

# -C-CHSOBUS team play works.

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# -C-CHSOBUS team play works.

One for all, all for one - in 2009 the Competence Center ISOBUS e.V. was founded under this motto by the competitors AMAZONE, GRIMME, KRONE, KUHN, LEMKEN and RAUCH to manifest their vision of a cross-manufacturer co-operation. Six years of joint development of innovative electronics are proof: Teamplay Works.





## CCI100/200 — the ISOBUS-Terminal

## **Ergonomic design and functionality**

- Developed by practitioners for practical use
- Certified ISOBUS-Terminal
- One-handed operation by swapping of softkeys
- Rotary encoder for efficient setpoint entry
- Bright 8,4" touchscreen colour display
- Function buttons for reliable operation in rough terrain
- Ambient light sensor for automatic adjustment of display brightness
- "Toggle-key" for direct access to apps or machine interface

























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## Interfaces – for integrated processes

Efficient use of machinery requires integrated processes — Intergrated processes require a terminal with many interfaces























#### **ISOBUS**

Simply connect machines, a second terminal or additional control unit (e.g. a joystick) to the ISOBUS - for cross-manufacturer machine operation and data transfer.

#### Wireless data exchange

Data exchange at smartphone level. In addition to the standard USB-interface the CCI200\* offers WiFi. Mobile connectivity is easily achieved with the optional GSM-modem. Thus, comfortable data exchange is always possible.

#### Signal socket

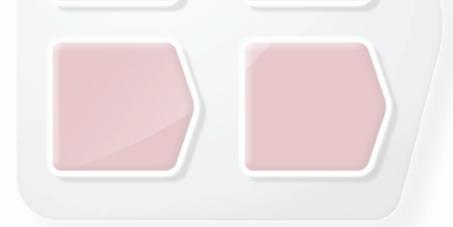
While not all tractors are equipped with ISOBUS, most of them come with a signal socket. The CCI-Terminal makes use of this to determine driving speed, PTO speed and linkage position and then shares the data with all other applications in the ISOBUS network: area-counter, speed-related control of spread rate in fertilization and crop protection, to name only a few.

#### And more...

The CCI-Terminal also provides interfaces for GPS, videocameras and an external light bar.

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## CCI.Apps — easily upgradeable



#### Customized

With CCI.Apps it's easy to add features to your CCI Terminal and customize it according to your needs. Already a multitude of apps is available, some of which are free of charge and part of the standard delivery.



#### Comprehensive

Benefit from our broad and constantly updated range of products. From visual machine control to task management with ISOBUS-documentation – a wide selection of apps, ranging from useful little helpers to comprehensive tools is available.



#### **Future-oriented**

Add apps later? No problem!

Your dealer determines the activation code using the CCI Service-Portal. After entering it into the terminal, the app is instantly operational. Simply add new apps and benefit from our future developments.



#### Terminal



CCI.Command







CCI.Courier



CCI.Control



CCI.FieldNav





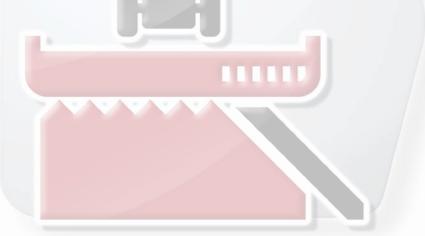


#### **Tablet**

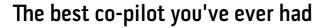


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## Precise work ...on any field with GPS



Using GPS, CCI.Command identifies the right track and automatically switches sections of ISOBUS machines. That's a relief and saves resources – for a more efficient work on the field.







#### Module: parallel tracking

Parallel tracking makes it easy to drive the next bout precisely in poor visibility or on fields without tramlines. The distance to the navigational line and a steering suggestion are displayed on the Terminal or via *L10* on the windshield right in your field of vision.



#### Module: section control

Using GPS, section control switches the part-width sections automatically in many machines. That is comfortable and saves resources – for more efficient work on the field. The precise settings are carried out automatically via ISOBUS communication.



#### Module: headland mode

Simply draw your individual headland on the Terminal. When applying plant protection and when sowing the part-width section are switched precisely at the headland.

This way, there won't be overlap of worked areas.

## Advantages on the field

Benefit from versatile applications. *CCI.Command* was developed by experts from different fields of agricultural engineering. The intelligent software is fine tuned to support the full spectrum of usages.

Saving resources and material while enhancing comfort – *CCI.Command* supports you all the way from seed to harvest.



Mounted Sprayer

Trailed Sprayer



Seed Drills



Planter (Maize/Sugarbeet)



Planter (Potatoes)



Universal Spreader



Mower

Slurry Tanker



Rotor Rakes



Fertilizer Spreader

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## Direct documentation ...it has never been this easy!

## The work on the field is back in the foreground

Documented and wirelessly exchanged at the push of a button – the comfortable solution for all agricultural businesses.



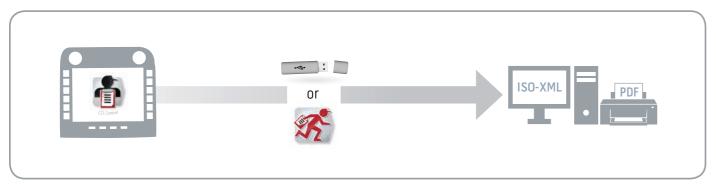




1. Work the field

2. Push the button

3. Documentation done ✓





**CCI.Control:** documentation compliant to the ISO-XML format to import to your farm management software, and as a pdf-report ready to be printed.



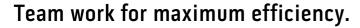
CCI.Courier: wireless data exchange via WiFi or mobil communications using largely free means of communication such as e-mail or ftp.

CCI Control Danart CCI.Control Report Name of Task: fertilisation BRUCH 00:47:34 Total Time Fertiliser 4350 kg Total amount 7.83 ha Total area 3262.5 m Total distance 16:21 Minuten Total time Meier, Helmut **a** 0541-123456 ☐ Hauptstraße 32 0171-87654321 **=** 49090 Osnabrück Farm . Meier Zum Gruthügel 8 **=** 49134 Field Bruch Winterraps **4** 74076 m<sup>2</sup> Meier ♠ CCI Device Fertiliser Created by CCI Terminal (2013.07.31 15:32:23)

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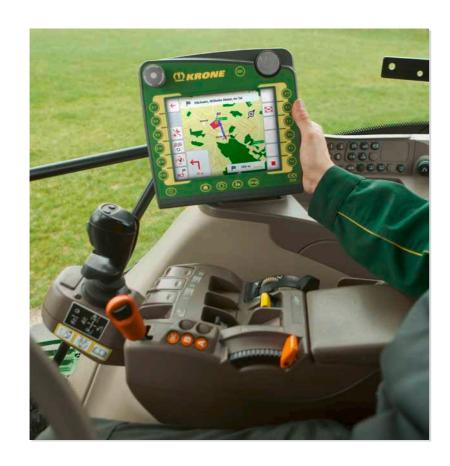




Short harvest seasons, difficult weather situations, and high standards of work quality – these are the challenges for major agricultural businesses and contractors.

For a maximum of area output at low costs everyone has to know exactly what he is doing.

With CCI.farmpilot, CCI.Control, and CCI.FieldNav we have the most productive tools the CCI-Terminal has to offer – the best addition to your team.





#### CCI.Control – the office on the field

The map overview displays all imported tasks on one screen. The driver decides which field he plans to work on next with just one "click".

*CCI.Control* saves your ISOBUS machine data for a comprehensive documentation.





#### CCI.FieldNav – the navigation

Using this navigation tool, even drivers unfamiliar with the terrain will find their ways to the field. *CCI.FieldNav* considers all routes on which the respective machine can travel. When the fleet is at work, the other vehicles' current position is displayed.



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## CCI.Control Mobile – the innovation

## Agricultural data management

Manufacturer independent recording of (ISOBUS-)machine data and online data exchange and field navigation brought together for the first time. A standardized system for tractors, implements, and self-propelled vehicles.





Agricultural data management in its most versatile form. As an app for tablets, you can use *CCI.Control Mobile* in the tractor's or the selfpropelled vehicles cab and for tasks outside.

#### Networked

CCI.Control Mobile simply exchanges tasks and documentation via e-mail.

A connection to the farmpilot portal permits fleet management. The current positions of fleet members are displayed directly in the map. For navigation to the field you can use any navigation app on the tablet.

#### Compatible

For data exchange with farm management software *CCI.Control Mobile* uses the manufacturer independent ISO-XML format. With *CCI i10* it is possible to use ISOBUS machine's data on a tablet for the first time. Tractors, implements and self-propelledvehiclesgatherandmake available information on diesel consumption, the worked area, applied products, crops and various filling levels. *CCI.Control Mobile* displays the current values for the driver and stores the information.

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## Precise farming and useful little helpers

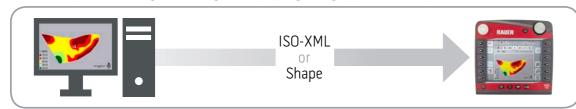
#### CCI.Control and CCI.Convert

Using application maps and online sensors, precise crop farming is possible. CCI.Control and CCI.Convert enable data exchange via ISOBUS – a maximum of flexibility achieved through manufacturer independent communication.



#### VRA Control:

Part area specific sowing, fertilizing, and spraying using application maps.

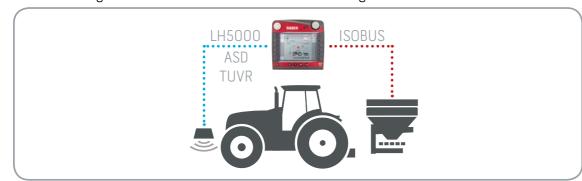


VRA Control is part of the full range of features of the app CCI.Control.



#### CCI.Convert:

Convert the signal from online sensors into ISOBUS messages the machine can read.



CCI.Convert works independently or together with CCI.Control and CCI.Command.



CCI.TECU – tractor data



CCI.Cam – the camera app



CCI.Calc - the calculator

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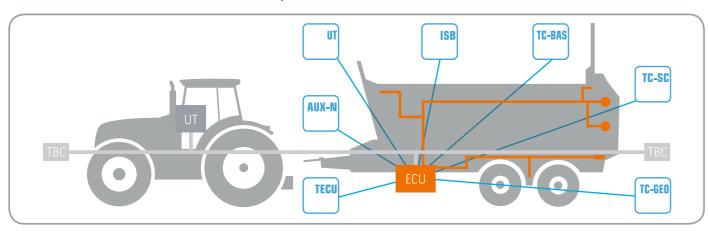
## Our goal – 100% compatibility

## Aiming high: 100% compatibility is expected of ISOBUS – and rightly so!

We have accepted that challenge and steadily keep working towards that goal.

#### **CCI ISOBUS-Driver**

Using the CCI ISOBUS-driver our members guarantee ISOBUS compatibility of their implements. This software-library serves as the link between the manufacturer-specific device electronics and the ISOBUS.





#### **AEF and CCI**

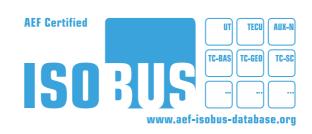
The CCI actively engages in both the Steering Committee and in the working groups of the AEF, shaping the ISOBUS-standard and the future of agricultural machinery in the best interest of farmers and contractors.

www.aef-online.org

#### **AEF ISOBUS Functionalities**

A modern ISOBUS system consists of various components, including the tractor, terminal and implement. For system compatibility it is essential what the Universal Terminal and the implement are capable of performing – both separately and together. For increased transparency towards the user the AEF has defined AEF ISOBUS Functionalities that are now also the basis for the certification of ISOBUS products.

Precise information about which functionalities are supported by an ISOBUS product or a combination is provided by the new AEF ISOBUS Conformance Test including an independent certification. The results can be found on the AEF ISOBUS Database, where the data of all AEF certified ISOBUS products are published. An informative presentation can be downloaded from the homepage (www.aef-isobus-database.org).



MEMBER OF

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## CCI classes – practice and knowledge

### Recognize potential – utilize advantages

The development of electronic agricultural systems and of the ISOBUS are is making huge progress. But only those who know all the possibilities, can make full use of the advantages.

We teach basics and give practical advice for your everyday business with ISOBUS – manufacturer independent and adjusted to your needs.

#### Subject areas:

- ISOBUS basics
- ISOBUS practice
- Data management
- GPS control

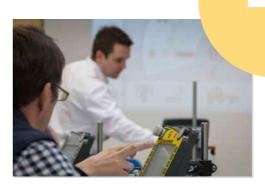
#### Target group:

- Farmers / contractors
- Dealers
- Manufacturers
- Educational institutes



Datenmanagement Terminal
Schulung Plus









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## topics and dates:

www.cc-isobus.com

CCI tutorials on YouTube:



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