The LRTA enables complete long-range command and control within direct line of sight between the antenna and the aircraft. The directional antenna is mounted on a positioner which allows for automatic or manual tracking of an aircraft. An omnidirectional antenna provides redundancy and 360-degree coverage with reduced range capabilities.

Compatible with all current AeroVironment SUAS, the LRTA is designed to be operated as a command center ground control solution with options to provide either long-range remote video terminal (RVT) monitoring or full command-and-control operations. The maximum range of the LRTA is up to 60 km with practical usage based on various SUAS endurance capabilities.

### DIFFERENTIATING SPECIFICATIONS

<table>
<thead>
<tr>
<th>SYSTEM PERFORMANCE</th>
<th>M1/2/5</th>
<th>M3/4/6</th>
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<tbody>
<tr>
<td>OPERATING BANDS</td>
<td>M1/2/5</td>
<td>M3/4/6</td>
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<tr>
<td>ANTENNA BEAMWIDTH (3 dB)</td>
<td>M1/2/5: &gt;9° horizontal, &gt;9° vertical</td>
<td>M3/4/6: &gt;6° horizontal, &gt;7° vertical</td>
</tr>
<tr>
<td>LINK MARGIN @ 60 KM RANGE WITH FOS UAS</td>
<td>M1/2/5: 6 dB</td>
<td>M3/4/6: 7.2 dB</td>
</tr>
</tbody>
</table>
For M1/2/5 or M3/4/6
DDL™ Operating Bands

**DISTINCTIONS**

- **LINK RANGE**
  - Up to 60 km

- **PAN RANGE**
  - 360° continuous

- **OPERATING BANDS**
  - M1/2/5 or M3/4/6

**SYSTEM PERFORMANCE**

**LINK RANGE, RVT MODE**
- 60 km nominal range to DDL-equipped UAV

**LINK RANGE, GCS MODE**
- 60 km nominal range to DDL-equipped UAV

**PAN RANGE**
- 360° continuous

**TILT RANGE**
- -20° to +90°

**FIBER OPTIC LINK DISTANCE**
- Up to 2000 m (30 m cable supplied)

**PHYSICAL**

**WEIGHT, DEPLOYED**
- M1/2/5: 304 lb (138 kg)
- M3/4/6: 300 lb (136 kg)

**ANTENNA HEIGHT (C/L) ABOVE GROUND:**
- M1/2/5: 5.8 ft (1.8 m) min. / 9.4 ft (2.9 m) max.
- M3/4/6: 5.25 ft (1.6 m) min. / 8.8 ft (2.7 m) max.

**BASE DIAMETER**
- 5.3 ft (1.6 m), legs not extended

**POWER**

**TX POWER**
- 1.5 W

**RX SENSITIVITY**
- -93 dBm

**POWER CONSUMPTION**
- 275 W (nom., heater off)
- 460 W (max., heater on)

**GCS POWER**
- 120/240 V ac, 50-60 Hz

**OPERATING VOLTAGE**
- 90-250 V ac, 47-65 Hz

**KEY FEATURES**

- High-gain antenna for long-range UAV operations
- Omni-directional antenna for short range operations
- Automatic switching between antenna range modes
- Automatic UAV tracking function (two-axis positioner)
- Available in AeroVironment™ DDL Military Operating Bands M1/2/5 or M3/4/6
- AC prime power with remote power enable
- Fiber optic link from antenna to remote Ground Control Station (GCS)
- Uninterruptable Power Supply (UPS)/Power conditioner for tracking antenna