D100 NTSC DECODER

The D100 represents a significant cost/performance breakthrough in the art of NTSC decoding, using the adaptive comb filter technique.

Digital separation of luminance and chroma delivers full bandwidth decoded outputs, free of NTSC artifacts.

All decoding parameters, including filter weighting algorithms and luminance equalization, are digitally controlled from the front panel or from an optional remote panel. A front panel bar graph indicates deviation from unity of each parameter. Three complete control panel settings may be stored in the on-board, non-volatile memory, and recalled on command.

Input switching on the D100 allows either NTSC or S-VHS YC signals to be selected. Simultaneous outputs of YC, Y/R-Y/B-Y and RGBS, are provided on the rear panel. Internal pinning allows sync to be added to any or all of the RGB outputs.

Impeccable performance, combined with a unique control system and multiformat outputs, make the D100 the ideal choice where precision decoding of composite NTSC is essential.

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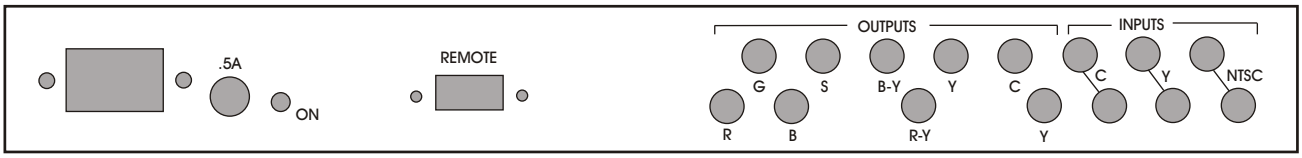

D100 SPECIFICATIONS

INPUTS (all connectors BNC)

1. NTSC analog (RS170A).....	1Vp-p, looping
2. S-VHS YC (75% sat. bars).....	Y - 1Vp-p, C - 643mV, looping

OUTPUTS (all connectors BNC)

1. S-VHS YC.....	Y - 1Vp-p, C - 643mV into 75 ohms
2. Y/R-Y/B-Y.....	calibrated for Betacam*, MII* or SMPTE levels
3. RGB, non-composite (sync may be added to any output via internal jumpers).....	525mV for 75% saturated bar input
4. SYNC.....	4Vp-p into 75 ohms

VIDEO PERFORMANCE

Digital sampling frequency.....	14.3 MHz (4 fsc)
Quantization.....	8 bits
Frequency response Y,R,G,B.....	+/-0.5dB to 4.5 MHz, -1.5dB at 5 MHz
Luminance linearity.....	1.5%
K Factor, 2T.....	< 0.5%
H & V Tilt.....	< 0.5%
Subcarrier rejection.....	> 36 dB
YC timing error.....	< 20 ns
Overall path length (NTSC to RGB).....	1 line + 3.0 usec

FRONT PANEL CONTROLS (digital, pushbutton operation)

Hue.....	equivalent to +/- 30° in 2.5° increments
Saturation.....	increase 60%, decrease 60%
Luminance Equalization.....	up to 2dB at 5 MHz

Weighting Factor (YC separation algorithms)
Three memory positions and memory store/recall of all above parameters.
Input video switching..... NTSC or YC
Front panel bar graph indicates relative offset from unity of all parameters.

REMOTE CONTROL (optional)
One rack unit panel, identical to front panel, RS422 control

POWER..... 100-120/220-240 VAC, 95 VA

MECHANICAL

Main chassis.....	1.75" x 19" x 12" (1 rack unit)
Remote panel.....	1.75" x 19" x 2.75" (1 rack unit)

* Betacam is a Sony trademark
MII is a Panasonic trademark

Specifications subject to change without notice.