

The **COMMANDER** was developed with the ambitious goal of being the most advanced, most reliable, and most compact onboard video recorder, ever.

Everyone at Rugged Video is proud to say "Welcome to the Future of Onboard Video". In 2015, Rugged Video will be revolutionizing onboard video with solutions to help customers: capture, upload, and share their videos. The new **COMMANDER DVR** is the flagship of this effort.

Inside the **COMMANDER** is a TI DaVinci High Performance Media Processor which allows for full 1080p recording, full color logo and text overlays, and the rock solid reliability demanded by our aerospace and military customers. Supporting USB 3.0, it can record HD video to four USB flash drives simultaneously.

"Ease of use" was a key focus in the development of the **COMMANDER**. The 2.4" Chroma display allows for live viewing, real-time system status, and fast setup. The **COMMANDER** offers all triggers as built-in and external inputs, making it easy to control recording, take snapshots, and trigger waypoints on the unit or through remotely mounted switches. Record, fault, and GPS status lights are also available for remote mounting so the user can confirm system status when the unit is mounted out of view.

The **COMMANDER** accepts 10 to 40VDC power and can be connected to nearly any aircraft or vehicle power source. An internal battery supplies backup power for up to 2 hours of stand alone operation, making it easy for users to test, playback, and setup without turning on aircraft power.

Built from solid aircraft aluminum, the **COMMANDER** is tough and light weight. Solid state components and construction can hold up to the extreme vibration of rotorcraft and military vehicles. Integrated heat management allows for operation in both high and low temperature extremes. The **COMMANDER** is also compact with a footprint smaller than the average smartphone and just over one and a half inches thick.

The **COMMANDER** isn't limited to a single camera. Modules such as the **COMMANDER SWITCHER** and **COMMANDER MULTIPLEXER** expand the input range. Multiple **COMMANDERS** can also be linked to operate in synchronous with single: GPS, Audio, and Trigger inputs. For flight tours, the system is also compatible with the **COMMANDER SOFTWARE** making it easy to upload and share videos.

Record

- 1080p HD Video
- Four x USB Recording
- Automatic Pre-Roll Video
- Logo & Text Overlay
- Full GPS Integration
- Aircraft & AUX Audio

Control

- 2.4" Chroma LCD
- Onboard Playback
- Remote Triggers:
 - Record
 - Snapshot
 - Waypoint

Expand

- Expansion Modules for:
 - Four Camera Switching
 - Four Camera Multiplexing
 - WiFi Streaming
 - Automatic Uploading



COMMANDER

high definition video recorder

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VIDEO**

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SPECIFICATIONS

VIDEO & AUDIO	Video Input	3G-SDI, HD-SDI SMPTE 424M, 292M
	Resolution	1920x1080 at 30fps
	Scanning System	Progressive
	Video Output	CVBS (NTSC/PAL)
	Video Compression	h.264 (AVC)
	Video Overlay	Text & Logo (Color, Size and Position)
MEDIA	Video Bitrate	12.5mb/s (Adjustable)
	Video File Type	.JPG (2 Megapixel)
	Image File Type	.AVI
	Audio Input	Analog (Aircraft & AUX)
	Audio Compression	AAC (32kHz, 16bit)
	Format	FAT32 (10MB/s Minimum Write Speed)
CONTROL	Overwrite	Yes/No (User Setting)
	Display Type	2.4" Chroma (Anti-Glare)
	Onboard Triggers	Menu, Record, Stop, Snapshot, Waypoint
	External Triggers	Record, Snapshot, Waypoint
	Onboard Indicators	Record, Fault, GPS
	External Indicators	Record, Fault, GPS
DATA	GPS Input	RS-232 NMEA 0183 (Standard GPS)
	Sample Rate	1Hz or 5Hz
	Accelerometer	Internal (+/- 9G X, Y, Z)
	Data Points	Time, Speed, Altitude, Coordinates, Heading
		G-Force: X, Y, Z, Custom Text x 3
	File Types	GPX, KML (for Google Earth)
POWER	Input Voltage	5-40VDC (12-40V for Output)
	Power Consumption	4.5W
	Output Voltage	12VDC at 1000ma
	Internal Battery	3300mAh Lithium Ion
	Battery Life	125 minutes
PHYSICAL	Operating Temp	-40 to +75C (-20 to +75 for LCD)
	Storage Temp	-40 to +85C
	Dimensions	4.368" x 3.045" x 1.670" (l, w, h)
		112mm x 77mm x 42mm (l, w, h)
	Weight	15.9oz, 450g

Configurations

Multi-Channel Recorder

Connect multiple units through the multi-link cable to synchronize recording, GPS, and audio.



Four Channel Multiplexed

Record four HD cameras in a single view with the Commander Multiplexer. Each frame can be freely scaled and cropped for a completely custom picture-in-picture view.



Four Channel Switcher

Create professional, edited videos while in flight from up to four HD cameras. Switch cameras seamlessly, manually, or based on GPS. Automatically add pre-roll intros and use Commander software to upload customer videos online.

