

# viperfish® GSX



## GSX

Ground Spec Xtreme

### Rugged High Resolution Digital Video Recorder for Ground Applications



#### Key Features & Benefits

- Four Channels Simultaneous Recording
- High Resolution 720 x 486
- Full Speed 30 Frames Per Second
- Zero Latency
- Extract Still Images & Video Clips
- Critical Event Marking
- Secure Logon
- Multiple Sensor Inputs & Outputs
- LCD Screen for Easy Video Management
- Shock & Vibration Tested
- Embedded Operating System for Maximum Reliability
- Removable Hard Drive
- Free Software Upgrades

#### Applications

- Border Integrity
- Facility & Station Surveillance
- Ground Transportation Security
- Law Enforcement
- Commuter & Freight Rail Transit
- Military
- Port & Transit Authority

#### PRODUCT DESCRIPTION

The Ground Spec Xtreme (GSX) is designed to provide any ground based operations with a marine tough recorder. This battle tested 4 channel digital video recorder outshines and outlasts the competition in all of your ground operations.

The Viperfish® GSX captures your data for future interpretation and provides you with a clean, crisp image with zero latency at 30 frames per second per channel. No more pixelization and no more artifacts.

If high quality and professional performance is what you're after to secure your mobile or static platforms, your search is over. Break away from the pack and choose quality and precision over the standard issue kit. To be able to provide this kind of performance in this size of package really puts you in the driver's seat. Break new ground with the Ground Spec Xtreme.

**Vibration & Shock** - The Viperfish® GSX has been tested for extreme shock and vibration. Each system comes with our specially designed Shock Reduction System (SRS™), which protects the hard drive in intense environments.

**Mega Storage Capability** - Each GSX comes standard with a massive 80 GB hard drive for storage capability with the option to upgrade to an even larger 160 GB hard drive doubling your recording time.

**Critical Event Marking** - Save hundreds of hours reviewing video by allowing your operators to mark incidents with the press of a button. A total of 8 sensor inputs are available to monitor and flag critical events. Retrieval of all events is made easy with the LCD Search feature which flags and groups all incidents by date and time.

**Security & Video Protection** - The secure Logon feature protects the system from illegal access, preventing unauthorized users from being able to operate the system.

#### DOWNLOADING & VIEWING VIDEO

The Viperfish® GSX gives you several options to view recorded video. The Comrad™ is a combination reader and data storage device.

**LCD Smart Search** - When you need to find video fast, simply search by alarms, time & date, index or manual fast forward and rewind. Connect your Comrad™ into the front USB 2.0 port to quickly locate and download your video, eliminating the need for a laptop, monitor or docking station.

**Video Management** - The VF Viewer is customized to show time sensitive alarm events and allow for easy clip and still image extraction.



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## Viperfish® GSX - Ground Spec Xtreme

### OPERATING CHARACTERISTICS

#### Audio Video

Video Signal System	NTSC / PAL/SECAM
Video Input	4 Video Inputs
Video Input Signal	1.0Vp-p 75 Ohms
Video Output	1 RCA/VGA for viewing/control
Video Output Signal	1.0Vp-p 75 Ohms
Audio Input	2 mono/stereo MP3/PCM
Audio Output	1 Stereo Output

#### Recording

Compression	Wavelet-adjustable
Recording Frame Rate	1-30FPS NTSC 1-25 PAL
Recording Mode	Continuous or Delay
Recording Quality	Standard or High Res.
Avg. Recorded Image Size	20 KB / Frame / Sec / Camera

#### Playback

Playback Resolution	High (720 x 486)
Search Mode	FF, REW, Index, Date/Time, Alarms, Clips

#### Events

Alarm Inputs	8 inputs
Alarm Outputs	2 outputs

#### Storage & Download

Hard Drive COMRAD™	80 GB min, up to 160 GB Removable Hard Drive USB 2.0
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#### Network

Network	10/100 Mbps Ethernet
Video Management	VF Viewer
Software upgrades	Via Internet through VF Viewer

### PHYSICAL / ENVIRONMENTAL CONDITIONS

#### Connectors

Video Input	4 RCA
Video Output	RCA (Quad)
Audio Input	Mini Audio (3.5 mm)
Audio Output	Mini Audio (3.5 mm)
Alarm Input/Output	DB9
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	3 Amps (5 Amps Surge Current)
Weight	14 lbs (6.36 kg)
Shock & Vibration Testing	*Conforms to MIL-STD-810
Operating Temperature	*0°C to 50°C
Operating Humidity	*0% to 90% (non-condensing)

\*contact manufacturer for Test Data

### PC SYSTEM REQUIREMENTS FOR VIDEO VIEWING

Operating System	MS Windows 2000 / XP
Processor	Intel / AMD 2GHz Processor
RAM	256 Megabytes
Free Hard Drive Space	1 GB
Internet Browser	MS Internet Explorer 6.0 or Netscape Navigator 7