

BROADCAST DIGITAL QUAD EFFECT - TITLE and TALLY 4 x ASYNCHRONOUS 4:2:2 SERIAL DIGITAL and / or CVS INPUTS

DMV 510

The **DMV510** broadcast quad effect has been specifically designed for production or post-production applications in digital environment.

It performs high quality quad effect at very attractive cost, by avoiding to use several expensive DVE channels.

The four asynchronous serial 270 Mbit/s or CVS signals input are resized in real time to fit into any part of the final video output.

4:2:2 SERIAL or CVS INPUTS

Features

- 4 serial 4:2:2 or CVS inputs mixed possibility 2 by 2 with active loop-through
- 4 serial 4:2:2 outputs
- Analog video reference input with loop-through
- Real time processing of input signals
- 10-bit 2D filtering
- Fully digital process
- 525 / 625-line (factory set up)
- Genlock on reference input
- Assignment of input sources to final positions on quad programme
- Border function colour and width selections
- Text generator function with colour selections
- Tally controls by GPI
- Programme management with alphanumeric display and push-button in front edge of Controller card
- Optional remote control panel

- Production
- Post-production

- Outside broadcasts or ENG
- Camera monitoring
- Sound mixing
- Sport coverage
- Nodal switching centre



QUAD OUTPUT

Tally and Title

Technical Specifications

INPUTS

DIGITAL : 4:2:2 SMPTE 259M-C (270 Mbit/s) with active loop-through
 CABLE LENGTH : > 250 m
 RETURN LOSS : > 15 dB up to 270 Mhz
 ANALOG : PAL - SECAM - NTSC standards with active loop-through
 REFERENCE : Analog composite video with passive loop-through
 RETURN LOSS : > 40 dB up to 5 MHz

OUTPUTS

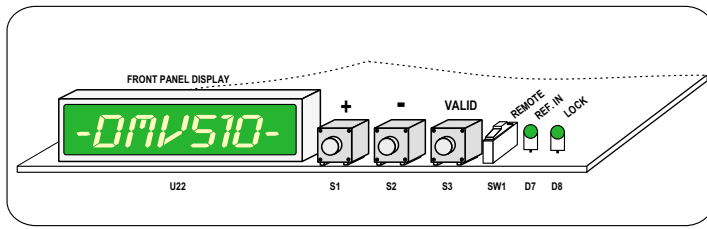
DIGITAL : 4:2:2 SMPTE 259M-C
 RETURN LOSS : >15 dB up to 270 Mhz

PROCESSING PERFORMANCE

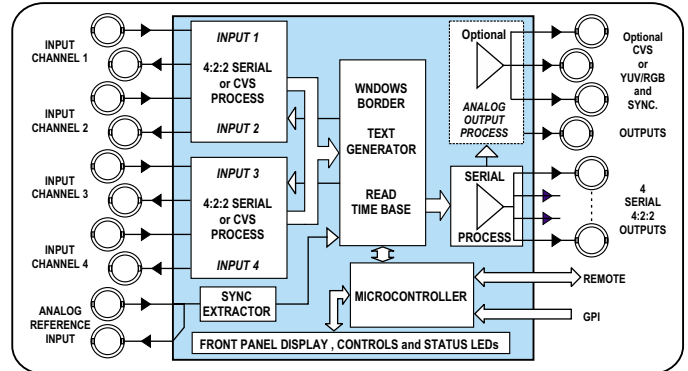
SIGNAL : 10-bit 2D filtering
 SAMPLING : 27 Mhz
 FREQUENCY RESPONSE : ± 0,1 dB 100Hz to 5 Mhz
 POWER : < 30 W

DMV 510

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Front edge of DMV510 controller board



Functional block diagram

User Controls

FRONT PANEL CONTROLS, DISPLAY and STATUS LEDs

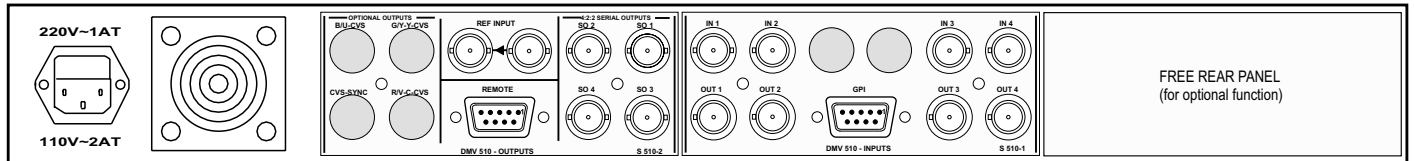
S1 : PLUS increases value of selected parameter or forward in listing of the parameters
S2 : MINUS decreases value of selected parameter or backward in listing of the parameters
S3 : VALID enables one of the parameters and store the new value

U22 : Screen DISPLAY D7 : REF. IN "ON"
SW1 : Remote "ON" "OFF" D8 : LOCKED

Mounting Frames

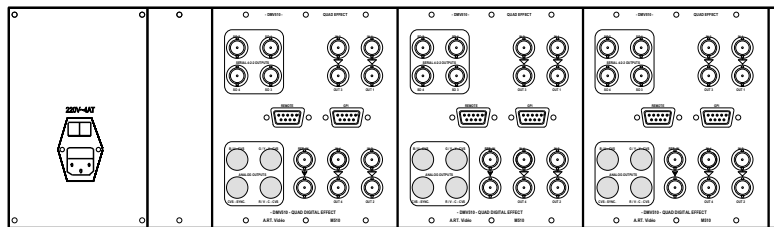
19" 1RU RACKFRAME (1 x DMV510)

DIMENSIONS : 1RU x 380 mm deep WEIGHT : < 5kg TEMPERATURE RANGE : 0-40°C POWER : 80 W max POWER INPUT RANGE : 97-240 V / 50-60Hz

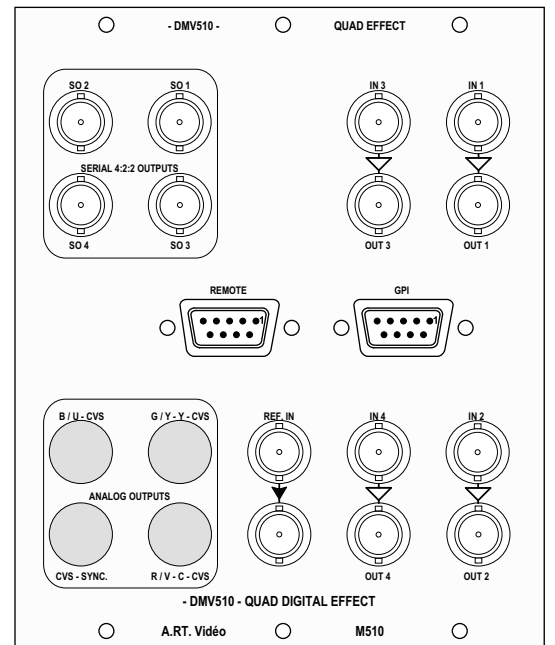


19" 3RU RACKFRAME (Up to 3 M-DMV510)

DIMENSIONS : 3RU x 410 mm deep WEIGHT : < 15kg TEMPERATURE RANGE : 0-40°C
POWER : 150 W max POWER INPUT RANGE : 88-135V or 185-264V (switchable) 50-60 Hz



REAR PANEL 3U RACKFRAME WITH SINGLE POWER SUPPLY (UP to 3 single 21 TE WIDTH M-DMV510)



3U MODULE REAR PANEL

Ordering informations

19" 1RU rackframe

19" 3RU rackframe

DMV510 : 19" 1RU rackframe Quad digital video effect (Electronic plug in boards and rear panels)

M-DMV510 : Quad digital video effect 3U module for 19" 3RU rackframe (Electronic plug in boards and rear panel)

RCP520 : Optional Quad digital video effect remote control panel

RACK3U-1 : 19" 3RU rackframe with single power supply
RACK3U-2 : 19" 3RU rackframe with redundant power supply
BPM-1 : blank rear panel unit

Specifications and designs are subject to change without notice

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