



# BizGyro<sup>®</sup>

Bizclap Gyrocompass product family



BizGyro  
GNSS



BizGyro

## Benefits of BizGyro:

- **10 x faster** - Real-time performance and excellent filtering using FPGA technology & DSP processor
- **Extremely low latency** measurements and estimation
- **3 x Smaller** - Designed to achieve low weight
- **3 x Cheaper** - Cost effective solution

" BizGyro is splendid for its specifications and with a better price and smaller dimensions than what we had in this performance range" said Mr. Kessler, CEO at Navtron Srl. "It is ideal for all applications like single-beam surveys, sub-bottom profilers, USBL underwater positioning, trim & heave monitoring of boats and any other purposes for ships".

✓	✓	✓	✓	✓	✓	✓
0.01° Roll, Pitch, Yaw	Internal Filter Speed 1000Hz	Heave accuracy 5cm or 5%	Weighting max 500gr	Small Size: 7.5x7.5x6.5cm	Interface 2XRS232/1XRS422 fully customized for GPS and output string	Ethernet DHCP / UPD

## Measurements Accuracy



BizGyro			
	RMSE	P2P ERROR	RANGE
Roll	0.01 °	0.1 °	+/- 45°
Pitch	0.01 °	0.1 °	+/- 45°
Yaw	0.05 °	0.1 °	0-360°
Heave Motion	5% or 5 cm		

BizGyro - GNSS			
	RMSE	P2P ERROR	RANGE
Roll	0.05 °	0.1 °	+/- 45°
Pitch	0.05 °	0.1 °	+/- 45°
Heading	0.5°	1 °	0-360°

## Communication

PARAMETER	BizGyro & BizGyro - GNSS
Serial Interface	Standard RS232 and RS422
Serial Speed	4800 to 0.5M baud
Ethernet	DHCP, UDP
Ethernet Speed	Supports one 10/100 Base-T Port.
Serial Output Protocol	Up to 15 parameters, user customized (NMEA)
Peripheral Interface	1xAuxiliary RS232 (for GPS)

## Power

PARAMETER	BizGyro	BizGyro - GNSS
Operating Voltage	6.5 to 36 V (12 V recommended)	
Power consumption	<1W	
Operating Temperature	-25 °C to 70 °C	
Boot time	< 15 sec	
Shock Limit	100 g	
Environmental protection	IP68	IP66

## Physical Characteristics

PARAMETER	BizGyro	BizGyro - GNSS
Weight	500 gr	250 gr
Enclosure	Anodized Aluminium	
Connectorse	Fisher Connector/Yamaichi Electronics	




BizGyro internal filter runs at minimum speed of 1000Hz and data can also be output at this rate over high speed Serial Port or over Ethernet. Its low manufacturing price and great immunity to noise and vibrations makes it the best choice for unstable platforms control.



**Bizclap S.r.l.**

Design the technology of tomorrow

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