

# TV One MWP-MTO CORIOview Multi-Window Processor

## Video Processing

- Technology CORIO®3
- Performance Inputs up to 4K60 & Output up to 4K30
- Format conversion Up/Down/Cross Conversion
- Max. number of Windows 8

## Windows

- Windows Up to eight windows\*
- Borders Configurable color & thickness
- Labels Available on all windows
- Transitions Available when changing sources or Presets

## Presets

- Number of presets available 16\*
- Accessible from front panel 16\*
- Preset effects Transitions, fade through black or window movement

## Configuration & Control

- Application CORIOgrapher software
- Platform PC with Windows 10 & Windows 7 minimum
- Standby Mode Faster boot up & saves power

## Control Ports

- RS-232 D9 Female Connector
- IP Interface RJ45 Connector
- USB Type B - for future use

## Video Inputs

### 4H-1Y

- Input connectors 4 x HDMI - HDMI 1.4 & HDCP 1.4 compatibility
- Resolution support (4:4:4):
- 480i, 576i - 24Hz to 60Hz
- 720p (1280x720) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- 1035i (1920x1035) - 59.94, 60Hz HDMI-4in - 1080i 50, 59.94, 60Hz
- 1080p (1920x1080) -23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- Color format support RGB, YCbCr 4:4:4, 4:2:2 & 4:2:0
- Color depth 8 bpc (24 bit/px)
- Color space support BT.601 on standard resolutions
- BT.709 for 720p, 1080i, 1080p

### 8H-1Y

- Input connectors 8 x HDMI - HDMI 1.4 & HDCP 1.4 compatibility
- Resolution support (4:4:4):
- 480i, 576i, 24Hz to 60Hz
- 720p (1280x720) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- 1035i (1920x1035) - 59.94, 60Hz
- 1080i (1920x1080) - 50, 59.94, 60Hz
- 1080p (1920x1080) -23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- Color format support RGB, YCbCr 4:4:4, 4:2:2 & 4:2:0
- Color depth 8 bpc (24 bit/px)
- Color space support BT.601 on standard resolutions
- BT.709 for 720p, 1080i, 1080p

### 4Y-1Y

- Input connectors 4 x HDMI - HDMI 1.4 & HDCP 1.4 compatibility
- Input maximum capability Up to 2x 4K@30, 1x 4K@60 per module (2 modules)
- Resolution support (4:4:4):
- 480i, 576i, 24 to 60Hz
- 720p (1280x720) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- 1035i (1920x1035) - 59.94, 60Hz
- 1080i (1920x1080) - 50, 59.94, 60Hz
- 1080p (1920x1080) -23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- 2160p (3840 x 2160) - 23.98 24, 25, 29.97 & 30Hz
- 2160p (4096x2160) - 50/59.94/60Hz
- Resolution support (4:2:0) 2160p (3840 x 2160) - 50, 59.94, 60Hz
- Color format support RGB, YCbCr 4:4:4, 4:2:2 & 4:2:0
- Color depth 8 bpc (24 bit/px)
- Color space support BT.601 on standard resolutions
- BT.709 for 720p, 1080i, 1080p and 2160p

#### **8GS-1Y**

- Input connectors 8 x BNC
- SDI support 3G-SDI 1080p 60/59.94 SMPTE424M-A 2.97/2.967Gbps < 0.3 UI jitter
- HD-SDI 720p, 1035i, 1080i (reduced quality with this because quad
- input is 4:2:0), 1080p SMPTE292M 1.485/1.4835Gbps < 0.2
- UI jitter
- SD-SDI (526/625 lines) SMPTE259M-C 270Mbps < 0.1UI jitter
- Color format support SDI 4:2:2
- Color depth 20 bit

#### **4D-1Y**

- Input connectors 4 on DVI-U connector - HDMI 1.4 & HDCP 1.4 compatibility
- DVI-U Connector supports HDMI, DVI-I, YC, CV, VGA via optional adapters
- Resolution support (4:4:4)
- 480i, 576i - 23.98, 24, 25, 29.97, 30Hz, 50, 59.94, 60Hz
- 720p (1280x720) - 50, 59.94, 60Hz
- 1035i (1920x1035) - 59.94, 60Hz
- 1080i (1920x1080) - 50, 59.94, 60Hz
- 1080p (1920x1080) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- Analog Sync TTL Level, 10KΩ, Pos or Neg
- RGB Level Range 0.5-2.0 Vp-p
- Scan Rate Detection Automatic
- Max Horizontal Scan Rate 150kHz
- Color format support Digital - RGB, YCbCr 4:4:4 & 4:2:2
- Analog - RGBHV, RGBS, RGSB, YPbPr
- Color depth 8 bpc (24 bit/px)
- Color space support BT.601 on standard resolutions
- BT.709 for 720p, 1080i, 1080p
- Television Standards NTSC, PAL

#### **4Hi-1Y**

- HDMI module
- Input connectors 4 x HDMI - HDMI 1.4 & HDCP 1.4 compatibility
- Resolution support (4:4:4)
- 480i, 576i - 24Hz to 60Hz
- 720p (1280x720) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- 1035i (1920x1035) - 59.94, 60Hz
- 1080i (1920x1080) - 50, 59.94, 60Hz
- 1080p (1920x1080) - 23.98, 24, 25, 29.97, 30, 50, 59.94, 60Hz
- Color format support RGB, YCbCr 4:4:4, 4:2:2 & 4:2:0
- Color depth 8 bpc (24 bit/px)
- Color space support BT.601 on standard resolutions

- BT.709 for 720p, 1080i, 1080p
- AVIP module
- IP Input connector 1 on RJ45 connector
- Resolution support Channel 1 : PC and HD resolutions up to 1920x1080p60
- 1920x1200p, 60cvt-rb
- 3840x2160p 30, 29.97, 25, 24, 23.98Hz
- 4096x2160p 30, 29.97, 25, 24, 23.98Hz
- Full scaling support for other resolutions.
- Channel 2 : 1920x1080p60
- Full scaling support for other resolutions.
- Interface 1Gb Ethernet port
- Decoding H.264 (CBP, Main, High)
- Stream bit rates 2 Streams each 25Mbps
- Streaming resolutions Configurable up to 1080p60
- Color depth 4:2:0
- Unicast Streams RTSP, RTMP, HTTP, MPEG-TS
- Multicast Streams RTSP, MPEG-TS

### **Media/Images**

- Interfaces USB 3.0, Internal Storage
- Video Codecs H.264 (CBP, Main, High)
- Video Formats mp4, .mov, .mkv, .m4v, .ts, .mts, .m2ts, .mt2
- Playback Bit Rates Single stream to 100Mbps, Dual Streams to 40Mbps
- **File Playback Resolutions Supported**
- Up to 3480x2160@30fps 1
- Up to 1080p60@60fps Up to 2
- Up to 7680 x 4320 Up to 2 (still images only)

### **Media Handling**

- External 1 x USB 3.0 interface
- Supported devices Flash file systems FAT, FAT32, ext3, ext4, NTFS
- Internal High speed storage up to 128GB per module

### **Audio Inputs\*\***

- Supported sampling rate 48KHz
- Sample size 24 bits
- Supported channels 1 Stereo pair on each input
- \*\*4H-1Y, 8H-1Y, 4D-1Y, 4Y-1Y, 8GS-1Y

### **Audio Output**

- Connector RCA
- Format S/PDIF
- Supported sampling rate 48KHz
- Sample size 24 bits
- Supported channels 1 Stereo pair

### **Video Output**

- Output connector HDMI
- Resolution support
- 720p, 1080i & 1080p @ 24Hz to 60Hz
- 3840 x 2160 @ 23.98Hz 24Hz, 25Hz, 29.97Hz & 30Hz
- Chroma sampling 4:4:4
- Scaling All supported resolutions
- Compatibility HDMI 1.4 & HDCP 1.4
- Color depth 8 bpc (24 bit/px)
- Color space support BT.709 for 720p, 1080i, 1080p and 2160p

### **Embedded Audio Output**

- Supported sampling rate 48KHz
- Sample size 24 bits
- Supported channels 1 Stereo pair

#### **Mechanical**

- Size (H x W x D) 1.73" x 8.54" x 9.61" (44 x 217 x 244mm)
- Weight 3.75 lbs (1.7 Kg) approximately

#### **Regulatory Compliance**

- Main unit FCC, CE, RoHS, UL

#### **Environmental**

- Operating Temperature 0° to +40°C (+32° to +104°F)
- Operating Humidity 10% to 85%, Non-condensing
- Storage Temperature -10° to +70° C (+14° to +158° F)
- Storage Humidity 10% to 85%, Non-condensing
- MTBF 50,000 Hours
- BTU 205 BTU/hr
- Fan Noise 44dBA @ 0.5m

#### **Power Supply**

- External 110v-240v 50-50Hz auto-detecting
- Connector Locking
- Power cable US, UK, EU or AU

#### **Accessories included**

- Quick Start Guide Printed
- USB Key Documentation & Links
- Power Supply Included

#### **Warranty**

- Limited Warranty 5 Years Parts and Labor