

VNS100 VEA

General Description

VNS 100 is a video network streamer for up to for different streams handling a maximum of two resolutions from the same analogue video source. VNS100 has one digital signal processor, one analogue video input, one audio input (mono) and one I/O connector supporting high-performance video monitoring systems with LAN or internet.

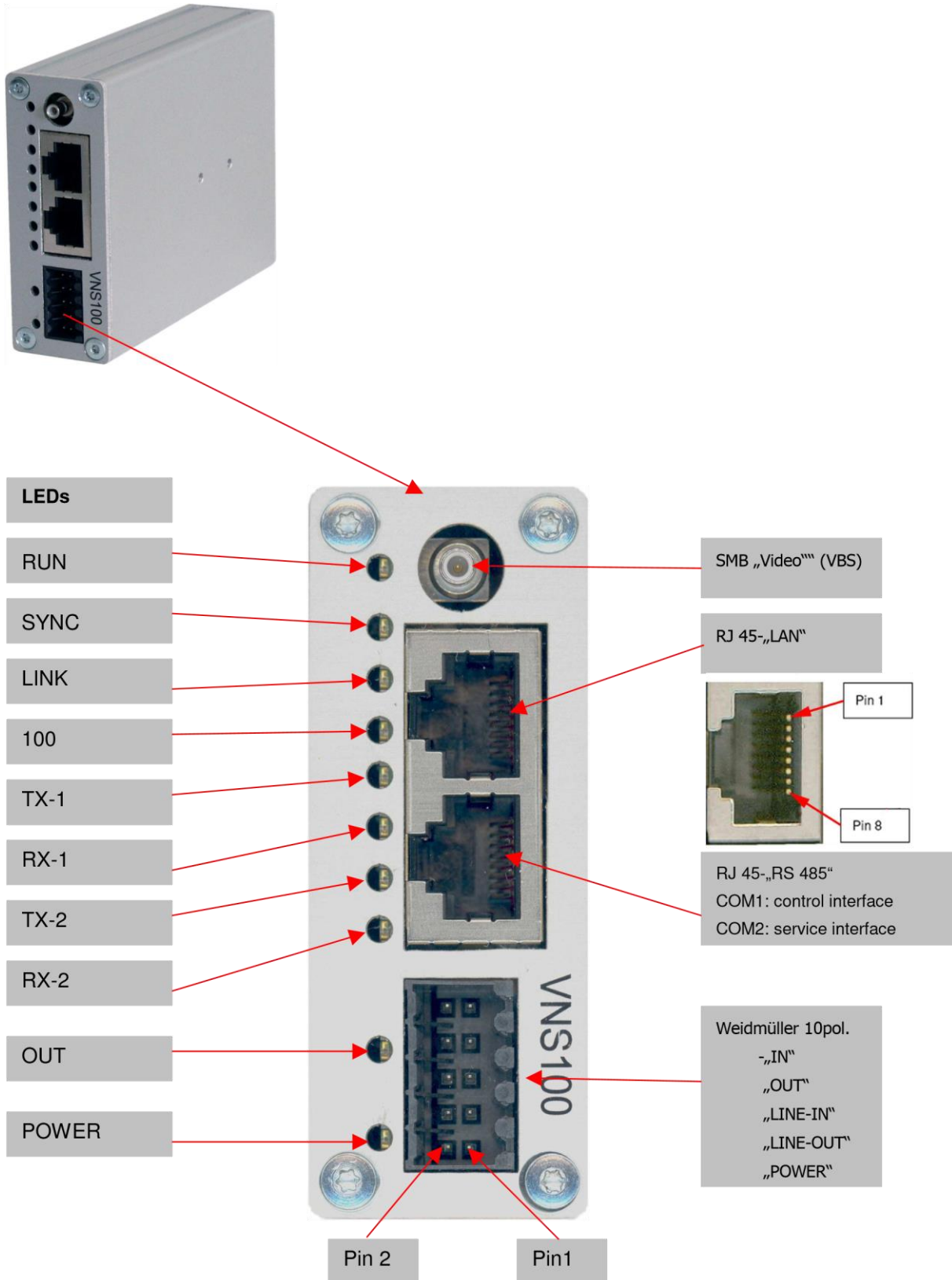
The MPEG-4 advanced simple profile coding offers remarkably improved image quality at dynamic image sequences compared to earlier standards at equal system load being an absolute advantage for transmission and recording.

Configuration can be done over web-browser (HTML) and Funkwerk plettac management system p.o.s.a. In case of an upcoming alarm VNS100 allows local recording of MPEG-4 sequences, configurable in length (also previous history), image rate and image quality. The alarm triggering incident will also be transmitted to a central management system. Live images and recorded sequences are LAN transmitted to the monitoring and/or recording system.

Depending on customer's network strategy all available networks (e.g. broad-band LAN / ISDN / GSM) offering MPEG 4 "advanced" and/or "standard" profiles can be used at full resolution (720x576px). The presented solution allows to choose freely scalable minimum image quality at mutable image rate for minimized load of the network connection.



Pin and LED assignments



VNS 100 power supply

Power supply over 10pin Weidmueller plug at the VNS 100 front side.

Technical data

		VNS 100 VEA			
Processor	TI DSP TMS320 DM642-720MHz				
Video Input	1 FBAS input				
Input impedance	75				
Auto Gain	-3 dB bis +6 dB				
Video output	PAL, NTSC				
Image rate	Image rate Full Frame Interlaced 50-/60-fields/s, Full Frame or Half Frame from 0,1fps up to 30 fps/channel				
Sampling Rate	ITU-R BT.601				
Resolution	Full D1, 2CIF, CIF, QCIF				
Encoder	MPEG-4 (simple-profile & advanced-simple-profile) ISO/IEC 14496-2				
Audio (mono/PseudoStereo) Line-In	Line In, (600 Ohm; symmetric; 8/16/32kHz sample rate),1V				
Audio (mono/PseudoStereo) Line-Out	Line Out, (differential mono/pseudo-Stereo) 600 Ohm; symmetric; 1V				
Image memory	128 MB SDRAM on Board (approx. 83 MB video-/aAudio alarm memory)				
Motion Detection	16 fields				
Alarm input	1 TTL alarm input (switching threshold for high >2V, for low <1V)				
Alarm output	1 open collector output (not potential-free) max. 28V/100mA				
serial interface	1 RS485 full or semi duplex				
service interface	1 RS485 full or semi duplex				
LAN interface	Ethernet 10/100BaseT full duplex				
temperature range	max. +85° board temperature. (-40°C ... +55 °C ambient temperature)				
voltage range	9V – 32V DC				
power loss	approx 4W (at 24V DC)				

Dimensional drawings VNS 100

