

# Marine GPS/GLONASS/UHF Antenna

## MODEL: GUA-650G

### FOR Marine UHF Radio & GPS NAVIGATION SYSTEM



### GPS Antenna Specifications: GA65G

PHYSICAL CONDITION	
Constructions:	Polycarbonate radome, detachable cable/connector for easy mount, rubber-O-ring between top radome and screw base for waterproof
Dimensions:	60mm(Dia.) x 45mm(H)
Weight:	65grams (w/o cable & connector).
Color:	Standard in ivory white, other colours available upon request.
Mounting:	Bulkhead mount with 0.8 inch threaded wing nut (standard accessory).
Cable & Connector	
RF cable:	TNC(M) +10 meter RG58 +BNC(M) (standard) other length (optional)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief.
Connector	TNC(F)or SMA(F)
Antenna Element	
Center Frequency:	1575Mhz & 1596-1610 MHz
Polarization:	R.H.C.P. (Right Handed Circular Polarization).
Bandwidth	10 MHz min. @S11≤-10 dB, 24MHz typ. @S11<-8dB
Gain @ 10° Elevation:	2 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5 max
Output Impedance:	50 ohm
Low Noise Amplifier	
Power Gain:	1570 Mhz : 29db typ 1610 Mhz : 29db typ
Bandwidth:	50 MHz min.
Noise Figure:	1.5 typ
Outer Band Attenuation:	20 dB min. @ Fo +/-50 Mhz.
Supply Voltages:	2.3~5.5V DC.
Current Consumption:	2.5V : 6.6mA Typ. 3V: 10.6mA Typ. 4V: 14.6mA Typ.

<b>BJTEK Navigation Inc.</b>	5V: 20.6mA Typ.	<a href="https://www.bjnav.com/">https://www.bjnav.com/</a>
Output Impedance:	50W ohm	
<b>Overall Performance: (antenna element, LNA &amp; coax cable)</b>		
Center Frequency:	1570 ~1610 Mhz.	
Gain:	At 90° vertical to sky 30 ± 4.5dBi (cable loss) Note:1 Mounted on the 60mm x 60mm square ground plane	
Noise Figure:	2.0 max.	
Axial Ratio:	3 dB max.	
Bandwidth:	10MHz min.	
VSWR:	2.0 max.	
Output Impedance:	50W ohm	
<b>Environmental</b>		
Operating Temperature:	-40°C~ +85°C.	
Storage Temperature:	-40°C~ +90°C.	
Relative Humidity:	95% non-condensing.	
Water Resistance:	100% waterproof.	

## OUTSIDE UHF BASE ANTENNA

### MODEL: MUA-100A



### **SPECIFICATION**

#### 一. **ELECTRONICAL:**

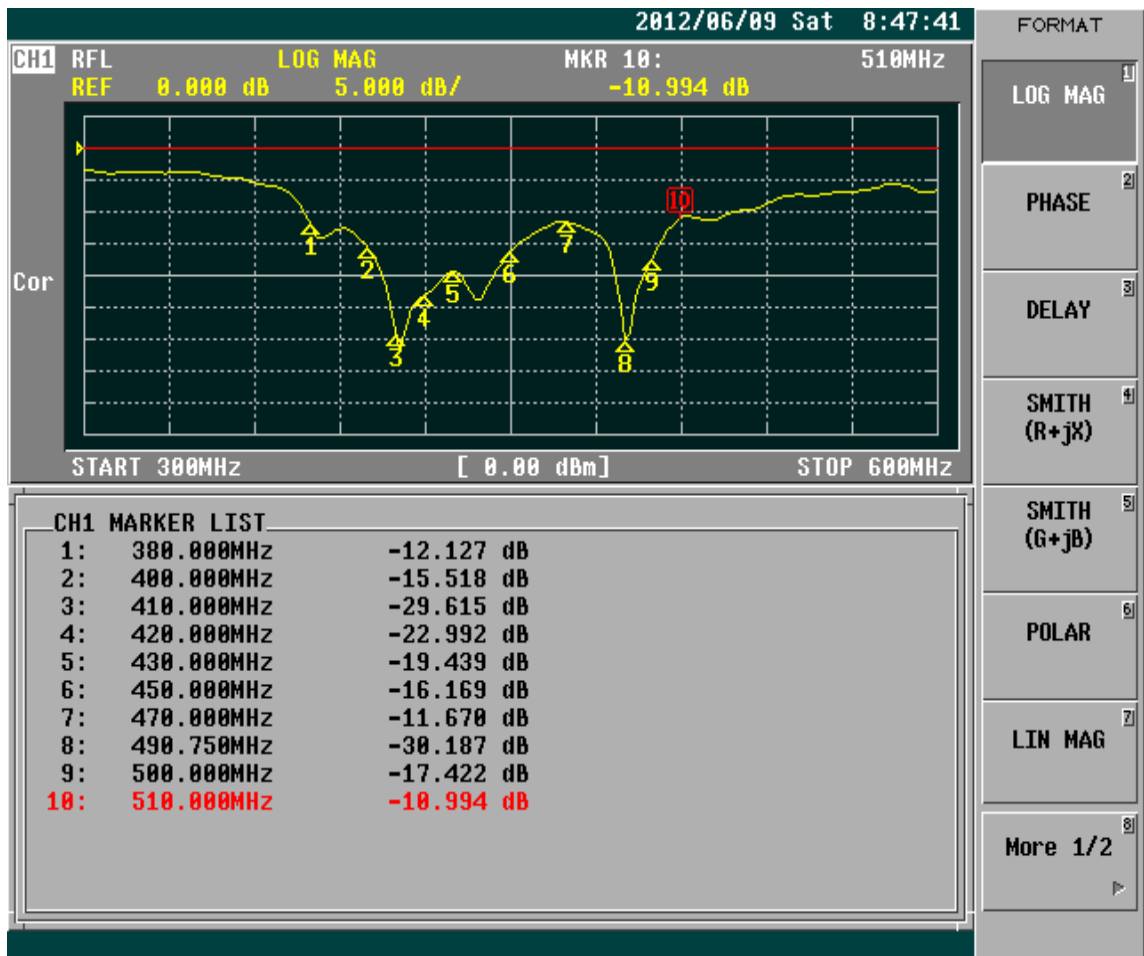
1. ANTENNA TYPE 天線型式: Base Antenna
2. FREQUENCY 頻率: 380~512MHz
3. IMPEDANCE 阻抗: 50 Ohm
4. POLARISATION 極: Verticle
5. SWR: 2.0:1
6. MAX.POWER 最大功率: 50W

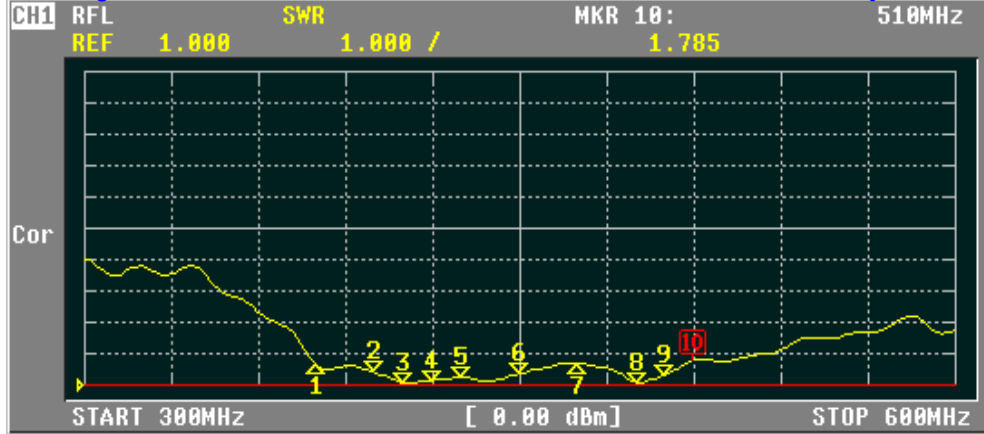
#### 二. **MECHANICAL:**

1. MATERIALS 材質: Fiber
2. COLOR 顏色: White
3. TOTAL HEIGHT 總長度: 910m/m ±10
4. WEIGHT 重量: 1050g

NO.	NAME	Q. TY
01	Body	01
02	Cap	01
03	Stay ring(Stainless steel)	01
04	Round iron washer(Stainless steel)	01
05	Hexagonal nut(Stainless steel)	01
06	Clip retaining	02
07	U-Circlip(Stainless steel)	02
08	Hexagonal nut(Stainless steel)	02
09	Round iron washer(Stainless steel)	04
10	Hexagonal nut(Stainless steel)	04
11	Hexagonal plate hand	01
12	N (Female)	01

	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
 Third angle projection				380-512Mhz	M/M		20111118	1
	TOLERANCE	X. XX±0. 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	S ▽	APPEARANCE					

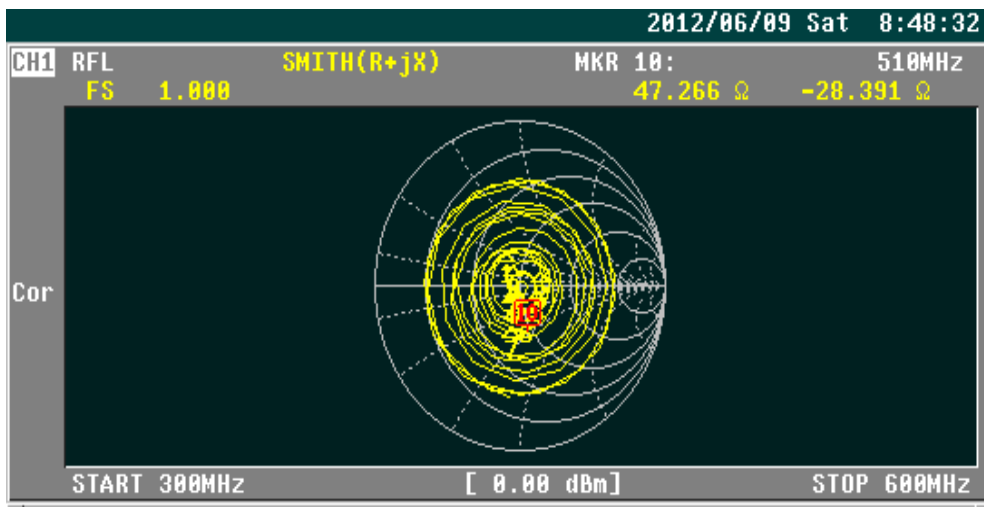




CH1 MARKER LIST

1:	380.000MHz	1.661
2:	400.000MHz	1.402
3:	410.000MHz	1.070
4:	420.000MHz	1.150
5:	430.000MHz	1.240
6:	450.000MHz	1.365
7:	470.000MHz	1.706
8:	490.750MHz	1.065
9:	500.000MHz	1.312
10:	510.000MHz	1.786

- 1 SWR
- 2 REAL
- 3 IMAG
- 4 PHASE -∞, +∞
- 5 LOG MAG & PHASE
- 6 LOG MAG & DELAY
- 7 LIN MAG & PHASE
- 8 More 2/2



CH1 MARKER LIST

1:	380.000MHz	37.554 Ω	17.148 Ω	7.182nH
2:	400.000MHz	65.350 Ω	10.867 Ω	4.324nH
3:	410.000MHz	47.163 Ω	644.709mΩ	250.265pH
4:	420.000MHz	44.312 Ω	-3.417 Ω	110.883pF
5:	430.000MHz	60.618 Ω	-4.463 Ω	82.928pF
6:	450.000MHz	51.238 Ω	-15.793 Ω	22.393pF
7:	470.000MHz	38.883 Ω	-20.097 Ω	16.849pF
8:	490.750MHz	48.150 Ω	-2.425 Ω	133.716pF
9:	500.000MHz	44.351 Ω	10.928 Ω	3.478nH
10:	510.000MHz	47.268 Ω	-28.433 Ω	10.975pF

- 1 LOG MAG
- 2 PHASE
- 3 DELAY
- 4 SMITH (R+jX)
- 5 SMITH (G+jB)
- 6 POLAR
- 7 LIN MAG
- 8 More 1/2

## Madel : FB-6



Size :

