

SENSOR CAPABILITIES

Maritime Operations

RADAR + ESM + EO/IR



SCHIEBEL
CAMCOPTER® S-100

FACTSHEET

Maritime Operations

RADAR + ESM + EO/IR

Conducting operations in maritime environments is recognized as being inherently dynamic, frequently complex and commonly unique. Effective and efficient operation of today's Intelligence, Surveillance and Reconnaissance (ISR) systems requires capability that offers more than conventional electro-optical full-motion video sensors. Recognizing that small-ship operations also require systems that are able to self-cue, Schiebel's design philosophy has combined a SAR, a lightweight ESM and an EO/IR sensor into a state-of-the-art sensor suite optimized for the maritime environment.

High-resolution Synthetic Aperture Radar (SAR) provides true, all-weather ground mapping and surveillance imaging as well as Ground Moving Target Indication (GMTI).

Electronic Support Measures (ESM) provides wide-area situational awareness and intelligence gathering by means of collection, identification, categorization and geo-location of complex emitters.

Electro-Optical/Infrared (EO/IR) gimbals provide advanced wide-area situational awareness and intelligence gathering through collection, identification, categorization and geo-location of complex emitters.



- Frequency X band
- Scan coverage $\pm 45^\circ$
- Maximum range 20 km (resolution-dependent)
- Map resolution < 1 m
- Strip Map Mode
- Spotlight SAR
- High reliability



- RF Band 0,5 – 40 GHz
- RF measurement 1 MHz RMS typical, including RF agility characteristics
- Sensitivity -60 dBmi wideband DRx sensitivity-dependent on FFT, better than -80 dBmi achievable
- High-accuracy DF, typically 1° rms
- PRF types fixed, jittered, slide, stagger, random stagger, drift batch, irregular, nlets
- Geo-location typically better than 5%



- High-performance, weight-optimized imaging
- 3rd generation thermal imager
- Daylight megapixel color HD zoom camera up to 1080p
- Fully active 4-axis stabilization
- Simultaneous digital and analog video outputs
- Real-time image enhancements on all sensors simultaneously
- Up to 6 imaging/lasing payload options in one gimbal package