



Rugged High Resolution Digital Video Recorder

Record Clear Full-Speed Zero Latency Video on a Shock and Vibration Proof Recorder

Key Features & Benefits

- High Resolution 720 X 486
- Full-Speed 30 Frames Per Second
- Zero Latency
- Extract Still Images
- Record and View Simultaneously
- Alarm Verification
- LCD Screen for Easy Video Management
- Shock and Vibration Tested
- Embedded Operating System for Maximum Reliability
- Removable Hard Drive
- FREE Software Upgrades

Applications

- Coast Guard
- Commercial Diving
- Conservation and Protection
- Homeland Security
- Law Enforcement
- Military
- Oil & Gas
- Port Security
- Research & Exploration
- Search & Rescue

Product Description

Designed for top side applications, the Viperfish® Land is a high performance shock and vibration proof digital recorder that converts analog video to digital format. It records high resolution video (720 x 486 pixels), at full-speed 30 frames per second with zero latency. The high performance digital platform combines a 1 GHz host processor board with Wavelet compression. Wavelet compression searches the entire field of each frame at once, resulting in no blocking or artifacts. The result is clear, crisp, non-jerky video.

The new digital platform combines a Linux real time operating system with Wavelet compression resulting in clear non-fuzzy video. That's because unlike other compression schemes, Wavelet performs a detailed mathematical analysis of the entire field of each frame at once - as compared to other compression techniques.

Features such as adjustable frame rate and adjustable picture quality allow you to choose the quality of image you wish to record. You can

record and view simultaneously. Overlay audio on the disk to record important thoughts you have at critical times during your project. The Alarm Verification feature allows you to mark important incidents on disk. The Alarm Verification is grouped on the LCD menu for quick and easy access. You can search video by alarms, date, manual fast forward, rewind and file to file. The subtitle feature includes Project ID, Date/Time and Alarms ideal for file management which can be viewed on screen during playback.

Downloading & Viewing Video

The Viperfish® Land gives you several options to view recorded video. The Hard Drive trade named COMRAD™ is a combination reader and data storage device.



COMRAD™ can be removed and connected to a computer for viewing or emailing video clips. The Viperfish® viewer makes viewing video easy. If you prefer to download video from the Viperfish® Land to a separate hard drive, it can be done fast through the USB 2.0 port. On the job you can connect an analog TV directly to the Viperfish® Land for viewing high resolution video while you record.

Viperfish® Land Recording Capacity High Resolution Camera (720 x 486)		
*FPS = Frames Per Second		
Record Quality	Record FPS*	Time
STANDARD	7	156 Hours
	15	73 Hours
	30	35 Hours
SPECIAL	7	92 Hours
	15	44 Hours
	30	21 Hours

Assumed 72 GB free space in a 80 GB Comrad Hard Drive. These maximum recording times are approximate and will vary if any of the above parameters are changed.



Product Specification - Viperfish® Land

FEATURES

- Built In LCD Screen For Easy:
 - Configuration
 - Video Playback
 - Video Search, Group, Download
 - Record
- Automatic Daylight Savings Time Adjustment
- On Screen Subtitle
- Adjustable Recording Quality, Standard or Special
- Adjustable Frame Rate
- Software Upgrades Via Internet

OPERATION CHARACTERISTICS

Audio Video

Video Signal System	NTSC or PAL
Video Input	1 Video Inputs
Video Input Signal	1.0Vp-p 75 Ohms
Video Output	1 Video Monitor Simultaneously Record/Review
Video Output Signal	1.0Vp-p 75 Ohms
Audio Input	1 Audio Input
Audio Output	1 Audio Output

Recording

Compression	Wavelet - Adjustable
Recording Frame Rate	1 - 30 FPS NTSC or 1.2 - 25 FPS PAL
Recording Mode	Continuous or Delay
Recording Quality	Standard or Special
Avg. Rec. Image Size	20 KB / Frame / Sec / Camera

Playback

Playback Resolution	Hi. Res. (720 x 486) Med. Res. (360 x 243) Lo. Res. (180 x 122)
Search Mode	Alarm, Date, FF, REW & File to File

Event

Alarm Input	8 Input
Alarm Output	2 Output
Motion Detection Grid	16 Sectors (ON/OFF)

Storage

Hard Drive	80 GB Min
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Downloading

COMRAD™	Removable Hard Drive
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Network

Network	10/100Mbps Ethernet or USB 2.0
Online Management	VF Viewer
Software Upgrades	Via Internet

Display

Display Size	720 X 640 NTSC / 720 X 576 PAL
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PHYSICAL / ENVIRONMENTAL CONDITIONS

Connectors

Video Input	BNC
Video Output	BNC
Alarm Input/Output	DB25
Audio Input	Mini Audio (3.5 mm)
Audio Output	Mini Audio (3.5 mm)
Ethernet	RJ45

Dimensions

Depth	10 1/4" (26 cm)
Width	9 5/8" (24 cm)
Height	4" (10.2 cm)

Environment

Operating Voltage	12 Volts
Output Voltage	12 Volts
Maximum Load	5 Amps (8 Amp Surge Current)
Weight	14 lbs (6.36 kg)
Shock & Vibration Testing	*Conforms to MIL-STD - 167-1 (SHIPS)
Operating Temperature	*32°F - 104°F (0°C - 40°C)
Operating Humidity	*0% - 90% (Non-Condensing)

*Contact Manufacturer for Test Data Results

PC SYSTEM REQUIREMENTS for Video Viewing

Operating System	MS Windows 2000/XP
Processor	Intel / AMD, 2 GHz Processor
RAM	256 Megabytes (MB) or Higher
Free Hard Disk Space	1 GB
Internet Browser	Microsoft Internet Explorer 6.0 or Netscape Navigator 7.0

Patent Pending - © Deep Development Corporation 2005 VFLAND V6 Specifications Subject to Change Without Notice



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