



# THE ADS-640 ACQUISITION DISPLAY SYSTEM



From the leaders in high resolution printing, comes the most portable acquisition and display tool available, the ADS-640.

Designed to work as a stand-alone unit or with EPC thermal recorders, the ADS-640 is ideal for acquisition and storage of real-time data in sub-bottom, side scan sonar, and imaging applications.

The simple on-screen menus allow rapid access and control over data and all other display functions.

Compact, rugged and simple to operate, the ADS-640 is the newest tool for data collection, storage and playback.

## HARDWARE

*Host Processor*  
486DX4 / 100 MHz

*Video Display*  
640 x 480/256 levels; (active matrix)

## DATA STORAGE

Internal 2.0 gigabyte fixed drive mounted on anti-shock chassis.  
Removable 1.0 gigabyte fast SCSI-2 drive.

## DATA INTERFACES

*Analog I/O*  
Dual channel 0-10V inputs with 2K ohm input impedance  
Independent gain, threshold, and polarity  
External trigger input with slope selection

TTL key pulse output with selectable polarity  
Time bases (Scan Key Delay) from 100 mS to 10 seconds  
with one mS resolution

*Parallel Input*  
High speed Centronics compatible with asynchronous FIFO  
for digital systems

*Parallel Output*  
Enhanced bidirectional printer port (ECP + EPP with Direct  
Memory Access)

*Serial I/O*  
Two asynchronous ports up to 115.2 K baud for external NAV  
and remote control

*SCSI I/O*  
Fast SCSI-2 host adapter

*Video*  
External VGA capability available.

## HARD COPY

Co-processing and playback to EPC TGRs with  
print screen capability.

Optional printer drivers available upon request.

Specifications subject to change

## PHYSICAL

*Enclosure*  
1/8", sheet metal with LEXAN splash guard and EMI/RFI  
shielding Protective Cover/Accessory Holder  
Rack Mount Kit (optional)

*Dimensions*  
15.75 x 11.40 x 7.00 inches

*Weight* 23 Lbs.

## POWER

84-265 VAC auto sensing input  
30 Watts nominal consumption  
38 Watts peak

## TEMPERATURE

Operating 0 to 45°C Storage -25 to 60°C

## SOFTWARE

*User Interface*  
Simple keystroke driven functions with on-screen menu map.  
Faster and easier to learn than traditional GUIs.

*Display*  
Horizontal or vertical traces for sub-bottom or side-scan  
applications. Accepts internal or external navigation sources.

*Navigation and Commands*  
All command and NAV Data logged to independent ASCII  
file and correlated by ping number. File can be edited with a  
simple line editor for event marking during playback.

*Acquired Data*  
Data over-sampled at 2K points per trace by dual 660nS  
A/Ds and stored in random access output file. Seek to exact  
ping number instantly.

*Search Engines*  
Seek to data by ping number, coordinates, time, or key word.

## DATA MANAGEMENT MODULE

Optional module provides true zoom, range marking, target  
databasing and back annotation.

## WARRANTY

Limited One Year Parts and Labor

