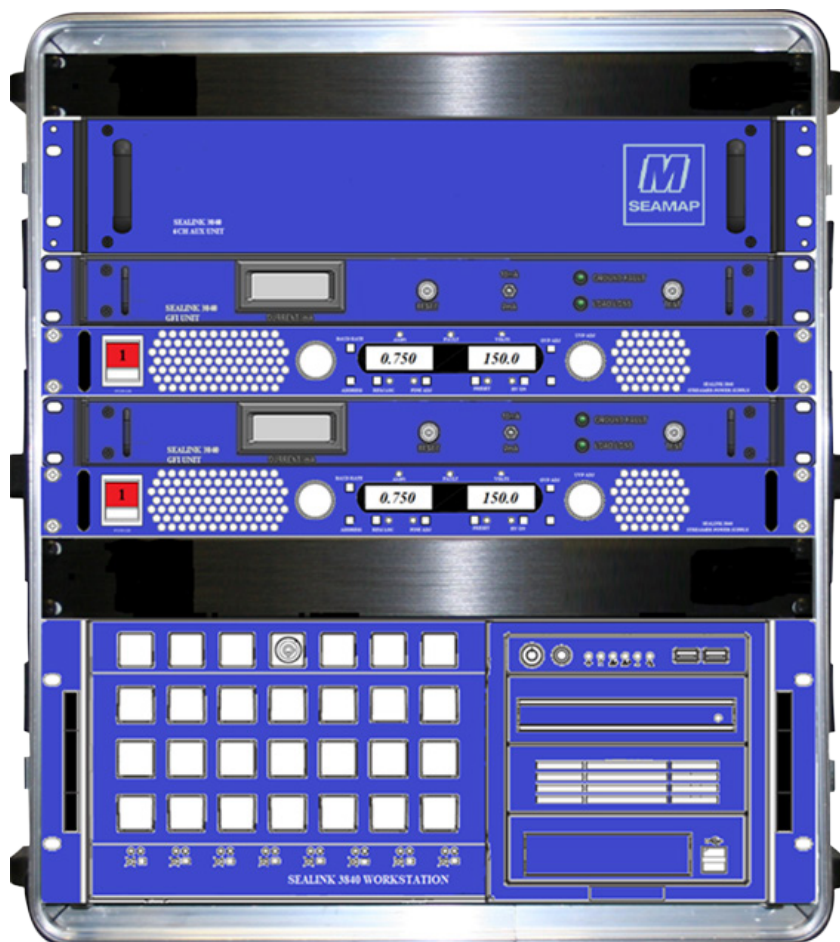




**SEAMAP**  
A MIND Technology Business

## SEAMAP SEALINK™ 3840 RECORDING SYSTEM

HIGH CHANNEL DATA ACQUISITION



The Seamap SeaLink 3840 Recording System was developed to acquire and record large quantities of data in real-time as either a portable or fixed installation onboard a marine seismic vessel. The SeaLink 3840 is excellent for 2D, 3D, High Resolution, and Ultra High Resolution data recording utilising multiple streamers for seismic surveys.

The SeaLink 3840 Recording System collects 2D and 3D data via the internal Data Array Interface (DAI) cards. The (DAI) integrates perfectly with the SeaLink Solid Streamer and SeaLink 24 Digital Module. The workstation can manage one to eight streamers per SeaLink 3840 unit. The DAI was designed to expand the SeaLink 3840's capability for sampling up to 3,840 channels at 2mS sample rate (per array) of seismic data. SeaLink supports sample rates of 1/4, 1/2, 1, 2, and 4ms, adjacent channel summing and continuous recording. The DAI / COMM card are the only custom parts needed to interface with the SeaLink 3840. It exceeds all current wet-end capabilities that are available in today's market.

The SeaLink 3840 utilizes off the shelf technology and supporting software for the workstation. The system includes two Giga-Bit Ethernet ports to facilitate large data transfer with Ethernet plotters and 3rd party QC programs. Upgrades and replacement parts are easily accessible throughout the world. End users can quickly learn to operate the SeaLink system.

The SeaLink architecture allows for future expansion and growth as technology evolves at increasing speeds. Seamap is committed to be on the cutting edge of the latest technology.

**Available:**

Integrated Data Storage Devices - Tape, NAS Drive or other customer specified



## Key Features:

- High Channel Capacity (3,840 Channels)
- Manages up to 8 Arrays Per Workstation with two DAI's
- Off The Shelf Technology (Increased System Reliability)
- Efficient Memory (Dynamically Allocated Memory Buffers)
- Virtually Zero "Dead Time" (Continuous Recording)
- Sample Rates of 1/4, 1/2, 1, 2, and 4mS
- Adjacent Channel Summing
- Online and Offline Quality Control
- Built in Array Simulator and Test Pattern Generator
- Seismic Data Saved to Hard Drive, LAN, or SCSI Device
- Optional Hot Swappable RAID

## Applications:

- Marine Seismic
- 2D / 3D / 4D & HR3D Seismic
- High Resolution Seismic
- Ultra High Resolution Seismic
- Channel Summing via the SeaLink System
- Ocean Bottom Cable
- Reservoir Monitoring
- Custom Adaptable

### Note:

Other marine applications are available with the SeaLink 3840 and may require some modifications.

## Specifications:

SeaLink 3840 Workstation	
<b>Operating System</b>	Microsoft Windows 7
<b>Processor</b>	Intel Core i5-7500 Processor Quad Core 3.66Ghz
<b>Memory</b>	2 X 8GB DDR-4/2400
<b>Graphics</b>	6GB with Quad display support at 7680X4320@60Hz max resolution
<b>Networking</b>	(2) Gigabit Ethernet ports
<b>Optical Drive</b>	DVD-RW
<b>Storage</b>	(2) 1TB SATA (6) additional hot-swappable RAID slots
<b>Power</b>	(2) hot-swappable 800W
<b>Data Array Interface (DAI)</b>	Single board interface to PCI Bus for one to four streamers
<b>Instrument Enclosure (On-Board)</b>	Shock and vibration mounted 4U rack mount
<b>Instrument Enclosure (Portable)</b>	Shock and vibration "ruggedized" 4U rack mount

System Specifications	
<b>Maximum # of arrays (per unit)</b>	Standard 1-8, virtually unlimited with additional DAI's
<b>Maximum Record Length</b>	75secs @ 2mS Sample 1320Ch.
<b>Time Between Records (seismic data)</b>	Virtually zero dead-time with continuous recording
<b>Weighted Trace Summing</b>	2:1, 3:1
<b>Tape/Data Storage Supported</b>	3490, 3590, 3592, LTO's, RAID, almost any SCSI media
<b>Tape/Data Storage Format</b>	SEGD Rev1 8036 or 8058 and SEG Y
<b>Tape Copy Function</b>	Available offline
<b>Plotter Interface</b>	VPI (Versatec) or Windows supported printers
<b>Thermal Plotters Supported</b>	iSYS V12/V24 and others
<b>Network Hardware Supported</b>	Ethernet
<b>RS-232 Ports</b>	(5) used for external headers, etc.
<b>Array Telemetry Status</b>	All data lines monitored
<b>Array Tension Display</b>	0-25,000 lbs, also available via UDP
<b>Quality Control (QC) Tests</b>	DC Offset, RMS Noise, Channel Gain Accuracy, Impulse Response Hydrophone Leakage, Harmonic Distortion, Crosstalk
<b>Shot Monitor</b>	Available online or offline

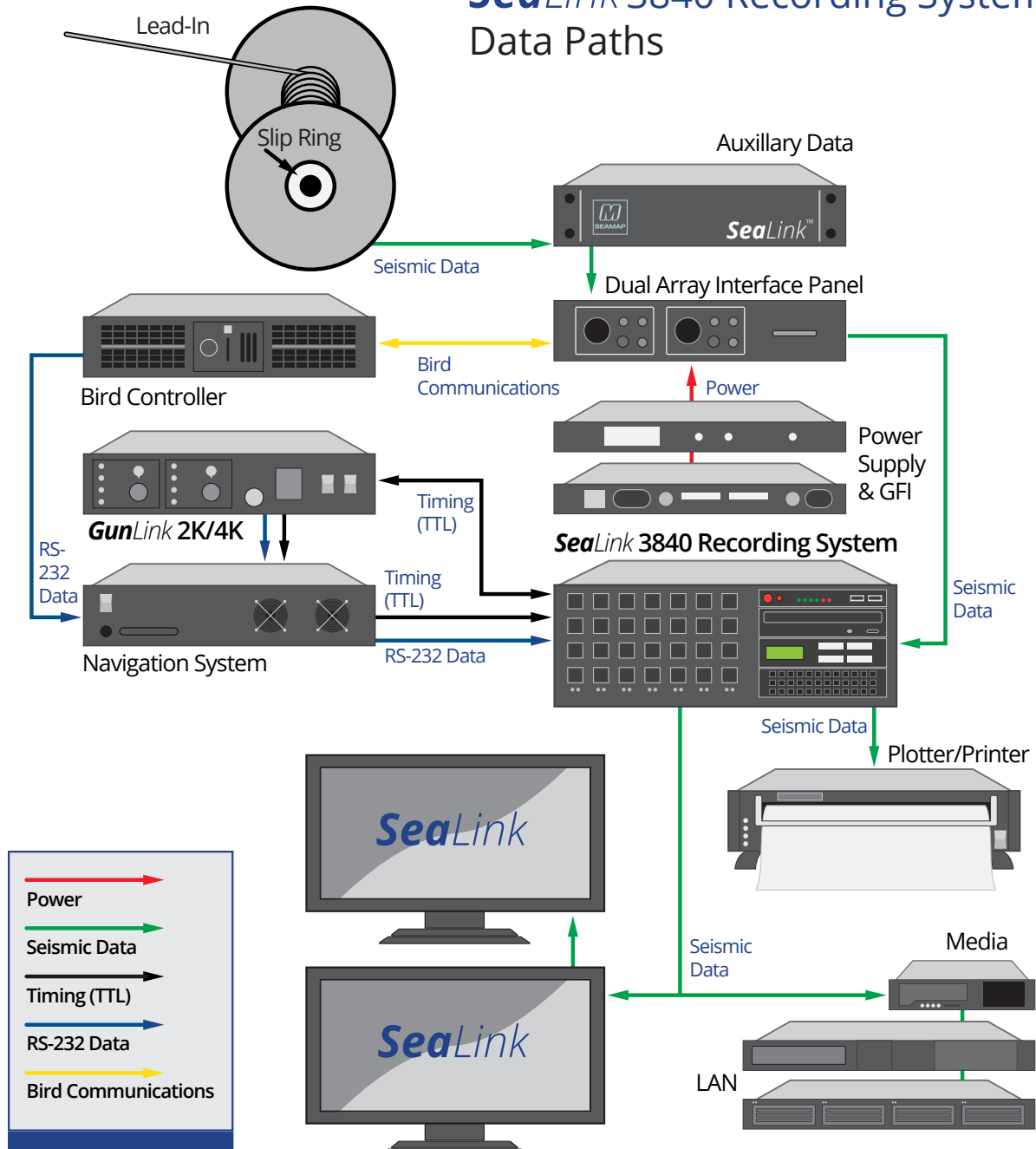
- All SeaLink workstations are upgradeable from one streamer to multi-stream operations.
- All SeaLink workstations are compatible with all standard media storage devices, printers and plotters and networking interfaces.
- All SeaLink workstations are capable for internal system upgrades and replacement components. Please note Seamap requires all upgrades and replacement components to be reviewed and tested by a Seamap field-service technician.
- All SeaLink workstations are customisable upon request.

# SEAMAP SEALINK 3840 RECORDING SYSTEM

HIGH CHANNEL DATA ACQUISITION



## SeaLink 3840 Recording System Data Paths



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