

Craft Integrated Electronics Suite



BRIDGEIT



NAVIGATION



RADAR



COMMUNICATION



VIDEO



POWER



ENGINE / FUEL



CTRL / SENSORS



ALARMS



DAY / NIGHT MODE



NOAA



EVENT



CIES NET



OPTIONS



HIDE CIES

EXIT

EXIT

CIES[®]



System Integration of:

Sensor Systems

Video Acquisition

Navigation & Charting

Situational Awareness

Communication (Voice & Data)

azimuth[®]
incorporated

CIES® is a distributed system that supports full system functionality at any workstation in the craft, thus providing truly integrated access to mission data. The user interface is designed to operate with a variety of input devices and provide ease of use in rough environments. The software is robust and modular to accommodate future integration of additional capabilities.

Capabilities

Navigation & Charting

- * Radar Overlay
- * Route Planning
- * NMEA Sensor Integration (GPS, Digital Compass, Depth)
- * ECPINS-M
- * Digital Nautical Charts

Situational Awareness

- * Integration of Sensors (ARPA, AIS, Range Finders, EW Systems)
- * Ability to annotate targets
- * Integrated Threat Awareness View
- * Mission Management (Planning, Logging, Replay)

Communication

- * Radio Control Integration
- * Craft Intercom Integration

Craft

- * Distributed Tactical Picture
- * Integrated Craft Alarms (Engine, Power, Nautical, Fire, craft systems)

Video

- * Camera Selection & Control
- * Snapshot
- * Image Archiving & Viewing
- * DVR Video Archiving
- * Worldwide Video Viewing

Hardware

*Single Board Computers (SBC)

cPCI 2.2GHz Pentium 4, 4 GB RAM conformally coated

*15" AMLCD, VGA, NVIS Monitor

*Digital Video Recorder (DVR)

8 to 16 channels of video, maritime enclosure, Timestamping, realtime video (24fps), removable media for editing, production, analysis

*PTZ Cameras

Day & Night operation, 10x zoom, rugged & waterproof

*Power Distribution

12-28 VDC, 100 Amp Main Load

*Data Acquisition System (DAQ)

Monitors craft systems; voltage, bilging, fuel flow, fire suppression, and more

8 cPCI Blade Computer Chassis



8-Channel DVR 2 TB of Video & Data Storage



Navigation Processor 6 Inputs of Serial NMEA 0183 Data



PDU System 8 Breakers of AC or DC Power

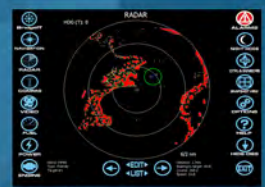


Communications Processor Control 4 Military Radios & Intercom System



CIES® USER INTERFACE

Big Button interface view that allows the user to see and control aspects of the craft. Multiuser environment and stations.



- Azimuth has over 10 years experience developing systems for SOF small craft. Projects include:
- * Integrated Bridge System (IBS) Phase 1 & 2 (1996-99) DoD-O&T
 - * Small Craft Enhanced Vision & Situational Awareness (SCVESAS) SBIR Phase 1-3 (00-present) U.S. SOCOM
 - * Craft Integrated Electronic Suite (CIES®) (02-present) NSW-Carderoock, CCD
 - * IBS-RHIB (03-Present) U.S. SOCOM



Craig Hartzell - Corporate
 Josh Swiger - Technical
 Tel (304) 292-3700 Fax: (304) 292-0873
 info@azimuthinc.com