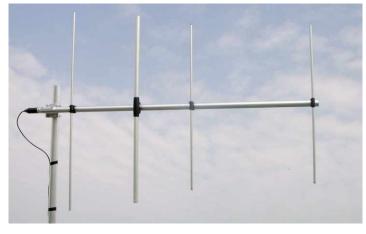
WY 140-4N

WY 155-4N

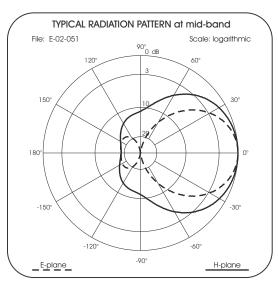
VHF Base Station 4 Elements Yagi Antennas 140-175 MHz

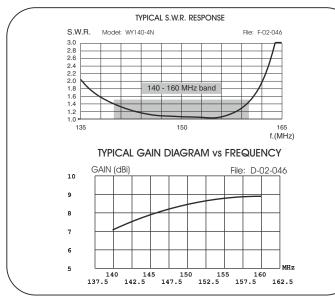
DESCRIPTION: Base station antennas conceived by using an innovative feed system studied and applied to have highly symmetrical radiation pattern in both planes (E and H). It's completely computer designed to get high performances of gain and front-to-back in the working band. All aluminium parts are protected by anodized treatment, hardware are of Stainless steel or zinc plated steel, mounting bracket is of extruded aluminium for the best strength and the connector is placed in rear position for an easily access. To increase the antenna gain please install it in vertical stacked array.

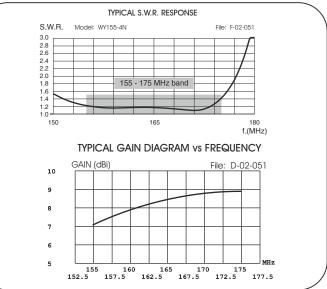
These products are Patented.



Electrical Data	WY 140-4N	WY 155-4N	
Туре	4 elements Yagi		
Frequency Range @ SWR ≤ 1.5	140 - 160 MHz	155 - 175 MHz	
Impedance	50 Ω		
Radiation (H-plane) beamwidth @ -3 dB	100° - HCM code = 042LA28	100° - HCM code = 008KA16	
Radiation (E-plane) beamwidth @ -3 dB	65° - HCM code = 033EA26	65° - HCM code = 031EA13	
Front to back ratio	≥ 1	≥ 16 dB	
Polarization	Linear Vertica	Linear Vertical or Horizontal	
Gain	6.35 dBd	6.35 dBd - 8.5 dBi	
Max Power (CW) @ 30°C	200	200 Watts	
Grounding Protection	All metal parts are DC-grounded, the inner conductor shows a D		
	short		
Connector	N-female with rub	N-female with rubber protection cap	
Mechanical Data			
Materials	Anodized 6063-T5 Aluminium, EPDM rubber, thermoplastic UV		
	stabilized, Chromed Brass		
Wind Load @ 150 km/h	147 N	141 N	
Wind Resistance	140 Km/h; 87 mi/h	140 Km/h; 87 mi/h	
Wind Surface	0.119 m ² ; 1.27 ft ²	0.114 m ² ; 1.22 ft ²	
Dimensions W x H (approx.)	1600 x 1085 mm; 5.2 x 3.6 in	1600 x 985 mm; 5.2 x 3.2 ft	
Turning radius (approx.)	1540 mm; 5.05 in	1530 mm; 5.02 ft	
Weight (approx.)	2070 gr; 4.5 lb	2015 gr; 4.4 lb	
Operating temperature	-40° C to +60° C		
Mounting Mast	Ø 35 - 60 mr	Ø 35 - 60 mm; 1.4 - 2.4 in	
Boom / Dipole / Element Diameter	Ø 32 mm; 1.25 in / Ø 24 mm; 0.95 in / Ø 12 mm; 0.5 in		

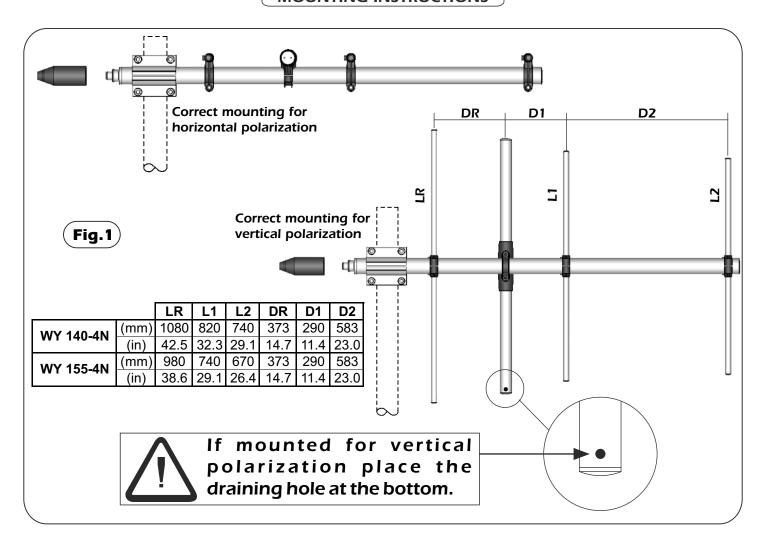








MOUNTING INSTRUCTIONS



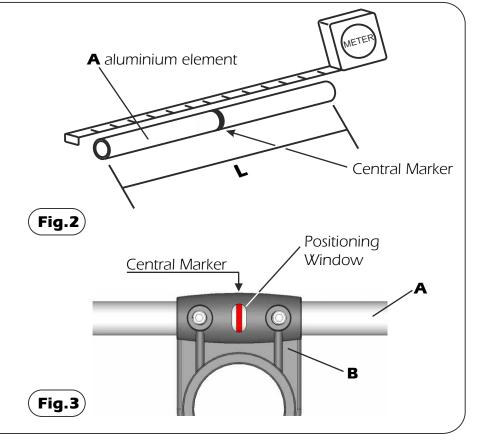
Element Mounting

- 1) By means of a meter measure the aluminium elements **A** and position them in the plastic support **B** of the boom according to **fig.1**.
- **2**) Place the reference marker of the aluminium element **A** in the centre of the plastic support **B** (see **fig. 3**) and lock the screws **C** by the supplied key **D** (**fig. 4**). When the screws touch the aluminium tubes you can finally lock them turning for 1.5 turns.

Warning: do not exceed 1.5 turns. The plastic support threads could be damaged.

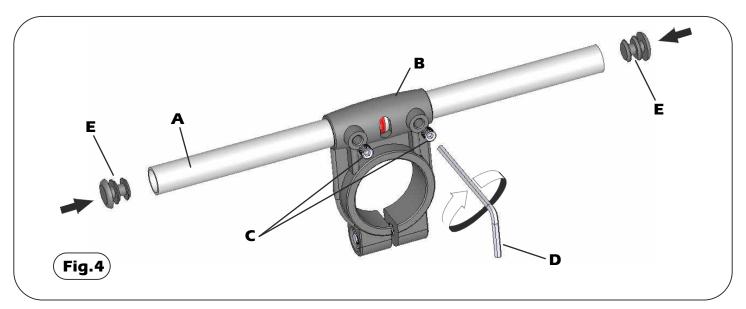
3) Insert the plastic caps **E** on the aluminium elements **A** (see **fig. 4**)

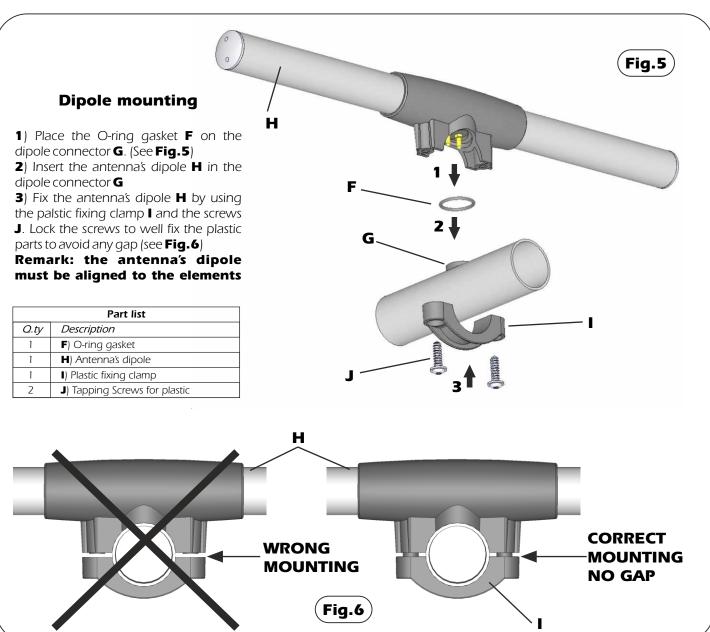
Part list		
Q.ty	Description	
1	A) Aluminum tubes	
2	C) M5x6 Hexagon socket set screw	
1	D) 2.5mm Hexagonal key	
2	E) Plastic cap	





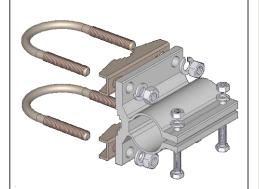
MOUNTING INSTRUCTIONS





MOUNTING INSTRUCTIONS

Standard FT-6 Mounting Bracket



Spare parts: p/n 2519913.00

Materials: extruded aluminum
Hardware: stainless & zinc plated steel
Dimensions: 90 x 85 x 65 mm
Weight: 550 gr

Part list		
O.ty	Description	
1	Extruded aluminium bracket	
2	Steel bracket	
2	M8x216 U-bolt	
4	M8 Grower washer	

M8 Hexagonal nut

M6 Grower washer

M6 Hexagonal nut

M6x20 Hexagonal head screw

4

2

2

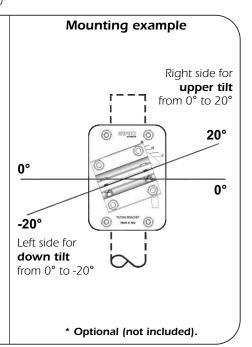
2

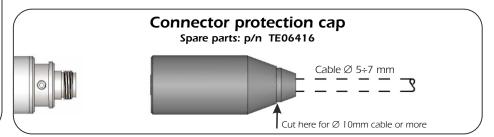
Tilting Bracket*

Order p/n: 2519803.00

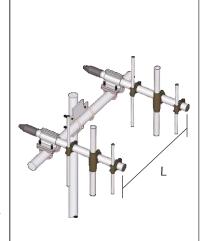
Materials & Hardware: zinc plated steel Dimensions: 115 x 155 x 6 mm. Weight: 800 gr

Part list			
O.ty	Description		
1	115x155x6 Tilting bracket		
4	M8x25 Spheric head screw		
4	M8 Grower washer		
4	M8 Hexagonal nut		





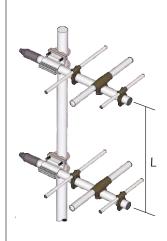




Vertical polarization (Bayed) **L= 1.1 m; 3.6 ft**

Vertical polarization (Stacked)

L= 1.6 m; 5.25 ft



Horizontal polarization (Stacked)

L= 1.1 m; 3.6 ft



Horizontal polarization (Bayed)

L= 1.6 m; 5.25 ft



ntenne HI-QUALITY ANTENNAS MADE IN ITALY