



Advantech
Wireless



INTREPID 120™ – Assembly Instructions



The INTREPID120 Antenna System

The 'INTREPID' class of antenna systems are renowned for their compact size, light weight and powerful performance having been designed to excel in today's ever demanding satellite communications industry.

The user friendly modular design allows for simple, fast and accurate satellite acquisition either as a manually controlled mount or as a fully auto-acquisition motorised mount.

The clever design of the tri-pod mount also means that other 3rd party antennas can be fitted allowing existing equipment to be cost effectively upgraded.

The main reflector is manufactured from high quality carbon fibre and is supplied in six easily assembled petals that employ a revolutionary spherical dowel locking mechanism.

The revolutionary design of the complete fly-away system allows for the INTREPID class antenna to be transported in easily manageable carry cases weighing less than 32kg that can be checked onto any commercial aircraft making the INTREPID class antenna a totally flexible fly-away system.



Contents

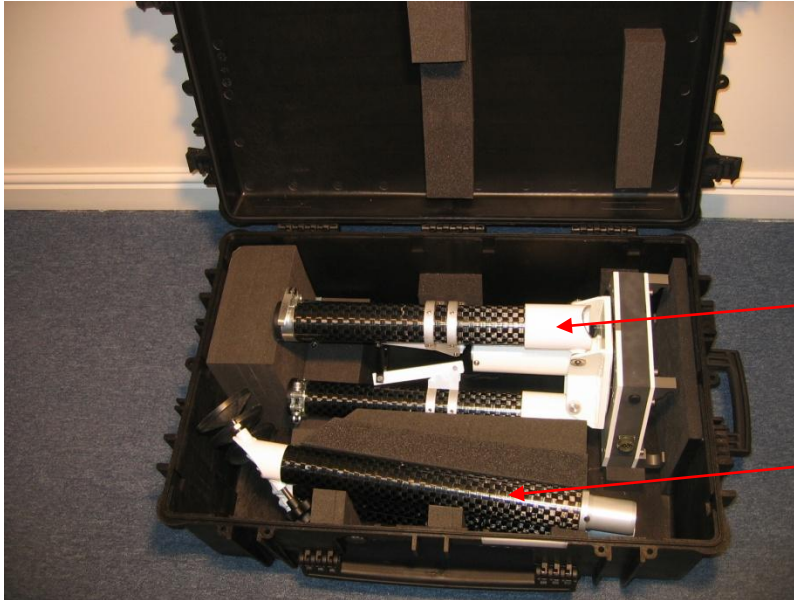
1.0 Case Contents

2.0 Assembly Instructions



1.0 Case Contents

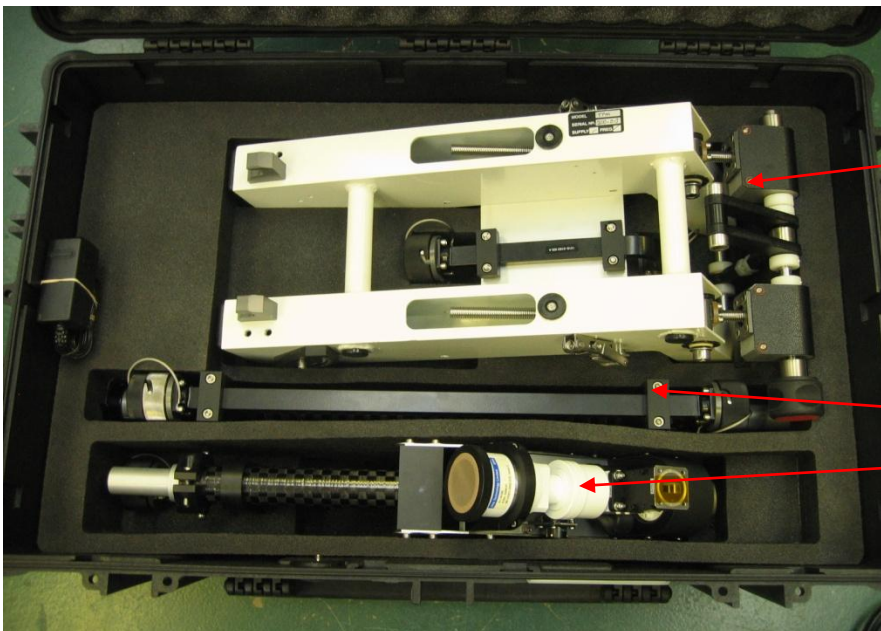
1.1 Case 1 - Tripod Case



Tripod Base

Extension Legs

1.2 Case 2 – Elevation & Feed arm Case



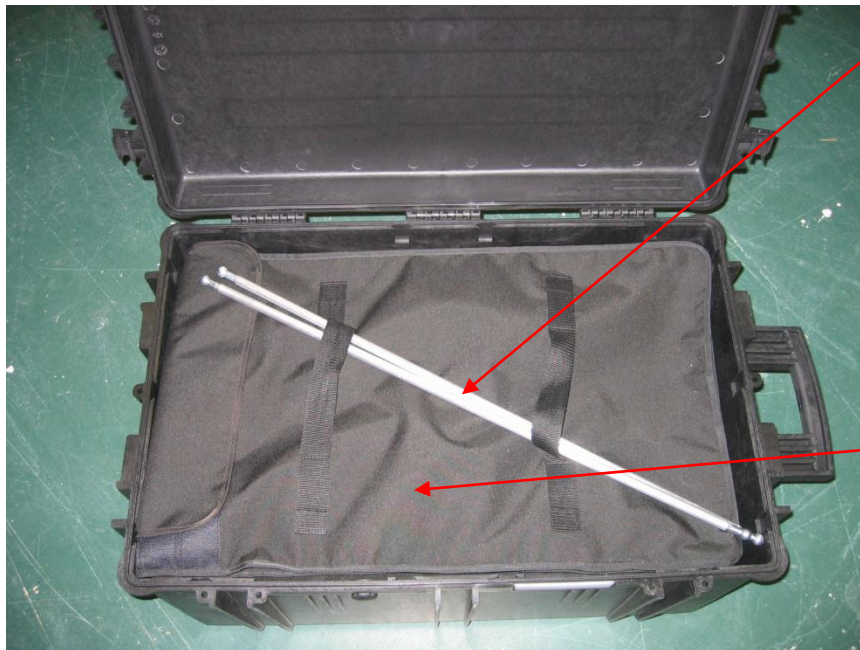
Elevation head

Extension arm
OMT Assembly



The Tripod is transported in its custom built transit case. The components are secured in place by the lid of the case and are supported as shown.

1.3 Case 3 - Antenna Case



Antenna Stays

Antenna Bag

Remove the Antenna stays & lift out the antenna bag containing the carbon antenna.

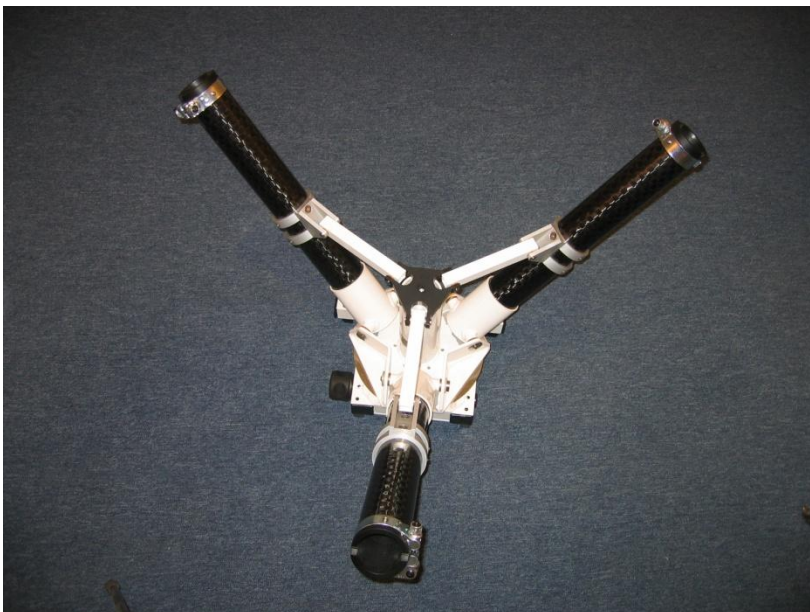


2.0 Assembly Instructions

2.1 Tripod Assembly



Remove the tripod base from the packing case.





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Invert and Place Tri-pod base securely. Splay the Tri-pod legs and force the centre lock into the stow position.



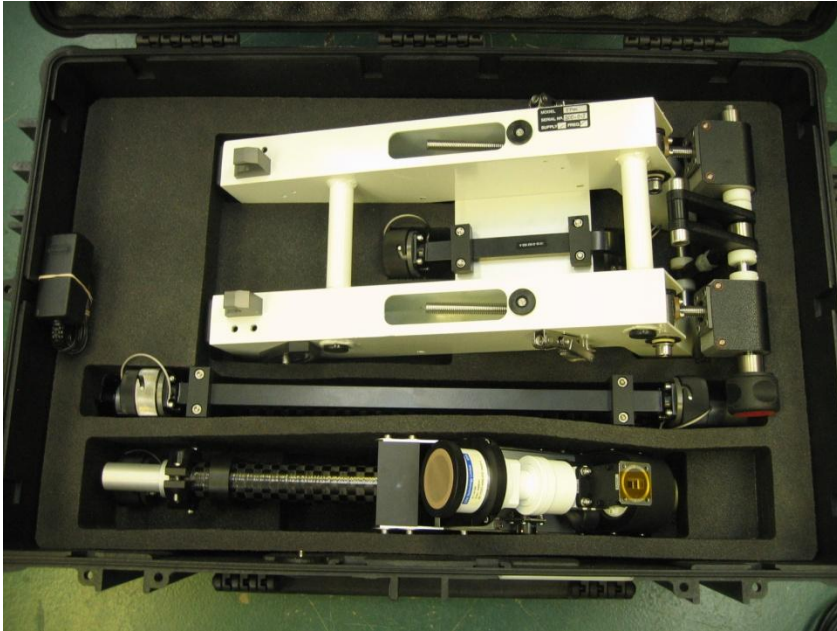
Remove the tripod extension legs and locate into tripod head. Tighten and lock leg cams.





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Stand tripod on legs and level using adjustable levelling feet and bubble level mounted on the tripod base.

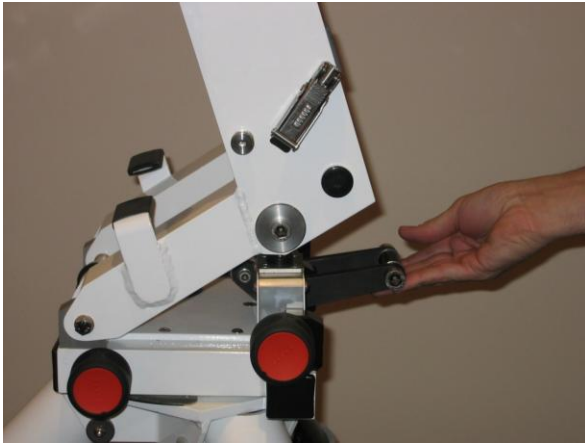


Remove the elevation head from the packing case.





Assemble elevation head onto the rear locations on the tripod base



and lock with Vee-Lock handle by pushing in an upward motion.



RF Location points

Antenna Clamp

Inclinometer

RF Location points

Elevation Adjustment

Azimuth Adjustment

Azimuth Brake

The tripod is ready to accept the antenna.



2.2 Antenna Assembly

Remove antenna base petal, antenna carry case and stays.



Locate and lock antenna base petal onto tripod head.



Secure and lock bottom petal into position on tripod base petal using over centre locking clips.



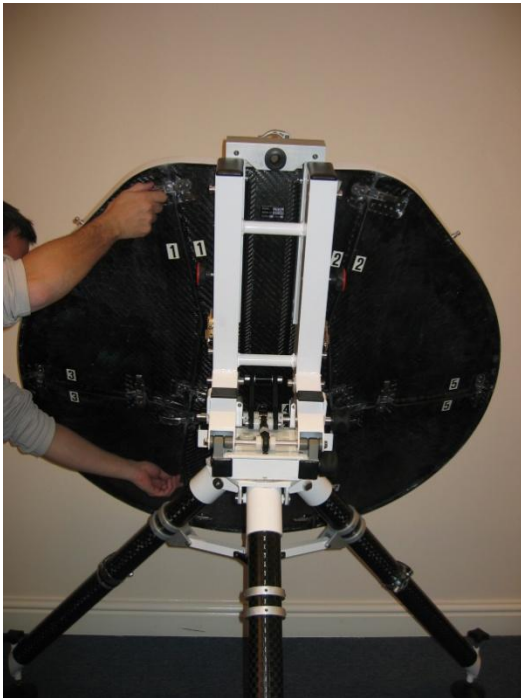


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Tripod with 1st and 2nd petal attached.



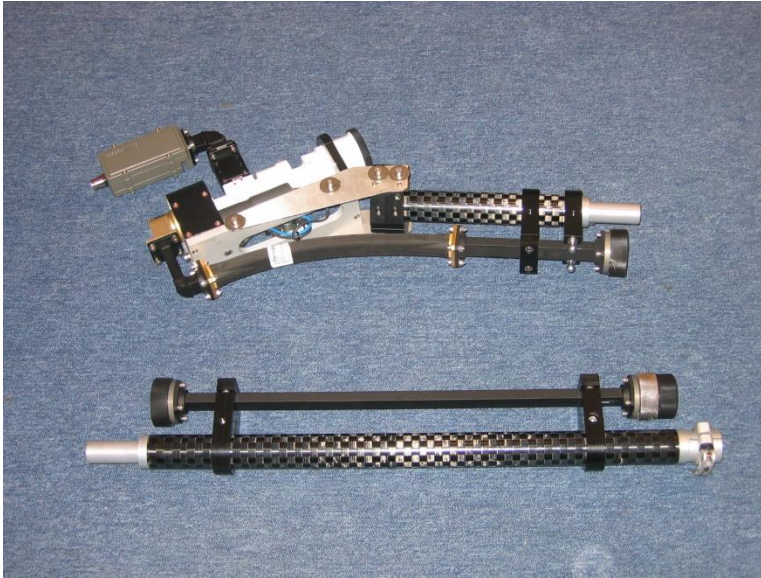
Assemble left and right sides of the antenna.



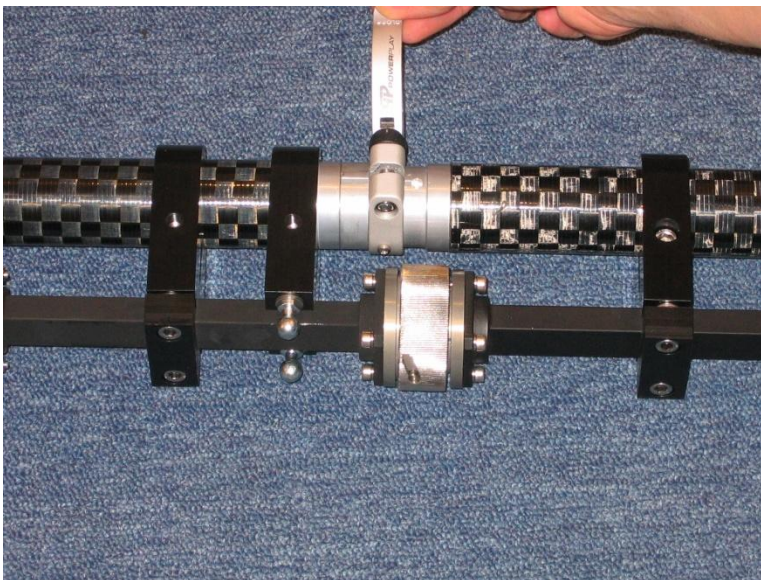


Lock right and left sides of the antenna to the tripod antenna assembly.

2.3 Feed Arm Assembly

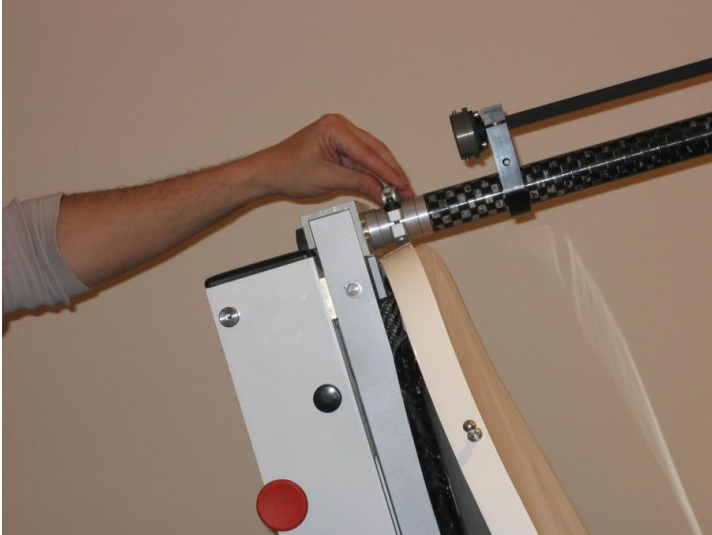


Remove OMT assembly and extension arm. Remove Quick-Connect™ dust caps

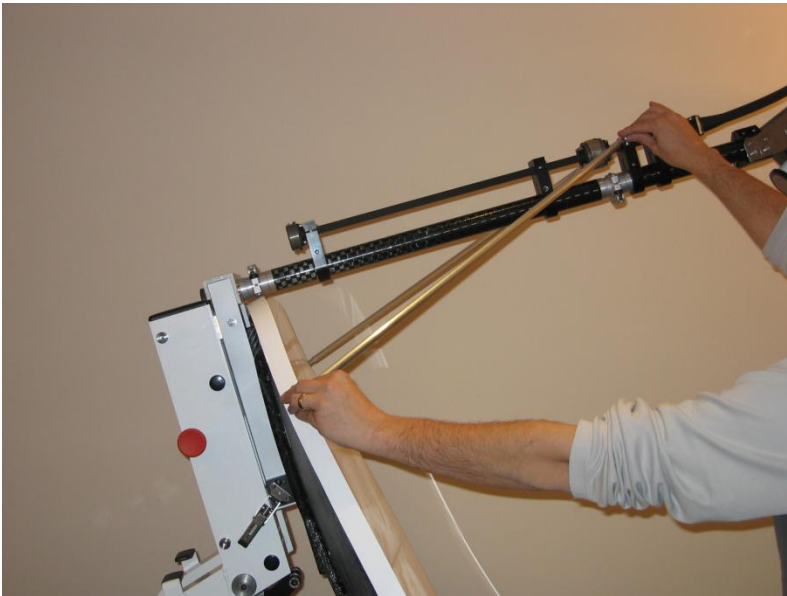




Lock both parts of the feed arm together with feed arm cam. Make the Quick-Connect™ connections.



Lock the feed arm into tripod assembly using the secure cam lock.



Attach feed arm stays into position, one on each side.

Attach flexible waveguide from feed arm to elevation head & from elevation head to HPA.