ISOBUS terminal **AmaTron 4**

AmaTron 4: One for all

Operation made easy - for all ISOBUS-enabled machines from AMAZONE

Easy operation: with this in mind, AMAZONE developed the user-friendly AmaTron 4 ISOBUS terminal, which is perfectly matched to all AMAZONE machine software. The AmaTron 4 offers a noticeably smoother workflow, especially in job management and documentation. Practical operation is thus simply a matter of course thanks to logical and intuitive menu navigation.

With the low-reflection, 8" touch screen, you can quickly and intuitively switch between the various applications in the simple operating menu using a finger swipe or via the App carousel. The 3 direct selection buttons and a quick start menu further enhance AmaTron 4 ease of use, such as the simple import and export of job data.

All AMAZONE machinery can be operated with any operator terminal capable of using ISOBUS. Furthermore, in addition to all ISOBUS functionality, the AmaTron 4 operator terminal also offers machine-specific functions above and beyond the ISOBUS standard: "More than ISOBUS" - additional benefits in the world of precision farming.

Get in, switch on, drive off - whether automatic part-width section control, part-area, site-specific application, field-related documentation, optical parallel guiding assistance and much more from precision farming: no problem with the AMAZONE AmaTron 4 ISOBUS operator terminal.
AmaTron 4 - the key to success.

The AmaTron 4 concept

Precision right in your hand

Three direct selection buttons to switch quickly between:

1. Main menu

2. Map view

3. Machine operation
   (Universal Terminal)

4. Connection ports: GPS signal,
   ISOBUS connection, camera
   connection, 2 x USB connection,
   connection for speed sensor
   signals, Wi-Fi via USB

5. Operation using
   12 touch zones and
   12 function keys to be
   programmed at will

7. Quick start menu by swiping
   down the status bar

6. Proximity sensor and
   brightness sensor including
   automatic switch over
   between day and night mode

AmaTron 4 ISOBUS terminal

Touch display or
function keys

Section Control with up to 128
part-width sections

ISO-XML and
shape file formats

Everything under control with AmaTron 4

The AmaTron 4 ISOBUS operator terminal, developed in-house by AMAZONE, enables convenient tablet-style control of any ISOBUS-enabled agricultural machine. AmaTron 4 makes all ISOBUS functionality possible - with added convenience, user-friendliness and transparency. it performs even better in combination with AMAZONE machinery and guarantees maximum functionality when it comes to precision farming.

Innovative!

- ✓ Optional software licenses for a wide range of applications in precision farming, such as GPS-based part-width section control and part-area, site-specific application
- ✓ Machine-specific functionality above and beyond the ISOBUS standard: More than ISOBUS
- ✓ Smart linking of digital applications (AmaTron Twin App, GPS ScenarioControl)

INTELLIGENCE

Well thought through!

- ✓ Optimally aligned with AMAZONE machine software
- ✓ Practice-oriented and clear menu navigation for intuitive use
- ✓ The practical quick-start menu allows rapid import and export of job data
- ✓ Manage documents and jobs with ease

RELIABILITY

User-friendly!

- ✓ Rear-mounted hand rest for a secure grip
- ✓ App carousel for quick and easy navigation at the swipe of a finger
- ✓ Programmable status bar - the most important parameters always available at a glance

COMFORT

**YOUTUBE VIDEO
ISOBUS OPERATOR TERMINAL**
AmaTron 4

SMARTLEARNING
www.amazone.net/
smartlearning

Everything under control with AmaTron 4

Clear menu structure

Quick start menu

Open the quick start menu by swiping down the status bar. Select the import and export menu, AUX-N assignment for the multi-function joystick or generate a PDF report for documentation. Brightness, volume and day/night mode can also be adjusted manually.

"We used the Precea via an AmaTron 4 and I am very satisfied with the operation of the AmaTron. It is very intuitive and, due to the carousel layout, it is relatively easy to swipe through it. You can quickly find out where you are and where you want to go. It is clearly structured. The structure of the machine configuration in the operational display is very precise, so I always have all the necessary information available at a glance."

Hermen-Christopher Meins, contractor, Heidekreis Germany

1 Main menu

- Clear indication of the active tractor
- App carousel, which can be used to quickly switch between the various (setting) menus
- Easy-to-configure status bar settings, such as field name, time of day, Section Control status or GPS signal status, always visible when needed

2 Map view (TC)

- Task Controller functions, field-related job management, Section Control settings and additional GPS functions
- Automatic fade-in and fade-out of the 12 touch zones on the right-hand side of the screen via a proximity sensor

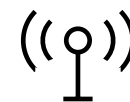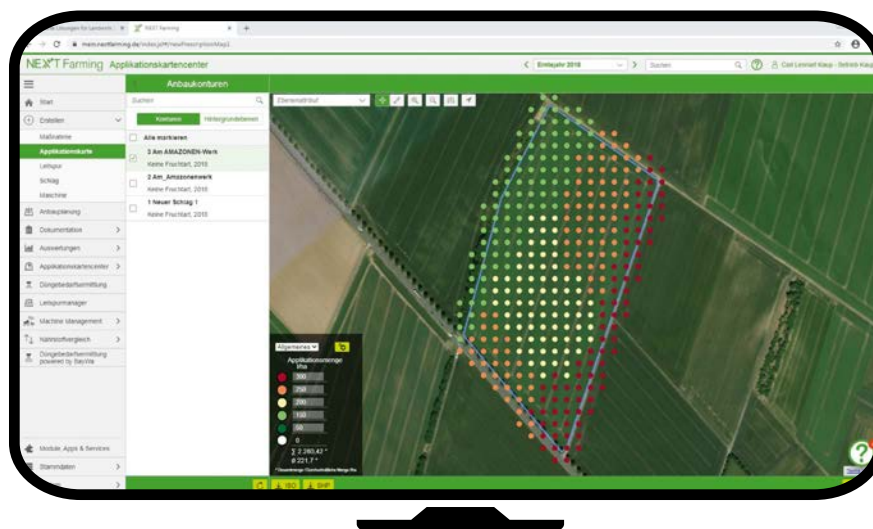Optional operation of map or machine functions

3 Machine operation (UT)

- Display showing the AMAZONE ISOBUS machine operation interface (UT) or ISOBUS-enabled machinery from other manufacturers
- Standard AMAZONE operating philosophy throughout - from terminal to machine operation
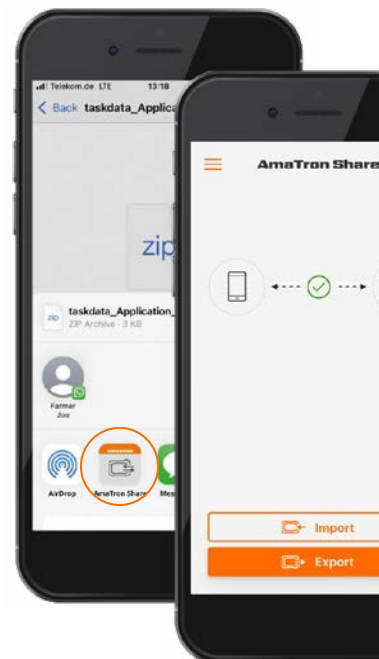- Programmable operating interfaces

Ideal software for optimal precision agriculture

Function enhancements via licenses	Function in AmaTron 4
GPS Maps&Doc	• Inactive field boundaries and automatic field detection • Documentation via ISOBUS Task Controller or PDF export • Application maps in ISO-XML format and Shape file format • Online data exchange via the AmaTron Share App
GPS-Switch basic	• Section Control with up to 16 part-width sections • Virtual headland • Automatic boom lowering • HeadlandControl and parabolic switching
GPS-Switch pro	• Section Control with up to 128 part-width sections and for up to 2 independent, ISOBUS-enabled machines • Auto-zoom, obstacle marking • MultiBoom - Section Control for up to 4 different materials • Spot spraying
GPS Track	• Optical parallel guiding assistance • Various track modes options • ISOBUS Level 1 tramline control
AmaCam	• Camera display with reverse gear assistance
AmaTron Twin	• Expanded display using the AmaTron Twin App
GPS-ScenarioControl	• AmaTron Twin expansion level to display cross-machine routes and automate complex switching processes when fertilizing

ISO-XML and Shape

ISO-XML and PDF

Generation of an application map in a farm management information system and automatic part-section control of the application rate with the AmaTron 4

Software for all - from simple ISOBUS machine control to precision farming functions -
the AmaTron 4 offers a wide variety of optional software licenses for any challenge. All licenses are
pre-installed on the AmaTron 4 and can be tested free of charge or activated directly for a fee.

GPS-Maps&Doc with data exchange via the AmaTron Share App

With the GPS-Maps&Doc license, the AmaTron 4 can gather and document both machine data and georeferenced data via Task Controller (TC). Job data, such as field boundaries or application maps, can be imported and processed conveniently in either the ISO-XML or Shape file format using the main import menu. The motto here is: work first, then save or delete.

After importing an application map, you can immediately start work in the field without having to create a job in advance.

When the task is finished, the job can be saved on the terminal or exported in either ISO-XML or PDF format. The ISO-XML Export can then be imported into a Farm Management Information system for documentation purposes. The PDF export can be saved. A PDF report can be created for each job for documentation purposes.

The AmaTron Share App, which is connected to the AmaTron 4 via Wi-Fi, allows all data to be imported and exported easily online.

The AmaTron Share App

ISO-XML and shape

ISO-XML and PDF

ISO BUS

Ideal software for optimal precision agriculture

GPS-Switch

The automatic part-width section control, GPS-Switch from AMAZONE enables GPS-based, fully automatic part-width section control for your ISOBUS machinery.
In automatic mode, the part-width sections are switched on and off automatically in wedge shaped fields, at headlands or on field boundaries. This reduces the driver's workload, as well as input costs due to fewer overlaps and misses. Increased precision in field work. GPS-Switch is divided into the GPS-Switch basic and GPS-Switch pro licenses, and these are characterized by different functionalities.

GPS-Switch basic

- Automatic part-width section control for up to 16 part-width sections
- Generation of a virtual headland
- GPS-based recording of the worked area
- Generation of field boundaries

M⊛RE than ISOBUS

- AMAZONE fertilization: parabolic switching of the part-width sections and HeadlandControl headland management
- AMAZONE plant protection: automatic boom lowering
- AMAZONE seeding: MultiSwitch - single row switching for up to 16 part-width sections for fertilizer, seed and microgranules

Automatic part-width section control on the virtual headland (orange border) with GPS-Switch basic. Works starts on the inside of the field and ends at the headland, for instance, when sowing.
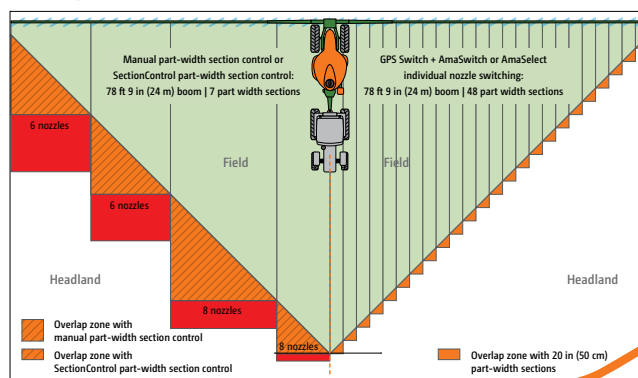
GPS-Switch pro (as an extension of GPS-Switch basic)

- ✔ Section Control with up to 128 part-width sections and for up to 2 independent, ISOBUS-enabled machines
- ✔ Obstacle-marking, e.g. water holes, tile risers
- ✔ Auto-zoom when approaching the headland
- ✔ MultiBoom - individual switching times via Section Control up to a maximum of 4 booms
- ✔ Spot spraying

In crop protection, individual nozzle shut-offs and GPS-Switch allows 20 in (50 cm) part-width sections to be activated automatically. This reduces the degree of overlap significantly, up to 85% less in comparison with conventional part-width section control (depending on the field size, working width and the number of part-width sections).

Example: 78 ft 9 in (24 m) boom width (6-6-8-8-8-6-6 = 48 nozzles)

Manual part-width section control or SectionControl part-width section control:
78 ft 9 in (24 m) boom | 7 part width sections

GPS Switch + AmaSwitch or AmaSelect individual nozzle switching:
78 ft 9 in (24 m) boom | 48 part width sections

6 nozzles

6 nozzles

8 nozzles

8 nozzles

Field

Field

Headland

Headland

Overlap zone with manual part-width section control
Overlap zone with SectionControl part-width section control
Overlap zone with 20 in (50 cm) part-width sections

MultiBoom allows the metering units for the various hoppers to be switched on and off at staggered intervals via GPS-Switch pro during seeding, thereby avoiding overlaps and gaps in the materials being applied. The staggered switching of the fertilizer coulters, sowing coulters and micro-granular applicator is visualized on the AmaTron 4 by the part-width section status.

M☼RE than ISOBUS

GPS Track

The GPS-Track parallel guide assistant facilitates orientation in the field, especially on grassland where there are no tramlines. Passes are clearly displayed and numbered in the A-B Line and Contour line driving track modes.
Deviation from the ideal line and clear steering recommendations are displayed by the light-bar in the status bar on the AmaTron 4, see image on the right.

GPS-Track also enables ISOBUS Level 1 tramline control for seed drills, as an alternative to tramline control via track markers or a working position sensor and as an option for working in fields.

Ideal software for optimal precision agriculture

App AmaTron Twin - the convenient display enhancement

The AmaTron Twin App provides the driver with even more comfort while working, since the GPS functions in the map view can also be used via a mobile device, such as a tablet, while monitoring machine operation in the AmaTron 4.
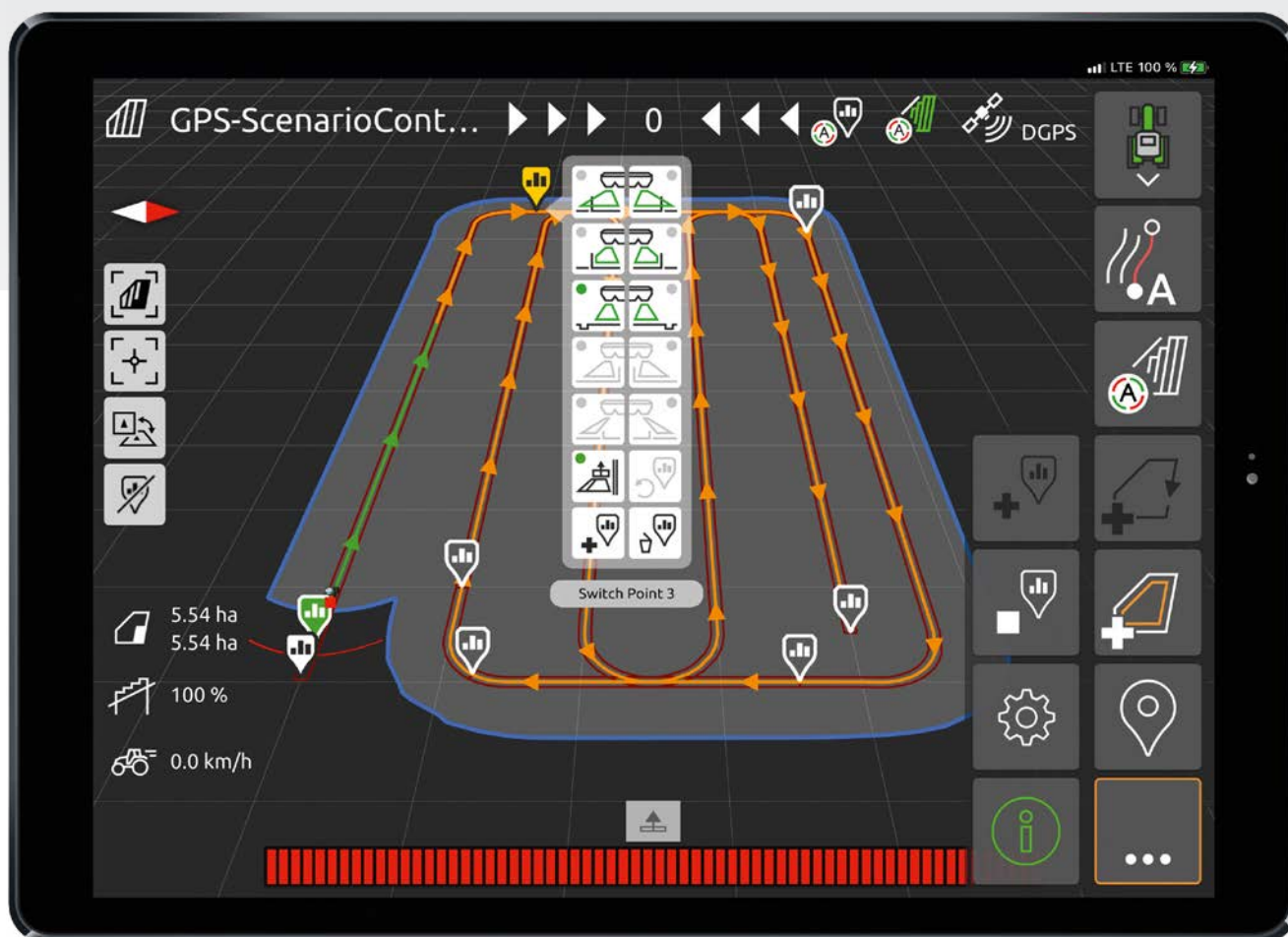
Advantages of the AmaTron Twin display enhancement:
- Use of an existing, mobile device
- Greater clarity – all applications in view
- Convenient control of the GPS functions in the map view, simultaneously, via the mobile device
- Clear, authentic representation of the working machine and its part width sections

The AmaTron Twin App

Everything in view at all times with The AmaTron Twin App can be directly mounted on the AmaTron 4 tablet holder to display all the information required for drivers at any time

Field with complete route display and saved georeferenced switching points.
When moving over the switching points, labeled as pins, the machine function stored in each case is automatically activated or deactivated. Tapping on the switching point opens a menu where the function to be activated or deactivated is marked. Water-course spreading is activated on the left-hand side here.

GPS-ScenarioControl

GPS-ScenarioControl is an enhancement of the AmaTron Twin license, for which you will also need the AmaTron Twin. This terminal software allows the driver to automate complex and recurring switching processes in the field.

The routing function of the GPS-ScenarioControl facilitates machine orientation in the field. In addition, in combination with AMAZONE ISOBUS fertilization, certain switching operations (edge, boundary, water-course spreading and HeadlandControl) can be automated, which prevents operator error.

Advantages with GPS-ScenarioControl:
- Simplify work by playing back a previously recorded scenario
- Use the same switching operations across different fertilizer applications
- Prevents operating errors
- Use the same route for all crop care applications in the field to prevent making a wrong turn and driving over the crop

Your options with

Fertilization

GPS-Maps&Doc:
- ✔ Part-area, site specific fertilizer application - different application rates on the left and right hand sides
- ✔ Georeferenced documentation
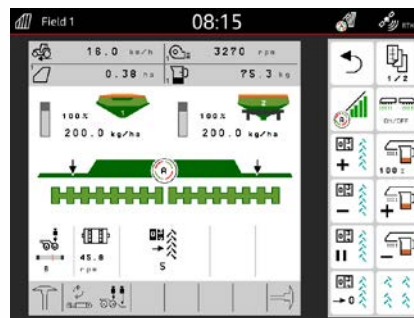- ✔ Data exchange with the AmaTron Share App

GPS-Switch basic:
- ✔ Automatic headland and part-width section shut-off with up to 16 part-width sections
- ✔ Parabolic part-width section control
- ✔ HeadlandControl headland management for optimized fertilizer distribution on the headland

GPS-Switch pro:
- ✔ DynamicSpread - dynamic part-width section control with up to 128 part-width sections

GPS ScenarioControl:
- ✔ Automated switching of the boundary spreading functions and HeadlandControl
- ✔ Always display the same routes to facilitate orientation in the field

Seeding

GPS-Maps&Doc:
- ✔ Part-area, site specific application of seed and fertilizer
- ✔ MultiMap - independent control of application rates with up to 4 application maps
- ✔ Georeferenced documentation
- ✔ Data exchange with the AmaTron Share App

GPS-Switch basic:
- ✔ Automatic headland and part-width section shut-off with up to 16 part-width sections
- ✔ MultiSwitch - individual row shut-off for seed, fertilizer and micro-granules
- ✔ Simulation of a virtual headland

AmaPilot+: Multi-function joystick (AUX-N-enabled) optimized for AMAZONE machinery, with 36 function keys that are open to programming across three levels

GPS-Switch pro:
- ✔ Section Control with up to 128 part-width sections and for up to 2 independent, ISOBUS-enabled machines
- ✔ MultiBoom - individual switch-on and switch-off points via Section Control for each medium (max. 4)

GPS-Track:
- ✔ ISOBUS tramline control Level 1 - automatic GPS-based switching of the tramlines

AmaTron 4 in...

Crop protection

GPS-Maps&Doc:
- ✓ Part-area, site specific application of plant protection agents
- ✓ Spot Spraying using spot application maps and AmaSelect spot to reduce herbicide use
- ✓ Georeferenced documentation
- ✓ Data exchange with the AmaTron Share App

GPS-Switch basic:
- ✓ Automatic headland and part-width section shut-off with up to 16 part-width sections
- ✓ Automatic boom lowering before switching on the nozzles
- ✓ Simulation of a virtual headland

GPS-Switch pro:
- ✓ Individual nozzle control with 20 in (50 cm) part-width section control for maximum precision
- ✓ Spot spraying

GPS ScenarioControl:
- ✓ Always display the same routes to facilitate orientation in the field
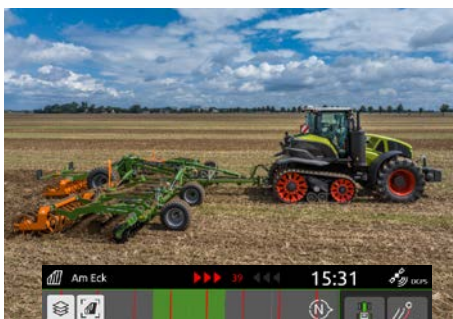
Soil tillage

GPS-Maps&Doc:
- ✓ Data exchange with the AmaTron Share App
- ✓ Part-area, site-specific application of fertilizer or seed in a single pass

GPS-Track:
- ✓ Optical parallel guiding assistant for orientation in the field

Cultivating

GPS-Maps&Doc:
- ✓ Data exchange with the AmaTron Share App

GPS-Switch basic & pro:
- ✓ Automatic headland and part-width section shut-off
- ✓ MultiBoom - individual switch-on and switch-off points via Section Control for each cultivating unit and when strip spraying
- ✓ Part-area, site-specific application of liquid fertilizer or plant protection agents