

DIGIWAVE DTC-203S

10 bit Broadcasting Transcoder



- Bi-directional Transcoding PAL (B, G, I), PAL N.
- Five-line high performance adaptive comb filter. Bandwidth 6 MHz.
- 10 bit precision, 4:2:2 processing and conversion, with oversampling.
- Differential composite video input.
- Four composite video outputs.
- User friendly control panel with graphic lighted display, keyboard, and extensive selection and enhancement facilities.
- Luma gain, chroma gain and black level controls.
- Horizontal and vertical (aperture correction) enhancers.
- Selectable input filter.
- Selectable luminance bandwidth.
- Switchable bypass in the vertical interval. Allows the pass of the "close-caption" signals.
- Selection of lock reference: output subcarrier locked to horizontal, to the input subcarrier or to internal reference.
- Selection of output signal in the event of input signal loss or error.
- Programmable test signal patterns
- Dual redundant power supply and monitor of power supplies.
- Specially recommended as PAL B to PAL N transcoder for broadcasting signals.

TECHNICAL SPECIFICATIONS

General

Processing:	10 bit, 4:2:2
Decoder:	Digital multistandard with 2x oversampling
Encoder:	Digital multistandard with 4x oversampling
Comb filter:	5 lines, adaptive, for PAL (B, G, I), PAL N
Display:	LCD, graphic, lighted.

INPUT STANDARDS AND FORMATS

Input TV standard:	PAL (B, G, I), PAL N
Composite Video Input:	1 Vpp/75 ohms, BNC

OUTPUT STANDARDS AND FORMATS

Output TV standard:	PAL (B, G, I), PAL N
Composite Video Output:	1 Vpp / 75 ohms, four outputs BNC

Performance

Luminance bandwidth:	6 MHz
Differential gain:	< 1%
Differential phase:	< 1%
Luminance linearity:	< 1%
Transient response:	< 1%, K 2T factor
Signal to noise ratio:	> 62 dB (Ramp signal, weighted)
Luma/chroma delay:	< 10 ns
Processing delay:	204 us (PAL B to PAL N)

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Controls and adjustments

Luma gain:	+ / - 6 dB
Black level:	+ / - 100 mV
Chroma gain:	+ / - 6 dB
Horizontal enhancer:	0 to + 6.5 dB
Vertical enhancer:	0 to + 5.5 dB
Decoder filter:	Comb - Notch 1 - Notch 2 - Notch 3
Bypass VBI:	On - Off
No signal output:	Black, Bars
Lock reference:	SC/H (Studio) - SC Input (VCR) - Internal for input signal fault
Bars generator:	On, Off
Non volatile memory:	Store, Recall, Preset

PHYSICAL AND POWER

Power supply:	100-240V, 50-60 Hz, 25 VA
Dimensions:	1 UR, 19" rack mounting 483 mm (W) x 44 mm (H) x 335 mm (D)
Weight:	4,5 Kg.

Options

DTC-203S / FD	Dual redundant power supply and monitor of power supplies.
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Specifications are subject to change without notice due to continuous product development and improvement.

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