

The future is digital –
so are we!

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Scope of supply

- 1 x Cobra SMARTlink
- 1 x Charging cable type C with charging adapter
- 2 x Temperature probe type K
- 2 x Banana plug, stackable, red with 4 mm plug, 50 cm length
- 1 x Banana plug, stackable, blue with 4 mm plug, 50 cm length
- 1 x Manual (German, English)
- 1 x High quality packing carton incl. storage box

Technical data

- 10.1" LCD touch screen (16:10), WUXGA resolution 1200 x 1920
- Octa-core CPU 2.0 GHz, 4 GB RAM Main memory DDR3
- Internal memory 64 GB, expandable to 128 GB with TF card (max. 64 GB)
- Bluetooth 5.0, GPS, WiFi standard 802.11 a/b/g/n/ac
- Battery: Li-Po 10.000mAh
- Power supply: AC-DC adapter 100...240 V~/ 50...60 Hz, 5V / 2A output
- Weight: 1200 g (incl. packaging)

Conformity



PHYWE Systeme GmbH & Co.KG hereby declares that the radio system type 12999-99 complies with the 2014/53/EU directive. The complete text of the EC Declaration of Conformity is available at:
www.phywe.com/en/ec-declaration

Safety instructions



- Use the device only for its intended purpose.
- Protect the device from dust, high humidity and vapours. Clean the device with a slightly damp, lint-free cloth. Strong cleaning agents or solvents are not suitable.
- Ensure that no liquid enters the openings in the housing.
- Do not open the device.
- The power input is protected by a self-resetting fuse. However, avoid short-circuit currents exceeding 20A. This can lead to the destruction of the device.

Disposal



- The packaging mainly consists of environmentally-friendly materials that should be returned to the local recycling stations.
- Do not dispose of this product with normal household waste.
- If this unit needs to be disposed of, please return it to the address that is stated on the back for proper disposal.

Manual



Cobra SMARTlink
Simple. Digital. Experimentation.



Thank you for choosing Cobra SMARTlink!

Cobra SMARTlink is a state-of-the-art, high-performance **3-in-1 tablet**. It is not only a great **measuring and display device** for digital science teaching, but also a full featured Android tablet.










Due to the brilliant 10.1 inch display combined with the powerful hardware and the **internal measuring sensors**, it is perfectly equipped for the demands of **modern, digital science teaching**.

Especially in student experiments **Cobra SMARTlink** is very good, easy and reliable to use. Besides the internal sensors, more than **40 further sensors** (**Cobra SMARTsense** and **Cobra DigiCart**) via Bluetooth  and USB  connectable.












Internal sensors ...







- | | | |
|--|--|--|
| <p> Temperature: thermocouple type K</p> <ul style="list-style-type: none"> • Measuring range: -200...1200 °C • Resolution: 0.4 °C • Accuracy: +/- 3 % • Data rate: 10 Hz | <p> Voltage</p> <ul style="list-style-type: none"> • Measuring range: -30 V...+30 V • Resolution: 20 mV • Accuracy: +/- 1 % • Data rate: 10 kHz | <p> Acceleration</p> |
| <p> Current</p> <ul style="list-style-type: none"> • Measuring range: -1A...+1A • Resolution: 0.5 mA • Accuracy: +/- 1 % • Data rate: 1 kHz • Ri (typical): 220 mΩ • Max. perm. Current: ± 1.1 A | <p> Light</p> <ul style="list-style-type: none"> • Measuring range: 1-128 kLx • Resolution: 1 Lx • Accuracy: +/- 4 % • Data rate: 10 Hz | <p> Microphone</p> |
| <p> UV</p> <ul style="list-style-type: none"> • Measuring range: 0...400 W/m² • Resolution: 0.1 W/m² • Accuracy: +/- 4 % • Data rate: 10 Hz | <p> Humidity</p> <ul style="list-style-type: none"> • Measuring range: 0...100 % • Resolution: 0.1 % • Accuracy: +/- 4 % (0-80 %) • Data rate: 10 Hz | <p> GPS</p> |

... and much more!



- | | | |
|---|--|---|
| <p> Speakers</p> <ul style="list-style-type: none"> • Right/Left | <p> Headphones</p> <ul style="list-style-type: none"> • 3.5 mm socket | <p> Camera</p> <ul style="list-style-type: none"> • Front 2 MP • Back 5 MP |
| <p> Volume</p> | <p> USB Typ C</p> <ul style="list-style-type: none"> • Charging via USB • Connection to PC | <p> USB 2.0 Typ A</p> <ul style="list-style-type: none"> • Memory expansion • Sensor connection |
| <p> On / Off Switch</p> | <p> SD card slot</p> <ul style="list-style-type: none"> • Memory expansion • Micro SD card | <p> Keyboard connection</p> |

Use


- Press the on/off switch  for more than 3 seconds to turn on the device
- Choose an app to record measurement data
 -  **measureAPP** for **measurement with Cobra SMARTsense**
 -  **DigiCartAPP** for **measurement with Cobra DigiCart**
- Press the on/off switch  for more than 3 seconds to turn off the device

Charging the battery

Before using the device for the first time the battery must be fully charged. Use the enclosed USB charging adapter and connect the **Cobra SMARTlink** with the USB-C cable.

Use of sensors

All internal sensors are automatically recognized by the pre-installed app **measureAPP**. Furthermore, there are over 40 **Cobra SMARTsense** sensors and **Cobra DigiCart** to connect to **Cobra SMARTlink**.

The sensors can be connected either wirelessly via Bluetooth  or directly via USB  to one of the 4 USB ports .