

THIS IS THE ONLY DISPLAY YOU NEED!



FARMNAVIGATOR
G12 Panorama

The first 12" panoramic multifunction system in Agriculture
Panoramic view on Parallel Guidance, ISOBUS implements and cameras.

FARMNAVIGATOR G12 Panorama

A revolution in agricultural terminals that changes the way you see things and work.

Two displays in one: double safety and ease of use, without compatibility problems.

With the G12 PANORAMA you **avoid crowding the cab** while keeping a clear view on the field and the surrounding environment.



YOU CHOOSE

Horizontal or Vertical?

Choose the horizontal or the vertical mode, then customize the display with a simple touch.



WIDE

Monitor the panoramic view

The panoramic view gives you a complete overview of the field and all related data.

DOUBLE



Keep everything under control, without distractions

The field, the Virtual Terminal for ISOBUS instruments complete with Task Controller and the video cameras positioned on the tools, all in one multifunction system.

A PANORAMA OF FEATURES

Multifunction

- Parallel Guidance
- Automatic Section Control
- Automatic Steering
- ISOBUS Virtual Terminal
- ISOBUS Task Controller
- Remote Assistance

Panoramic display

- 12" anti-condensation LCD
- Capacitive multi-touch screen
- 1920 x 720 px resolution
- 1000 nits ultra bright display
- IPX6 water proof

Great connectivity

- 3 Serial ports
- 2 Video inputs
- In-Cab connector
- Connector for USB-VideoIN-Ethernet cable
- Wireless connectivity (WiFi)



Customer Support:
service@clevelandalliances.com
0044(0)1361 883418



Sales:
info@clevelandalliances.com
0044(0)1361 883418

AVMAP
SATELLITE NAVIGATION

G7 FARMNAVIGATOR

Your guide to Precision Agriculture

- Parallel Guidance
- Automatic Section Control
- Auto-Steering
- WIFI connectivity
- ISOBUS



Versatile and connected

The G7 series can be installed on any tractor, self-propelled and harvesting machine. With three serial ports and CANbus* port, the G7 FARMNAVIGATOR interfaces with various monitors and ISOBUS instruments. And thanks to WIFI**, it can synchronize data with the MyFarmnavigator portal.



High-quality display

The G7 series features a rugged, reliable, dust and water resistant display, with anti-condensation glass bonding. Easy-to-clean in one swipe.



Visible in any condition

The 7" HD LCD with 16 million colors is ultra bright and is visible even in direct sunlight. It can be used on open stations too!



Easy to install and use

It includes all the accessories you need to start working with ease, even if it is your first satellite guide!

*G7 Iso

**G7 Plus, G7 Iso



Precision Agriculture for farms of all sizes

The G7 FARMNAVIGATOR series is a family of products that will drive you through the growth of your farm.

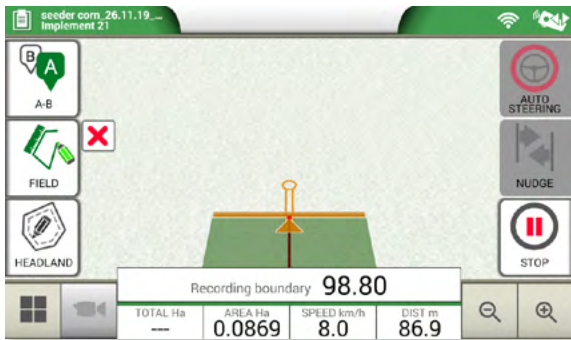
You can start with G7 Ezy, G7 Plus up to G7 Iso, and add licences and accessories to get a FARMNAVIGATOR system that is tailored-made for you.

Super intuitive, get to work in just a few steps

The FARMNAVIGATOR software, perfected in over 15 years of activity, has grown with the demands of precision farming market. It offers advanced functions on a simple interface, with large and intuitive buttons.

The software updates automatically via wireless communication*

*G7 Plus, G7 Iso



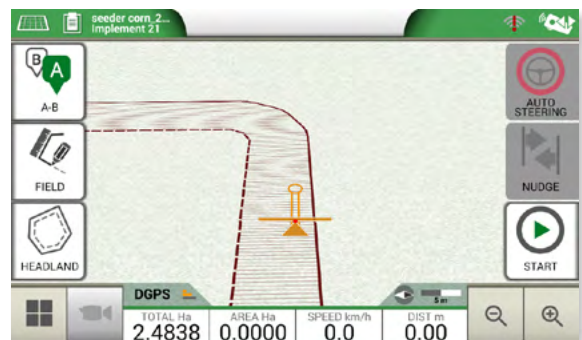
Fields mapping



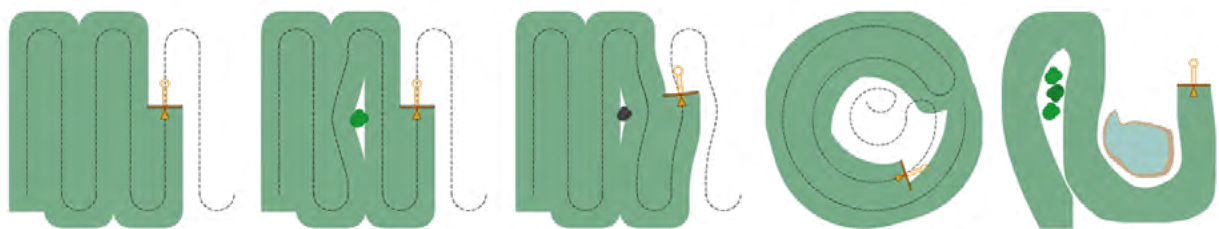
Fields and jobs database



Parallel guidance



Headland management



Parallel guidelines Contour guidelines Adaptive contour

Pivot

Free form

✔ Section Control

Avoid overlapping treatments in order not to damage the crops. Close and open the marked boom sections manually or connect the G7 FARMNAVIGATOR to a compatible automatic controller to reduce costs and environmental impact.

Compatible with controllers by:

Agral, Agromehhanika, Arag, Bertolini, BKL, Bogballe, Caffini, Farmscan, Hardi, MC Elettronica, Rauch, Tecnomec.

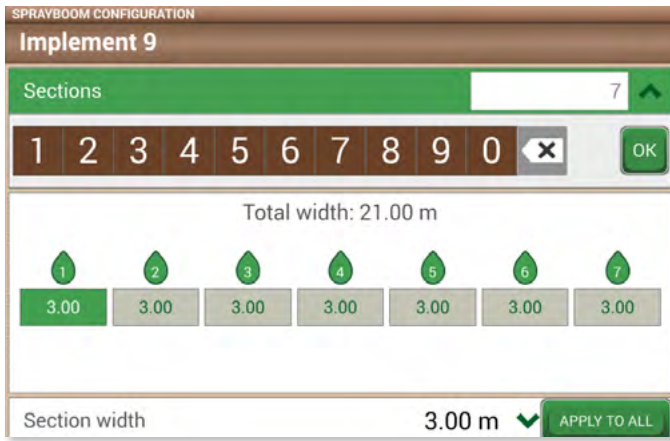
Find the complete list at:

farm.avmap.it/en/IntelligentAgriculture/G7Plus_Farmnavigator



✔ ISOBUS Virtual Terminal (VT) and Task Controller (TC)

Avoid crowding the cab and keep a clear view of the field: all your ISOBUS implements are under control in a single display. You can test all the advantages of the VT and TC features thanks to the 7 days FREE trial included in G7 Iso, or get a product with included Lifetime License (G7 Iso VT, G7 Iso Full).



✔ Auto-Steering

With the FARMNAVIGATOR Auto-Steering Kit, you get maximum precision to get the job done with less effort.

With our All in One RTK receiver, you can get centimeter-level accuracy!



Video camera connection

Control your video camera directly from the 7" display, for rearview or to monitor your implements.

All images are for illustrative purposes. The products can be subject to changes.



Equipment and accessories



G7 FARMNAVIGATOR includes **everything you need to get started:** powered bracket, adapters and accessories.

FARMNAVIGATOR
Drives the growth of your farm

G7 FARMNAVIGATOR grows with you and adapts to your needs. When you are ready, you can add an Auto-Steering kit*, a more performing antenna or an ISOBUS license** to optimize your work.

*G7 Plus, G7 Iso
**G7 Iso

GNSS Receivers

You can choose among a range of receivers for different work needs, compatible with the G7 FARMNAVIGATOR series*, as well as with most agricultural terminals.

*Check the table below to find the suggested receiver for each model.



Turtle Smart
+/- 30 cm



Turtle Pro2
+/-15cm
Terrain compensation



Turtle RTK
+/-2cm
Terrain compensation



All in One RTK
+/-2cm
Terrain compensation
Built-in modem
1 YEAR of connectivity and MyFarmnavigator cloud services included

Comparison table	G7 Ezy	G7 Plus	G7 Iso	G7 Iso VT	G7 Iso Full
7" multi-touchscreen (1024x600px) 1000 nits	✓	✓	✓	✓	✓
Serial ports	3	3	3	3	3
CANbus	✗	✗	✓	✓	✓
Power cable adapters	Cigarette lighter plug	Cigarette lighter plug, spade terminals, Cobo	Cigarette lighter plug, spade terminals, Cobo	Cigarette lighter plug, spade terminals, Cobo	Cigarette lighter plug, spade terminals, Cobo
Connection cables	USB-VideoIN	USB-VideoIN-Ethernet	USB-VideoIN-Ethernet	USB-VideoIN-Ethernet	USB-VideoIN-Ethernet
In-Cab cable	✗	✗	✓	✓	✓
Fields and Jobs database	✓	✓	✓	✓	✓
Assisted parallel guidance	✓	✓	✓	✓	✓
Manual / automatic section control	✓	✓	✓	✓	✓
Automatic steering	✗	✓	✓	✓	✓
Wireless updates	✗	✓	✓	✓	✓
Connection to MyFarmnavigator portal	✗	✓	✓	✓	✓
Virtual Terminal License	✗	✗	FREE TRIAL 7 days	Lifetime License	Lifetime License
Task controller License	✗	✗	FREE TRIAL 7 days	FREE TRIAL 7 days	Lifetime License
Suggested receiver	Turtle Smart	Turtle Pro2	Turtle Pro2 / All in One RTK	Turtle Pro2 / All in One RTK	Turtle Pro2 / All in One RTK

E3G/FHWAED013



Customer support

service@clevelandalliances.com
+ 44(0)1361883418



Sales

info@clevelandalliances.com

Distributed by:

Precision Agriculture Cables ISOBUS TRACTOR & AUXILIARY CABLES



Complete Kit

We provide all the cables to plug and play with the system



RTK centimeter accuracy

Connect to ANY Isobus ECU or Job Computer and the machine can be controlled from the Farm Navigator



Turn Any Tractor or Sprayer into an ISOBUS machine in 15 minutes!
The farm Navigator Range is designed to be simple and easy to use.

Installation is easy!

SOLUTIONS THAT GROW WITH YOUR FARM

CABLES for Precision Agriculture

A complete range of cables compatible with most agriculture terminals.



Precision Agriculture everywhere, even on hilly and sloping terrain



Terrain compensation

The powerful built-in inertial platform* detects roll and pitch of the vehicle to calculate the exact position at the ground level.



RTK centimeter accuracy

Thanks to the RTK corrections received via the Internet**, the positioning reaches an accuracy of +/- 2 cm with baseline up to 100 Km.



Connectivity and Smart Farming

The connected receiver gets RTK corrections via the Internet thanks to the built-in NTRIP Client*** and GSM modem***. It is also possible to localize it on MyFarmnavigator cloud!



Overturning alarm

Increase vehicle safety on your farm***.

* Turtle Pro2, Turtle RTK, All in One RTK

** Turtle RTK, All in One RTK

*** All in One RTK



SOLUTIONS THAT GROW WITH YOUR FARM

GNSS Receivers for Precision Agriculture

A complete range of receivers
compatible with most
agriculture terminals.



Made in AvMap

GPS pioneers

The FARMNAVIGATOR line is produced by AvMap, one of the pioneers of positioning and satellite navigation in every environment: land, sky and sea.

FARMNAVIGATOR

GNSS Receivers for Precision Agriculture



	Turtle Smart	Turtle Pro2	Turtle RTK	All in One RTK
FEATURES				
GPS	✓	✓	✓	✓
Glionass	✓	✓ ¹	✓	✓
Galileo	✓	✓	✓	✓
Beidou	✗	✓ ¹	✓	✓
SBAS	✓	✓	✗	✓
Multi-band	✗	✗	✓	✓
Update rate up to	10Hz	10Hz	10Hz	10Hz
Baud rate	9600	9600	115200	115200
RTK	✗	✗	✓	✓
Pass-to-pass accuracy	+/- 30cm	+/- 15cm	+/- 2cm	+/- 2cm
Terrain compensation	✗	✓	✓	✓
Embedded modem with NTRIP client	✗	✗	✗ ²	✓
1 Year of Internet services included	✗	✗	✗	✓ ³
ACTIVITIES				
Weeding	✓	✓	✓	✓
Manuring	✓	✓	✓	✓
Harrowing	✓	✓	✓	✓
Seeding	✗	✗	✓	✓
Plowing	✗	✗	✓	✓
Strip-till	✗	✗	✓	✓
Planting	✗	✗	✓	✓

1. Glionass and Beidou are not concurrent
2. Only through G7 Plus

3. Refer to farmnavigator.com for list of countries where Internet services are included

Technical Specifications

- Dimensions: 98 mm x H 50 mm
- Weight: 240g without power cable
- Power cable: 4 m Conxall - DB9
- Built-in magnets
- Steel bracket*: 133 x 101 mm
- Power supply: 10-35 Vdc
- Waterproof: IP67
- Operating temperature: -20°C / +60°C
- Storage temperature: -30°C / +80°C
- RS232 baud rate: configurable
- RS232 protocol: NMEA0183 configurable (GGA, GLL, RMC, GSA, GSV, VTG, ZDA, GST)
- Consumption: 0.8 W or 1.5 W**

* Turtle Pro2, Turtle RTK, All in One RTK
** All in One RTK



Customer Support

service@clevelandalliances.com
+ 44(0)1361883418



Sales

info@clevelandalliances.com

Distributed by:



My Farmnavigator

Your farm is finally connected!

Manage your farm more efficiently: access a large amount data about vehicles, trips and consumption, in real time, from your office PC.



Monitor your farm fleet

Localize vehicles, monitor their performance and synchronize fields in real time on **MyFarmnavigator.com**



1 YEAR of telematic services included

FARMNAVIGATOR connected products include 1 year/1000h of telematic services on the MyFarmnavigator portal, with renewals of 1, 3 or 5 years.



Advanced telematics for agriculture

The result of AvMap's decades of experience in telematics solutions for the aeronautical, automotive and insurance markets.



Vehicles and fields connected with the office

Get the complete **FARMNAVIGATOR system** to exchange data bi-directionally. You can also try the field-office connection with the **All in One RTK** connected antenna.



FARMNAVIGATOR G7 Plus / G7 Iso / G12 PANORAMA

WiFi Terminal

- Parallel Guidance
- Automatic Steering
- Section Control
- Fields and Jobs database
- ISOBUS Virtual Terminal
- ISOBUS Task Controller
- Remote Assistance

It communicates bidirectionally with **MyFarmnavigator.com** to synchronize fields and databases.

FARMNAVIGATOR 4G AgriSIM

4G Telematics Box

The included **multi-operator SIM** provides 4G connectivity for all FARMNAVIGATOR products.

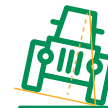
4G Agri SIM saves data in the internal memory (even in the absence of connection) and sends them to the MyFarmnavigator portal.

My Farmnavigator

Smart Farming Portal



Vehicle telemetry: position and speed data, trip log



Tilt sensor data



CANBUS data on engine performance and consumption



Fields synchronization between the G7 / G12 PANORAMA and MyFarmnavigator.com



FARMNAVIGATOR All in One RTK

Connected RTK Receiver

It receives **RTK corrections over the internet** thanks to built-in modem, multi-operator SIM and NTRIP client.

It communicates with **MyFarmnavigator.com** to provide telemetry and tilt sensor data.

My Farmnavigator

Smart Farming Portal



Vehicle telemetry: position and speed data, trip log



Tilt sensor data

Telematic Services

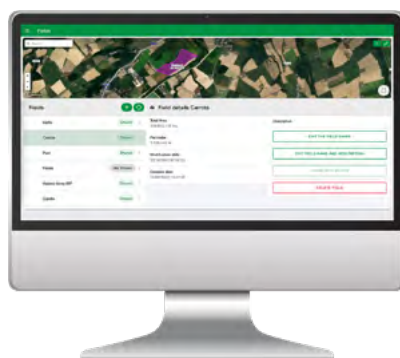
Monitor your fleet from the office or any mobile device.

The data remains available as long as the account is active on MyFarmnavigator.com

My Farmnavigator

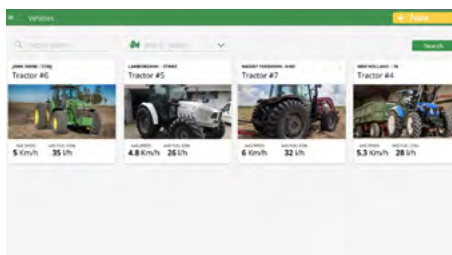
Register your products on MyFarmnavigator.com

1 Year of telematic services is included, and on the expiration date, you can renew for 1, 3 or 5 years.



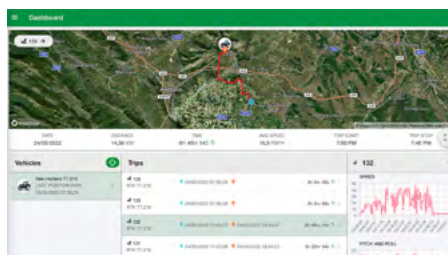
Fields synchronization

Synchronize the fields from the G7 / G12 PANORAMA or draw the fields on the map in the portal and send them to the desired terminals.



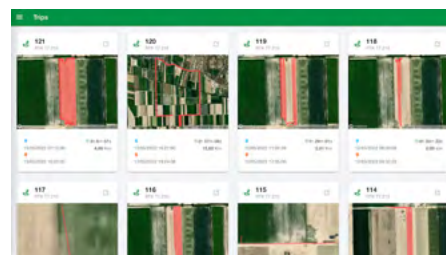
Connected Vehicles Database

Add all your connected vehicles (with model, type, picture) and their on board devices.



Localization

Localize in real time your vehicles on the map.



Trips Database

All the trips of the vehicle's works in the fields available at a glance.



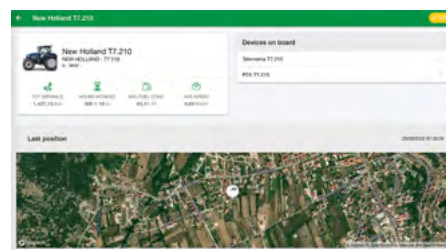
Telemetry

Graphs and color coded tracks on map to analyze the telemetry (speed, time, distance etc) of the vehicles working in the fields.



Tilt sensor data

Analyze tilt sensor data and receive overturning alarms for the safety of the drivers in the farm.



Vehicle performance (CANbus data)

Monitor performance and diagnose problems by analyzing CANbus data (fuel level, consumption, rpm and engine temperature).



Smart Farming

FARMNAVIGATOR connected products and services may have access to Smart Farming tax incentives in some countries.

Ask your preferred FARMNAVIGATOR dealer for more information.



All in One *RTK* Connected RTK Receiver

Technical Specifications

- Dimensions: \varnothing 98 mm x H 50 mm
- Weight: 240g without power cable
- Power cable: 4 m Conxall - DB9
- Steel bracket: 133 x 101 mm
- Triaxial accelerometer + gyro
- Waterproof: IP67
- Supply voltage: 10-35 Vdc
- Operating temperature: -20°C / +60°C
- Storage temperature: -30°C / +80°C
- Power consumption: 125 mA max @12Vdc (~ 1.5 W)

Communication

- 2G Modem
- Built-in SIM on Chip
- GNSS Receiver: GPS + GLONASS + GALILEO + BEIDOU + SBAS
- GNSS frequency band: L1, L2
- GNSS rate: configurable (up to 10Hz)
- RS232 baud rate: configurable (115200 default)
- RS232 protocol: NMEA0183 configurable (GGA, GLL, RMC, GSA, GSV, VTG, ZDA, GST)

Performance and Connectivity

- RTK accuracy +/- 2 cm
- Baseline RTK 100 Km
- Integrated NTRIP client
- Automatic connection to IoT server
- Automatic software updates

Main Functions

- GNSS receiver with RTK corrections
- It saves and sends to MyFarmnavigator portal:
 - Vehicle movements
 - Tilt sensor data



4G *AgriSIM*

4G Telematics Box

Technical Specifications

- Dimensions: 105 mm x 102.3 mm
- Weight: 166 g
- Built-in GPS
- Power cable: 2.5 m w/ free wires
- CANbus (J1939)
- Triaxial accelerometer + gyro: ACC 500 Hz, min 0.125 g - max 16 g
- 4G Modem
- Built-in SIM on Chip*
- Wi-Fi
- Waterproof: IP55
- Supply voltage: 9-24 Vdc

- Operating temperature: -20°C / +65°C
- Storage temperature: -40°C / +85°C
- Power consumption: 0.33A @12 Vdc (4W) typical - 0.7A @12 Vdc (8.5 W) max

Performance and Connectivity

- Transmission frequency range: 791-2690 MHz
- Integrated NTRIP client
- Automatic connection to IoT server
- Automatic software updates

Main Functions

- Connectivity for G7 FARMNAVIGATOR
- It saves and sends to MyFarmnavigator portal:
 - Vehicle movements
 - Tilt sensor data
 - CANBus data: fuel level, consumption liters / hours, rpm and engine temperature **

* Also available in 4G Agri version with SIM slot (SIM not included)

** If available from the vehicle's CANbus.



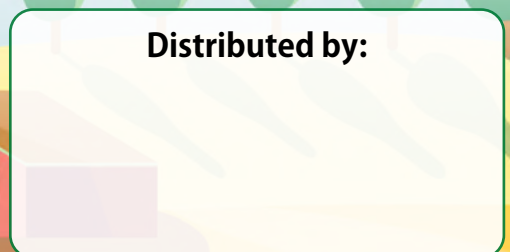
Customer support

service@clevelandalliances.com
+44(0)1361883418



Sales

info@clevelandalliances.com



Distributed by: