The MS-110 is the next generation of the DB-110 airborne reconnaissance system that will provide advanced daytime and nighttime wide-area and long-range reconnaissance capability.

The MS-110 multispectral airborne reconnaissance System is an evolutionary advancement over the third generation DB-110 that provides multispectral detection capabilities, higher resolution and increased coverage, in a SWAP that is compatible with most tactical fast jets, manned ISR aircraft and the MQ-9 Reaper.

The simultaneous multi-band imagery collection provided by the MS-110 is a war-winning capability that can facilitate enhanced target discrimination, change detection, camouflage, concealment and deception (CC&D) detection and maritime/littoral surveillance.

The MS-110 integrates seamlessly into the existing DB-110 reconnaissance architecture, utilizing common ground support equipment and exploitation stations. It is compatible with carriage on fast jets (F-16, F-15, F/A-18, Typhoon, Rafale), manned ISR aircraft and MALE UAVs such as the MQ-9 Reaper.

**Key Benefits/Features**

- Long-range passive target detection and Identification
- Land and maritime missions, day and night
- Operation in permissive as well as A2AD environments
- Provides actionable intelligence
- Compatible with various airborne ISR platforms
- Packaged in various pods for operation on Class 4/5 UAS, fast jets and ISR business jets
A multispectral acquisition enables the end user to see “color” and to discriminate between subtle features of a target that a traditional grayscale image cannot. The ability to discriminate spectral features addresses these military applications:

- Target detection in clutter or camouflaged areas
- Objects in shadowed areas, haze/smoke
- Buildings and infrastructure
- Patterns of life
- Maritime surveillance
- Change detection (IED defeat)
- Combat search and rescue
- Counter-narcotics
- Humanitarian assistance

**MS-110 SENSOR HEAD CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Type</td>
<td>Line scanning TDI; 7-channels</td>
</tr>
<tr>
<td>Collection Modes</td>
<td>Spot, Wide Area, Persistent Imaging</td>
</tr>
<tr>
<td>Field of Regard</td>
<td>Roll ±90°/Pitch ±20° max</td>
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<tr>
<td>Power</td>
<td>340-watts</td>
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<tr>
<td>Length</td>
<td>54.5” (±20° pitch)</td>
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<tr>
<td>Diameter</td>
<td>26.2” (±20° pitch)</td>
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<tr>
<td>Sensor Head Weight</td>
<td>346-lbs</td>
</tr>
</tbody>
</table>

Specifications subject to change without notice.