

TourMaster Recorder/Switcher

COMMANDER RECORDER

RV-TOURMASTER Four Channel Switcher/Recorder

The Rugged Video TourMaster was created specifically to meet the needs of professional air tour operators.

Features

- Seamless Four Camera Switching
- GPS Automation
- Commander Upload Software
- 1080p60 HD Recording
- Professional Audio Mixing
- WiFi Streaming to iPad/Tablet
- Internal Battery Backup

GPS Automation

- Automatic Operation
 - Camera Switching
 - Soundtracks
 - Narrations
 - Recording
 - Labels & Credits

Upload Software

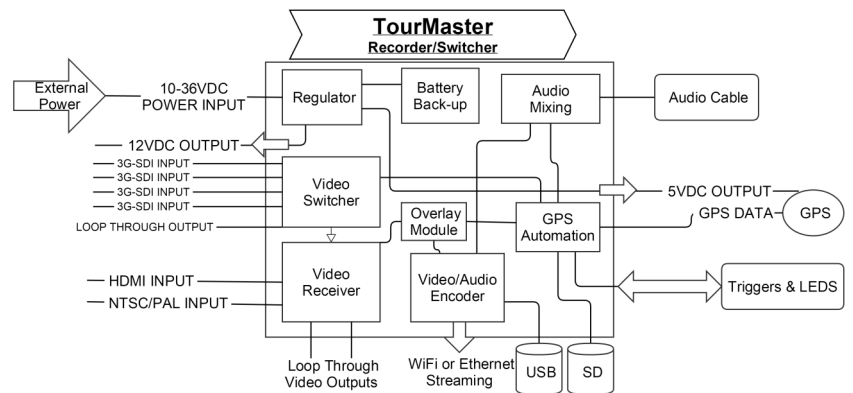
- Digital Delivery
- Automatic Upload
- Ultra-Fast USB Duplication
- Increased Marketing
- Increased Sell Through

Applications

- Helicopter Tours
- Flightseeing



FUNCTIONAL DIAGRAM



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Rugged Video, LLC
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USA

Specifications

SYSTEM



FRONT



REAR



ISOMETRIC



Video

4 x SDI

3G-SDI—SMPTE 424M (1080p60, 1080p59.94, 1080p50)
 HD-SDI—SMPTE 292M (1080i60, 1080i59.94, 1080i50, 1080p30, 1080p29.97, 1080p25, 720p60, 720p50, 720p30)
 SD-SDI—SMPTE 259M (576i, 480i)

1 x HDMI/DVI Single Link (DVI-D)

1920x1200p60, 1920x1200p50, 1440x900p60
 1280x1024p60, 1280x1024p30, 1280x960p60, 1280x960p30
 1280x960p60, 1280x960p30, 1024x768p60, 1024x768p30
 800x600p60, 1080p60, 1080p50, 1080p30, 1080p25
 1080i60, 1080i59.94, 1080i50, 720p60, 720p50, 720p30, 720p25
 480p60, 480p30, 576p50

1 x CVBS

Composite/Analog
 NTSC, PAL, SECAM
 75ohm 1V p-p

Resolution/
 Framerate

Resolutions: 1920x1200, 1920x1080, 1680x1050, 1600x900, 1440x900
 1280x1024, 1280x920, 1280x720, 1024x768, 800x600
 640x480, 640x360, 352x288, 352x576, 352x240, 352x480
 720x240, 720x288, 720x480, 720x576
 Framerates: (60,50,30,25,20,15,10,8,6,5,4,3,2,1)

Compression/
 Bitrate

H.264 (AVC, MPEG-4 Part 10)
 Baseline, Main, and High Profile
 32Kb/s to 16.5Mb/s CBR or VBR
 MJPEG
 2Mb/s to 55Mb/s VBR

Audio

Input/
 Sources

External: Analog Stereo, Line Level up to 8V P-P
 General Aviation, Helicopter (U174), Bose 6-Pin
 Microphone, AUX Jack Input, RCA Input, 1/4" Input, XLR input
 Internal: MP3 (Automator SD Card)
 Soundtracks, Narrations, Safety Messages, Background Music
 Embedded: SDI, or HDMI

Output/
 Destination

Output to Headset(s)/Audio Panel
 MP3 Narrations, Soundtracks, etc. via Automator and/or
 Mixed Automator Audio & AUX Input (iPod, etc.)

Audio Mixing

External/Internal Source Mixing
 Independent Level Adjust 0 to 10x Volume
 2 x Master Gain

Compression

AAC at 64Kb/s or 128Kb/s (32KHz, 44.1KHz, 48KHz)
 G.711 at 64Kb/s

Triggers/Indicators

Triggers

Front Panel: Power On/Off, Record, Automation, Camera Select
 Rear Connector (Remote Mounting): Record, Snapshot, Waypoint, Camera Select
 RF Remote: Record, Snapshot, Waypoint (Optional)

Indicators

Front Panel: Power, Rec, Error, GPS, Camera Sel., Automation Status
 Rear Connector (Remote Mounting): Record, Fault, GPS, Camera Sel.

RUGGED
VIDEO

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Rugged Video, LLC

▶ HDI9 CAMERA



▶ HDX CAMERA



▶ HD29 CAMERA



▶ GPS ANTENNA



Specifications

Automation

Event Triggering	Time, Speed, Direction, Waypoint, Waypoint & Direction, Camera Sel.
Trigger Action	Start/Stop Recording Camera Switching Take Snapshot(s) Play MP3 (Soundtrack, Narration, etc.) Overlay Custom Text on Video (Three Positions)

GPS/Data

Input	RS-232 Baud 2400 to 115200 Garmin 18x LVC, 5Hz, Garmin Aviation NAV Standard NMEA 0183
Sample Rate	Overlay: 20Hz KML/GPX: 1Hz or 5Hz
Sentences	GPS: GPRMC, GPGGA, GPGSA, GPVTG CUSTOM: \$ASCII, TEXT 1, TEXT 2, TEXT 3<CR><LF>
Overlay Data	Coordinates (Degrees, Degrees Minutes, Degrees, Minutes, Seconds) Speed (KT, MPH, KPH) Altitude (Meters, Feet) Heading (Degrees) *VTG only Time/Date Custom (Three Lines)
GPS Companion Files	KML & GPX - Synced with Video GPS Supports Waypoints

Media

SD	SD, SDHC, SDXC (For MP3 & Automation Information)
USB	USB 2.0/3.0 (6MB/s write speed or better) up to 2TB Supports Most USB 3.0 Drives

Power

Input	10 to 36VDC 4.25W Compatible with 12V, 14V, 24V, and 28V Aircraft Power Systems
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Physical

Temperature Range	Operation: -40°C to +85°C (-40°F to 185°F) Storage: -55°C to +105°C (-67°F to 221°F)
Dimensions L, W, H	5.00" x 5.00" x 1.85" / 127mm x 127mm x 47mm
Weight	22.5oz / 638g



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