

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 ———		
SYSTEM PERFORMANCE	M1/2/5	M3/4/6
OPERATING BANDS	M1/2/5	M3/4/6
ANTENNA BEAM WIDTH (3 dB)	M1/2/5: >9° horizontal, >9° vertical	M3/4/6: >6° horizontal, >7° vertical
LINK MARGIN @ 60 KM RANGE With Fos UAS	M1/2/5: 6 dB	M3/4/6: 7.2 dB

# 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

## **SPECIFICATIONS**

#### 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)	(Includes tracking antenna assembly, GCS, cables, battery. Does not include shipping container weight)
ANTENNA HEIGHT (C/L) ABOVE Ground:	M1/2/5: 5.8-9.4 ft (1.8-2.9 m) M3/4/6: 5.25-8.8 ft (1.6-2.7 m)	
BASE DIAMETER	5.3 ft (1.6 m)	

#### **POWER**

TX POWER	Pass-through, depends on DDL module
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





LRTA M1/2/5

LRTA M3/4/6

# **KEY FEATURES**

- >> High-gain antenna for long-range UAV operations
- >> Omnidirectional antenna for short range operations
- Automatic switching between antenna range modes
- Automatic UAV tracking function (two-axis positioner)
- Available in AeroVironment<sup>™</sup> 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