

# UAV SOLUTIONS



**A Solution For Every Mission**

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# Small Unmanned Aircraft System (SUAS) Retrieval Beacon System

## Weight

Packed Kit:	7.70 lbs. (3.50 kg)
Transmitter:	0.03 lbs. (0.01 kg)
Receiver:	0.03 lbs. (0.01 kg)
Tactical Phone:	0.40 lbs. (0.18 kg)
2-port USB Hub:	0.30 lbs. (0.14 kg)
Mounts	
PALS:	0.20 lbs. (0.10 kg)
Vehicle:	0.54 lbs. (0.24 kg)
Nanuk case:	6.20 lbs. (2.81 kg)

## Dimensions

Transmitter	
Overall Length:	7.30 in. (18.54 cm)
Antenna Length:	6.00 in. (15.24 cm)
Unit Length:	1.30 in. (3.30 cm)
Width:	1.30 in. (3.30 cm)
Depth:	0.40 in. (1.02 cm)
Receiver	
Overall Length	
Low+Mid Band <sup>3</sup> :	11.10 in. (28.20 cm)
High Band:	5.10 in. (13.00 cm)
Antenna	
Low+Mid Band <sup>3</sup> :	9.00 in. (22.86 cm)
High Band:	3.00 in. (7.62 cm)
Unit Length:	2.10 in. (5.33 cm)
Width:	1.20 in. (3.05 cm)
Depth:	0.70 in. (1.78 cm)

## Radio Frequency

Broadcast Range <sup>1</sup>	
Lower Band:	137–175 MHz
Middle Band:	410–525 MHz
Upper Band:	862–999 MHz

Transmission Bandwidth:	125 KHz
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LOS Range <sup>2</sup>	
Lower Band <sup>3</sup> :	2.00 mi. (3.22 km)
Middle Band <sup>3</sup> :	5.00 mi. (8.04 km)
Upper Band:	5.00 mi. (8.04 km)

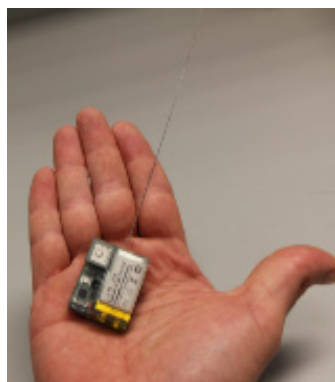
RF Output <sup>4</sup> :	16 dBm
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## Power

Battery Life <sup>5</sup> :	8 hours
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## Images

Transmitter



Receiver



*All measurements are approximate*

<sup>1</sup>1MHz intervals; <sup>2</sup>Contingent on clear line-of-sight; <sup>3</sup>Low & Mid bands use single antenna; <sup>4</sup>Before antenna losses; <sup>5</sup>With GPS update rate of 30 seconds & RF transmission rate of 2 seconds