

www.mybwa.com

Technical Data

Compression	video	proprietary, MPEG4-based
	audio	ADCPM (16 bit, 12/24 KHz)
Data rate	Ethernet	10 kbps ... 1.2 Mbps
(dynamic, approx.)	3G/ISDN	min. 16 kbps
Memory consumption	continuously, w/o audio	3 ... 8 GB per day
(HDD, approx.)	motion-controlled (18x24 fields)	pre-alarm located in RAM
		(HDD disengageable)
Resolution	PAL version	512 / 488 / 384 x 288
	NTSC version	512 / 488 / 384 x 240
	playback	800 x 600 (smoothed)
Frame frequency	1 input / PAL	12 ... 20 frames/sec
(all channels, 384x288)	2 inputs / PAL	10 ... 16 frames/sec
	4 inputs / PAL	7 ... 12 frames/sec
	NTSC	approx. 15% more
Analog inputs	video	4x BNC, PAL, 75 Ohm, 1Vpp
	audio	2x RCA, line-in
Videoformat	S/W (8bit), YUV4:2:0 (8bit)	

Memory capacity	DiREX-Pro.120	120 GB
(unformatted, -3 GB for FIFO)	DiREX-Pro.60	60 GB
	DiREX-Pro.A40	40 GB (automotive)
	external USB data mirroring	up to 2 TBytes
Power supply	100-240 VAC, 50-60Hz	12V DC / 1A, max. 27 BTU
	(plug, +5 ... +45 °C)	(approx. 0,3A in standby mode)
Housing	dimentions (incl. BNC)	125 x 36 x 179 mm
	weight (w/o power plug, approx.)	0.7 kg
Vibration *(operation)*	Pro.120, Pro.60	0.67 G (5-500Hz)
	Pro.A40	2G (5-200Hz), 1G (200-500Hz)
Operation temperature /	Pro.120, Pro.60	+5 ... +45 °C / 20°C per hour
gradient	Pro.A40	-20 ... +65 °C / 60°C per hour
Supported protocols	TCP/IP, UDP, ARP, ICMP, FTP, DHCP, HTTP, IGMP, RTP, RTCP, SNMP	
Data interface	Fast Ethernet (10/100, RJ45), USB-A, USB-B, RS-232, RS-485	
Minimale Systemvoraus-	Windows XP SP2, Internet Explorer 6, Pentium 1 GHz CPU;	
setzungen *(PC-Client)*	Intel 915GM graphic: 1024x768, sound card, DirectX 9.0 *	

* - Windows and DirectX is a registered trademarks of Microsoft Corp.

DiREX-Pro DVRs are suitable for transfer even on low bands such as WLAN, DSL, ISDN or 3G/UMTS/HSPDA, EDGE and so ideal for mobile use. The frame rate adjusts itself to the available bandwidth - but maintaining consistent video quality. Local recording is always at full speed and so video data can be completely restored. Automatic email notifications triggered by sound, movement, alarms and power failure or pre-timed are all possible - complete with picture attachment.

As the LINUX operation system is located in the Flash memory, the DVR boots exceptionally quickly. Furthermore, at low video activity levels, the internal HDD can be switched off completely - for pre-alarm recording only the RAM is used.

ALARM81-RS:
external RS-232 alarm box
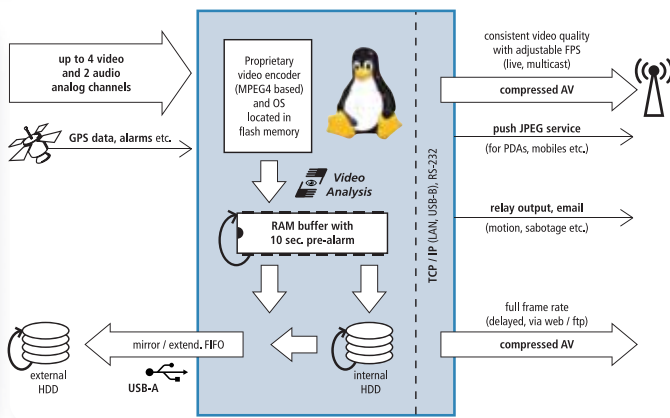with 8 alarm inputs
and 1 relays output

Replay of recorded data and control of the DVR can be carried out from any network PC by means of Internet Explorer. Herewith several simultaneously logged-in users able to view video streams live or access to recorded data. With its high vibration resistance and massive operation range, the Pro.A40 model is ideal for use in cars, lifts and even outdoors. It easily handles even the most sudden and rapid of temperature changes.

Learn more about available accessories at:

www.mybwa.com

endless video coverage