



# Configurations, specifications & options

iSpace Performance Specifications*	1 Sigma	Max
U <sub>x</sub>	60µm	150µm
U <sub>y</sub>	60µm	150µm
U <sub>z</sub>	90µm	170µm
U <sub>mag</sub>	120µm	250µm

\* System performance analysis for an iSpace 8i series system for a 10m x 10m x 2m measurement volume. Testing completed according to B89 and ISO 10360 and in conjunction with an independent accredited measurement standards lab.

iSpace is a network based metrology system which does not follow traditional uncertainty models. Coordinate uncertainties are interdependent; they do not scale with range and they are repeatable within the volume.

iSpace Base Systems	4 Series	6 Series	8 Series
Metrology Grade Transmitters	4	6	8
Applications	-	o	o
Typical XY Footprint (Measurement Volume)	< 400m <sup>2</sup>	< 900m <sup>2</sup>	< 1200m <sup>2</sup>
Equipment Portability	High	Moderate	Low
Hand Held Vector Bar (5DOF)	✓	✓	o
Hand Held Probe (6DOF)	o	o	✓
iGPS Enabled Metris CMM Arm	-	o	o
Dynamic Part Tracking Kit	-	o	o
NRK Spatial Analyzer	o	o	✓
Delcam PowerINSPECT	✓	✓	o
Available Base Configurations (see below)	x / s	x / s / i	s / i

✓ = included, - = not available, o = Option

iSpace Base Configuration Options	x (deployable)	s (flexible)	i (fixed high accuracy)
Setup	Free Network	Base Stations	Monuments
Accuracy	~ 500µm	250µm - 500µm	<250µm



# iSpace

Introducing iSpace... your factory of the future is here today!



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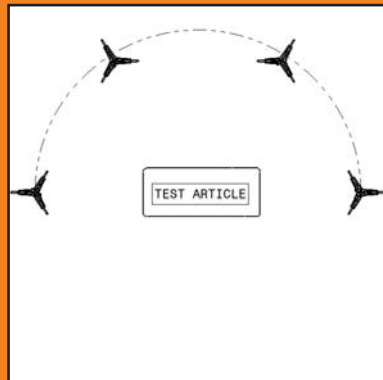
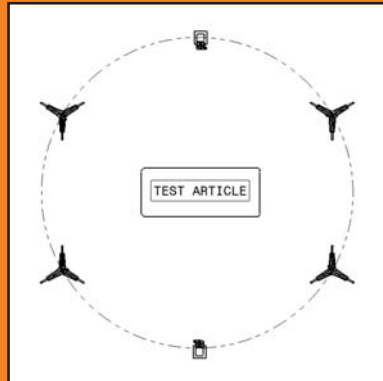
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## Large Volume Metrology and Tracking

# iSpace: large volume metrology and tracking implemented in the shortest possible time

FLEXIBLE CONFIGURATIONS



iSpace is a revolutionary large volume metrology and tracking system that can adapt and grow to suit a wide range of metrology and manufacturing uses.

Customers can choose from a variety of standard system configurations and options to adapt iSpace to aerospace, automotive, ship building and heavy industry applications.

### SCALABLE

iSpace has the unique ability to adapt and grow to suit the application requirements. Options are available to add dynamic tracking, high accuracy capability and third party applications from Delcam, NI, NRK and Verisurf.

### ACCURACY

iSpace can be configured to ensure that its accuracy profile is uniform throughout the entire volume of the cell.

### ROBUST

iSpace is much more robust than traditional laser based metrology tools. iSpace can be configured to ensure that redundancy is built-in.

### MULTI-TRACKING

iSpace can track multiple objects in the cell simultaneously. This capability makes iSpace uniquely suited to tracking and managing parts, tools and automated guided vehicles (AGVs) in a manufacturing environment. Ideal for automation of traceability requirements.

### MULTI-USER

iSpace has the unique ability to serve multiple users with many devices enabled, all at the same time. A variety of metrology devices such as probes, arms and laser radars can be enabled in an iSpace cell simultaneously.

### AT A GLANCE

iSpace leverages Metris iGPS networks to provide large volume metrology and tracking

- Measurement uncertainty is consistent within the entire volume, independent of range
- Eliminate additional error stack and measurement uncertainty by avoiding the traditional "leap frog" approach
- Multiple tools, parts and probes can use the cell simultaneously; parallel architecture allows for virtually continuous data acquisition
- System architecture enables continuous health and self-diagnostic capabilities

### BENEFITS

iSpace delivers significant value, often cost justifying the system purchase based on the first deployment

- Perform accurate part inspections in-line with manufacturing and assembly with near zero start-up time per part and per cycle
- Measure part position and as-built conditions on a large scale for feedback to automated assembly and guidance applications
- Easily and accurately track other Metris iGPS enabled metrology products in a common reference frame to significantly extend their capacity