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Trimble Distributor Confidential

## The Trimble MS990 Smart Antenna is now Available

The Trimble® MS990 Smart Antenna is now available. A rugged and reliable new GPS-based positioning sensor, the MS990 is designed to provide advanced positioning capability with Trimble GCS900 3D Grade Control Systems.

### Product Description

The MS990 is the only commercially available integrated GPS smart antenna that offers the performance enhancements of a new Trimble RTK engine and supports the newest GPS signals.



Each unit contains a GPS receiver, antenna, and isolation system all in a single housing. It is designed specifically for installation on the blade or cab for use with GCS900 3D Grade Control Systems.

The MS990 uses an advanced RTK engine to provide faster system initialization times when satellite lock is lost. It also allows the GCS900 Grade Control System to increase machine productivity and utilization in tough areas of the jobsite, where tree canopies or other obstructions may exist.

The MS990 supports the L2C and planned L5 modernized GPS signals, improving performance of the GCS900 Grade Control System in job site areas where dense tree cover exists. The MS990 can also utilize signals from additional satellite constellations such as GLONASS. When combined with signals from GPS, this reduces system downtime when satellite availability is obstructed, such as when working against high walls or in deep cuts.

### MS990 Features and Benefits

The Trimble MS990 still optimally supports current GPS satellites and now features:

- An advanced RTK engine providing faster initialization times when satellite lock is lost and better receiver performance when working in where obstructions exist.
- Tracking of GPS modernized L2C and the planned L5 signals to increase the performance of the system at longer baselines.
- Support for additional satellite constellations, such as GLONASS that can increase system utilization during periods of reduced GPS satellite visibility.

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- Utilizes a standard, easy to use and remove mounting bracket with quick release adjustment which enables the MS990 to be quickly removed for daily storage for security purposes.

These advances improve the contractor's ability to work in tougher environments, at longer ranges, and with faster initialization times. This results in increased productivity and reduced downtime on the construction job site.

## Availability

The MS990 Smart Antenna is available to ship immediately. Programs are already in place to allow eligible customers to upgrade their MS980 Smart Antennas to the new MS990 Smart Antennas.

Please refer to the September 2006 Sales Bulletin entitled "Upgrade/Exchange Program for the Trimble MS990 Smart Antenna" on the Construction Dealers Website for more information.

**Note:** *Customers who upgrade Trimble 3D Grade Control Systems to use the MS990 with GPS and GLONASS positioning capability must also upgrade their GPS base station infrastructure with the GPS and GLONASS capable Trimble SPS850 modular receiver or SPS880 Smart Antenna.*