



## The “HD Delay Line” captures the lead up, the drama and the aftermath!

### Introduction

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The HD delay line ensures that no event is missed as historic footage from a camera is continuously cached in memory. When activated by a “crash event” a preset number of minutes of video stored in the cache is recorded to Flash disk followed by a predetermined number of minutes of live video. A crash event can be triggered by a crash button, a preset telemetry event (speed, position etc.) or may be triggered by a remote computer. Re-triggering extends recording.

The HD Delay Line is designed to operate in conjunction with the Livewire rugged waterproof day/night camera. The combination of camera and HD delay line offers a low power ‘always on’ system that draws less than 16 watts during the day and when combined with the Livewire custom IR flood 25 watts at night.

### Applications

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- Media coverage – Ocean racing, Motorised sports and Expeditions.
- Wildlife Camera - Triggered locally or managed remotely.
- Remote News Camera – Self contained camera system to cover a News story that does not justify a fully manned facility.
- Monitoring and Surveillance – Full day/night high definition imagery.
- Performance Analysis - Record manoeuvres for off-line analysis. Improve technique, identify equipment issues and track progress.

### HD Delay Line

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The HD Delay Line is a solid state unit with an 100Bt Ethernet interface that is used to access the recorded material, to manage the Delay line and control the Livewire camera. The A/V files are 1080i HDV format and may be played on a computer or ingested into a Non Linear Editor such as Final Cut Pro.

When used with the Livewire ruggedized camera, the HD Delay Line can support two external audio sources, these are balanced inputs with a 12V power source designed to seamlessly interface to the Livewire waterproof microphones.

### Crash Event Triggers

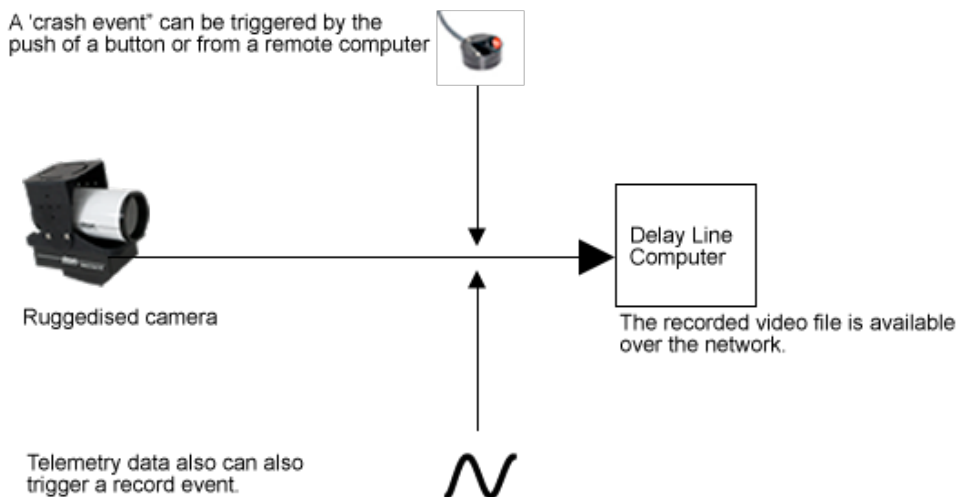
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- External contact closure – crash buttons or external equipment.
- Telemetry data – examples: speed, position, acceleration etc.
- Remote Control – Trigger the recording of events from a remote computer.

### Features

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- IP Control - Access the system over the Internet, 3G or satellite connection
- Remote “record” triggers.
- Remote access to video files with automated delivery methods.
- Control of Livewire camera features such as Zoom,Focus and Day/Night operation.



## Cameras

Livewire Digital Ltd. has designed a range of HD cameras for use in extreme sporting events or for deployment outside in adverse weather conditions. The cameras are available with a range of features, including Day/Night operation and Roll Compensation.

All the cameras have been designed with extreme environments in mind; fully waterproof, the enclosures and mechanics have been engineered in machined plastics and hard anodised aluminium.

No compromise has been made on the optics, which consist of a flat sapphire optical window and integrated HD wide-angle lens, a key requirement to covering the action. Lightweight and low power, the cameras offer HD video for the next generation of extreme sporting events.

Other cameras may also be used, please contact Livewire for details.

## Custom Systems

Livewire Digital Ltd. have many years experience designing custom systems combining AV technology with IP and satellite communications. Enquiries are welcome.

## Microphones

Most applications require audio as well as HD video and this presents similar challenges when managing extreme environments. To complement the range of HD cameras, Livewire has designed a waterproof microphone with integrated preamp, 'wind jammer' and a capsule suspension that offers 20dB of isolation from structural borne vibration. When used with the Livewire camera two external waterproof microphones can be used.



## Specification

Dimensions: 260mm x 180mm x 75mm  
Weight: 1500g  
Power requirements: nominal 7 watts