DB-110 Reconnaissance System
UTC Aerospace Systems is a pioneer in modern reconnaissance, beginning more than 50 years ago with the design and manufacture of cameras for the world’s first photo-reconnaissance satellite—CORONA. This legacy continues today within airborne reconnaissance. UTC Aerospace System sensors have supported strategic intelligence collection on the U-2 platform from its inception to today. UTC Aerospace System’s SYERS-2 multi-spectral sensor is the US Air Force’s most advanced real-time LOROP sensor.

UTC Aerospace System’s DB-110 dual-band airborne reconnaissance sensor, a derivative of the SYERS system, combines visible and infrared imaging capabilities in a compact, lightweight design. This system has proven its performance day and night operationally and in demonstrations worldwide on both manned and unmanned platforms.

**Heritage**

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**DB-110 Airborne Sensor**

- **The DB-110 is unique in its design as it offers three different fields of view, enabling the following missions:**
  - Long-range standoff
  - Medium-range operations
  - Low-altitude, direct overflight

- **Mission Planning:**
  - Pre-planned
  - Dynamic, in-air retasking

- **Multiple Operational Modes:**
  - Wide-area search
  - Line search
  - Pin-point target
  - Multi-aspect/stereo
  - Target of Opportunity (TOO)

- **Communication:**
  - Continuous real-time data link
  - Store onboard/transmit
  - In-cockpit imagery/status display

**Data-link Capability**

As the aircraft comes into line-of-sight range of the receiving equipment, transmission of acquired imagery to the ground receiving terminal is able to take place.

If the aircraft is out of range, the collected imagery is stored onboard, using a high-speed solid-state recorder—transmission takes place once the aircraft reaches line-of-sight. The flexibility of the data-link receiving equipment and associated ground exploitation equipment permits deployment at fixed or mobile facilities.

**Image Exploitation Systems**

UTC Aerospace Systems also offers a complete range of image exploitation options to complement the airborne system. The exploitation system is configured to the user’s requirements, and the costs minimized through the implementation of COTS hardware and software. The human interface and systems controls are designed to be highly intuitive, thus minimizing image analyst training requirements.

Image Exploitation Systems can be supplied for fixed locations and in mobile configurations. These systems are fully interoperable with a wide range of NATO, US and ISO standards including NITF 2.1 and STANAG versions 7023, 7024, 7085 and 4545.

**In Summary**

In addition to high performance airborne sensors/pods, UTC Aerospace Systems offers a full turnkey capability, including aircraft integration, mission planning, real-time communications, image processing and exploitation, training and long-term logistical support.

The DB-110 Airborne Reconnaissance System enables the commander to move towards a more persistent ISR capability through increased on-station time, real-time image exploitation and flexible dynamic retasking.