



## VNS® 100<sub>VEA</sub>

MPEG-4 "advanced" video codec

### Highlights:

- dual streaming possible
- 1 CVBS inputs
- MPEG4 simple and advanced simple profile for high image quality with low network load and lower recording volume (standard conform ISO 14496-2)
- wide range of ambient temperature (board temperatures -40 °C ~ +85 °C max.) for outdoor and indoor applications
- digital comb filter for the video input
- 0.1 fps up to 25 fps
- latency < 140 ms at D1, < 120 ms at 2CIF
- manipulation-proof through VSID (Video Source Identification)
- optimisation of network performance through IP burst shaping
- no vulnerability to thermal fluctuation, no electrolytic capacitor
- also available as 3RU installation kit
- high range of operating voltage: 9...32V
- lip-synched, bi-directional mono audio interface with symmetric connection technology
- dynamic bandwidth management
- possible compression stages: CBR, VBR and ABR

Dual streaming

-40°C up to +85°C

1 CVBS

MPEG-4  
ASP / SP

0,1 fps - 25 fps

140 ms  
at D1

120 ms  
at 2CIF

D1

VSID

CBR

VBR

ABR

QUALIFIED FOR  
in-/outdoor



Technical Data		VNS® 100 <sub>VEA</sub>
<b>Order number</b>		
VNS 100:		943524110100
VNS 100 for 19" :		943524190100
<b>Hardware</b>		
Video input:		1 (C)VBS 1 Vpp/75 Ω, one second virtual input
Video output:		-
Alarm input:		1 (not electrically isolated)
Alarm output:		1 (not electrically isolated)
Serial interfaces:		2 x RS485 with ESD surge protection Free programmable end device control via RS485 (transparent/multidrop2-/4 wire) Latency ≤ 10 ms
Network:		1 x LAN 10/100 MBit/s autosensing/manual configuration, also suitable for DSL, UMTS, ISDN, PSTN, GSM
Audio input:		1 x mono, lip-sync
Audio output:		1 x Mono
<b>Video specification</b>		
Video standard:		PAL, NTSC
Video compression:		MPEG-4 advanced simple profile and MPEG-4 simple profile (ISO 14496-2)
Compression modes:		CBR, ABR, VBR
Maximum resolution:		Full D1 (720x576 px), 2 CIF, CIF, QCIF
Maximum frame rate:		0.1 - 25 fps (frames per second)
GOP standard:		1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 25, 50 I, P, B-FRAMES
Transmission rate:		10 kBps - 15 MBps
Bandwidth management:		yes
Minimum latencies:		hardware encoder -> hardware decoder < 140 ms at D1, < 120 ms at 2CIF hardware encoder -> software decoder < 140 ms at D1
OSD:		date, time, text, water mark, audio level, detection: semi-transparent chroma keyings
Court-type evident video marking:		date, time, source ID, IP address, Codec serial number
<b>Audio specifications</b>		
Audio compression:		PCM/ IMA-ADPCM
Sampling rates:		8, 16 and 32 kHz
<b>Functions</b>		
Internal memory:		128 MB
Pre/post alarm memory:		approx. 85 MB RAM (up to 2x video + 1x audio), up to 20 events
Supported network protocols:		UDP, TCP, IP V4, IGMP v2, ICMP, ARP, DHCP, HTTP/1.0, SNMPv1-Traps, SNTpv4, FTP, RTP, Unicast stream control, SSDP
Remote configuration:		Web-Interface (disengageable), p.o.s.a. management software
Remote Update:		Webserver, FTP (disengageable), p.o.s.a.
Integration in management system:		yes
Access control:		yes
Control:		HTTP-Server (disengageable), PRHP (Plettac Remote Host Protokoll)
Live/Replay:		-
Menu language:		english
Event messages:		LAN SNMP traps
Max. number of units:		unlimited
Power supply:		9...32 V (internal power pack), approx. 4 W
MTBF:		Telecordia 1: approx. 360000 h at 40 °C MIL-HDBK-217: approx. 120000 h at 40 °C
Dimensions [mm]:		74 x 98 x 29 (also available as 3RU installation kit)