Tral 5

Portable Video Server, intended for on-line video surveillance based on IP technology.

Video servers of Tral 5 series, function as one-channel converters of analog video to compressed digital stream for subsequent transfer over the local network or archiving.

Video server Tral 5 is designed to operate as a core element of video surveillance systems based on IP technology and employing high quality analog cameras. The H.264 compression algorithm provides high-quality digitizing of analog video at 25 fps with resolution 704 x 576. The device has one video and one audio input.

Tral 5 highlights

Miniature dimensions	Due to small dimensions, convenient power supply and the absence of ventilators Tral 5 can be placed in areas, hard-to-reach for intruders. Moreover, miniature size allows the place the device in the thermal cover together with the camera.
Simple installation and operation	• Feed-through power supply for the connected devices, which helps to avoid power supply for each of the devices, as well as to exclude distortions caused by potential difference. • Mounting holes are provided. • No need to use active cooling system. • Universal clamp connections provide reliable commutation of external devices without applying special connectors. • Using Tral 5 PoE avoids the necessity to install electric cable. The built-in video-server PoE splitter provides both server and camera with power supply, using the technology Power over Ethernet (power supply via twisted pair of the local network). • Low power consumption.
Peripherals integration	• Wireless access to networks WiMAX YOTA, WiFi, GSM networks, using the external modem. • USB HDD, USB Flash • USB GPS receiver (NMEA) • Intrusion sensors
University of archive's recording	• Video archive's storage device can either be connected directly to video server with the help of USB 2.0 interface or serve as remote network attached storage. • Economical filling of the archive due to timer recording and H.264 compression
The exceptional reliability and quality	Application of modern technologies when developing and manufacturing the devices. Each item goes through pre-sale test maintenance under the strictest conditions.
Free software. Modern and convenient interface	• Providing completely free software for the final user has been our traditional policy for years. • The internal software operates under Linux operating system which is for the time being the icon of reliability providing smooth operation of video server's functions. • Having taken into account the requests of dozens or users we supplied the user kit of programs to operate the video server

Tral 5 is ideal for on-line video surveillance as:

Single-channel video recorder	Video archive is stored on an external USB HDD connected directly to the video server via USB. Archived data view and on-line view functions are available from a PC that has a local network connection to the video server.
Multi-channel video recorder	The respective number of video servers, each connected to its own camera, are pooled into a local network using any Ethernet switch at hand. The switch is then connected to a network attached storage (NAS), e.g. a NC Miniserver.
Wireless video recorder	In order to set up a wireless connection, an external WiFi, WiMAX, or GSM GPRS modem can be connected to the video server.
Sender of photo/video e-mail messages	When an alarm condition occurs, e.g. an external intruder detection sensor goes off, video server Tral 5 begins data recording in accordance with a timer clock and/or motion sensor.

Technical characteristics of modifications Tral 5.0, Tral 5.0 PoE , Tral 5.1, Tral 5.1 PoE:

	Tral 5.0	Tral 5.0 PoE	Tral 5.1	Tral 5.1 PoE
Analog Inputs	1 video, 1 audio			
Max frame rate (main channel)	25 fps			
Video quality (main channel)	704×288 (interpolated)		704×576 (deinterlacing)	
Video resolution and frame rate (additional channel)	320x240, 5 fps		-	
Video compression	H.264 or MPEG4			
Switching colour/ black and white	automatic			
Network protocols	TCP, UDP, IP, RTP, SMTP, NTP, DHCP, NFS, SMB, E-mail client			
Digital interfaces	Fast Ethernet 10/100 Base-T, USB 2.0			
External sensor interface	Opto-isolator, «dry contact»			
Supply voltage	9…16 V DC	48 V PoE	9…16 V DC	48 V PoE
Power consumption	2 W	2.3 W	2 W	2.3 W
Dimensions	120×55×26 mm	120×55×30 mm	120×55×26 mm	120×55×30 mm
Weight	87g	103g	87g	103g