

System 350 Autosteering

AGI-3 Receiver and Steering Controller

A complete steering solution with fully integrated inertial sensors, the AGI-3 features full terrain compensation plus superior line acquisition and holding capabilities. AGI-3 steering control options include AES-25 electric steering, hydraulic, or direct-interface with steer-ready vehicles.

To achieve the highest accuracies, simply snap in the upgrade module for RTK performance with 900 mHz, Digital UHF, or GSM options. Compatible with Topcon base stations, GSM and CORS networks.

The AGI-3 receiver features Topcon's Paradigm G3 multi-constellation receiver chip and receives signals from all available satellites. More satellites means improved accuracy, better reception around hills and trees, and 24/7 round-the-clock operation.

Optional AES-25 Accurate Electric Steering

The convenience of electric steering with the performance of hydraulics. AES-25 provides quick, precise response with up to 2 cm accuracy. Installation is clean and neat with no external components to interfere with normal operation in the cab. The direct-drive, high-torque motor provides silent operation and outperforms all other electric steering solutions. Combine AES-25 with your System 350 for a highly accurate control package. Supports all major farming vehicles/equipment and is excellent for swather control.

ISO Virtual Terminal (VT) Capable

The X30 virtual terminal supports plug-and-play operation for direct control of equipment using industry standard ISO11783, including major planters and seeders, sprayers and nozzles. ISO file server and XML task data exchange capabilities. The VT operates in parallel with X30 autosection control.

Topcon X30 Interface operates in 28 languages

English	Dutch	Hungarian	Polish	Slovenian
Bulgarian	Estonian	Italian	Portuguese	Spanish
Chinese	Finnish	Japanese	Romanian	Swedish
Croatian	French	Latvian	Russian	Turkish
Czech	German	Lithuanian	Serbian	
Danish	Greek	Norwegian	Slovakian	



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X30 Console Specifications

Physical	dimensions	328 x 268 x 55 mm 12.9" x 10.6" x 2.2"
	weight	1.75 kg , 3.86 lbs
	mounting	RAM mounting system
Environmental	operating temp.	-30° to +60°C, -22° to +140°F
	storage temp.	-40° to +75°C, -40° to +167°F
	rainproof	IP67 (EN60529:1992)
Power	input	9V - 36V (voltage & polarity protected)
	batteries	N-MH internal batteries (2000mA/hr., 7.2V)
Display	size	12.1" (31cm) 1024 x 768 LVDS RGB
	type	Projected capacitive touchscreen
	backlight	1000 cd/m2 LED backlight
Operating System	chipset	Intel chipset, 1.6GHz processor
	RAM	1GB DDR2 533MHz RAM
	flash	4GB compact flash (up to 32GB optional)
	SOM	COM-Express System-on-Module (SOM)
Input/Output Ports	USB	4 USB 2.0, all bootable, 500mA
		1 side & 1 rear, 2 harnesses
	RS-232	4 RS-232 serial 1 ea. RX/TX/CTS/RTS/GND
		3ea. RX/TX/GND only
	Ethernet	1 RJ45 Ethernet 100 Base-T, 100 Mbps, rear
	CANBUS	4 CANBUS (ISO11783 compliant)
	digital I/O	4 channel digital I/O
	analog	1 channel analog in
	Bluetooth	Bluetooth® module
External	power switch	(soft switch)
	LED's	front - 2 linked RGB diagnostic LED's
	light sensor	front - ambient light sensor
Audio	internal	internal and external 2W mono
	headphone jack	external stereo headphone jack

System 350

Complete Precision Ag Control System



Featuring Topcon's new state-of-the-art X30 console with intuitive multi-view interface. Powerful all-in-one control for your farming operations in up to 28 user languages.

- Icon-based, user definable, multi-touch screen
- Variable Rate Control (VRC) simultaneous control for up to 8 products
- Autosection Control
- High-accuracy autosteering
- On-screen coverage and as-applied mapping
- ISO Virtual Terminal (VT) capable



Optional AES-25 Electric Steering
AGI-3 Receiver

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All New X30 Console

Simple setup. Operator friendly.
Easy to upgrade as your farming needs grow.

System 350 brings state-of-the-art power to your agricultural operations. Featuring simple and flexible software, the X30 console provides a versatile work platform with features to improve farm management, increase efficiency, and enhance machine capabilities.



Topcon's System 350 smoothly merges high-accuracy autosteering/positioning with variable rate/autosection control, detailed mapping/data logging, and versatile information management with an easy-to-use interface and highly-capable equipment controls.

System 350 Autosteering

Autosteering eases operator fatigue, reduces machine wear-and-tear, and reduces overlap and input costs. Allows 24/7 operation regardless of environmental conditions.



- Single piece design integrates steering controller with guidance and positioning for reduced cab clutter.
- AGI-3 multi-constellation, integrated receiver/steering controller provides high-accuracy autosteering with direct interface for steer ready tractors. Easy to upgrade to RTK or CORS with snap-in module.
- Add optional AES-25 to your System 350 for the convenience of electric steering with quick, precise response and up to 2 cm accuracy. AES-25 provides a great autosteering solution for non steer-ready tractors.



The X30 guidance screen combines views of autosteering settings, dashboard, and multiple product control. Industry standard steering patterns; straight (A-B), identical curve, adaptive curve, and center pivot allow you to work with virtually any field shape. Integrated lightbar provides easy offline reference at a glance.



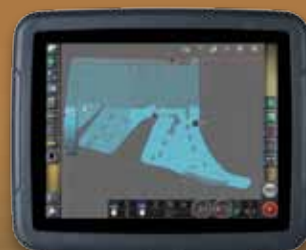
Application and Rate Controls

X30 controllers include spraying, spreading, or planting and feature innovative efficiency tools such as virtual switchbox, channel-based pressure control, and auto coverage to help ensure no gaps or overlap.

- Variable rate control for up to 8 products/channels
- Autosection control with ISO interface for sprayers and planters.
- The ASC-10 provides 10-channel sprayer, planter, or spreader autosection control with liquid rate control for up to 8 products.

Enhanced Data Management

The X30 provides multiple input/output features for maximum data use. Client / Farm / Field / Job menu lets you save multiple fields and tasks for different farms, then create detailed reports for data tracking and multi-year analysis. Data features include:



- Job reports exportable as convenient pdf files
- Coverage logging, and exportable as-applied maps with flag points
- Imports shapefiles & ISOXML prescription maps
- Calculates covered and remaining areas
- AutoLocate (automatic field recognition) for easy field identification and job loading
- Virtual ISO terminal (VT) interfaces with common controllers and implement ECU's.

Intuitive Topcon Interface

Visual interaction with your System 350. Specifically designed for farming operations and the technical needs of today's farmers.



The X30 features a large 12.1" multi-touch screen with sharp, high-resolution graphics easily readable in bright sunlight. The thin-profile console runs on a powerful 1.6 GHz processor with ample memory (up to 32 GB). With an IP67 rating, the rugged X30 is built to withstand the harshest farming conditions including rain and dust.

User Definable Interface

Provides a wealth of control and display options for simplicity and flexibility with feedback at a glance from multiple sensors throughout your machine. For easy navigation, the user never leaves the "home page" - it's always in view.



Multi-touch capability allows drag-and-drop information windows or panning across screen views.

Choose up to three **mini-view windows** with drag-and-drop positioning. Use mini-views to track multiple application or field information while in autosteer - or touch the screen to swap and view detailed control data while watching autosteer or field coverage in the mini-view.

Interaction keypads quickly show control functions over the home page for quick simple adjustment with "expandable menus" for access to additional options.

Multiple user determined "**dashboard**" readouts provide constant, convenient basic data.



Integrated **LED lightbar** for manual guidance.

A simple tap on the screen instantly takes you into **full-screen, detailed displays** of guidance, spraying, spreading or other operations, and system information with advanced diagnostics. Lets you monitor rate control, steering, job progress, and field information.

X30 user customizable options

Includes alarms/alerts, US, metric, or Imperial units, map options, time and date, radar output, GPS output, and look-ahead settings. The X30 provides 28 language operation.

Advanced X30 setup wizard

Provides simple icon based setup control. Intuitive step-by-step navigation guides you through setting up controllers, vehicles, and implements. Use pre-configured profiles or build and store specialized profiles with sizes and dynamic options for your equipment.

