

## VD-5300 / MPEG-2 DECODER



### Overview

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The VD-5300 decoder is a compact-sized, 1U rack unit.

The VD-5300 receives and decodes both HDTV and SDTV for video and AAC, BC, MPEG1 Layer 2 and LPCM (SMPTE302M-2002) for audio and is ideal for streamlining facilities. Further, the unit can handle ancillary data transmission and multiplexes ancillary data packets of inter-stationary control data and closed caption data over a video signal, enabling flexible system configurations for broadcasting monitoring and program contribution.

### Features

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- Compact-sized: 430mm x 550mm x 44mm, about 7.5kg
- Low power consumption: 80VA or less
- Compatible with multiple formats: Ready for 1080i, 720p and 480i video formats (Monitoring output is available by format conversion when a 480p stream is fed.)
- Video decoding: Compatible with MPEG2 MP@HL, MP@H14L, MP@ML, 422P@HL, and 422P@ML
- Audio decoding: Compatible with MPEG2-AAC, BC, MPEG1-Layer2 and LPCM
- Compatible with up to 160Mbps high-speed encoding rates, suitable for high quality material transmission
- Ancillary data multiplexing and output: Ancillary data packets can be multiplexed over a video signal.
- Video output: Automatic switching and output of HD-SDI/SD-SDI corresponding to input video transfer streams
- Audio output: Simultaneous outputs of AES/EBU and embedded audio signals (up to 8 channels)

# Specifications

Input signal				
TS stream signal				
TS stream signal	DVB-ASI	1 x BNC		
Reference sync signal				
B.B. signal	EIA RS-170A, 75 Ω	1 x BNC		
Decod specifications				
System				
Multiplex method	MPEG2-TS (ISO/IEC 13818-1)			
Video				
Coding method	MPEG2 MP@HL, 422P@HL, MP@H14L, MP@ML, and 422P@ML (ISO/IEC 13818-2)			
Audio (4 ES simultaneous decoding available)				
Coding method 1	MPEG2 AAC LC-profile (ISO/IEC 13818-7)	Outputs up to 8 channels Mixed use of multiple method possible (AAC + LPCM, etc.)		
Coding method 2	MPEG2 BC (ISO/IEC 13818-3)			
Coding method 3	MPEG1 Layer2 (ISO/IEC 11172-3)			
Non-compressed audio	LPCM (SMPTE302M-2002)			
Output signal				
Video output				
SDI signal	SMPTE292M (1080i)	2 x BNC	2 distributed outputs of a same signal Compatible with ancillary data multiplexing	
	SMPTE292M (720p)			
	SMPTE259M (480i)			
Video output (for monitoring)				
SDI signal	SMPTE292M (1080i)	1 x BNC	Compatible with On Screen Display (OSD) Video format conversion possible using a limited function converter	
	SMPTE292M (720p)			
	SMPTE259M (480i)			
Audio output				
Digital	AES/EBU	4 x BNC		
	SMPTE299M (Embedded)	SDI multiplexing	Compatible with Group1 and Group2 (up to 8 channels)	
Audio mode signal	Original method	Dsub-25p	Open collector output	
Ancillary data output				
Inter-stationary control data	ARIB TR-B23	SDI multiplexing	1080i and 480i	
Closed caption data	ARIB TR-B23	SDI multiplexing	1080i and 480i	
User data	ARIB TR-B23	SDI multiplexing	1080i and 480i	
User data	RS-422	Dsub-9S	For future expansion	
TS stream signal				
TS stream signal	DVB-ASI	1 x BNC	Input TS through (for monitoring)	
Control signal				
External control signals				
Control 1	Ethernet (10/100Base-T)	RJ-45		
Control 2	RS-422	Dsub-9S		
Alarm signal				
Alarm contact	No-voltage contact output	Dsub-9P		
General				
Power supply and power consumption	85 to 264VAC (50/60Hz); 80VA or less			
Operation temperature	0°C to +45°C (no condensation)			
Measurements	430 (W) x 550 (D) x 44 (H) (unit: mm)			
Weight	7.5kg or less			

About the specification of this equipment, it may change without a preliminary announcement for the purpose, such as a performance improvement.

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