

ON-2000

Technical Specifications

The Omni Navigator

Seamless Graphic Switcher

FSR

Video Products Group



USER CONTROLS

- Source Selection:** 9 illuminated keys support selection of the eight sources or black screen.
- Transition Effects:** 3 illuminated keys: wipe, dissolve, and cut. Also controls the P-I-P and Key Functions
- Program Keys:** 5 illuminated keys support generation, storage, recall, and editing of the preprogrammed control sequences.
- Freeze Key:** A single illuminated key used to freeze the image on the main output.
- Setup Controls:** Display, control knob, and 8 keys provide a menu-based front panel interface to support all setup functions.
- Test Patterns:** Horizontal Ramp, Horizontal Bars, Burst, Color Bars, Black, and White Cross Hatch
- Raster Box:** Available independently & simultaneously on the Preview and Main outputs

MIXING AND TRANSITION EFFECTS

- Transition effects:** Cut, Dissolve, Wipe, Freeze, Picture-In-Picture (P-I-P), and Luminance Key
- Transition times:** Adjustable from 0.1 to 5.0 seconds for Wipes and Dissolve
- Wipe Types:** Up, Down, Left, Right, Mosaic, Curtain Open, Curtain Close, Curtain Up, Curtain Down
- Wipe Edge Control:** Adjustable edge width of effect. Possible selections are: 4, 8, 16, 32, 64, 128, and 256 pixels. (Available on Preview Output also, requires use of FSR's HELM Controller.)
- Transitions for Keying:** Up, Down, Left, Right, Mosaic, Curtain Open, Curtain Close, Curtain Up, Curtain Down
- Freeze Key:** Used to freeze the image on the main output.
- Picture-in-Picture Control:** Size & Position

VIDEO ROUTER

- Number of Inputs:** 8
- Signal types:** Composite (NTSC / PAL), S-Video, Component (RGB or YUV), RGB, RGBS, RGBHV, RGsB, Sync on Green, Sync on Video, BETA 60, BETA 50, MII, EBU, HDTV: 480p / 720p. Input levels are independently programmable for RGB & YUV sources. Programmable luminance & chrominance levels are provided for S-Video and Hue / Saturation Controls are provided for NTSC inputs.
- Input Resolutions:** 640x480, 800x600, 1024x768, 1280x720, 1280x768, 1280x1024, 1365x768, 1365x1024, and 1600x1200
- Connectors:** 5 - BNC's per input
- Gain:** Unity
- Bandwidth:** 350 MHz
- Crosstalk:** - 53 dB @ 100 MHz
- Video level:** 0.7v P-P Nominal
- Impedance:** 75 Ohm
- Horizontal frequency:** Automatic Detection: 15kHz – 100kHz
- Vertical frequency:** Automatic Detection: 50Hz – 100Hz
- De-Interlacer:** Motion Adaptive
- 1 : 1 Pixel Sampling:** Produces a superior image by sampling the analog graphics signals at exactly the same rate as that of the original source, allowing the image to be re-constructed with little or no digitizing effects.
- Digital sampling:** 24 bit sampling/8 bits per color @ 140 MHz

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VIDEO OUTPUT

Number of outputs:	1 Main & 1 Preview
Main Outputs:	Two independently buffered output channels: One RGBHV with five BNC connectors One RGBHV with an HD-15 connector
Preview Output:	RGBHV with a HD-15 connector.
Signal types:	RGBS , RGBHV
Video level:	0.7v P-P Nominal
Impedance:	75 Ohm
Scaled resolutions:	RGB video in user-selectable format: 640x480, 800x600, 1024x768, 1280x720, 1280x768, 1280x1024, 1360x765, 1365x1024.
Switching type:	Seamless transitions, cuts, wipes, and fades, with programmable durations and adjustable pixel edges.

SYNC

Input type:	Automatic Sync Format Detection / Sync-on-Green; Composite, or H & V
Output type:	Composite (RGBS) or H & V (RGBHV) with programmable sync polarity
Standards:	NTSC & PAL
Input level:	0.3v – 5.0v P-P
Output level :	TTL Sync

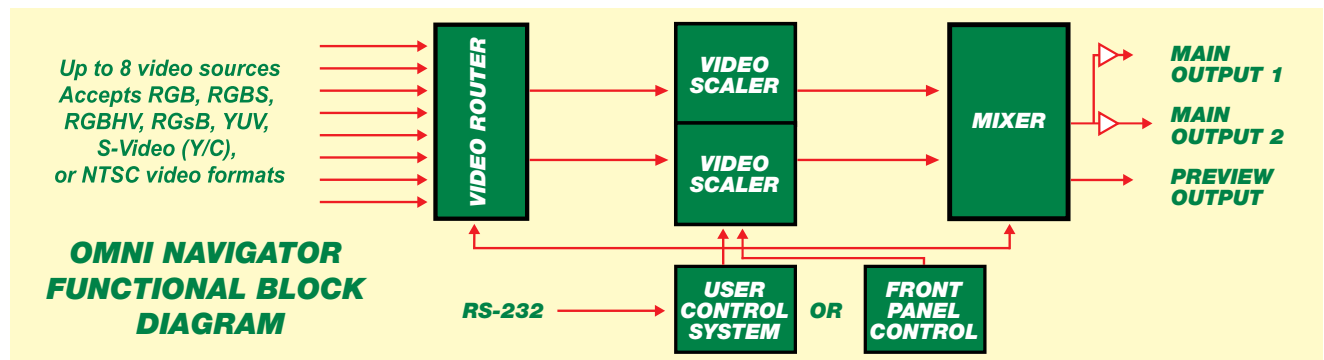
REMOTE CONTROL

Remote Control:	Via HD-25 Pin Connector which is a re-configurable RS-232/485 port for real-time control. Serial command format is compatible with FSR HELM Controller, Crestron, and AMX, control systems.
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GENERAL

Power:	47v – 264v AC, 47 – 63 Hz, 175 Watts
Temperature/Humidity:	0∞ – 40∞ C, 0% – 97% Non-condensing
Rack mount:	3 RU
Enclosure type:	Metal
Enclosure dimensions:	5.25" H x 17" W x 13" D
Weight:	22 lbs. (Shipping Weight: 30 lbs.)
Approvals:	UL, CUL, CE, FCC Class A
Warranty:	All video products are designed and tested to the highest quality standards and are backed by a full three-year parts and labor warranty.

Specifications are subject to change without notice



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