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 ⅛, ¼, ½, 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

MOTIVATE | **I**NNOVATE | **N**AVIGATE | **D**ISCOVER
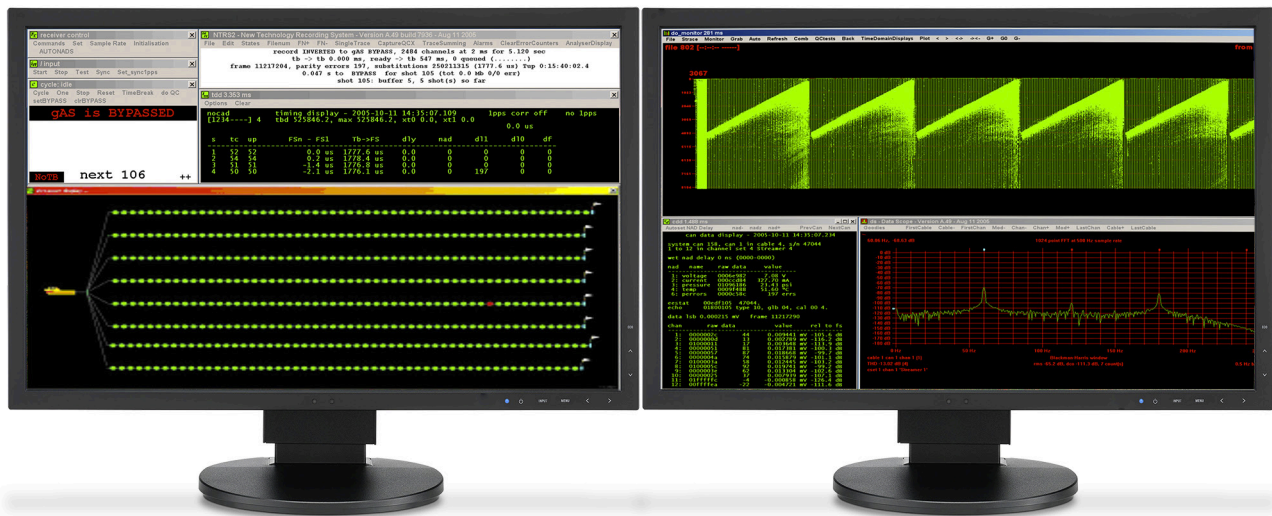
Key Features:

- High Channel Capacity
  (1,920 Channels, Option up to 3,840 Channels)

- Manages up to 8 Arrays Per Workstation with two DAI's

- Manage up to 8 Lead-In's in UHR3D Configurations. Up to 32 Arrays at 120 Channels Each

- Off The Shelf Technology
  (Increased System Reliability)

- Efficient Memory
  (Dynamically Allocated Memory Buffers)

- Virtually Zero "Dead Time"
  (Continuous Recording)

- Sample Rates of ⅛, ¼, ½, 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 & UHR3D Seismic

- High Resolution Seismic

- Ultra High Resolution Seismic

- Channel Summing via the SeaLink System

- Ocean Bottom Cable

- Reservoir Monitoring

- Custom Adaptable

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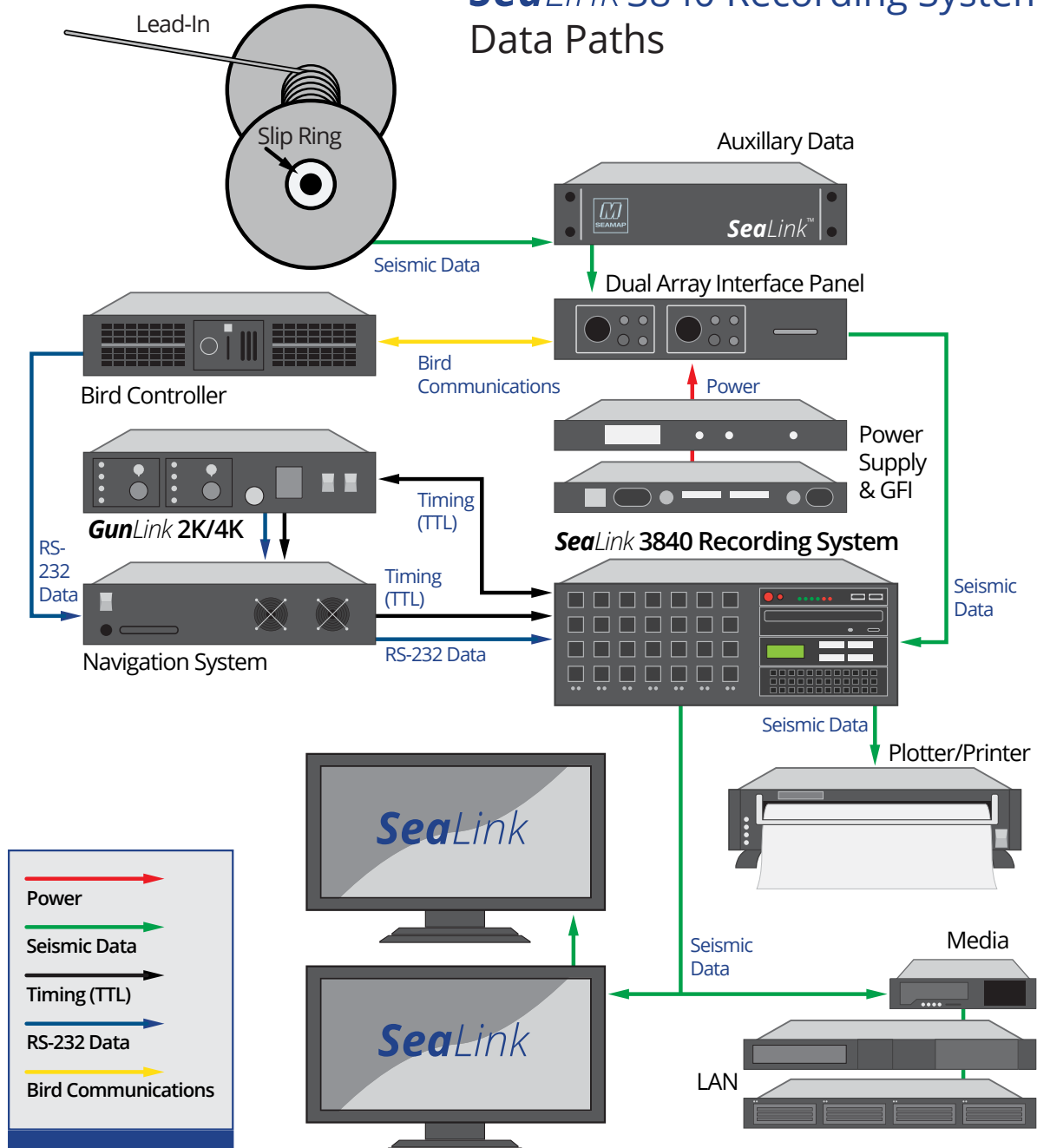Other marine applications are available with the SeaLink 3840 and may require some modifications.

Specifications:

SeaLink 3840 Workstation	
Operating System	Microsoft Windows 10
Processor	Maximum available at time of sale
Memory	Maximum available at time of sale
Graphics	Quad display support
Networking	(2) Gigabit Ethernet ports
Optical Drive	DVD-RW
Storage	(2) 1TB SSD (6) additional hot-swappable RAID slots
Power	(2) hot-swappable 800W
Data Array Interface (DAI)	Single board interface to PCI Bus for one to four streamers
Instrument Enclosure (On-Board)	Shock and vibration mounted 4U rack mount
Instrument Enclosure (Portable)	Shock and vibration "ruggedized" 4U rack mount

System Specifications	
Maximum # of arrays (per unit)	Standard 1-8, with 2 X DAI for 8 X 1920 channels each streamer additional Recording units and DAI's can be added for an unlimited # of arrays. Example: 4 units with 8 DAI's can manage 32 streamers with 1920 channels each.
Maximum Record Length	75secs @ 2mS Sample 1320Ch.
Time Between Records (seismic data)	Virtually zero dead-time with continuous recording
Weighted Trace Summing	2:1, 3:1
Tape/Data Storage Supported	3490, 3590, 3592, LTO's, RAID, almost any SCSI media
Tape/Data Storage Format	SEGD Rev1 8036 or 8058 and SEG Y
Tape Copy Function	Available offline
Plotter Interface	VPI (Versatec) or Windows supported printers
Thermal Plotters Supported	iSYS V12/V24 and others
Network Hardware Supported	Ethernet
RS-232 Ports	(5) used for external headers, etc.
Array Telemetry Status	All data lines monitored
Array Tension Display	0-25,000 lbs, also available via UDP
Quality Control (QC) Tests	DC Offset, RMS Noise, Channel Gain Accuracy, Impulse Response Hydrophone Leakage, Harmonic Distortion, Crosstalk
Shot Monitor	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

Lead-In

Slip Ring

Auxillary Data

SeaLink™

Seismic Data

Dual Array Interface Panel

Bird Controller

Bird Communications

Power

GunLink 2K/4K

Timing (TTL)

Power Supply & GFI

SeaLink 3840 Recording System

RS-232 Data

Timing (TTL)

Navigation System

RS-232 Data

Seismic Data

Seismic Data

Plotter/Printer

Legend:

→ Power
→ Seismic Data
→ Timing (TTL)
→ RS-232 Data
→ Bird Communications

SeaLink

SeaLink

Seismic Data

Media

LAN