

System 110

GNSS Lightbar Guidance



GX-45 Console

SGR-1 Receiver



Complete visual guidance system, designed to increase productivity and reduce costs

- Fast, multi-constellation signal acquisition
- Optional Autosection and Liquid Rate Control
- On-screen coverage mapping
- Simulated radar output for improved slow speed operations
- 3 basic modes provide guidance for virtually any field shape
- 5" color screen with separate day/night modes

System 110 GNSS Lightbar Guidance System

Added Productivity

Topcon's lightbar guidance system improves efficiency and operating speeds while reducing overlap and extending hours of operation. The virtual road and lightbar indicator provide improved guidance for application while the on-screen visuals provide operational data.

Easy Installation and Operation

Lightweight, rugged and portable, System 110 is easy to install and use "right out of the box" with simple on-screen setup and minimal instruction. The high-visibility, detachable lightbar with a remote mounting option allows positioning for ideal visual reference.

The console features multi-function quick-action keys at each side of the screen for simple operation and adjustable display and lightbar brightness for higher visibility and added working hours. The convenient USB port allows easy export of reports and shape files.

Automatic Coverage Maps

System 110 provides useful on-screen indicators for area applied, speed, and row number, all while building a color coverage map. Coverage mapping makes it easy to identify missed areas or overlaps. Boundary mapping lets you create field outlines that you can use over and over for any application jobs performed on that field. Knowing the field's size and shape helps you plan application quantities and coverage routes.

Optional AutoSection and Liquid Rate Control

Autosection control (ASC) automatically switches up to ten sections on/off as you cross previously applied areas. ASC eliminates gaps/overlaps and reduces inputs while protecting your crops. Liquid rate control keeps your rate constant even with varied vehicle speeds.

Guidance Patterns

System 110 allows you to quickly create and follow the most efficient or practical guidance patterns and provides three basic "modes" that can be used in a variety of combinations, allowing you to work with virtually any field shape.

SGR-1 Receiver

Topcon's new SGR-1 GNSS receiver incorporates TruPass™ advanced positioning technology for higher, more stable pass-to-pass accuracy. The SGR-1 provides faster satellite acquisition and simultaneous processing of both GLONASS and GPS signals with 32 channel universal tracking.

The rugged compact unit provides serial and CANbus communication and outputs ground speed as simulated radar for improved slow speed operations such as seeding and spraying.

Specifications

GX-45

Dimensions	8.26" x 5.9", 210 x 150 mm
Weight	1.8 lbs, 816g
Voltage	+9 to +32 VDC
Supply Current	500mA (console only)
Switched Output Power	5A peripheral output
Operating Temperature	-20° to +60°C (-4° to +140°F)
Comm Ports	2 USB, 2 CANBUS, RS232/485
Connectors	3 ea. 12 pin DTM06-12S Deutsch, 1 USB Type A
Display	320 x 234 Color QVGA

SGR-1

Dimensions	5.12" x 2.36", 130 x 60 mm
Weight	1.41 lbs, 640g
Mounting	5/8-11 UNC female, or magnetic base for ferrous roof
Connector	12 pin extended Deutsch DTM
Operating Temperature	-40° C to +85° C
Voltage	+9 to +28 VDC
Antenna	L1 GPS/GLONASS with L-band compatibility
Radar Output	variable frequency, simulated ground speed output
Data Input/Output	RS-232, 2 ports up to 460.8 kbps w/o flow control CAN, 1 port, NMEA2000 compliant
SV Tracking Channels	32 GPS L1 C/A, GLONASS L1 C/A code & carrier, SBAS
Data Rates	raw measurements and position, up to 20 Hz

Key Features

On-screen indicators: Row Number, Speed, Area Applied
Interchangeable field views: Overhead, 3-D view, and "North Up"
Adjustable LED intensity to match conditions
USB, CAN & RS-232 capable
Multiple language operation



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