



## BECHRONIZED CERES DECODERS OVERVIEW

### 1 Description BeChronized Ceres decoders

Whether you are organizing an international competition or a small local event, our range of Ceres decoders offers you a user-friendly, accurate and reliable timing system in order to successfully manage your race results.

The Ceres decoders are intended for both motorized and active sports and have a timing resolution of 0.003 seconds. The race time or day time can be synchronized by GPS.

Depending on your sport and needs, the decoders record speeds up to 450 km/h and read up to 1.500 passings per minute or up to 48 participants simultaneously. Moreover, up to 15 loops can be connected to the same decoder to provide split times or speed measurements.

The Ceres decoders offer also the possibility to store directly your data on a SD card through their implemented SD card reader, which offer a great back-up if your PC goes down.

The LCD screen in front of the decoders displays useful information to guide you and to further simplify the use of the equipment.

The housing of the Ceres decoders is made by a special alloy which protects them even in severe weather conditions.

The Ceres decoders can be connected to your PC through 2 flexible interfaces, USB and network.

Last but not least, the decoders can run on 4 different frequencies (315, 434, 868, 915 Mhz) from which you can choose, which authorizes a worldwide use.



## 2 Specifications BeChronized Ceres Decoders

Specification	BeChronized Ceres Standard Decoder	BeChronized Ceres Pro Decoder	BeChronized Ceres Elite Decoder
<b>PC outputs</b>	1 USB, Ethernet or modem, GPRS, WLAN, Bluetooth, RS485, I2C-IO, Low-power 868 Mhz, ZIGBEE	1 USB, Ethernet or modem, GPRS, WLAN, Bluetooth, RS485, I2C-IO, Low-power 868 Mhz, ZIGBEE	1 USB, Ethernet or modem, GPRS, WLAN, Bluetooth, RS485, I2C-IO, Low-power 868 Mhz, ZIGBEE
<b>Inputs</b>	1 – Remote control 2 – Photocell	1 – Remote control 2 – Photocell	1 – Remote control 2 – Photocell
<b>Number of loops</b>	1 loop	Up to 3 loops	Up to 15 loops
<b>Timing resolution</b>	0.003 seconds	0.003 seconds	0.003 seconds
<b>Maximum speed</b>	450 km/h	450 km/h	450 km/h
<b>Maximum number of reads per minute</b>	Up to 200 passings per minute	Up to 800 passings per minute	Up to 1500 passings per minute
<b>Maximum number of reads simultaneously</b>	Up to 6 reads simultaneously	Up to 24 reads simultaneously	Up to 48 reads simultaneously
<b>Maximum track width</b>	20 Meters	20 Meters	20 Meters
<b>Temperature range</b>	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
<b>Clock stability</b>	TCXO 0.5 ppm	TCXO 0.5 ppm	TCXO 0.5 ppm
<b>GPS synchronization</b>	Yes	Yes	Yes
<b>LCD display</b>	Yes	Yes	Yes
<b>Information on the disturbance level</b>	Yes	Yes	Yes
<b>Data storage</b>	You can store directly your data on a SD card	You can store directly your data on a SD card	You can store directly your data on a SD card
<b>Dimensions</b>	220 x 220 x 110 mm	220 x 220 x 110 mm	220 x 220 x 110 mm
<b>Weight</b>	1,8 kg	1,8 kg	1,8 kg
<b>Housing</b>	Special alloy which protects the decoder from all weather conditions	Special alloy which protects the decoder from all weather conditions	Special alloy which protects the decoder from all weather conditions
<b>Power supply</b>	12 VDC and 5 VDC or 110 – 220 VAC	12 VDC and 5 VDC or 110 – 220 VAC	12 VDC and 5 VDC or 110 – 220 VAC

## 3 Warranty BeChronized Ceres Decoders

The BeChronized Standard, Pro and Elite Ceres Decoders have a warranty of 3 years.