



## RX720

### MULTI-FREQUENCY MULTI-CONSTELLATION GNSS SMART ANTENNA

RX720 GNSS receiver delivers the latest in positioning technology for agricultural applications. This state-of-the-art smart antenna receives multiple GNSS signals to deliver better satellite availability under challenging terrain and environmental conditions.

### Accuracy, Stability and Reliability

The RX720 can deliver the positioning accuracy needed for your precision farming applications. This flexible receiver can be configured to deliver basic performance using free correction signals, and can also be upgraded to use TerraStar subscription-based satellite corrections for more demanding applications. TerraStar services provide 50 cm (TerraStar-L) or 3 cm (TerraStar-C PRO) level accuracy (95%) using globally transmitted satellite signals and the new TerraStar-X<sup>1</sup> providing 2.5 cm (95%) accuracy from a regional satellite signal with less than 1 min. convergence time. ClearPath technology is integrated into the receiver and provides smooth positions and excellent pass-to-pass accuracies that are ideal for agricultural guidance and steering applications.

### Multi-Signal, Multi-Frequency, Totally Flexible

A high-quality internal antenna element combined with the ability to track 555 channels make the RX720 extremely flexible. This receiver can receive GPS, GLONASS, BeiDou, Galileo and QZSS<sup>2</sup>, along with TerraStar correction signals. This results in high numbers of satellite signals and a wide range of configurations that can deliver the accuracy your application needs – from subscription free SBAS (WAAS, EGNOS, MSAS, GAGAN) corrections through TerraStar-L, TerraStar-C PRO, and TerraStar-X.

## Features and Benefits

- Supports GPS, GLONASS, BeiDou, Galileo and QZSS <sup>2</sup>
- Multiple accuracy options down to 2.5 cm (95%) with satellite delivered TerraStar-X. Purchase the accuracy you need today, knowing you have the option to purchase upgrades in the future if your needs change.
- A durable, waterproof housing that meets MIL-STD-810G environmental standards for years of reliable use in the field
- Magnetic and screw mounting options
- For use with TeeJet and third-party guidance and steering systems
- Capable of operating on supplies of +7 to +30 VDC with low 4 W power consumption \*

\* Power consumption value for GPS L1/L2

## Correction Options

- Capable of operating with free SBAS corrections where available
- Supports TerraStar-L correction service for 15 cm (95%) pass-to-pass performance
- Supports TerraStar-C PRO corrections for repeatable 3 cm (95%) accuracy, which means <2 cm pass-to-pass accuracy
- Supports TerraStar-X corrections for repeatable 2.5 cm (95%) accuracy, which means < 2.0 cm pass-to-pass accuracy and < 1 min, convergence time
- TerraStar subscriptions offered in 3 month, 1, 2 or 3 year subscriptions

## RX720 Upgrades and Subscriptions

Part No.	Description
99-01078	Upgrade, RX720 base unit to TerraStar-C PRO ready (subscription required)
99-01079	Upgrade, RX720 TerraStar-C PRO ready (subscription required) to TerraStar-X ready (subscription required)
99-01080	Upgrade, RX720 base unit to TerraStar-C PRO /TerraStar-X ready (subscription required)
99-01075	Subscription, TerraStar-L, 1 Year
99-01076	Subscription, TerraStar-L, 2 Years
99-01077	Subscription, TerraStar-L, 3 Years
99-01087	Subscription, TerraStar-C PRO, 3 Months
99-01088	Subscription, TerraStar-C PRO, 1 Year
99-01089	Subscription, TerraStar-C PRO, 2 Years
99-01090	Subscription, TerraStar-C PRO, 3 Years
99-01093	TerraStar-X, 3 Months
99-01094	TerraStar-X, 1 Year

## System Accuracy

Signal Type	Pass-to-Pass Accuracy* (95%)	Year-to-Year Repeatability (RMS)	Year-to-Year Repeatability (95%)
L1/L2 Autonomous	+/-14 in/35 cm	+/-47 in/1.2 m	-
L1/L2 SBAS	+/- ~ 8 in / 20 cm	+/-24 in/60 cm	-
TerraStar-L	+/-6 in/15 cm	+/-16 in/40 cm	+/-20 in/50 cm
TerraStar-C PRO	<0.8 in/<2 cm	1 in/2.5 cm	+/-1.2 in/3 cm
TerraStar-X	<0.8 in/<2 cm	0.8 in/2.0 cm	1.0 in/2.5 cm

\* Based on 15-minute time period. Actual field performance can vary from above stated information based on geographic location and constellation configuration at time of operation.

## RX720 Kits and Components

Part No.	Description
90-02942	Kit, GNSS Receiver, RX720, Dual Frequency, TerraStar-L ready, ClearPath, no-SBAS
90-02943	Kit, GNSS Receiver, RX720, Dual Frequency, TerraStar-L ready, ClearPath, SBAS
90-02944	Kit, GNSS Receiver, RX720, Dual Frequency, TerraStar-L & TerraStar-C PRO ready, ClearPath, SBAS
90-02945	Kit, GNSS Receiver, RX720, Dual Frequency, TerraStar-L/TerraStar-C PRO ready, ClearPath, no-SBAS
90-02946	Kit, GNSS Receiver, RX720, Dual Frequency, TerraStar-L/TerraStar-C PRO/TerraStar-X ready, ClearPath, SBAS
65-05243	Mounting bracket for RX520 and RX720
45-05957	Cable, RX520 and RX720 to Power & Serial Com 1

<sup>1</sup> TerraStar-X is being introduced on a region by region basis. Check with TeeJet Technologies for local availability. As of 10/19 TerraStar-X is limited to select areas in the central US.

<sup>2</sup> Exact frequencies used in solution dependent on options purchased and subscriptions activated

