Standard Mounting Bracket



Spare parts: p/n SA197

Materials: extruded aluminum Hardware: stainless & zinc plated steel Dimensions: 80 x 76 x 65 mm

Weight: 460 gr

Part List	
O.ty	Description
1	Extruded aluminium bracket
2	Steel bracket
2	M8x200 U-bolt
4	M8 Grower washer
4	M8 Hexagonal nut
2	M6x20 Hexagonal head screw
2	M6 Grower washer
2	M6 Hexagonal nut

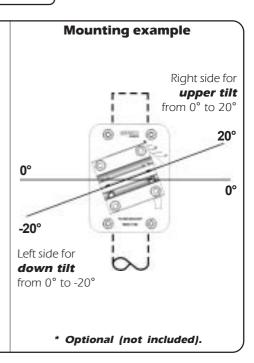
Tilting Bracket*

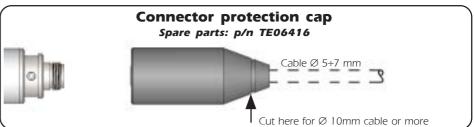
Order p/n: 2519803.00

Materials & Hardware: zinc plated steel Dimensions: 110 x 150 x 6 mm.

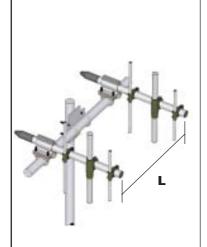
Weight: 800 gr

_	
	Part List
O.ty	Description
1	110x150x6 Tilting bracket
4	M8x25 Spheric head screw
4	M8 Grower washer
4	M8 Hexagonal nut









Vertical polarization (Bayed) **L= 1.1 m**

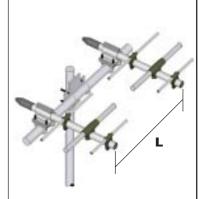
Vertical polarization (Stacked)

L= 1.6 m



Horizontal polarization (Stacked)

L= 1.1 m



Horizontal polarization (Bayed)

L= 1.6 mm



HI-QUALITY ANTENNAS MADE IN ITALY

WYI40-2N

140-160 MHz Base Station 2 Element Yagi Antenna

DESCRIPTION

Base station antenna 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. **Patent pending applied**.

TECHNICAL DATA

Electrical Data

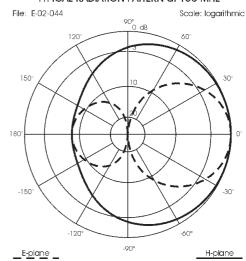
Туре	2 elements Yagi
Frequency range	140 - 160 MHz
Impedance	50 Ω Unbalanced
Polarization	Linear Vertical or Horizontal
Radiation (H-plane)	beamwidth at -3 dB= 195° at 150 MHz
Radiation (E-plane)	beamwidth at -3 dB= 75° at 150 MHz
Max Gain	5.2 dBi
Front to Back ratio	≥ 9 dB
S.W.R. in bandwidth	≤ 1.5:1
Max Power	200 Watts (CW) at 30°C
Feed system / Position	RG303 Teflon coax with balun / inside boom
Lightning protection	DC-ground
Connector	N-female with rubber protection cap

Mechanical Data

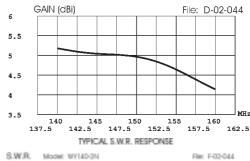
Materials	Anodized 6063-T5 Aluminium,
	Thermoplastic UV stabilized, Chromed Brass
Wind load / resistance	92 N at 150 Km/h / 180 Km/h
Wind surface	0.071 m ²
Dimensions (approx.)	740 x 1110 mm
Weigth (approx.)	1490 gr
Turning radius	770 mm
Operating temperature	-40° C to +60° C
Mounting Mast	Ø 35-52 mm

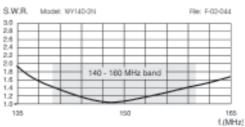


TYPICAL RADIATION PATTERN at 150 MHz



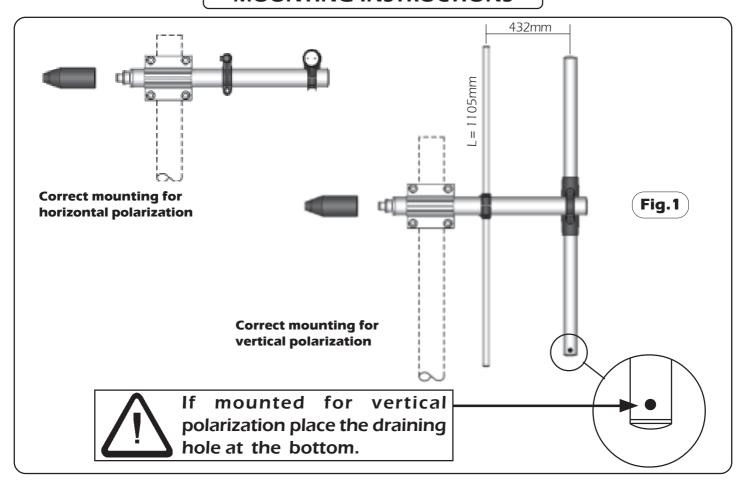
TYPICAL GAIN DIAGRAM VS FREQUENCY







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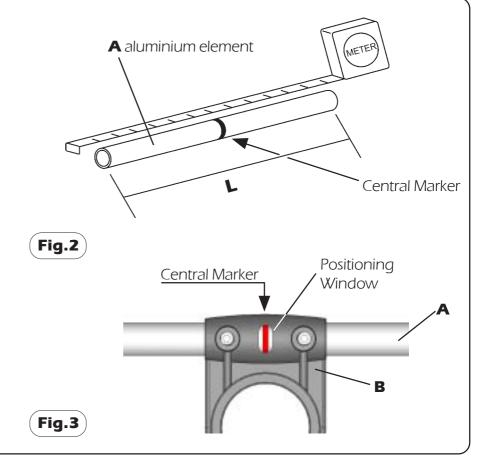
Element Mounting

- 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.

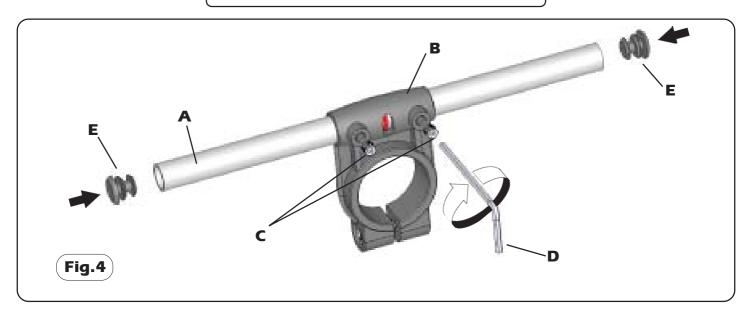
Warning: do not exceed 1.5 turns. The plastic support threads could be damaged.

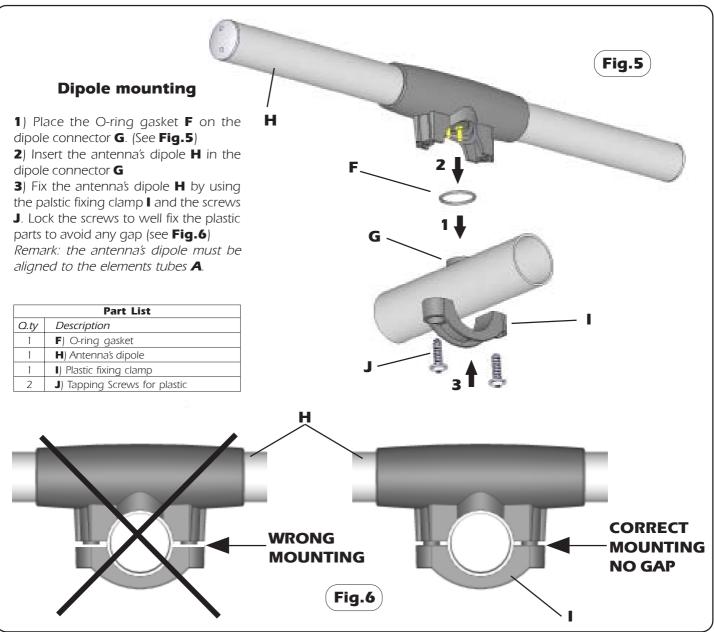
3) Insert the plastic caps **E** on the aluminium elements **A** (see **fig. 4**)

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











Standard Mounting Bracket



Spare parts: p/n SA197

Materials: extruded aluminum Hardware: stainless & zinc plated steel Dimensions: 80 x 76 x 65 mm

Weight: 460 gr

	Part List
Q.ty	Description
1	Extruded aluminium bracket
2	Steel bracket
2	M8x200 U-bolt
4	M8 Grower washer
4	M8 Hexagonal nut
2	M6x20 Hexagonal head screw
2	M6 Grower washer
2	M6 Hexagonal nut

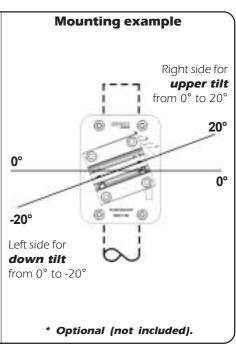


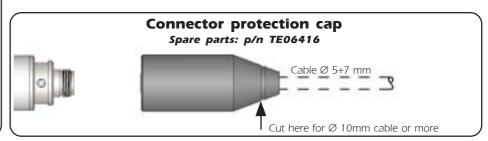
Order p/n: 2519803.00

Materials & Hardware: zinc plated steel Dimensions: 110 x 150 x 6 mm.

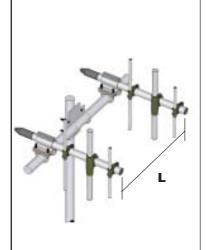
Weight: 800 gr

Part List	
Q.ty	Description
1	110x150x6 Tilting bracket
4	M8x25 Spheric head screw
4	M8 Grower washer
4	M8 Hexagonal nut

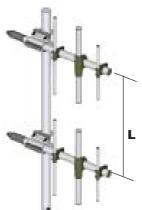








Vertical polarization (Bayed) **L= 1.1 m**



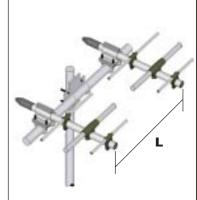
Vertical polarization (Stacked)

L= 1.6 m



Horizontal polarization (Stacked)

L= 1.1 m



Horizontal polarization (Bayed)

L= 1.6 mm



HI-QUALITY ANTENNAS MADE IN ITALY

WY155-2N

155-175 MHz Base Station 2 Element Yagi Antenna

DESCRIPTION

Base station antenna 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. **Patent pending applied**.

TECHNICAL DATA

Electrical Data

Туре	2 elements Yagi
Frequency range	155 - 175 MHz
Impedance	50 Ω Unbalanced
Polarization	Linear Vertical or Horizontal
Radiation (H-plane)	beamwidth at -3 dB= 165° at 165 MHz
Radiation (E-plane)	beamwidth at -3 dB= 75° at 165 MHz
Max Gain	5.2 dBi
Front to Back ratio	≥ 9 dB
S.W.R. in bandwidth	≤ 1.5:1
Max Power	200 Watts (CW) at 30°C
Feed system / Position	RG303 Teflon coax with balun / inside boom
Lightning protection	DC-ground
Connector	N-female with rubber protection cap

TYPICAL RADIATION PATTERN at 165 MHz

Scale: logarithmic

H-plane

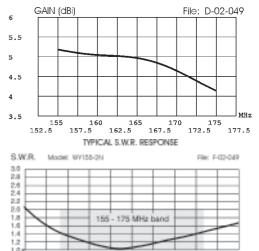
File: E-02-049

E-plane

Mechanical Data

Materials	Anodized 6063-T5 Aluminium,
	Thermoplastic UV stabilized, Chromed Brass
Wind load / resistance	88 N at 150 Km/h / 180 Km/h
Wind surface	0.068 m ²
Dimensions (approx.)	740 x 955 mm
Weigth (approx.)	1450 gr
Turning radius	750 mm
Operating temperature	-40° C to +60° C
Mounting Mast	Ø 35-52 mm

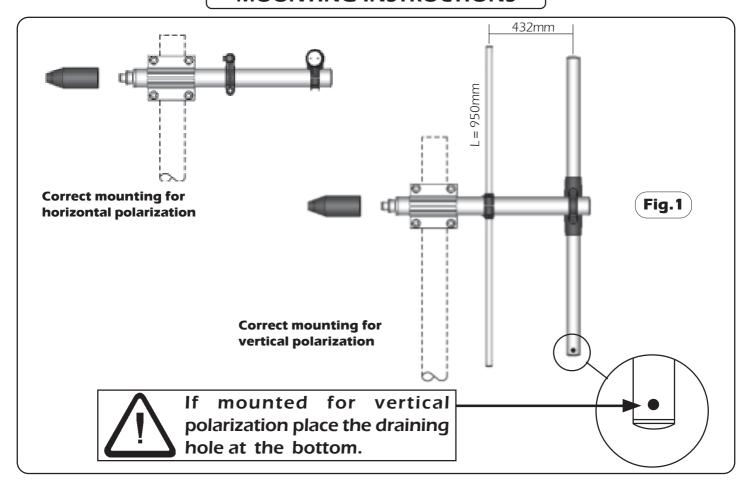
TYPICAL GAIN DIAGRAM VS FREQUENCY





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f.(MHz)



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) Aluminium tubes
2	C) M5x6 Hexagon socket set screw
1	D) 2.5mm Hexagonal key
2	E) Plastic cap

