



Encoding & DVB-S/S2 Modulation

Latency 150ms

Chroma Format 4:2:0 4:2:2

Resolutions up to 1080p

L-Band or IF output

Introduction

DMP-9724SNG designed for Teleports, Digital Satellite News Gathering Vehicles, and it is operating on either the C, Ku or Ka-bands.

As a representative model of CASTWIN, it is the best performing and fully programmed high-end encoding. Also, it has DVB-S/S2 modulation with the highest video quality and the lowest latency.

Competitiveness

- Providing your viewers with the best performance compression and flawless picture quality
- Wide use in many projects with high compatibility supporting various formats
- Best choice for broadcasting of racing, sports via real time encoding with ultra low latency, at 150ms
- Reduce the cost of transmission as supporting wide range of bit-rate control and advanced video coding techniques
- Able to Secure space with compact size for installing

Options

- IP Streaming output

Feature

- Component, Composite, HDMI, HD/SD-SDI video inputs
- Ultra low latency as 150ms
- Up to 1080p supported
- Support 4:2:0(8bit), 4:2:2(10bit)
- Digital, Analog and SDI embedded audio(8channel) inputs
- 5.1 channel Dolby Digital (AC-3) encoding support
- 7.1 channel SPDIF audio optical input (pass through)
- Additional 1xASI input for supporting of insertion of externally generated PSIP into the transport stream
- Provides internally generated PSI, PSIP, SI
- Control of Frame rate
- Selectable MPEG-2 HD or H.264 HD real-time video encoding
- Simultaneous outputting of 2xTransport stream (ASI) with UDP/IP or RTP/IP transport stream.
- Dolby Digital (AC-3), MPEG-1 Layer II, AAC-LC, HE-AAC audio encoding
- Supports EIA-708 Closed caption insertion via HD SDI(SMPTE 334).
- Supports internally generated TVCT, CVCT, SDT, NIT
- Excellent IP converter integrated performance
 - Much lower latency & stable IP output
- Control and monitoring via web browser, front panel, or SNMP
- 4 channel AES/EBU Digital Audio
- 4 stereo (8channel) Analog input with D-sub type
- Integrated Advanced Scaler function
 - Control of Frame rate, Image enhance
 - Phase Noise, Correction of Color, Control of Gamma
- L-Band Output 950 ~2150 MHz or IF Output 50 ~ 180 MHz
- DVB-S/S2 Modulation
- BISS mode-1 and BISS mode-E support
- Designed for Teleports, Digital Satellite News Gathering Vehicles
- Operating on either the C, Ku or Ka-bands
- Symbol Rate: 1 baud ~ 68 Mbaud

Head Office / Laboratory

#40-12 Teheran-ro 38-gil, Gangnam-gu, Seoul, Korea 135-920

Phone : +82 2 6005 9115

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DSNG Encoder

DMP-9724SNG

Specifications

ITEM		CHARACTER		
Video Input	Analog	Input Level	Composite, Component 1 Vp-p	
	Digital	Input Level	HDMI, HD-SDI 1000 mVp-p (HDMI) 800mVp-p (HD-SDI)	
	Resolutions		480i29.97, 576i25, 720p50/59.94, 1080i25/29.97, 1080p25/29.97	
	SD Aspect Ratio		4:3, 16:9	
Audio Input	Analog	Input Freq. Range Impedance Connector	4 Stereo 20 Hz ~ 20 KHz 600 Ω D-SUB 1.5pin x 2	
	Digital	Input Sampling Rate Connector	4 x AES-EBU, Embedded SDI/HDMI (4 Stereo 8 Channel) 32, 44.1 and 48 KHz BNC (75Ω) / HDMI-19PIN	
	Optical	Input	SPDIF(7.1 Channel) pass through	
	Encoding		MPEG-2 HP@HL, MP@HL, MP@ML H.264 HP@L4, MP@L3	
Video Encoder	Encoding Rate		MPEG-2 : 1.6~50 Mbps , H.264 : 0.6~50 Mbps	
	Chroma Depth		4:2:0(8bit), 4:2:2(10bit)	
	PSNR		38 dB	
	Bit Rate Mode Latency		CBR,VBR 150 ms~	
Audio Encoder	Input Sampling Rate		32, 44.1, 48 KHz	
	Output sampling Rate		48 KHz	
	Encoding	MPEG-1 Layer II (2ch) AAC LC (2ch, 5.1ch)	AC-3 (2ch) HE-AAC v1 (5.1ch)	AC-3 Pro (2ch, 5.1ch) HE-AAC v2 (2ch)
	Audio Mix		4 Stereo (8channel) or 5.1ch	
	Bit Rate	AC-3 AC-3 Pro MPEG1 AAC LC HE AAC v2 AC-3 Pro 5.1 AAC LC 5.1 HE AAC v1 5.1	128, 192, 256, 384 KHz 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz 64, 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz 32,48,56,64,80,96,112, 128,160,192, 224, 256, 320,384 KHz 32, 48, 56, 64, 80, 96 KHz 224, 256, 320, 384, 448, 576, 640 KHz 96, 112, 128, 160, 192, 224, 256, 320, 384 KHz 96, 112, 128, 160, 192, 224, 256 KHz	
	Dolby E-Pass Through		*Under the audio input source of Dolby-E only	
	Delay		-100 ~ 400 ms	
	TS Input	Transport Stream	DVB-ASI 1port	Mode code QPSK, 8PSK, 16QAM
		Connector	BNC (75 Ω)	Roll-Off 0.05 ~ 0.35
		Packet Format	188 Byte	BISS Mode (1,E Injected, E Buried)
Output Level		800 mVp-p	Symbol Rate 1 ~ 68Mbauds	
TS Output	Transport Stream	ASI 2port	Mode code QPSK, 8PSK, 16APSK, 32APSK	
	Connector	BNC (75 Ω)	Roll-Off 0.05 ~ 0.35	
	TS Bit Rate	MPEG-2 : 2.5~55 Mbps , H.264 : 2.5~55 Mbps	BISS Mode (1,E Injected, E Buried)	
	Packet Format	188 Byte	Symbol Rate 1 ~ 68Mbauds	
IP TS Output (Option)	Output	1 port	Pilot Insertion	
	Connector	RJ-45	Operating Mode CCM only	
	Ethernet type	10/100/1000 Base-T	Frame Type Normal / Short	
	Stream Protocol	UDP/IP, RTP/IP		
Ethernet	Broadcasting	Multicast, Unicast		
	TS Bit rate	MPEG-2 : 2.5~55 Mbps , H.264 : 2.5~55 Mbps		
	Connector	RJ-45	Reverse Spectrum	
	Interface Type	10/100 Base-T	Tilt Correction -0.040 ~ 0.040 dB/MHz	
General	Protocols	SNMP	Carrier Modulator	
	Power Requirements	AC 90~230 V, 50/60 Hz	Out Level -35.00 ~+5.00 dBm	
	Power Consumption	Max. 100 W	L-Band 950 ~ 2150 MHz	
	Weight	4 Kg	IF 50/180MHz	
Operating Temperature	-10 ~ 50 °C			
Dimensions (W x H x D)	482 x 44 x 483 mm			

Configuration

