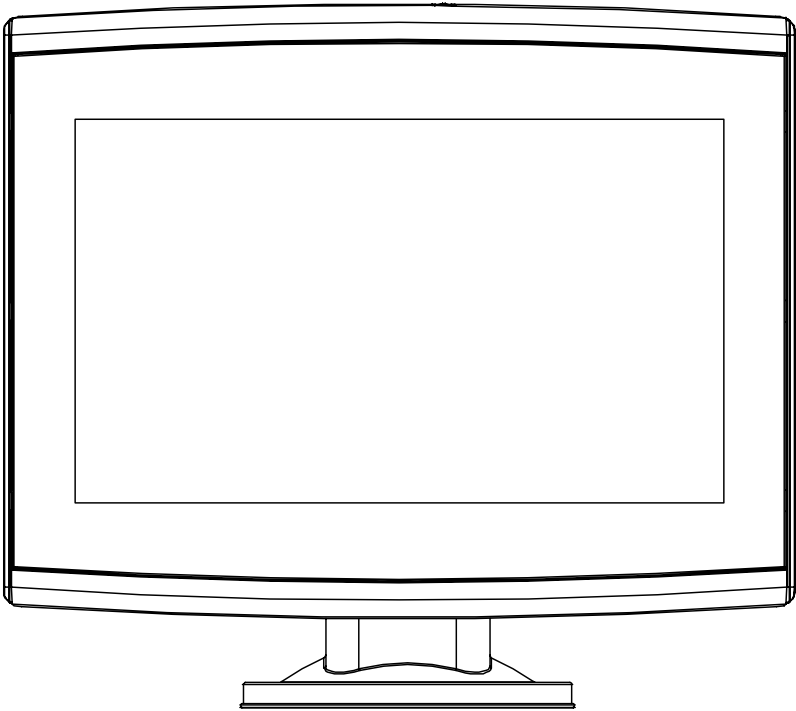# FARMNAVIGATOR

# G7

# INSTALLATION MANUAL

# 1. Product description

The FARMNAVIGATOR G7 series includes three models: G7 Ezy, G7 Plus and G7 Iso, featuring a 7 "display, parallel guidance software, manual and automatic boom sections control, WiFi connectivity*, Auto-Steering kit compatibility*, and ISOBUS compatibility**.

## 1.1 Content of the package

- Dust protective cover
- Powered bracket with:
  - 3 x serial ports (2 x DB9 powered 12 V DC, 1 x DB9)
  - 1 x power supply connector
  - 1 x 14 pin connector (USB-VideoIN-Ethernet cable compatible)
  - 1 x 4 pin connector** (In-cab connection cable compatible)
- Power cable extension with cigarette lighter plug
- Power cable extension with spade terminals*
- Power cable extension with cobo plug*
- USB + VideoIN cable / USB + VideoIN + Ethernet cable*
- In-cab connection cable**
- Heavy duty suction cup

*G7 Plus, G7 Iso
**G7 Iso

# 2. Technical specifications

- Dimensions: 188 x 146 x 33 mm (7.40" x 5.74" x 1.29")
- Weight: 640 g
- Display: 7"
- Display resolution: 1024 x 600 px
- Display brightness: 1000 nits
- Touch-screen: capacitive multi-touch
- Built-in GPS*: WAAS/EGNOS/MSAS/GAGAN
- Wireless LAN connection capability*
- CAN port**
- Water and dustproof: IP56
- Supply voltage: 10-35 Vdc
- Operating temperature: -10°C / +60°C (+14°F / +140°F)
- Storage temperature: -30°C / +80°C (-22°F / +176°F)
- Transmitting frequency range: 2400 - 2483 MHz
- Maximum transmitting power: 1 mW (or 100 mW*)
- Maximum power consumption: 1.5 A @ 12 V
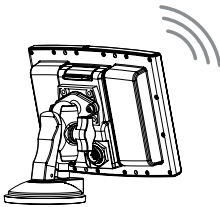
*G7 Plus, G7 Iso
**G7 Iso

# 3. Connections scheme
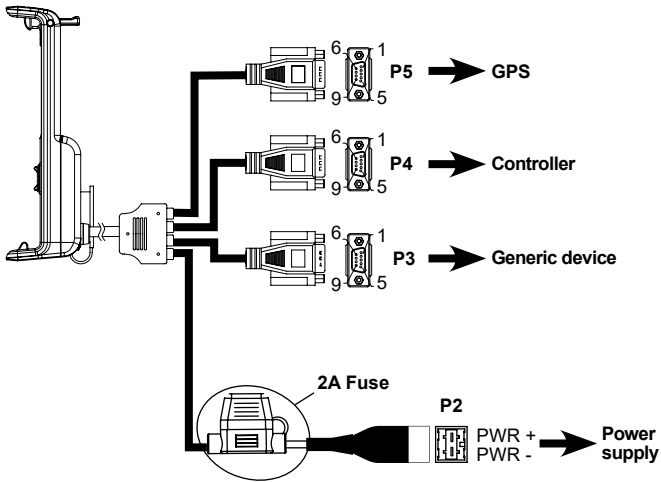


| P5 PIN-OUT | |
|---|---|
| PIN n° | Function |
| 2 | GPS TX |
| 3 | GPS RX |
| 4 | GPS VCC |
| 5 | GPS GND |

| P4 PIN-OUT | |
|---|---|
| PIN n° | Function |
| 2 | DEVICE 2 TX |
| 3 | DEVICE 2 RX |
| 5 | DEVICE 2 GND |

| P3 PIN-OUT | |
|---|---|
| PIN n° | Function |
| 2 | DEVICE 1 TX |
| 3 | DEVICE 1 RX |
| 4 | DEVICE 1 VCC |
| 5 | DEVICE 1 GND |
| 9 | EXTERNAL ALARM |

**Wireless LAN connection capability***

*G7 Plus, G7 Iso

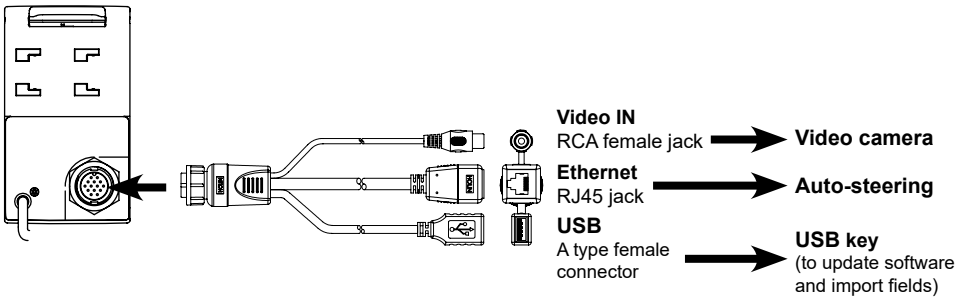## 3.1 Power supply connection



*G7 Plus, G7 Iso

Images are for illustrative purpose only and can differ from the real product.
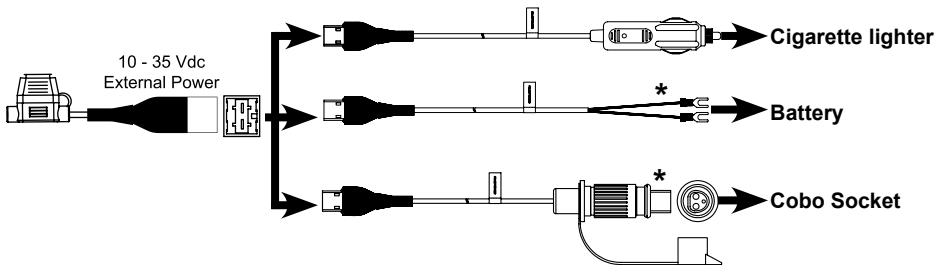
## 3.2 USB and video camera connection

(Using the cable included only in G7 Ezy)

**USB**
A type female connector

**USB key**
(to update software and import fields)
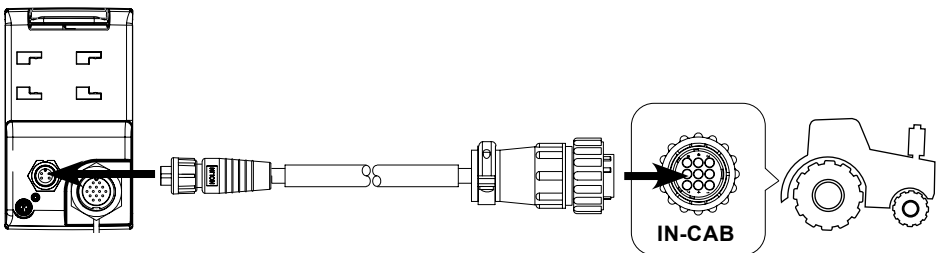
**Video IN**
RCA female jack
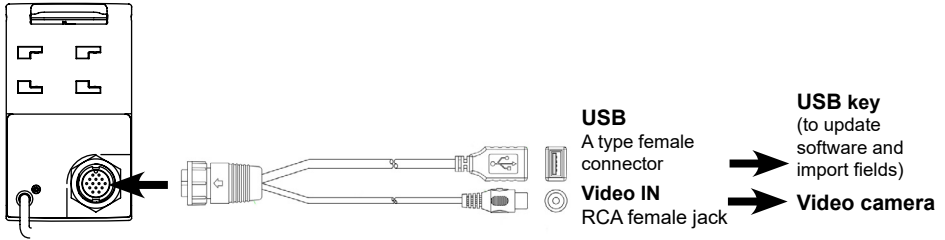
**Video camera**

## 3.3 USB, video camera and Auto-steering connection

(Using the cable included only in G7 Plus and G7 Iso)

**Video IN**
RCA female jack

**Video camera**

**Ethernet**
RJ45 jack

**Auto-steering**

**USB**
A type female connector
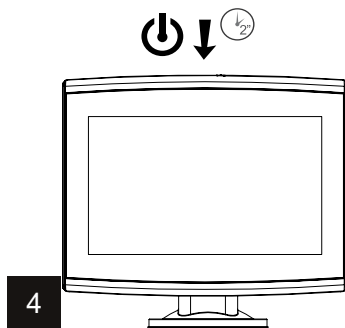
**USB key**
(to update software and import fields)
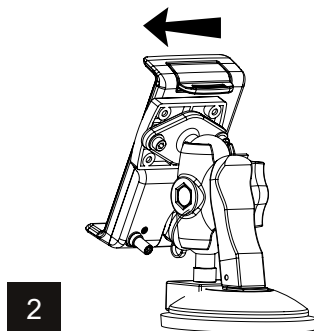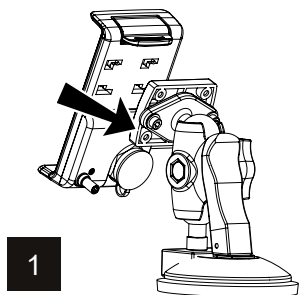
## 3.4 ISOBUS connection

(Using the cable included only in G7 Iso)

**IN-CAB**
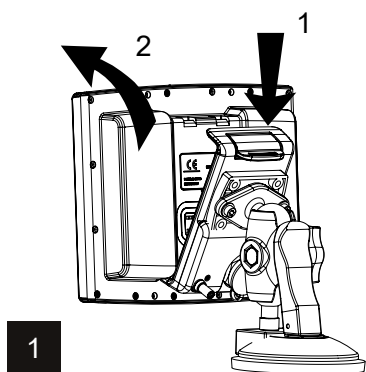
**ATTENTION:** The In-cab cable is not waterproof. Do not use outside the tractor cab.
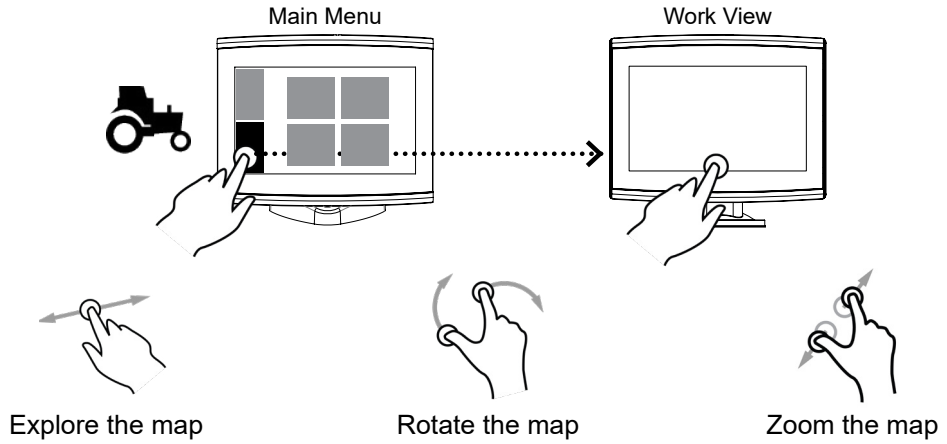
# 4. Bracket assembly

## 4.1 To install
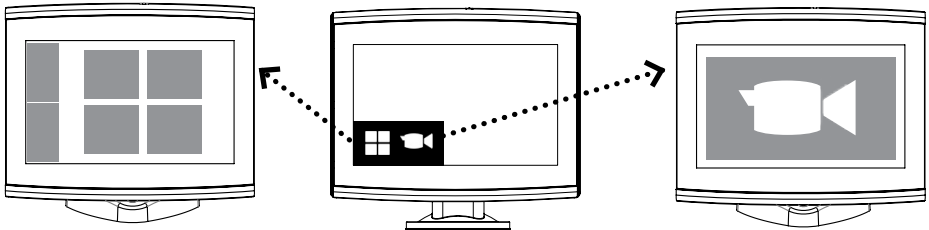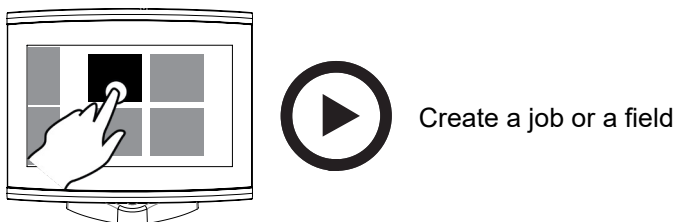


1



2



3



4

## 4.2 To uninstall



1

# 5. Operations

Main Menu

Work View

Explore the map

Rotate the map

Zoom the map

## 5.1 Other gestures

Select

Scroll page
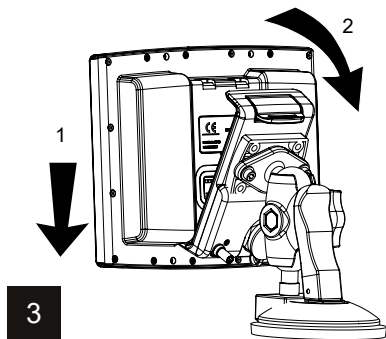
## 5.2 Menu on Work View

## 5.3 Start a Job

Create a job or a field

## 5.4 Buttons on map
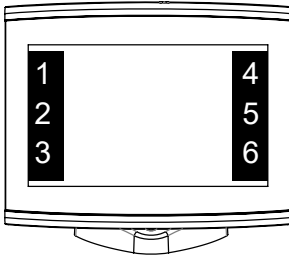
| | | | |
|---|---|---|---|
| 1 |  | Create and manage guidelines | **All models** |
| 2 |  | Create a field | **All models** |
| 3 |  | To set the headland area | **All models** |
| 4 |  | Start/Stop autosteering | **G7 Plus**<br>**G7 Iso** |
| |  | Save mark | **G7 Ezy** |
| 5 |  | Nudge control | **All models** |
| 6 |  | Start/Stop the job | **All models** |

# 6. Simplified EU declaration of conformity

Hereby, AvMap Srl, Viale Zaccagna 6, 54033 Carrara (MS), Italy declares that the radio equipments in the following table are in compliance with Directive 2014/53/EU.

| | |
|---|---|
| G7 Plus | P3MJ52WWAM, P3MJ52TWAM |
| G7 Ezy | P3MJ52WBAM, P3MJ520BAM, P3MJ520BTU, P3MJ520BCF, P3MJ520BAR |
| G7 Iso | P3MJ57WWAM, P3MJ57VWAM |

The full text of the EU declaration of conformity is available at the following internet address: **eudeclaration.avmap.it**

# 7. Safety Information

AvMap disclaims any liability deriving from an improper use or installation of the product in a way that may violate the regulations and safety. It is highly recommended that the installation of the product will be performed by a qualified maintenance technician. Consult the Installation manual for a correct installation procedure.

# FARMNAVIGATOR