MOSAIC A.R.T.

BROADCAST DIGITAL MOSAIC
4 up to 16 COMPOSITE *or* SERIAL DIGITAL VIDEO SOURCES

DMV 520

Digital MOSAIC

- Visual monitoring of 4 to 16 asynchronous composite or 270 Mbit/s serial digital video sources
- Real time processing of input signals
- Assignment of inputs to a particular segment of the output picture
- transmission or recording of multiple-image signal
- Compact, easily operated equipment
- Title generator and tally functions
- Excellent price/performance ratio

ART Video
Audiovisuel • Recherche • Technologie

Simultaneous monitoring of four asynchronous sources ...

The mosaic **DMV 520**, using the latest in digital technology, provides a number of solutions to displaying several video sources simultaneously on the same screen.

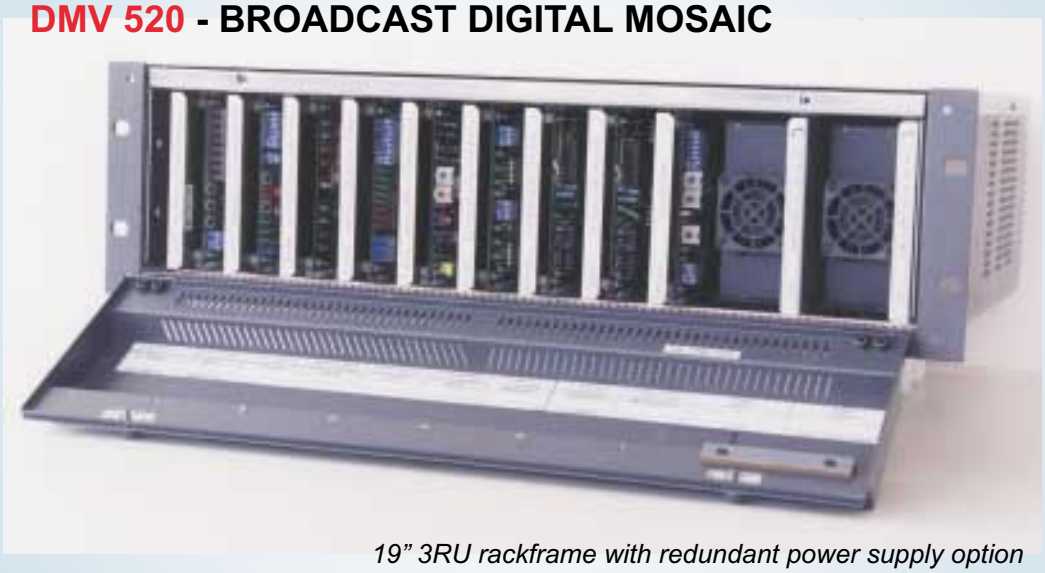
There are many applications such as guide channels for multi-channel broadcasting, video monitoring, virtual wall screen, video projection application, video monitoring, remote surveillance, ...

The digital MOSAIC provides flexibility over the display mode as well as the number of channels viewed. In full configuration, a particular mode may be accessed :
- from the control board, via menus
- from a remote control panel or computer terminal, via an RS422/485 interface.

Features

- 4 up to 16 composite or serial 4:2:2 inputs with active loop through
- Analog video reference input with loop-through
- 4 serial 270 Mbit/s outputs
- Real time processing of input signals
- 10-bit 2D filtering
- Fully digital process
- Assignment of input sources to final positions on output Image
- Border generator with colour and width controls
- Tally controls by GPI
- Operation from front panel of "controller" card
- Remote control panel with RS422/485 interface (Optional)
- Composite and / or RGB / YUV outputs (optional)
- Title generator

DMV 520 - BROADCAST DIGITAL MOSAIC



19" 3RU rackframe with redundant power supply option

NUMEROUS OPERATIONAL APPLICATIONS

Camera monitoring

Several channels on one monitor, with the benefit of identical colour correction, luminance and contrast parameters

Post-production

Whether editing off-line or on-line, operators need to view several images at the same time. This is much easier to achieve when there is only a single screen to watch.

Sound mixing

Sound engineers can have all the right pictures for intelligent mixing, without needing a large bank of monitors.

Nodal switching centre

The proliferation of television channels makes it necessary to monitor a growing number of pictures, which is impossible to achieve simultaneously without an unwieldy monitor bank and a field of vision that is too wide.
Here again, the mosaic approach provides an intelligent solution, with added flexibility.

Outside broadcasts or ENG

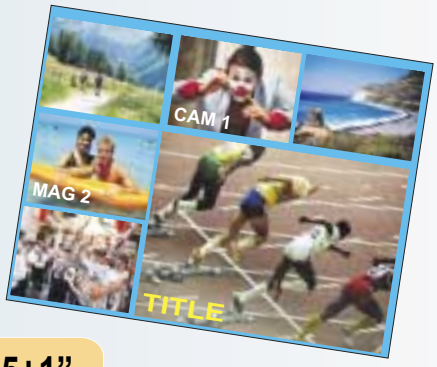
In mobile applications, space and weight are particulary important. Reducing the number of dedicated monitors by a factor of 4 or more is a major advantage.

Sports coverage

Commentators can watch the action from several different angles, giving a more accurate view of events and making commentating easier.

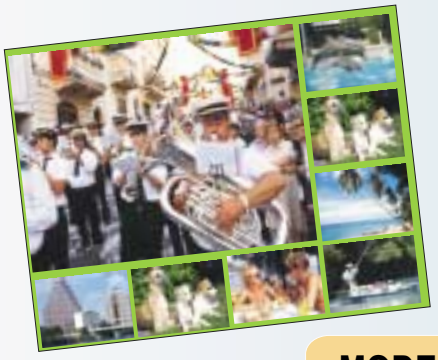
DISPLAY MODES

MODE “4”



MODE “5+1”

4 corners available



MODE “7+1”

4 corners available

MODE “9”

MODE “8+2”

4 corners available

MODE “12+1”

MODE “16”

DMV 520

BROADCAST DIGITAL MOSAIC
4 up to 16 ASYNCHRONOUS SERIAL DIGITAL 270 Mbit/s or CVS INPUTS

User Controls

MENUS ON FRONT PANEL OF "CONTROLLER" BOARD or OPTIONAL REMOTE CONTROL PANEL

CONFIG :	Output configuration - Mode "4" up to Mode "16" according to the number of input board
LOCATION :	Assignment of input sources to final screen positions according to configuration choice
BORDER :	Border generator : width, colour bars 75% or 100%, black or white selections
BCK-GND :	Back-ground function : colour border choice on final picture of input source when input source is not detected
FREEZE :	Freeze function for each input sources
F-RESET :	Unfreeze function for all input sources
SAVE :	Save the output picture configuration to the selected memory, numbered from 1 to 15
LOAD :	Load the output picture configurations from the selected memory, numbered from 1 to 15
TITLE IN :	Input title editor

Technical Specifications

SERIAL INPUTS

SIGNAL : 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 COMPOSITE INPUTS

SIGNAL : PAL-NTSC-SECAM with active loop-through

ANALOG REFERENCE INPUT

SIGNAL : Analog video 1 Vp-p with passive loop-through

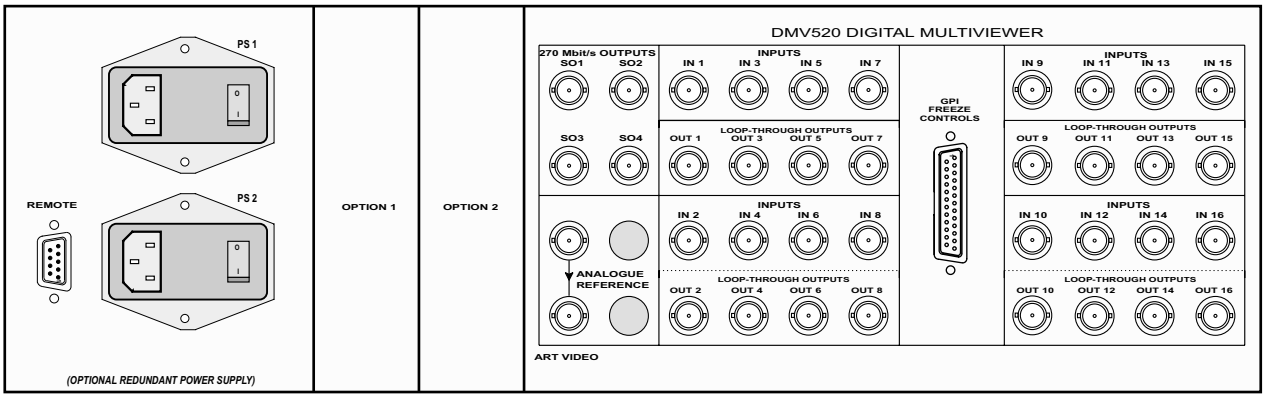
RETURN LOSS : > 40 dB up to 5 MHz

SERIAL OUTPUTS

SIGNAL : 4:2:2 SMPTE 259M-C (270 Mbit/s)

RETURN LOSS : > 15 dB up to 270 MHz

Mounting Frame



- REAR PANEL -

19" 3RU RACKFRAME

The 19" 3U rackframe holds up to 10 modules with single power supply unit and 9 modules with redundant power supply unit. Access is given to electronic modules by rocking down the front panel. Ventilation of the rack is performed by forced convection.

DIMENSIONS : 3RU x 410 mm deep
WEIGHT : < 15 kg

TEMPERATURE RANGE : 0 - 40°C
POWER : 150 W max

POWER INPUT : 88-135 V or 185-264 V (switchable) 50/60 Hz

Ordering informations

- MODES -

REFERENCES	"4"	"5+1"	"7+1"	"9"	"8+2"	"12+1"	"16"
DMV520-04	✔						
DMV520-06	✔	✔					
DMV520-08	✔	✔	✔				
DMV520-10	✔	✔	✔	✔	✔		
DMV520-14	✔	✔	✔	✔	✔	✔	
DMV520-16	✔	✔	✔	✔	✔	✔	✔

- OPTIONS -

B-SDC520 :	2 channels serial digital 270 Mbit/s input board
B-CVS520 :	2 channels PAL-NTSC-SECAM input board
RCP 520 :	Remote control panel
RPS3U :	Redundant power supply
OPTION 1 :	Choice on the 3U module ART range
OPTION 2 :	Choice on the 3U module ART range

- Specifications and designs are subject to change without notice -

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