Digiwave Labs
Innovation & excellence

DIGIWAVE DMS-210

SDI to Analogue Multistandard Encoder with 12 bit conversion

- Multistandard PAL B, PAL N, PAL M, NTSC and NTSC 4.43, composite video outputs.
- Y, Pb, Pr, RGB*, Y/C selectable outputs, simultaneous with the composite outputs.
- 12 bit D/A conversion with 8x oversampling.
- Excellent linearity and signal to noise ratio.
- SDI 270 Mb/s input with re-clocked loop-through SDI output.
- Automatic selection of input standard.
- Frame Synchroniser option.
- Frontal control panel with lighted display and keyboard, with a complete menu of controls and adjustments.
- Programmable blanking in the vertical interval. Vertical interval data pass or blank.
- Genlock with digital adjustments and sub-nanoseconds resolution.
- Built-in test signals.
- Selection of output signal in the event of input signal loss.

TECHNICAL SPECIFICATIONS

General

Input:	SDI, 270 Mb/s. EBU Tech 3267 and SMPTE 259M-C
Processing:	10 bit
D/A conversion:	12 bit with 8x oversampling
Composite Video Output:	PAL (B, G, I), PAL N, PAL M, NTSC M, NTSC 4.43
Display:	High performance alphanumeric display, 4 characters.

Performance

Luminance	
Frequency response	+/- 0.1 dB to 5.5 MHz
Differential gain:	0.5 %
Differential phase:	0.5 %
Transient response:	< 1%, K 2T factor
Noise spectrum:	- 68 dB weighted
Luma/chroma delay:	< 5 ns
SC/H relationship:	< 2º

Controls and adjustments

Main menu

Luma :	+/- 3dB
Black:	+/- 100 mV
Chroma:	+/- 4.5 dB
NT Hue (Tint):	+/- 30º
H-Peaking:	+/- 4 dB

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Input and Output Formats

SDI In / Out	270 Mb/s, BNC
CVBS Out1 / Out2:	1 Vpp / 75 ohms, BNC
Y/C (S-Video):	1 Vpp Luma, 0.3 Vpp Croma / 75 ohms, BNC
Genlock:	1 Vpp / 75 ohms, loop-through BNC
Y,Pb,Pr Out:	1 Vpp / 0,7 Vpp / 0,7 Vpp / 75 ohms, BNC

Power

Power Consumption:	Less than 5 W

Versions

DMS210	SDI to Analogue Multistandard Encoder.
DMS210 / FS	SDI to Analogue Multistandard Encoder, with Frame Synchroniser.
DMS210S	SDI to Analogue Multistandard Encoder. Composite video outputs only.

(*) Y, Pb, Pr or RGB selectable output.

Specifications are subject to change without notice due to continuous product development and improvement.

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