

DESKTOP & CLOUD MH-60R



HELICOPTER TRAINING SIMULATOR, DESIGNED FOR RAPID MODIFICATION FOR DIFFERENT NATIONS

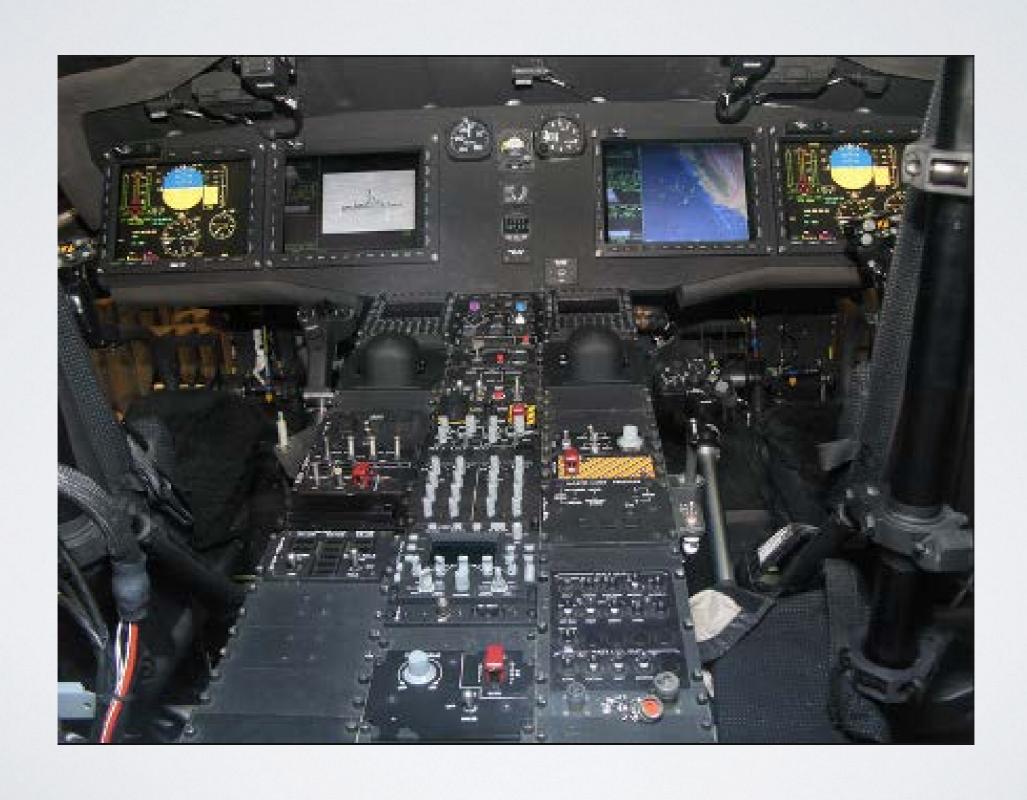
2023 NATO MODELLING & SIMULATION GROUP (NMSG)
SYMPOSIUM

Rob Richards, PhD Stottler Henke Associates, Inc.

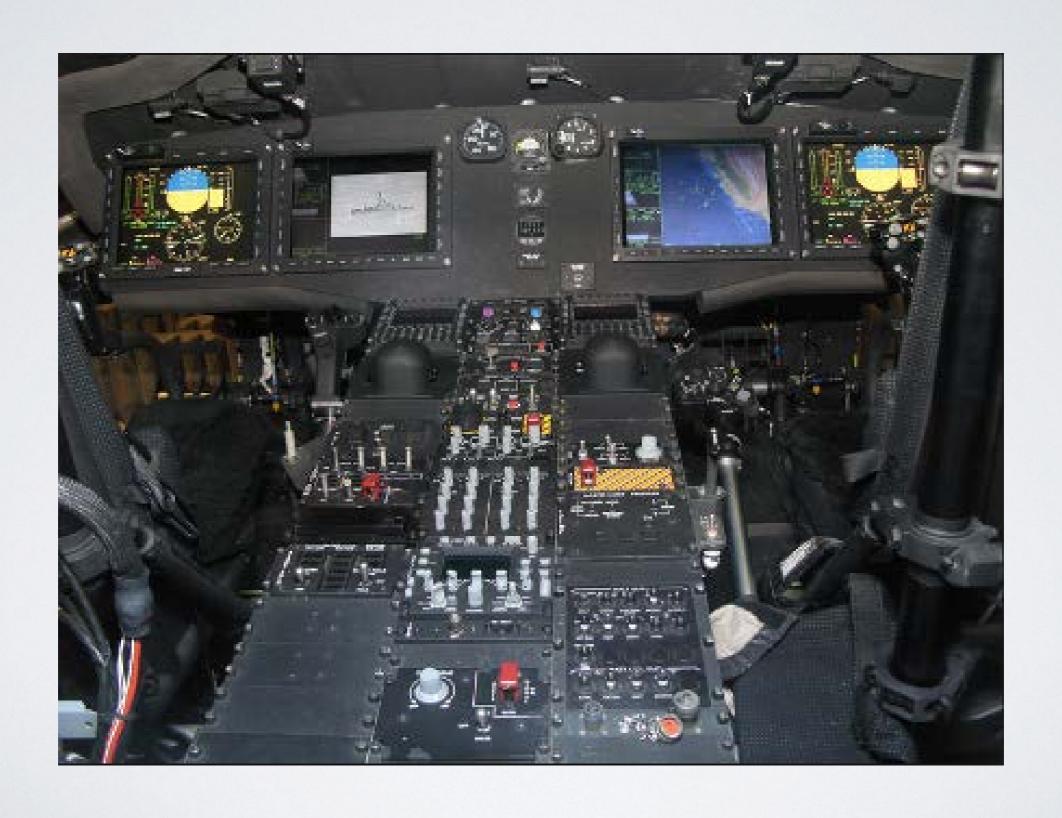




MH-60R COMMON COCKPIT



MH-60R VIDEO



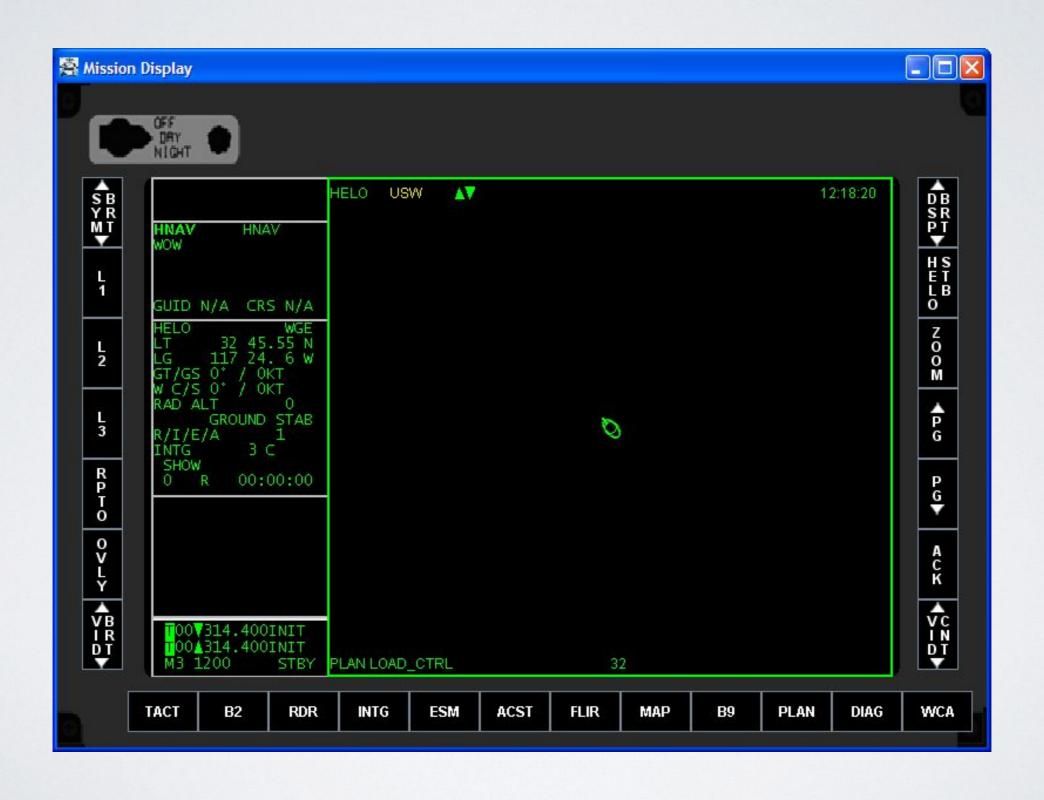
OMIA EMULATES MH-60R HELICOPTERS



OMIA FLIGHT DISPLAY



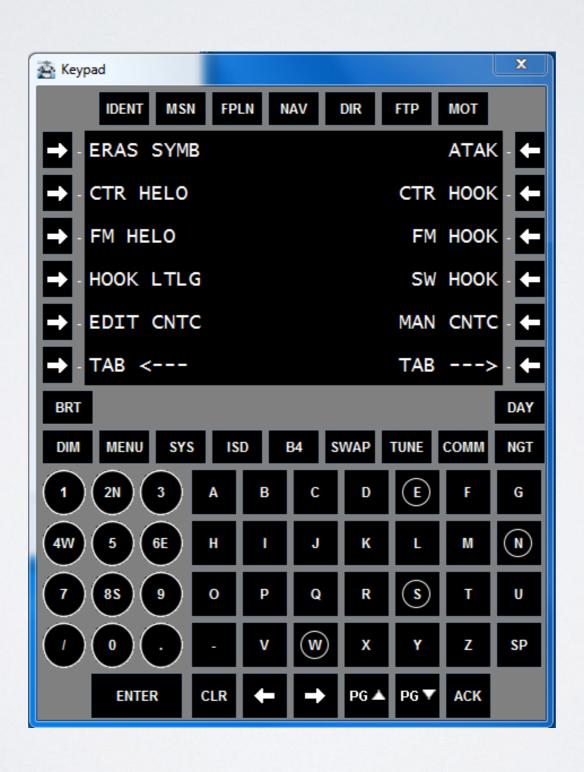
OMIA MISSION DISPLAY



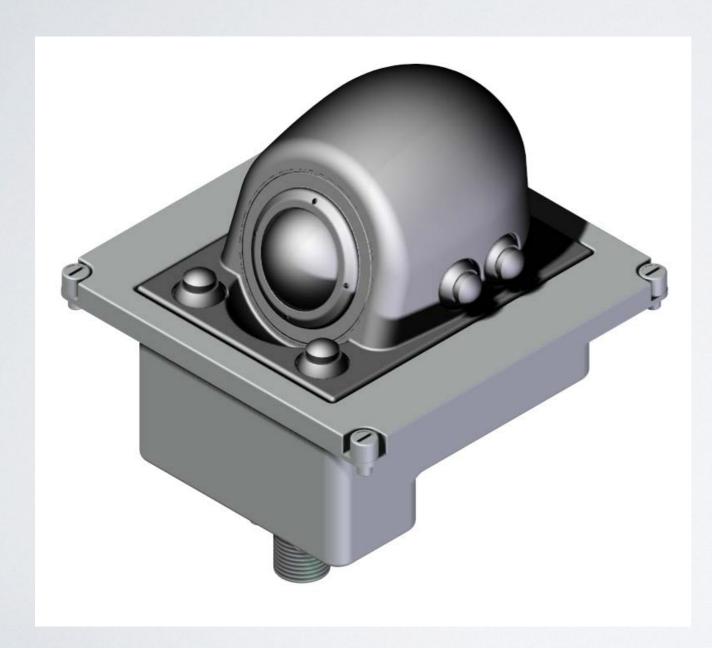
MISSION DISPLAY WITH MENU DISPLAYED

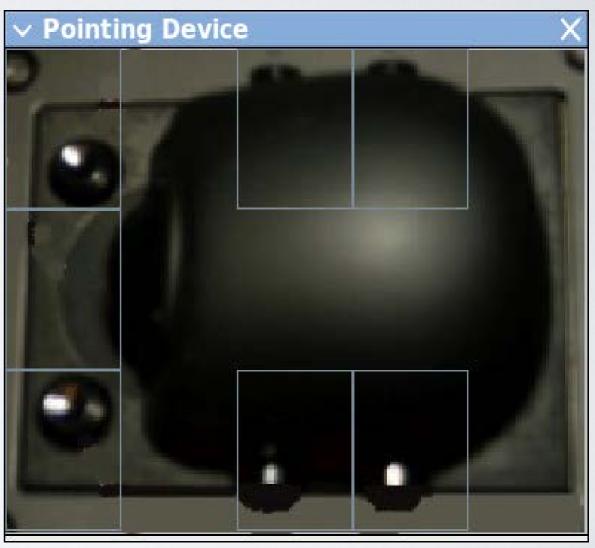


CONTROL DISPLAY UNIT (CDU)

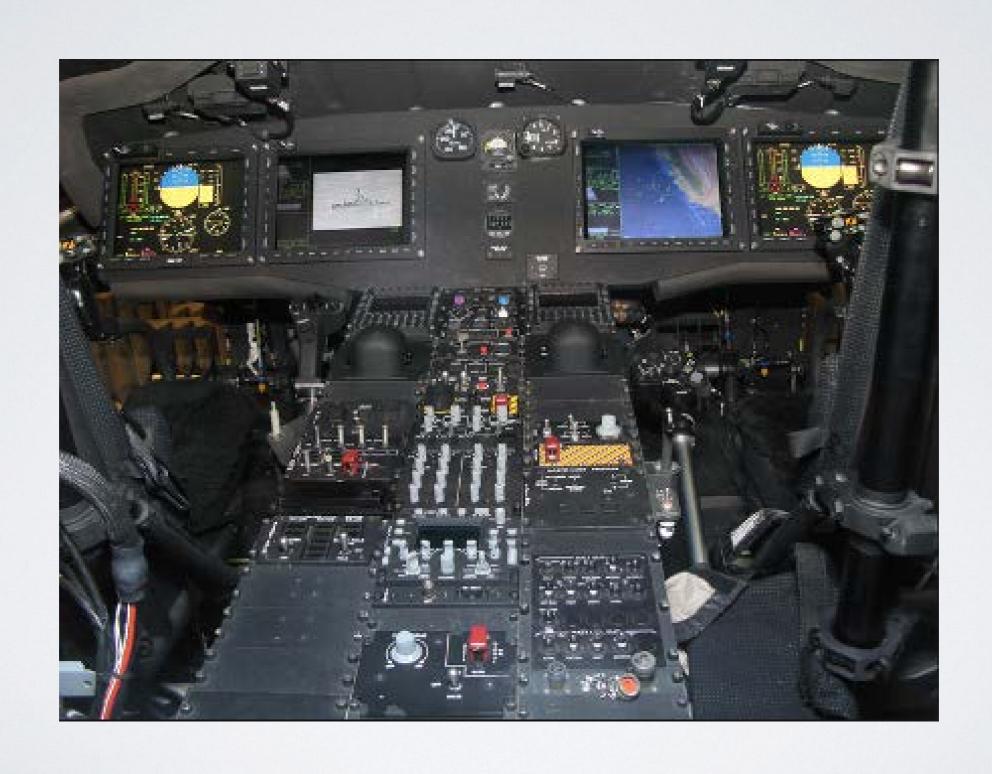


TRACKBALL POINTING DEVICE (PD)





MH-60R COMMON COCKPIT

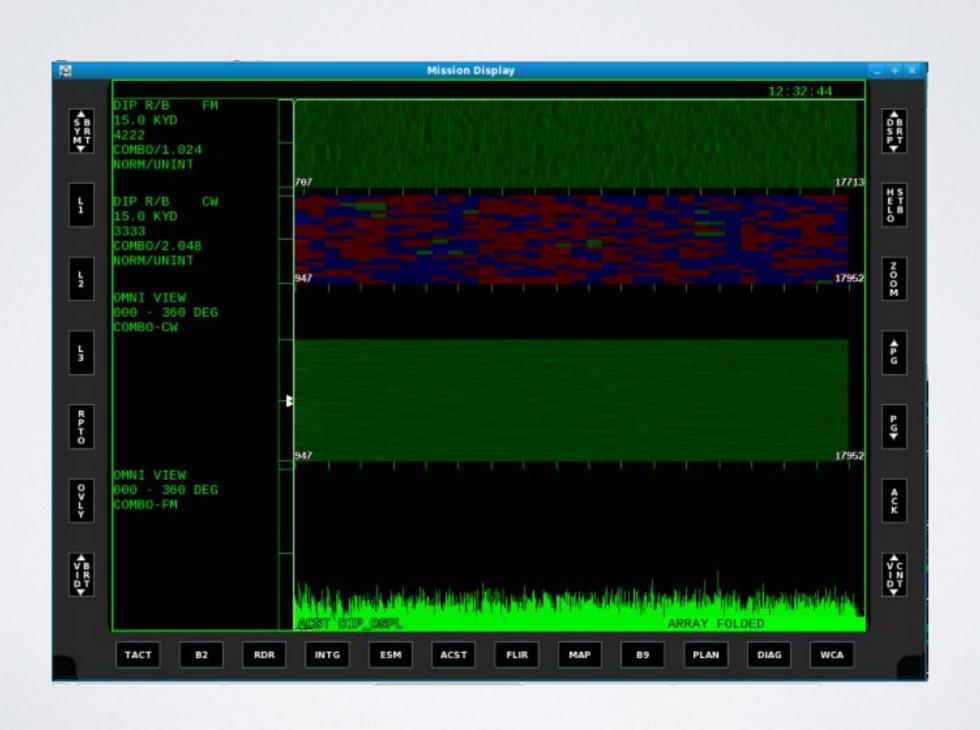


OMIA EMULATES MH-60R PANELS (E.G., CMP & RCU)





SENSOR OPERATOR (SO) STATION MH-60R



OMIA VIDEO



SUCCESSES

- Reduced overall training costs
 - Reduced need for Simulator & Helicopter time
 - Significant reduction in training costs
- Increased overall effectiveness
 - Anytime / anywhere training on land or at SEA
 - Leverage via laptop, or cloud, touchscreens, VR, attachable hardware, ...

WHERE OMIA FITS

- Classroom
- Computer Based Training (CBT)
- · OMIA
- Simulators
- Helicopter

OMIA USER VERSIONS

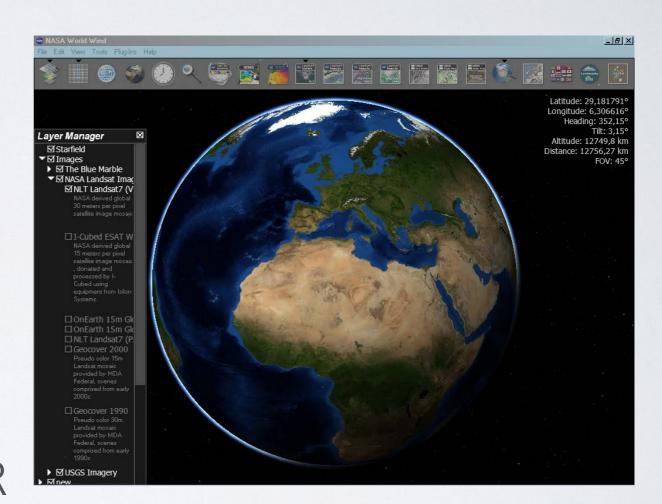
- Romeo Pilot / Co-Pilot
- Romeo Sensor Operator
- Crew trainer train Pilot / Co-Pilot & Sensor Operator in same scenario

FLEXIBLE DEPLOYMENT

- Microsoft Windows
- Linux
- Cloud based
- Mac

INTEGRATIONS

- USB hardware
- Touch screens / VR headset
- Acoustics
- Flight Simulators
- NAS A WorldWind for FLIR
 & Moving Map

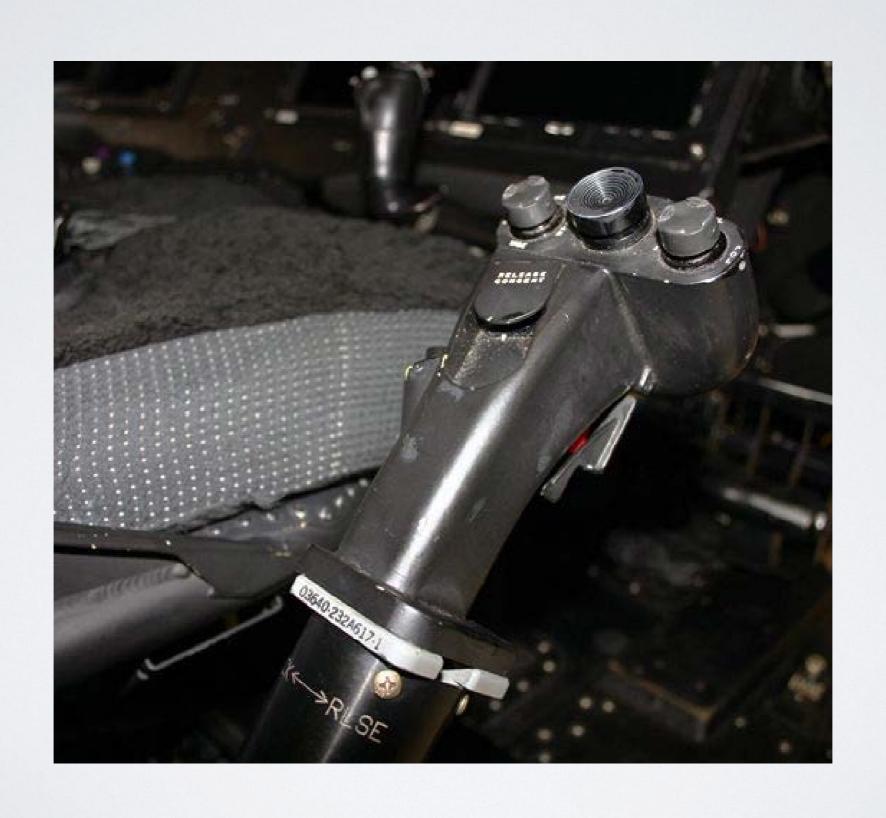


FLIR





FLIR HAND CONTROL UNIT



FLIR HCU SOFTWARE EMULATION

 Always available, so hardwar HCU is not mandatory



FLIR & USBHCU

Desktop HCU connects via USE





OMIA-ATS / ACOUSTICS

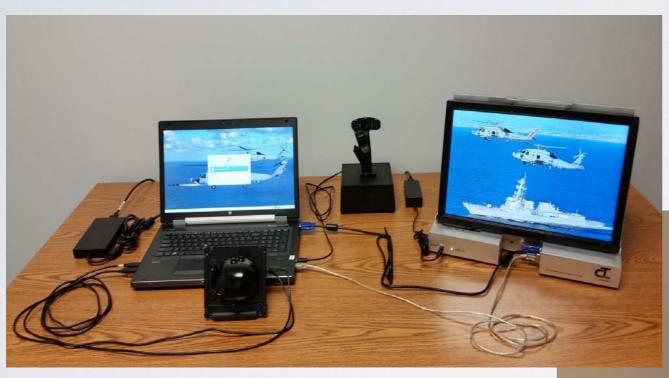
- OMIA was enhanced to include Buoy & Airborne Low Frequency (ALFS) Sensor Modeling and Simulation Training.
- Allows for pinging and viewing realistic acoustic returns
- Enhancement is part of a complete hardware/software solution, including fully configured laptops with touch screen and OMIA-ATS preinstalled.
- · Leveraged for use on land and while deployed at sea.

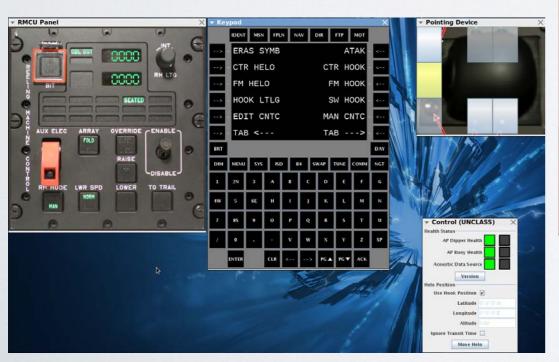
SENSOR OPERATOR STATION: MH-60R





OMIA-ATS: SO STATION

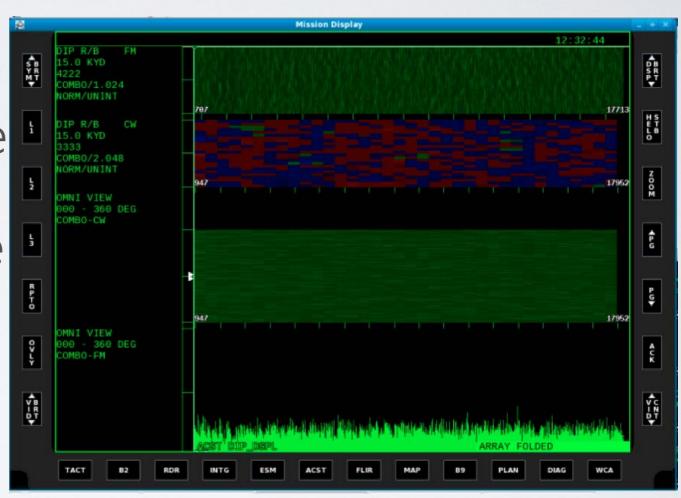






OMIA-ATS: SO STATION

- 4 Modes of OMIA-ATS
- Simulated Noise Mode
- Create Scenario Mode
- Play Scenario Mode
- Analyze Data Mode



BENEFITS OF OMIA-ATS

- Prepare operator to take full advantage of TOFT training sessions
- Provide a platform for acoustic return recognition training
- Support independent skills review for deployed squadron personnel
- Support independent skills review in a Training facility environment

OMIA / OMIA-ATS SUMMARY

- · Powerful inexpensive anywhere / anytime training
- Capabilities maximized based on available hardware
- Cost savings vs simulator/flight time
- Training Benefits of Re-configurable Part-Task Trainer (PTT)
 - OS agnostic
- More information on OMIA is available at www.StottlerHenke.com/OMIA







