

Experimental UAV X-13

EMT DRONES - TECHNOLOGY OF TOMORROW

- Land and ship based operation through
 - take-off from pneumatic catapult
 - net landing with automatic approach control
- All-weather capability with EO / IR / SAR sensory
- Reconnaissance, identification and location in real-time
- Capability as relay-UAV for greater range and low altitude missions
- Designed for flights in military and civil controlled airspace
- Control-station available for vehicles, ships and aircraft
- Completion of mission flights even under icing conditions
- Modular payload system for a wide range of sensors



August 2002



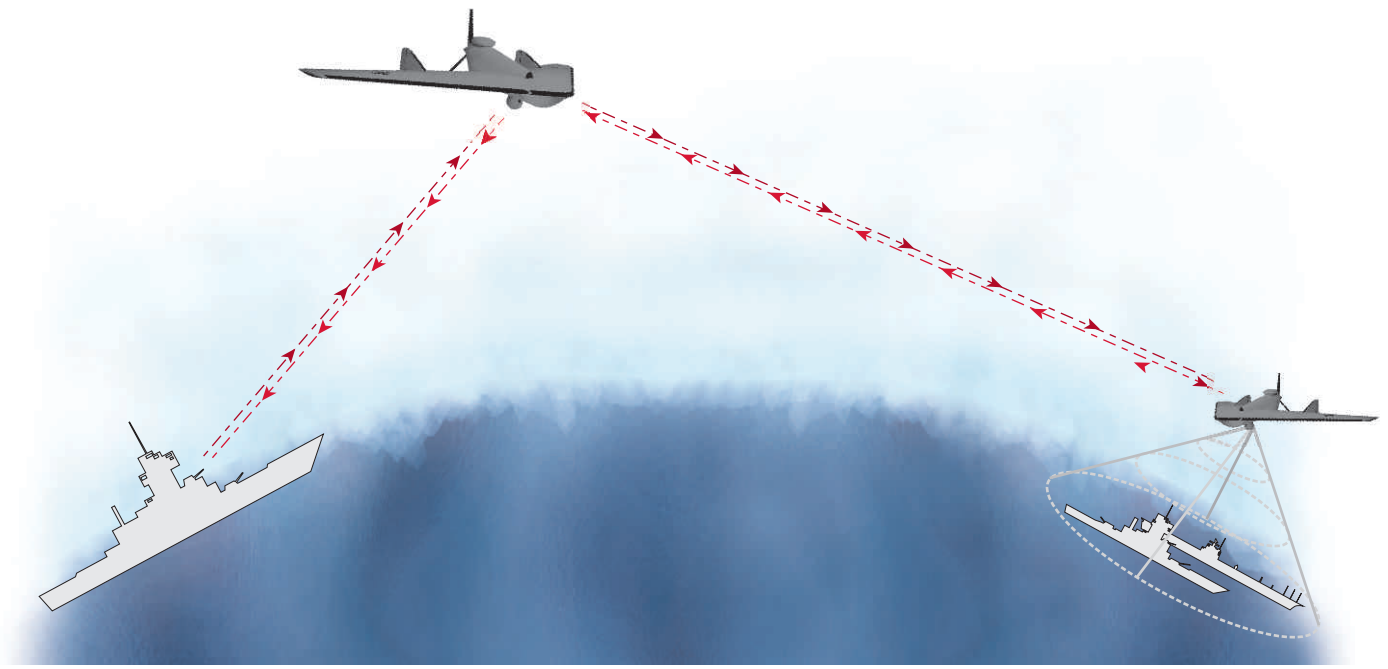
INGENIEURGESELLSCHAFT

DIPL.-ING. HARTMUT EUER MBH

GRUBE 29 · 82377 PENZBERG · GERMANY

PHONE: +49 (0) 88 56 / 92 25-0 · FAX +49 (0) 88 56 / 20 55

WWW.EMT-PENZBERG.DE · SALES@EMT-PENZBERG.DE



Unmanned aerial reconnaissance below-the-horizon using a relay-UAV

SYSTEM CHARACTERISTICS

- System range 200 km
- Endurance 6 hours
- Ceiling 10 000 ft
- Speed 100 to 180 km/hr
- Take-off and landing up to sea state 5
- Deployment by air

AIRCRAFT

- Autonomous flight from take-off to landing
- Flights with accelerated anti-hit profiles
- Jamming resistant data link
- 8-channel video transmission
- SAR sensor
- IR sensor
- Daylight color video sensor
- High resolution digital still camera
- Wingspan 510 cm
- Take-off weight approx. 130 kg
- De-icing equipment
- Heavy-fuel Injection engine
- Emergency Locator

CONTROL STATION

- Computer assisted
 - Mission planning
 - Flight control
 - Sensor data interpretation
- Integrated in C4 I structure
- Co-ordination with military and civil air traffic control