

VD-5800 / IP DECODER



Overview

THE VD-5800 IP decoder transmits video and audio signals via IP networks. The compact-sized decoder incorporates the video/audio decoder and IP interface sections into a 1U half rack size chassis and operates with low power consumption. The decoder section supports both SDTV and HDTV formats and has specifications equivalent to those of decoders for broadcasting source contribution use and realizes broadcasting station image quality. Its powerful error correction function realizes high-quality image transmission over low quality IP networks. Simultaneous two network connections are possible, and when working in combination with the VC-5800 encoder, the VD-5800 offers switching between main and standby networks without interruption.

Features

- HDTV(1080i) and SDTV(480i) supported
- High image quality: Supports MPEG2 422P@HL/422P@ML
- Audio encoding: Supports MPEG2-AAC/MPEG1-Layer2/LPCM
- Multichannel audio: Supports AES-3 signal x 4 and SDI embedded audio 8 channels
- Surround audio: Supports 5.1ch decoding
- Ancillary Data: Inter-stationary data/digital closed caption data can be transmitted
- Simultaneous two network connections: Switching between main/standby network without interruption
- Supports DHCP and PPPoE: Ready for Internet connection
- Multiple inputs: Ethernet and DVB-ASI input
- Compact size: 210×450×44(mm), approximately 3.5kg, 1U half rack size chassis
- Two model types: AC powered and 12VDC powered types are available
- Environmental resistance: Operational temperature range between -10 and +50 suitable for field operation

Specifications

Medium signal			
Video signal output			
HDTV:1080i/720p	SMPTE292M	BNCx2	Output connector for HDTV/SDTV
SDTV:480i/512i	SMPTE259M-C		
Audio signal output			
Digital	AES-3	BNCx4	Group1, Group2 corresponded.
	SDI embedded	8ch	
Ancillary data output		Available video format	
Inter-stationary data	ARIB TR-B23	1080i, 480i, 512i	
Digital closed caption data	ARIB TR-B23	1080i, 480i, 512i	
User data input/output			
User data	RS-232C	Dsub9P	Also used for maintenance
Reference video signal input (for GEN-LOCK)			
SDTV	NTSC-B.B.	BNCx1	
Coding bit stream input			
TS stream	DVB-ASI	BNCx1	
Coding method			
Video coding			
Coding method	MPEG2 422P@HL, MP@HL,422P@ML, MP@ML		Max.120Mbps
Audio coding			combinations
Coding method 1	MPEG2 AAC LC-profile	Max.6ch (Supports 5.1ch)	AAC+LPCM
Coding method 2	MPEG1 Layer2	2ch	Layer2+LPCM
Coding method 3	LPCM(SMPTE302M-2002)	Max.8ch	Layer2+Layer2
Network			
Interface	Ethernet	RJ-45x2	10/100/1000Base-T
FEC	Redundancy 10% to 50% (in 10% steps)		
Management	SNMP, Telnet, HTTP		
Maintenance port			
Control 1	Ethernet	RJ-45	10/100Base-TX
Control 2	RS-232C	Dsub9P	Also used for user data
Specifications			
Power	AC powered model	AC85 to 264V 50/60Hz	
	DC powered model	DC 10.7 to 17.0V	
Power consumption		Approx. 50VA	
Operation temperature		-10 to +50 (non-condensing)	
Dimensions		210(W)x450(D)x44(H) mm	
Weight		Approx. 3.5kg	

Product Name AC powered model:VC-5800-AC
 DC powered model:VC-5800-DC

NEC maintains a policy of product improvement and reserves the right to modify the specifications without prior notice.

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