



# iQ-3

New TASK™ Synoptic Radiosonde

The new iQ-3 is a revolutionary synoptic radiosonde that measures real-time PTH and Winds Aloft information in support of synoptic military requirements and missions such as artillery fire support, tactical weather modeling and high-altitude insertion/air drop. iQ-3 military and research customers now have one station (TASK) capable of accepting both tactical and synoptic soundings – all while maintaining JPADS compatibility.

### Tactical and Synoptic Soundings.

iQ-3 offers one, highly mobile, easily portable, USB receive station for both tactical and synoptic soundings.

iQ-3 was designed to Tactical Atmospheric Sounding Kit (TASK) system receiver specifications, the entire system can be carried in a small, Military Standard (MIL-STD) case weighing less than seven kilograms.

Like its smaller predecessor, the iQ-3 uses significantly less helium or hydrogen compared to other systems. Launched with a balloon as small as 100 grams and filled with less than 20 cubic feet of helium/hydrogen, users carry only a fraction of the gas required.

### Key Features and Benefits

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Accepts tactical and synoptic soundings

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Highly mobile

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Multi-mission

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USB ground receive station

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JPADS compatible

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Easily transported in a small, lightweight MIL-STD case

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Uses less helium/hydrogen compared to similar systems

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One station accepts both tactical and synoptic soundings

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Situational awareness for mission planning

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## Specifications

### Physical Dimensions

**Weight** 115 grams/.25 lbs  
**Dimensions** 9 1/4"/23.5mm (excluding flexible antenna), 2 3/4"/7mm, 1 1/4"/ 3.25mm (L x W x H)

Sensor	Operating Range	Resolution	Accuracy	Time Response
Pressure	1070 to 4 hPa	0.01 hPa	1.5 hPa	< 1 second
Temperature	-90.0 °C – 50.0 °C -130 °F to 122 °F	0.01 °C/32 °F	±0.3 °C	< 1 second
Humidity	0 to 100% RH	0.01% RH	±5.0 %RH	Upon request
GPS Altitude	-50 m to 42 km -164 ft to .26 miles	0.1 m/0.3 ft	15 m/49 ft	N/R
GPS Position	Any Lat / Long	.01 arc-sec	5 m/16 ft	N/R
GPS Velocity	0-250 m/825 ft sec	0.1 m/0.3 ft sec	1.0 m/3.2 ft sec smoothed	N/R



## Collaborating with QinetiQ

At QinetiQ we bring organizations and people together to provide innovative solutions to real world problems, creating customer advantage. Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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