

# ANT-PTS-305150-1-1

## Fly Away HF Antenna Kit

The Raven is a folded dipole antenna expeditionary system for Near Vertical Incidence Skywave (NVIS) 0-1,000 miles HF communications. The Raven's full spectrum 1.8-30 Mhz broadband coverage makes it an excellent antenna for ALE operations without the need for a tuner/coupler. The entire expeditionary system with the optional roll-up mast can be deployed in 5 minutes with less manpower, less cost and less weight than traditional systems.

### Fly Away HF Antenna Kit Components

PTS Part Number:	MTS-RTL-305000-1-1 (see second page for details) Single Tube Mast System - 5m
PTS Part Number:	ANT-PTS-000150-2-1 RAVEN - Rapid Deployment Folded Di-pole HF Antenna (150W)
System Weight:	8.6kg (19lbs)

### RAVEN HF 150W Broadband NVIS Antenna Details

PTS Part Number:	ANT-PTS-000150-2-1
Frequency Range:	1.8-30MHz
Power Rating:	150W
VSWR:	1.5 : 1 MAXIMUM
Impedance:	50 ohms nominal
Deployed Height:	Mission dependent – contact PTS for info*
Maximum Required Width:	16.76m (55')
System Stowed:	Antenna System 10" x 13" x 10" (250mm x 320mm x 260mm)
System Weight:	4.26kg (9.4lbs)
Radiation Pattern:	Omnidirectional
Antenna Format:	Horizontally Polarized Folded Dipole
RF Connector	BNC, male (BNC-to-Type N Adapter included)
RF Coaxial	RG8X (15.24m, 50')
Environmental:	Compliant with relevant sections of MIL-STD-810G

\* See PTS manual for deployment information



# PTS

Expeditionary Communications

[www.pts-inc.com](http://www.pts-inc.com)  
[info@pts-inc.com](mailto:info@pts-inc.com)  
256-539-6787



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# MTS-RTL-305000-1-1

## Single Tube Mast System - 5m

The Rolatube tactical mast system is compact and portable and can be used to deploy radio communications, data and surveillance equipment at greater heights. Set up and recovered in minutes with minimum personnel, the mast system contains no moving parts to jam, freeze or that need maintenance. Weather resistant and recoverable even when iced up, the mast maintains operability in the harshest environments.

### System Name      Single Mast System

System Part Number	MST-RTL-305000-1-1 5m 3" MULTICAM
Deployed Height	5m
Deployed Tube Dia	76mm (3")
Maximum Top Load	5m, 5kg (11lbs)
System Weight	7kg (15lb)
Pack System Volume	406mm x 305mm x 305mm (16" x 12" x 12")
System Components	1 x Rolatube Mast 1 x Top Cap 1 x Base Cap 6 x Rock Pegs 3 x Guy Ropes 3 x Soft Ground Pegs 1 x Bag



- Construct & Finish Mast Body: PP & glass fiber composite. UV resistant polyester fabric cover.
- Mast Cover: UV resistant nylon fabric cover in Multicam or solid black color.
- Environmental: Water & dust proof. Maintenance free.
- Specification: Complies with the relevant sections of MIL STD-810G.
- Wind Rating: 100kmh (62mph) bare mast only, secured with guy ropes and ground pegs



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[www.pts-inc.com](http://www.pts-inc.com)  
[info@pts-inc.com](mailto:info@pts-inc.com)  
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