Dealer Catalogue 2010

VDO
CYCLECOMPUTING

www.vdocyclecomputing.com
Visit our website!

Product Comparison

Comparison of two models in table form.

Product Advisor

The adviser guides you intuitively through a selection process and at the end tells you which is the right bike computer for you based on your selections.

Distributor Search

No matter where – Your retail customers will find you by our country by country locator.

Microsite Series-Z

www.vdo-series-z.com
Check out our special website for Series-Z.

5-Year VDO-Warranty

Water Resistant

EASY MENU CONTROL
Easy Menu Navigation

Heavy Duty Wire

Analogue Wireless

Integrated HRM

Integrated Altimeter

PC Download

Prepared for optional
digital cadence

DIGITAL WIRELESS
technology

SMART SET BOX

Hiking Mode

Wattage (Virtual Power)

ANT+
Digital Transmission Series-Z

Contents

Dear Bicycle Retailer,

For 2010 we are providing a line of cycle computers ranging from **A to Z**, from entry level model to high-end device for the ambitious cyclist.

A

The Series-A provides you with wired and wireless models at an excellent cost/performance ratio. A4 and A4+ are the bestsellers. Few functions and easy handling make these models your clients computer of choice. Models A8 and A8+ feature the essential functions at a very low price level. The A8+ is about the best value wireless cycle computer in the market.

M

The MC 1.0 (wired) is the best value for a cycle computer w/altimeter. The wireless version MC 1.0+ has been a classic for years. That's why this legend will remain in the 2010 program.

X

With our Series-X models we are offering you two wired and three wireless mid-price models equipped with most recent digital wireless technology. For the wireless transmission we are reverting back to an already proven system. Any wireless Series-X model (X1DW, X2DW, X3DW) is cadence ready and can subsequently be upgraded with wireless cadence equipment. The Series-XDW wireless models are targeting the ambitious hobby cyclist.

Z

The Series-Z featuring altimeter, heart rate monitor, cadence, calorie consumption, virtual power and PC-evaluation software is meeting the demands of the performance oriented cyclist. The ANT+ wireless transmission is among the best interference resistant systems currently available on the market
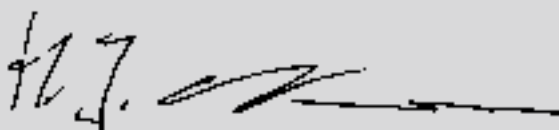
E

With a close eye to environmental protection we are assuring that our products comply with the European Materials Act (REACH). None of our products contain any hazardous of harmful substances indicated therein.

Q

We have been improving our quality management in the past years. The quality aspect needs to be incorporated into the manufacturing at the earliest possible stage, the product development. During the various steps of production we are taking care that the quality level of our component assembly is monitored permanently. This is how the VDO-Quality of the finished product is generated.

We wish you lots of success with our product line 2010.

With kind regards,

H.J. Noenen
Managing Director
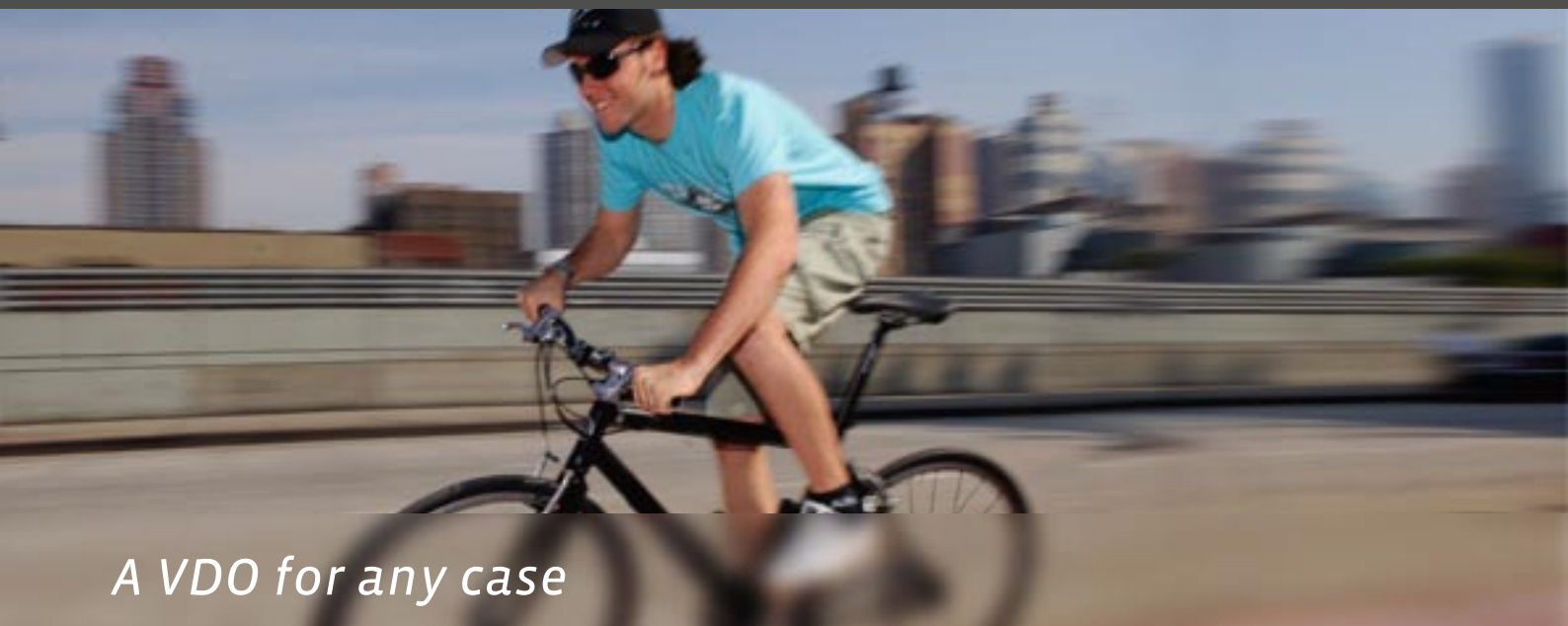
A VDO for any case

THE SERIES-A

The models in the Series-A have been designed for cyclists of all age groups, hobby cyclists, those cycling on long trips, sporty holidays, weekend excursions and to and from work, but also for serious cyclists. For an entry-level price, even the cost-conscious sports and leisure cyclist can now get hold of the advanced technology and fine design from VDO.

Recommended use

	A4	A4+	A8	A8+
Downhill				
Freeride				
X-Country				
Marathon				
Road Bike				
Track Cycling				
Touren / Trekking				
City				
Commuting				

Large display

We have place particular emphasis on developing the display. With a size of 25 x 27 mm, we will also meet the demands of the older target groups for a practical computer that can easily be read.

Ø 35 mm

Large buttons

Large buttons with a well defined pressure point ensure easy operation, even with gloves.

Simple operation

Operation is made particularly simple using two generous, soft-touch buttons – one for accessing the functions and one for accessing the setting modes.

Setting mode

Pressing SET button for three seconds activates setting mode

Cycling Functions

◉ current speed

◉ trip counter

◉ clock

◉ total odometer

◉ average speed

◉ maximum speed

◉ trip ride timer

◉ comparison of current and average speed

Analogue wireless technology

Radio waves represent speed.

slow speed
20 km/h (12.5 mph)

high speed
40 km/h (25 mph)

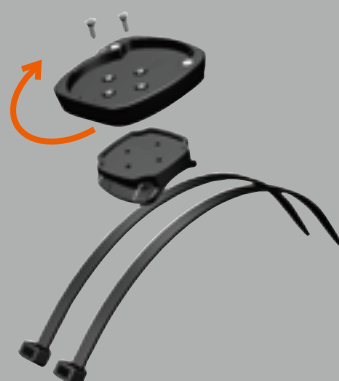Number of waves (signals) per unit

Data saved when changing the battery

When changing the battery all programmed values remain saved for up to 20 seconds – enough time therefore to insert the new battery.

20 SEC.

Packaging

Universal mount for assembly to handlebars or stem

All models in the Series-A come with the universal mount for handlebars or stem.

SERIES-A / WIRED MODELS / A4 / A8

A4
Item No.: 0100

A8
Item No.: 0200

Cycling Functions

- current speed
- trip counter
- clock
- total odometer

Further Features

- programmable odometer
- sleep mode
  (display shutdown)
- auto start / stop
- universal Twist-Click-Mounting
  for handlebar & stem
- easy fitting spoke magnet
- KMa/ MI selectable
- data storage during
  battery replacement

Contents of packaging

Computer, Battery 3V 2032,
Battery door, Universal mount
with wire and sensor, rubber
shim, magnet, cable ties

Cycling Functions

- current speed
- trip counter
- clock
- total odometer
- average speed
- maximum speed
- trip ride timer
- comparison of current
  and average speed

Further Features

- programmable odometer
- sleep mode
  (display shutdown)
- auto start / stop

- KM / MI selectable
- universal Twist-Click-Mounting
  for handlebar & stem
- easy fitting spoke magnet
- data storage
  during battery replacement

Contents of packaging

Computer, Battery 3V 2032,
Battery door, Universal mount
with wire and sensor, rubber
shim, magnet, cable ties

SERIES-A / WIRELESS MODELS / A4+ / A8+

WIRELESS

WIRELESS

A4+
Item No.: 0101

A8+
Item No.: 0201

Cycling Functions

- current speed
- trip counter
- clock
- total odometer

Further Features

- **wireless, analogue**
- programmable odometer
- sleep mode
  (display shut-down)
- auto start / stop up to 3 hrs.
- universal Twist-Click-
  Mounting for
  handlebar & stem
- easy fitting spoke magnet

- KM / MI selectable
- data storage during battery
  replacement

Contents of packaging

Computer, analogue wireless
transmitter, Battery 3V 2032,
Battery 12V, Battery door for
computer and transmitter,
Universal mount, rubber shim,
magnet, cable ties

Cycling Functions

- current speed
- trip counter
- clock
- total odometer
- average speed
- maximum speed
- trip ride timer
- comparison of current and
  average speed

Further Features

- **wireless, analogue**
- programmable odometer
- sleep mode
  (display shutdown)

- auto start / stop up to 3 hrs.
- KM / MI selectable
- universal Twist-Click-Mounting
  for Handlebar & Stem
- easy fitting spoke magnet
- data storage during
  battery replacement

Contents of packaging

Computer, analogue wireless
transmitter, Battery 3V 2032,
Battery 12V, Battery door for com-
puter and transmitter, Universal
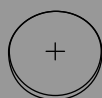mount, rubber shim, magnet,
cable ties

Functions

	A4	A8	A4+	A8+
analogue wireless speed			■	■
current speed	■	■	■	■
trip distance	■	■	■	■
total distance	■	■	■	■
current ride time		■		■
average KMH		■		■
comparison KMH / to average		■		■

	A4	A8	A4+	A8+
max. speed		■		■
clock	■	■	■	■
auto start / stop	■	■	up to 3 h	up to 3 h
short function texts	■	■	■	■
sleep mode	■	■	■	■
total kilometres can be set	■	■	■	■

ACCESSORIES

General – *A4 / A8 / A4+ / A8+*

BAT 3V
Item No.: 1013

Battery 3V, Type 2032
Contents of packaging: Battery 3V

CMAG S / M
Item No.: 4410

Clip-Magnet S/M for round spokes up to 2,3 mm/ flat spokes up to 3,4 mm.
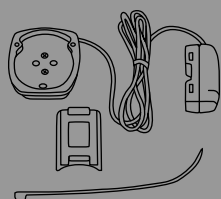**Contents of packaging:** Clip magnet

CMAG L / XL
Item No.: 4412

Clip-Magnet L/XL for round spokes up to 3,2 mm/ flat spokes up to 5,4 mm.
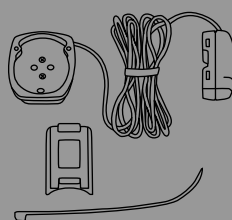**Contents of packaging:** Clip magnet

Wired models – *A4 / A8*

UMW 75
Item No.: *5502*

Universal Mount for handlebar or stem
Wire: 0,75 m
Contents of packaging:
1   universal mount with wire and sensor,
1   rubber shim, cable ties

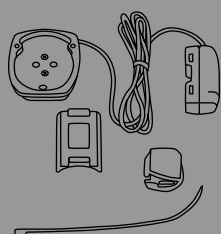### UMW 150
Item No.: *5504*

Universal Mount for handlebar or stem
Wire: 1,5 m
Contents of packaging:
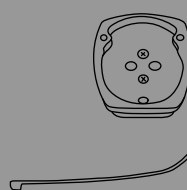1   universal mount with wire and sensor,
1   rubber shim, cable ties

UMW KIT
Item No.: 5505

Wired mount kit, including magnet
Contents of packaging:
1   universal mount with wire and sensor,
1   rubber shim,
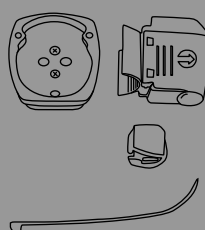1   clip magnet, cable ties

Wireless models – *A4+ / A8+*

UMWL
Item No.: 5503

WIRELESS

Universal Mount for handlebar or stem
Wireless
Contents of packaging:
1 universal mount, cable ties

UMWL-KIT A
Item No.: 5506

WIRELESS

Mount-Kit wireless Series-A
including magnet
Contents of packaging:
1   universal mount,
1   analogue transmitter Series-A, incl. battery 12V
1   rubber shim,
1   clip magnet, cable ties,

AWTM
Item No.: 5501

WIRELESS
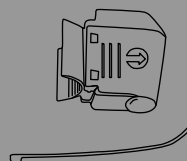
Series-A-speed transmitter analogue
Contents of packaging:
1   analogue transmitter
1   rubber shim, cable ties

BAT 12V
Item No.: 1014

WIRELESS

Batterie 12V, Type 23 AE
Contents of packaging:
Batterie 12V

The Sportive

THE SERIES-X

The Series-X was designed for hobby sportspeople and ambitious racing bike and mountain bike cyclists.
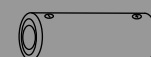The Series-X occupies the mid-range above the entry-level segment of the Series-A.

Main differences to the Series-A:
- Full text menu display
- EMC menu operation
- Time permanently displayed
- Digital wireless transmission
- Cadence optional on all wireless models
- Automatic bike recognition bike 1 / bike 2 on the wireless models
- Can be set for 2 bikes
- Data permanently saved when battery changed (except X1 and X1DW)
- Wheel sizes can either be set using millimetres (wheel circumference) or tyre size table (stored in computer)
- SSB Smart Set Box for quick basic settings at dealer, including test function

Recommended use

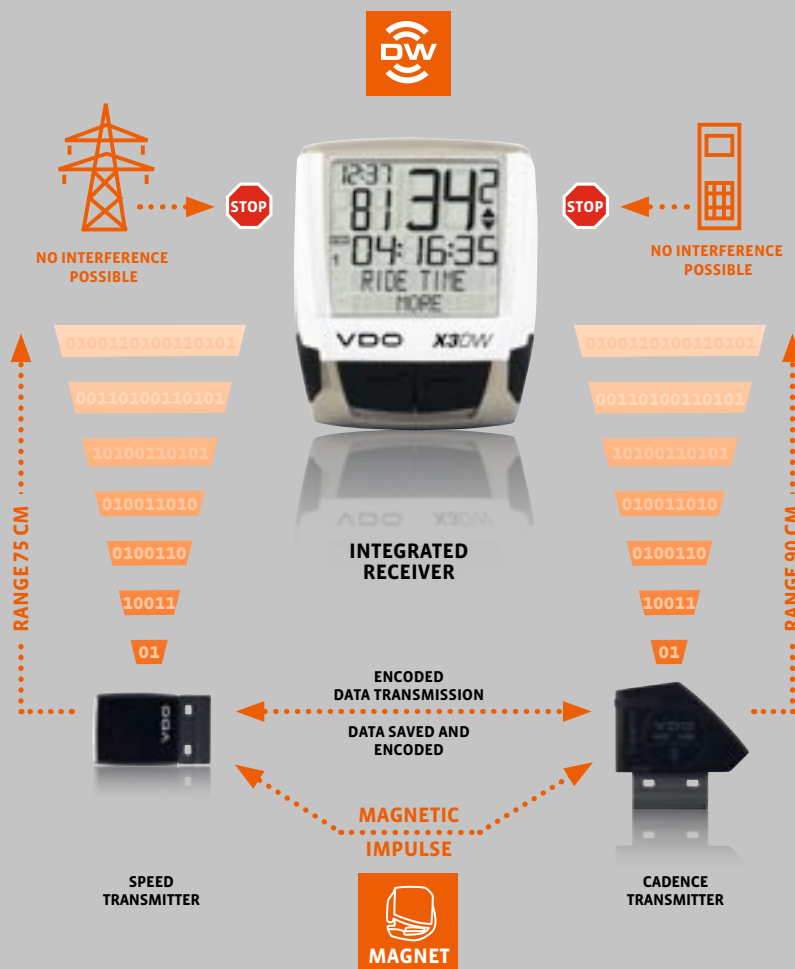|	X1	X2	X1 DW	X2 DW	X3 DW
Downhill					
Freeride					
X-Country					
Marathon					
Road Bike					
Track Cycling					
Touren / Trekking					
City					
Commuting					

C = CLEAR
DOWN ▼

M = MENU
UP ▲

FUNCTION 3
FUNCTION 4
FUNCTION 5
FUNCTION 6

EMC
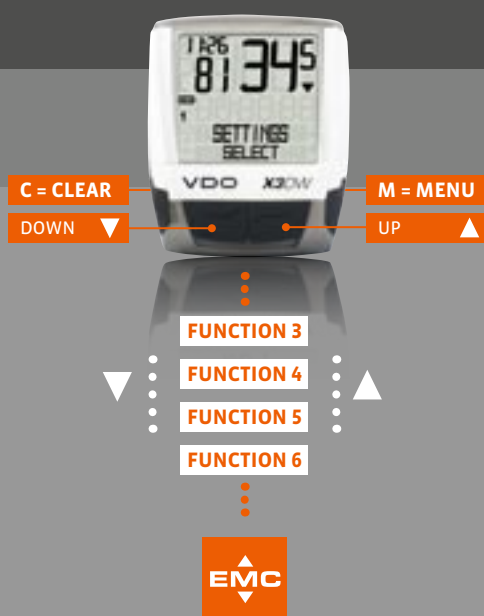
Easy-to-use by the EMC menu control

Simple and intuitive, the EMC operating system enables operation whilst riding and the computer settings to be made when first used. All settings can be accessed from a combined menu.

Digital wireless transmission

DW

NO INTERFERENCE POSSIBLE   STOP

STOP   NO INTERFERENCE POSSIBLE

0100110100110101
00110100110101
10100110101
010011010
0100110
10011
01

RANGE 75 CM

0100110100110101
00110100110101
10100110101
010011010
0100110
10011
01

RANGE 90 CM

INTEGRATED RECEIVER

ENCODED DATA TRANSMISSION

DATA SAVED AND ENCODED

MAGNETIC IMPULSE

SPEED TRANSMITTER

CADENCE TRANSMITTER

MAGNET

DW stands for "Digital Wireless" and "Double Wireless"

The Series-X comes with digitally encoded wireless transmission, which is based on established industry modules.

"DW" also stands for Double Wireless; speed and cadence (optional) are sent to the computer wirelessly.

◉ Each transmitter generates its own encoding. This effectively eliminates "cross-talking" when riding in a group.
◉ The transmitters are **automatically paired** with the computer on the Series-X.
◉ Place the computer into the handlebar mount, ride off and the computer does the pairing itself.

Also new is the **automatic transmitter recognition.** It notices when the computer is being used on **bike 1** or **bike 2.**

With a range of 75 cm for the speed transmitter and 90 cm for the cadence, all normal assembly scenarios are covered.

Large display

The display on the Series-X has got even bigger.
This has made it possible to increase the size of the
digits for the speed and the other data. The text on
the display has also been made easier to read.
The time is permanently shown on the display.
On the wireless models, the current cadence (option)
is permanently displayed. The important details
can thus be seen at a glance.

Ø 45 mm

## Wheel size setting using tyre size

On the Series-X the wheel size can
either be selected from a tyre size table
or, as previous, set in millimetres.
This makes setting the wheel size more
convenient.

20 x 1,75
24 x 1 ³/₈
30 – 622
37 – 622

Variable service intervals

Separate service intervals can be set
for two bikes.
Once the set number of kilometres*
is reached, the display shows that
a bike service** is needed.
This function can also be switched off.
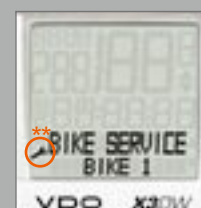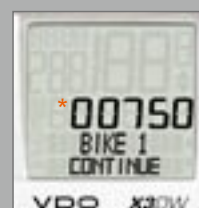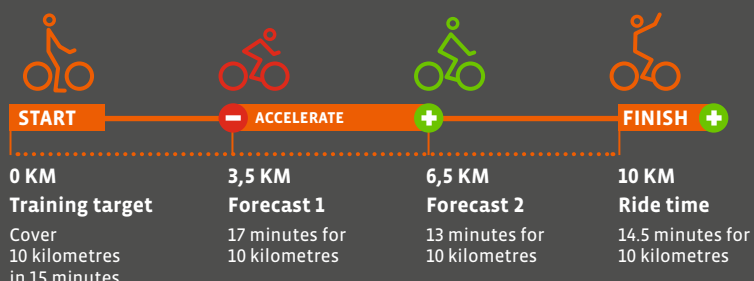
New stopwatch functions

Besides stopwatch, countdown, timer 1, timer 2,
timer 1+2, the Series-X features a time trial timer
and a lap timer.

On the time trial timer the time trial distance
is entered. After the start the timer works out
the expected time required and shows the
distance still to be cycled. The data is updated
every 3 seconds.
The lap timer saves the time, the distance cycled
and the average for 30 laps.
The laps can either be started manually or
automatically after reaching a defined distance.

Time Trial Timer

START	ACCELERATE		FINISH
0 KM	3,5 KM	6,5 KM	10 KM
Training target	**Forecast 1**	**Forecast 2**	**Ride time**
Cover 10 kilometres in 15 minutes	17 minutes for 10 kilometres	13 minutes for 10 kilometres	14.5 minutes for 10 kilometres

Lap Timer

STOP LAPS MANUALLY

STOP LAPS AUTOMATICALLY

L 1   L 2   L 3

L 1   L 2   L 3
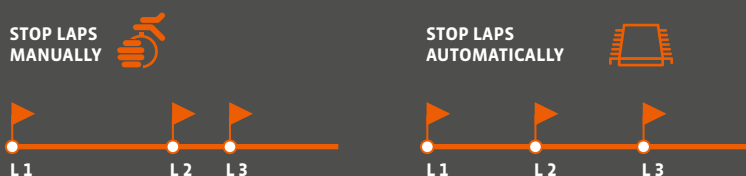
Familiar handlebar mount

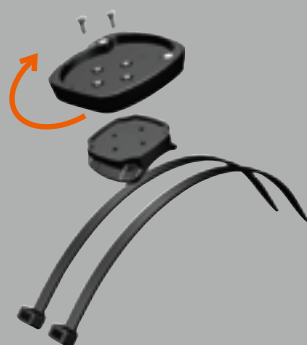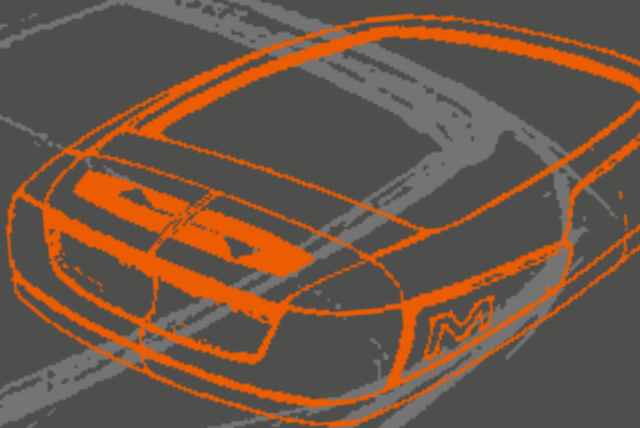The Series-X comes with the familiar universal mount. The universal mount can either be fitted on the handlebars or the stem. The mount is fixed quickly and simply with cable ties.

Racy design

Taste can divide opinions. For the new Series-X we asked the designer for racy lines and great curves. Decide for yourself. We think the Series-X has a good profile.

Data saved when changing battery*

When the battery is changed, all settings (wheel size) and all data (total kilometres, ride time) are saved. A permanent memory ensures that the data is not lost even if the battery fails.
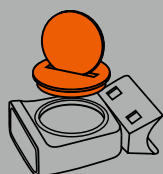
PERMANENT MEMORY

IN CASE OF
BATTERY CHANGE

IN CASE OF
BATTERY FAILURE
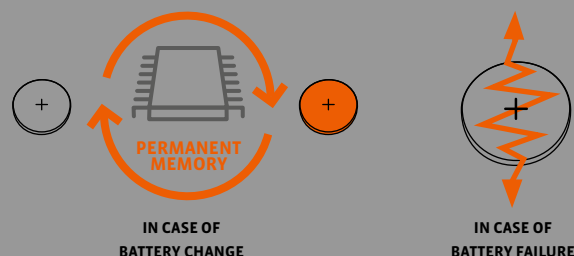
* n/a for models X1 and X1DW

Speed transmitter

The speed transmitters has a sliding switch in the battery compartment. The sliding switch is used to set the transmitter to bike 1 or bike 2. The computer then automatically detects the transmitter from bike 1 or bike 2.

Battery compartment

Sliding switch
for setting BIKE 1 / BIKE 2

BIKE 2
BIKE 1

BIKE 2
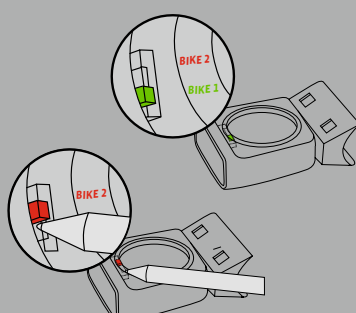
New SSB SMART SET BOX

For the Series-X we have developed the Smart Set Box. The SSB sets the computer for you in no time at all. Language, time, wheel size and total kilometres can be set by pressing a few buttons. Setting the computer now takes just seconds.
You can also do the RESET with the SSB.
The SSB can be used to do an overall reset, kilometres or ride time reset, just as you please.
Furthermore you can use the SSB as a test station in the workshop.

X1
Item No.: 7101

X2
Item No.: 7102

The complete entry-level model with simple operation

The intelligent tourer

Cycling Functions

- current speed
- trip distance
- total kilometres bike 1 / bike 2 / totals
- ride time
- average speed
- maximum speed
- clock

Further Features

- EMC menu operation system
- FULL TEXT with 7 languages D, GB, F, I, E, NL, PL
- sleep mode (switches off display)
- variable service intervals for BIKE 1 and BIKE 2
- wheel sizes can be set using tyre size or manually in mm
- can be used for 2 bikes

For dealers

- can be set using SSB SMART SET BOX

Cycling Functions

- current speed
- trip distance
- total kilometres bike 1 / bike 2 / totals
- ride time
- total ride time bike 1 / bike 2 / totals
- average speed
- maximum speed
- stopwatch
- navigator (2nd programmable daily kilometre counter, counts forwards or backwards)
- clock

Further Features

- EMC menu operation system
- FULL TEXT with 7 languages D, GB, F, I, E, NL, PL
- sleep mode (switches off display)
- stopwatch indicator, shows running stopwatch
- variable service intervals for BIKE 1 and BIKE 2
- wheel sizes can be set using tyre size or manually in mm
- can be set for 2 bikes

For dealers

- can be set using SSB SMART SET BOX

X1DW
Item No.: 7111

X2DW
Item No.: 7112

X3DW
Item No.: 7113

The digital wireless entry-level model

The intelligent tourer – with digital wireless

The super sports computer

Cycling Functions
- current speed
- trip distance
- total kilometres bike 1 / bike 2 / totals
- ride time
- average speed
- maximum speed
- clock

Wireless
- **digital, encoded wireless transmission "Digital Wireless" DW, Double Wireless for speed and cadence (option)**
- automatic pairing,
- automatic bike recognition for bike 1 / bike 2

Further Features
- EMC menu operation system
- FULL TEXT with 7 languages D, GB, F, I, E, NL, PL
- sleep mode (switches off display)
- variable service intervals for BIKE 1 and BIKE 2
- wheel sizes can be set using tyre size or manually in mm
- can be set for 2 bikes

For dealers
- can be set using SSB SMART SET BOX

Cycling Functions
- current speed
- trip distance
- total kilometres bike 1 / bike 2 / totals
- ride time
- total ride time bike 1 / bike 2 / totals
- average speed
- maximum speed
- stopwatch
- navigator (2nd programmable daily kilometre counter, counts forwards or backwards)
- clock

Wireless
- **digital, encoded wireless transmission "Digital Wireless" DW, Double Wireless for speed and cadence (option)**
- automatic pairing,
- automatic bike recognition for bike 1 / bike 2

Further Features
- EMC menu operation system
- FULL TEXT with 7 languages D, GB, F, I, E, NL, PL
- sleep mode (switches off display)
- stopwatch indicator, shows running stopwatch
- variable service intervals for BIKE 1 and BIKE 2
- wheel sizes can be set using tyre size or manually in mm
- can be set for 2 bikes

For dealers
- Can be set using SSB SMART SET BOX

Cycling Functions
- current speed
- trip distance
- total kilometres bike 1 / bike 2 / totals
- ride time
- total ride time bike 1 / bike 2 / totals
- average speed
- maximum speed
- stopwatch
- timer 1, timer 2
- timer 1+2 with up to 99 repetitions
- countdown timer
- time trial timer with variable distance
- lap timer for 30 laps, time, distance,
- average per lap, start lap automatically or manually
- navigator (2nd programmable daily kilometre counter, counts forwards or backwards)
- wake-up alarm, variable wake-up or reminder alarm
- clock

Wireless
- **digital, encoded wireless transmission "Digital Wireless" DW, Double Wireless for speed and cadence (option)**
- automatic pairing
- automatic bike recognition for bike 1 / bike 2

Further Features
- EMC menu operation system
- FULL TEXT with 7 languages D, GB, F, I, E, NL, PL
- sleep mode (switches off display)
- stopwatch indicator, shows running timer
- beeper for timer and wake-up alarm
- variable service intervals for BIKE 1 and BIKE 2
- wheel sizes can be set using tyre size or manually in mm
- can be set for 2 bikes

For dealers
- can be set using SSB SMART SET BOX

	X1	X2	X1 DW	X2 DW	X3 DW
WIRELESS FUNCTIONS					
digital wireless transmission speed			■	■	■
digital wireless transmission cadence (option)			■	■	■
automatic pairing			■	■	■
automatic bike recognition bike 1 / bike 2			■	■	■
for dealers: basic settings using SMART SET BOX and test station		■	■	■	■
CYCLING FUNCTIONS					
current speed	■	■	■	■	■
trip distance	■	■	■	■	■
ride time	■	■	■	■	■
total ride time bike 1		■		■	■
total ride time bike 2		■		■	■
total combined ride time		■		■	■
average	■	■	■	■	■
comparison of average to current speed	■	■	■	■	■
max. speed	■	■	■	■	■
stopwatch		■		■	■
timer 1					■
timer 2					■
timer 1+2					■
countdown					■
time trial timer					■
lap timer (30 laps)					■
navigator (2nd trip distance counter, variable)		■		■	■
total kilometres combined	■	■	■	■	■
total kilometres bike 1	■	■	■	■	■
total kilometers bike 2	■	■	■	■	■

	X1	X2	X1 DW	X2 DW	X3 DW
clock	■	■	■	■	■
alarm					■
current cadence			■	■	■
average cadence			■	■	■
maximum cadence			■	■	■
FURTHER FEATURES					
EMC menu operation system	■	■	■	■	■
FULL TEXT with 7 languages D / GB / F / I / E / NL / PL	■	■	■	■	■
variable service intervals for bike 1 and bike 2	■	■	■	■	■
sleep mode	■	■	■	■	■
can be used for 2 bikes	■	■	■	■	■
wheel sizes can be set using integrated tyre size or manually in mm	■	■	■	■	■
data buffering during battery replacement		■		■	■

General – X1 / X1DW / X2 / X2DW / X3DW
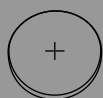
BAT 3V
Item No.: 1013

Battery 3V, Type 2032
Contents of packaging: Battery 3V

CMAG S / M
Item No.: 4410

Clip-Magnet S/M for round spokes up to 2,3 mm/ flat spokes up to 3,4 mm.
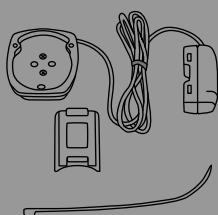**Contents of packaging:** Clip magnet

CMAG L / XL
Item No.: 4412

Clip-Magnet L/XL for round spokes up to 3,2 mm/ flat spokes up to 5,4 mm.
Contents of packaging: Clip magnet

Wired models – X1 / X2

UMW 75
Item No.: 5502

Universal mount for handlebars and stem
Cable length: 0.75 m
Contents of packaging:
1   universal mount with cable and sensor,
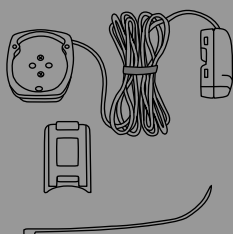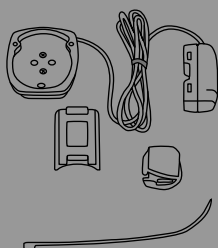1   rubber pad, cable ties

---

UMW 150
Item No.: 5504

Universal mount for handlebars and stem
Cable length: 1.5 m
Contents of packaging:
1   universal mount with cable and sensor,
1   rubber pad, cable ties

UMW KIT
Item No.: 5505

Assembly kit cables,
including magnet
Contents of packaging:
1   universal mount with cable and sensor,
1   rubber pad,
1   clip magnet, cable ties

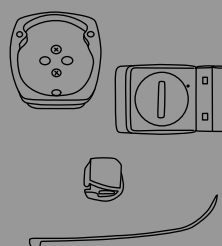## Wireless models – X1DW / X2DW / X3DW

X-SENDER
Item No.: 7701

WIRELESS

Transmitter for Series-X,
Digital speed transmitter,
including battery 3V
Contents of packaging:
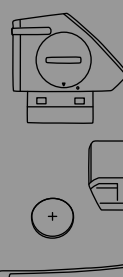1   digital transmitter,
1   battery 3V,
    cable ties

UMWL-KIT X
Item No.: 7703

WIRELESS

Assembly kit wireless Series-X,
including magnet
Contents of packaging:
1   universal mount,
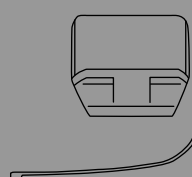1   X-transmitter including 3V battery,
1   clip magnet,
    cable ties

X-CAD-KIT
Item No.: 7702

WIRELESS

X - CAD - KIT for Series-X,
Digital wireless cadence add-on
including transmitter, cadence magnet
and 3V battery
Contents of packaging:
1   cadence transmitter,
1   3V battery,
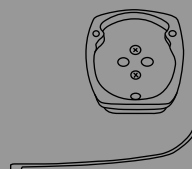1   cadence magnet,
    cable ties

CAD-MAG
Item No.: 4411

WIRELESS

Cadence magnet for assembly on the foot pedal, for Series-X DW
Contents of packaging:
1   cadence magnet,
    cable ties

UMWL
Item No.: 5503

WIRELESS

Universal mount for handlebars and stem
wireless
Contents of packaging:
1   universal mount,
    cable ties

If you're looking for something extra ...

THE SERIES-Z

In the Series-Z we bring you computer models with heart rate measurement, altitude measurement, cadence and PC analysis. The Series-Z is aimed at ambitious cyclists who wants to check their performance and also document and analyse it with the PC-Link models. All models in the Series-Z come with 3-channel, 2.4 GHz digital wireless technology for speed, heart rate and cadence. For the wireless protocol we rely on the established ANT+ protocol. This makes the models in the Series-Z compatible with products from other suppliers, which also use the ANT+ protocol. Innovative, top-class design makes the new Series-Z models into real head-turners. Besides the bike, heart rate, cadence and altitude functions, the Series-Z models also measure performance in WATT and calculate calorie consumption. The comprehensive PC evaluation program enables trips to be analysed in detail and allows individual training to be planned.

ANT+ is registered trademark of Dynastream Inc.

Recommended use

Downhill

Freeride

X-Country

Marathon

Road Bike

Track Cycling

Touren / Trekking

City

Commuting

Z1 **Z2** **Z2**
PC-LINK **Z3** **Z3**
PC-LINK

Cycling Functions

- ◉ Current trip data:
  trip distance, ride time,
  average, max. speed
- ◉ Total values (total kilometres,
  ride time, are saved separately
  for 2 bikes)
- ◉ Speed display with 0.1 decimal place
- ◉ Ride time counter up to 24 hours,
  with auto start / stop during breaks
- ◉ 2nd daily distance counter, freely
  adjustable, counts forwards or
  backwards
- ◉ Total kilometres can be set

Altitude measurement

- ◉ Gain / loss in altitude
- ◉ Annual altitude difference uphill and downhill
  separate for bike 1 / bike 2 / hiking mode
- ◉ Annual altitude difference can be set
- ◉ Distance cycled uphill and downhill
- ◉ Current altitude / gradient / temperature
  permanently displayed
- ◉ Average / max. gradient uphill / downhill
- ◉ Simple starting altitude recalibration (button short cut)
- ◉ Possible to adjust the current altitude

Heart rate measurement

- 3 training zones can be defined
- Training zones automatically calculated based on personal HRmax or can be set individually
- Personal HRmax automatically calculated based on personal details or can be set individually
- Current heart rate is also shown as % of HRmax (enables easy check on training specification)
- Calorie consumption display
- Recovery heart rate and recovery time measurement, both methods can be selected
- Wattage, displays current performance in Watt
- Display of training times in, under and above the set training zone
- Acoustic warning when going over or below the set training zone limits (can be switched off)

**FOR SERIES-Z:
SOFT BELT
HEART RATE TRANSMITTER**

COMFORT GEAR

Soft Belt is a conductive and elastic strap material providing supreme wearing comfort

- Soft Belt easily fits to any body shape
- No pressure spots caused by hard plastics
- Perfect fit even for women's extra small sizes

Technical Specifications:

- Radio frequency: 2.4 GHz
- Transmission Protocol: ANT+
- Fits: Z2, Z2 PC-Link, Z3, Z3 PC-Link

Transmitter front view

Transmitter rear view

All information quickly at hand

Operating concept

- Clear allocation of functions to certain buttons
- Button A: Altitude functions
- Button P: Heart ratefunctions and timer
- Button 1: Bike functions for current trip
- Button 2: Bike functions, totals from all trips
- Button STW: Start / stop the selected timer
- Buttons with clearly defined pressure point, can even be operated with gloves
- Menu-controlled EMC system in setting mode
- Reply from system when setting is finished

A | Altimeter Functions

- current altitude
- current gradient uphill / downhill
- current temperature
- day's altitude difference uphill / downhill
- day's distance uphill / downhill
- annual altitude difference uphill / downhill
- highest point
- daily / annual value
- average gradient uphill / downhill
- max. gradient uphill / downhill

Permanently in display

- speed
- heart rate
- altitude
- temperature
- gradient
- cadence**
- comparison of average to current speed

Heart Rate Functions | **P**

- current heart rate
- timer (6 timers can be selected)
- average pulse
- max. pulse
- heart rate as % of max. hr
- times in, over and under the limit
- calorie consumption
- wattage
- recovery pulse / recovery time

1 | Cycling Functions

- current speed
- trip distance
- ride time
- average
- maximum
- cadence*
- average cadence
- maximum cadence

* On Z3 / Z3 PC-Link
** Varies according to model

**Start / stop
all Timer Functions**

START/STOP

Total values

2

- clock
- navigator (2nd daily distance counter)
- total km bike 1
- total km bike 2
- total km bike 1+2
- ride time bike 1
- ride time bike 2
- total ride time bike 1+2

Timer

- 6 different timers can be selected depending on the training situation
- All timers can be programmed up to 24 hrs
- Stopwatch
- Countdown
- Timer 1
- Timer 2
- Timer 1+2 (combination for interval training, number of interval repetitions can be set)
- Lap timer for 50 laps, for each lap the following is saved: lap time, average heart rate, average speed. Lap data is saved separately from normal data when recorded (PC-Link models)

From biking to hiking

Hiking mode

VDO Series-Z has been developed as cycle computer that can also be used for hiking, running, walking and other sports.

- **All models can be switched from bike mode to hiking mode**
- For hiking mode the computer can be changed into a sports watch with a precisely fitting wrist strap.
- Heart rate measurement is fully available in hiking mode
- In hiking mode, metres walked uphill and downhill are saved in the special hiking mode memory.
- The results can be accessed separately and set after a battery change for example
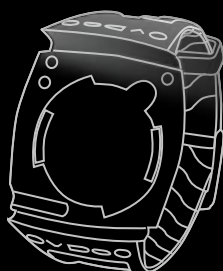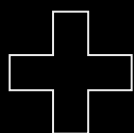
Cadence

- All models can be retrofitted with cadence
- Current cadence / average cadence / max. cadence
- With cadence: possible to display Watts on models Z1, Z3, Z3 PC-Link

Service interval display

Individually variable service intervals, separate for bike 1 / bike 2

Universal handlebar mount

For assembly on handlebars or stem quick assembly with cable ties

Battery life-span

With three-channel wireless reception, the battery in the computer lasts approx. 4.000 til 6.000 KM, whilst the batteries in the transmitters last between 8.000 KM and 12.000 KM

Watt Display (Virtual Power)

- Watt display using mathematical algorithm with variable factors
  – Weight
  – Roll resistance (via tyre type)
  – Air resistance (via seating position)
- Under the same conditions, comparable wattages, training progress / time analysis is possible

VARIABLE CONDITIONS

ALGORITHM

W

Cadence

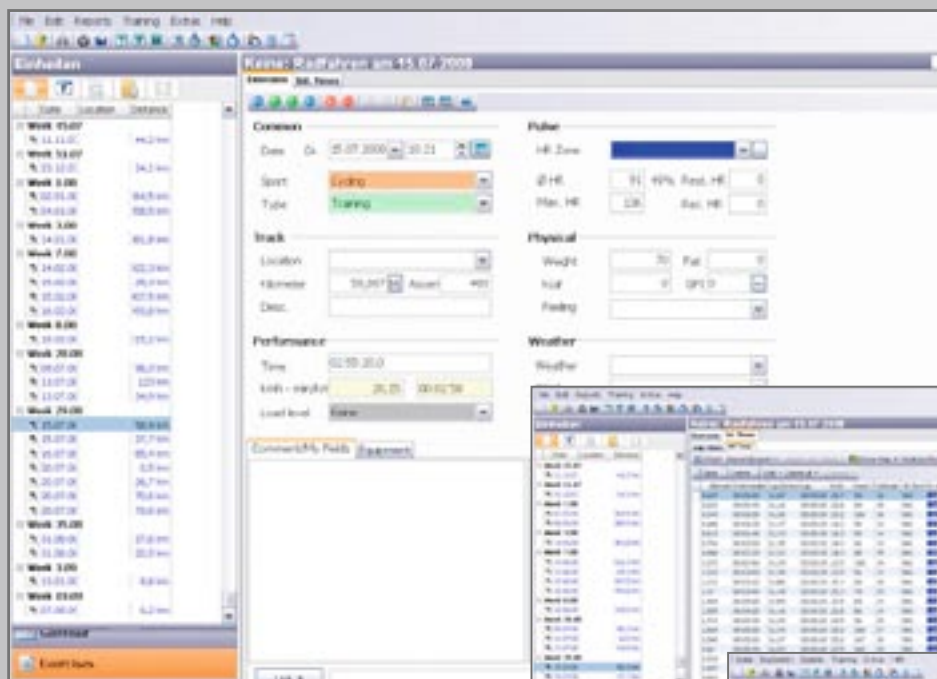Wattage

CALCULATION

Wireless transmission

ANT+
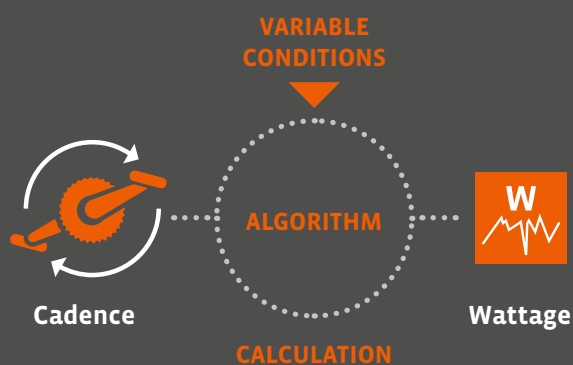
- Fully digital 3-channel wireless transmission for speed, heart rate and cadence
- ANT+ wireless protocol: extremely fast and secure wireless protocol
- 2.4 GHz radio frequency: very reliable frequency
- Compatible with other devices that also use the ANT+ wireless protocol
- Fixed transmitter pairing for 5 transmitters (bike 1 / bike 2 / cadence 1 / cadence 2 / heart rate) (Pairing remains in place until next battery change).
- Data update after radio interference, up to 60 seconds
- Large signal range

NO INTERFERENCE POSSIBLE

STOP

STOP

NO INTERFERENCE POSSIBLE

INTEGRATED RECEIVER

ENCODED DATA TRANSMISSION

DATA SAVED AND ENCODED

0100110100110101
00110100110101
10100110101
010011010
0100110
10011
01

010011010
0100110
10011
01

0100110100110101
00110100110101
10100110101
010011010
0100110
10011
01

CADENCE TRANSMITTER

PULSE TRANSMITTER

SPEED TRANSMITTER

MAGNET-IMPULS

**MAGNET**

PC analysis software

Recorded Data, each set of data adjustable

The models Z2 PC-Link and Z3 PC-Link are supplied with the analysis software PC-Sport

- ◉ Suitable for Windows XP, Vista 32-bit, Vista 64-bit
- ◉ Can be installed on MAC with Boot Camp or virtual PC software
- ◉ Set up any number of users (e.g. cycling club)
- ◉ Data from each separate recorded dataset can be individually processed
- ◉ Display data in graphic form either on time axis or distance / distance axis
- ◉ Graphic display can be freely configured
- ◉ Zoom function in graphic display enables detailed analysis
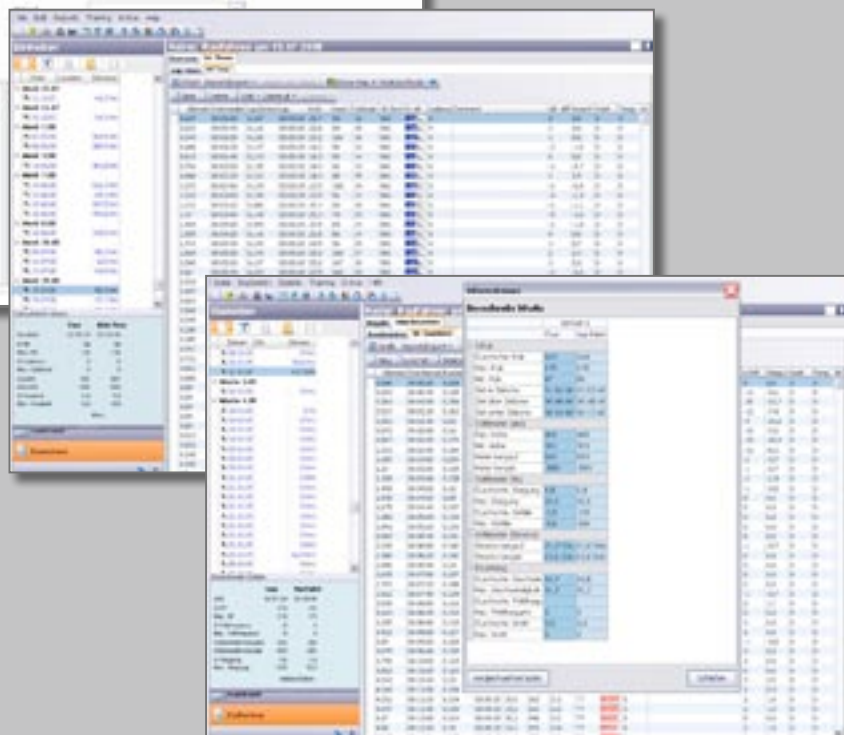
Summary of Trip

- A data editor can be added to the graph. In the data editor, the data belonging to the graph are shown if you move over the graph with the mouse
- From the graph, a double click brings you to the dataset table for the dataset clicked on in the graph
- 2 training units can be compared with each other in table or graph form
- Several training units (e.g. morning / afternoon) can be put together to make one unit
- Training blocks can be defined for different types of sport (e.g. triathlon)
- Course manager allows training courses to be managed
- Equipment manager allows bikes used in training to be managed
- Extensive training analysis possible: period analysis, strain analysis, strain styles analysis
- Training planning / comparison of plan to actual
- Simple operation
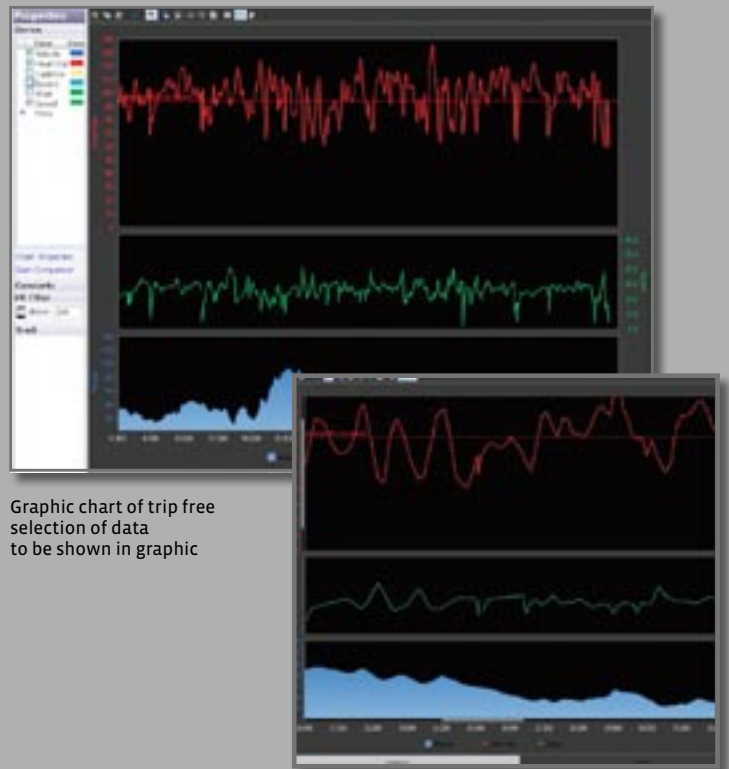
Graphic chart of trip free selection of data to be shown in graphic

Graph with zoom window and data editor
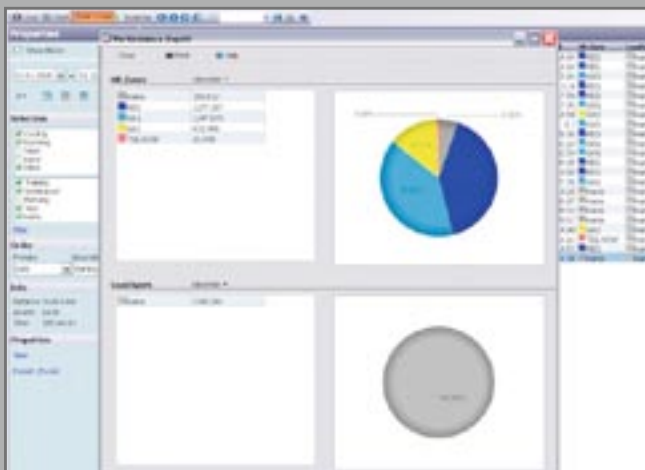
Exercise statistics for defined period
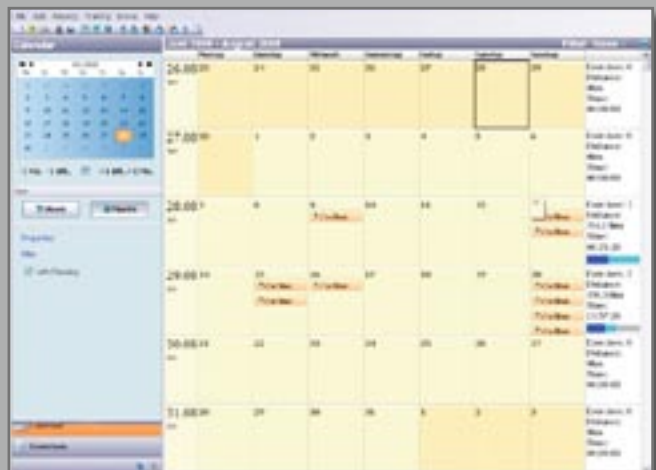
Calendar-Display, showing training sessions

Data recording on the PC-Link models

- 2 recording intervals can be selected: 10 seconds / 20 seconds
- Memory capacity: 100 hours with 20 second interval, 68 hours with 10 second interval
- Recording stop during breaks, automatic continuation of recording after a break

Z1
Item No.: 6000 Z1

SEHR GUT
Issue 04/08

*

Z2
Item No.: 6005 Z2

Z2 *PC-LINK*
Item No.: 6010 Z2 PC

The mountaineer

The Z1 features bike and altimeter functions. The Z1 is the legitimate successor to the MC 1.0+. The Z1 offers digital wireless transmission plus cadence (as an option). In the altimeter area the Z1 provides more extensive information than the MC 1.0+.

Cycling Functions
- Current / ave. / max. kmh
- ride time (total bike 1 / bike 2 / bike 1+2)
- trip (total bike 1 / bike 2 / bike 1+2)
- 2nd trip distance
- cadence current / avg. / max. (option)
- power measurement (watt)
- 5 different training timers can be selected

Altimeter Functions
- current altitude / gradient / temperature
- altitude difference uphill / downhill
- distance uphill / downhill
- average / max. gradient uphill / downhill
- highest point current / all trips
- annual altitude difference uphill / downhill
- hiking / jogging / nordic walking mode can be set
- also records altitude in hiking mode

Further Features
- 2-channel digital wireless on 2.4 GHz for speed and cadence
- 6 functions at a time on the display
- 7 languages can be selected
- sleep mode
- clock / alarm
- service interval display (programmable)
- for use on two bikes
- hiking mode can be selected
- can be worn as a sports watch with wrist strap

Have your finger on the pulse

The Z2 features bike and heart rate functions. The Z2 is aimed at all keen cyclists who want to monitor and document their performance without altitude measurement.

Cycling Functions
- current / avg. / max. kmh
- ride time (total bike 1 / bike 2 / bike 1+2)
- trip (total bike 1 / bike 2 / bike 1+2)
- 2nd trip distance
- cadence current / ave. / max. (option)

Heart Rate Functions
- current / average / maximum heart rate
- heart rate as a % of personal max. heart rate
- 3 training zones can be set
- training times in, over and under the limit
- 6 different training timers can be selected
- lap timer for 50 laps
- calorie consumption
- recovery measurement (time or target heart rate)

Further Features
- 3-channel digital wireless on 2.4 GHz for speed, heart rate and cadence
- up to 5 functions at a time on the display
- 7 languages can be selected
- sleep mode
- clock / alarm
- service interval display (programmable)
- for use on two bikes
- hiking mode can be selected
- can be worn as a sports watch with wrist strap

* **Z2 PC-Link**

All functions as on Z2, plus

- data memory for up to 100 hours ride time
- 2 recording intervals can be selected 10 sec. / 20 sec.
- comprehensive software for PC data-Analysis
- Docking station for PC download

Issue 03/09

Z3
Item No.: 6015 Z3

Z3 *PC-LINK*
Item No.: 6020 Z3 PC

Control is better

The Z3 features bike, heart rate and altimeter functions.
With optional cadence, power measurement in watts is also available.

Cycling Functions

- current / avg. / max. kmh
- ride time (total bike 1 / bike 2 / bike 1+2)
- trip (total bike 1 / bike 2 / bike 1+2)
- 2nd trip distance
- cadence current / avb. / max. (option)

Heart Rate Functions

- current / average / maximum heart rate
- heart rate as a % of personal max. heart rate
- 3 training zones can be set
- training times in, over and under the limit
- 6 different training timers can be selected
- lap timer for 50 laps
- calorie consumption
- recovery measurement
  (time or target heart rate)
- power measurement (Watt)

Altimeter Functions

- current altitude / gradient / temperature
- altitude difference uphill / downhill
- distance uphill / downhill
- average / max. gradient uphill / downhill
- highest point current / all trips
- annual altitude difference uphill / downhill
- also records altitude in hiking mode

Further Features

- 3-channel digital wireless on 2.4 GHz
  for speed, heart rate and cadence
- 6 functions at a time on the display
- 7 languages can be selected
- sleep mode
- clock / alarm
- service interval display (programmable)
- for use on two bikes
- hiking mode can be selected
- can be worn as a sports watch with wrist strap

### ** Z3 PC-Link

  All functions as on Z3, plus
- data memory for up to 100 hours ride time
- 2 recording intervals can be selected
  10 sec. / 20 sec.
- comprehensive software for PC data analysis
- Docking station for PC download

CYCLING FUNCTIONS

	Z1	Z2	Z2 PC-LINK	Z3	Z3 PC-LINK
PC analysis			■		■
digital wireless transmission speed	■	■	■	■	■
digital cadence option		■	■	■	■
current speed		■	■	■	■
trip distance		■	■	■	■
total distance		■	■	■	■
total distance bike 1		■	■	■	■
total distance bike 2		■	■	■	■
current ride time		■	■	■	■
total ride time bike 1		■	■	■	■
total ride time bike 2		■	■	■	■
total ride time combined		■	■	■	■
average KMH		■	■	■	■
comparison KMH / to average		■	■	■	■
max. speed		■	■	■	■
Second trip distance counter		■	■	■	■
clock		■	■	■	■
stopwatch		■	■	■	■
countdown with beeper		■	■	■	■
timer 1, timer 2, timer 1+2 with beeper		■	■	■	■
lap timer (50 laps)		■	■	■	■
2 wheel sizes		■	■	■	■
auto start / stop		■	■	■	■

HEART RATE FUNCTIONS

	Z1	Z2	Z2 PC-LINK	Z3	Z3 PC-LINK
current heart rate		■	■	■	■
average heart rate		■	■	■	■
maximum heart rate		■	■	■	■
current heart rate as percentage of max. heart rate		■	■	■	■
wattage	■				
time in training zone		■	■	■	■
time under training zone		■	■	■	■
time above training zone		■	■	■	■
recovery pulse		■	■	■	■

	Z1	Z2	Z2 PC-LINK	Z3	Z3 PC-LINK
recovery time		■	■	■	■
calorie consumption		■	■	■	■
display LOW and HIGH limit setting		■	■	■	■
programmable training zones		3	3	3	3
optical signal for heart rate transmission		■	■	■	■
acoustic signal if over/under limit		■	■	■	■

ALTIMETER FUNCTIONS

	Z1	Z2	Z2 PC-LINK	Z3	Z3 PC-LINK
current altitude	■			■	■
current gradient	■			■	■
current temperature	■			■	■
altitude difference uphill	■			■	■
distance uphill	■			■	■
maximum altitude	■			■	■
average gradient	■			■	■
max. gradient	■			■	■
annual altitude difference 1/2	■			■	■
maximum annual altitude 1/2	■			■	■
annual downhill difference 1/2	■			■	■
altitude difference downhill	■			■	■
distance downhill	■			■	■
average descent	■			■	■
max. descent	■			■	■
variable home altitude	■			■	■
recalibrate home altitude	■			■	■
hiking mode / jogging mode	■	■	■	■	■

FURTHER FEATURES

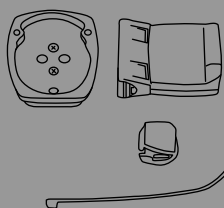|	Z1	Z2	Z2 PC-LINK	Z3	Z3 PC-LINK
7 languages full text	■	■	■	■	■
service interval display	■	■	■	■	■
stopwatch indicator		■	■	■	■
sleep Mode	■	■	■	■	■
total kilometres can be set	■	■	■	■	■
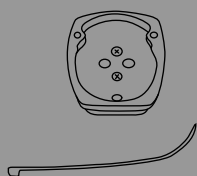
UMWL
Item No.: 5503

Universal mount for handlebars and stem
wireless
Contents of packaging:
1 universal mount,
cable ties

UMWL-KIT Z
Item No.: 6601

Mount-Kit wireless Series-Z
including magnet
Contents of packaging:
1 universal mount,
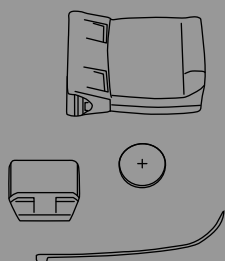1 Z-speed transmitter incl. battery 3V
1 clip magnet,
cable ties

Z-SENDER
Item No.: 6602

Transmitter for Series-Z,
digital wireless speed transmitter
incuding battery 3V
Contents of packaging:
1 digital speed transmitter,
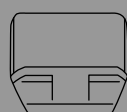1 battery 3V 2032,
cable ties

Z-CAD-KIT
Item No.: 6603

Series-Z CAD – digital wireless
cadence option, for Series-Z
incl. transmitter, cadence magnet
and battery 3V
Contents of packaging:
1 digital cadence transmitter,
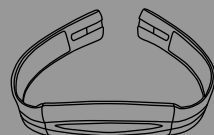1 battery 3V 2032,
1 cadence magnet,
cable ties

CAD-MAG
Item No.: 4411

Cadence magnet for assembly on the
crank, for Series-Z
Contents of packaging:
1 cadence magnet,
cable ties
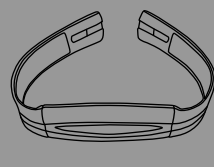
ONLY Z2/Z2 PC-LINK, Z3/Z3 PC-LINK!

PULSE Z
Item No.: 6604

Series-Z Pulse – chestbelt transmitter, digital
Contents of packaging:
1 chestbelt transmitter digital, incl. battery

ONLY Z2/Z2 PC-LINK, Z3/Z3 PC-LINK!

PULSE KIT Z
Item No.: 6605

Series-Z Puls – chestbelt transmitter
and elastic strap
including battery
Contents of packaging:
1 Chestbelt transmitter incl. battery
1 elastic strap

ONLY Z2/Z2 PC-Link, Z3/Z3 PC-Link!

ELASTIK Z
Item No.: 6606

Elastic strap for Pulse-transmitter Series-Z
Contents of packaging:
1 elastic strap

ONLY Z2/Z2 PC-Link, Z3/Z3 PC-Link!

COMFORT GEAR
Item No.: 6610

Soft Belt Pulse – chestbelt transmitter
Contents of packaging:
1 chestbelt transmitter, incl. battery
1 elastic strap

Z-WRIST
Item No.: 6607-S (Black)
Item No.: 6607-B (Brown)

ONLY Z2/Z2 PC-Link, Z3/Z3 PC-Link!

Wrist band holder „Black"
Contents of packaging:
1 wrist band holder black

ONLY Z1!

Wrist band holder „Brown"
Contents of packaging:
1 wrist band holder brown

Z-WRIST-LOCK
Item No.: 6608-S (Black)
Item No.: 6608-B (Brown)

ONLY Z2/Z2 PC-Link, Z3/Z3 PC-Link!

Lid-Lock for wristband „Black"
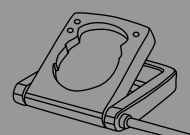**Contents of packaging:**
1 Lid-Lock black

ONLY Z1!

Lid-Lock for wristband „Brown"
Contents of packaging:
1 Lid-Lock brown

ONLY PC-Link-Modelle

DOCK
Item No.: 6609

Docking Station Series-Z
for Data-Download to PC
Contents of packaging:
1 Docking-Station with USB-connector

BAT 3V
Item No.: 1013

Battery 3V, Type 2032
Contents of packaging: Battery 3V

CMAG S / M
Item No.: 4410

Clip-Magnet S/M for round spokes up to 2,3 mm/
flat spokes up to 3,4 mm.
Contents of packaging: Clip magnet

CMAG L / XL
Item No.: 4412

Clip-Magnet L/XL for round spokes up to 3,2 mm/
flat spokes up to 5,4 mm.
Contents of packaging: Clip magnet

Legends live longer

THE SERIES-HC / -MC

Even after seven years the HC and MC models are still part of the range. The HC still offers excellent value for money for the cost-conscious hobby cyclist looking for a simple bike computer with heart rate measurement.

The MC has achieved reference status in the meantime. This is confirmed by many tests.
The most important altimeter functions, packaged in a timeless design, at good value for money justify the continuation of these legends.
The MC 1.0 is also the only wire-operated computer with altitude measurement.

WIRELESS

triathlon
Tip 3.2004

Issue 6.2007

Issue 9.2005

HC 12.6
Item No.: 2020

Wired speed-input
Analogue wireless HR

MC 1.0
Item No.: 2031

Wired speed input

MC 1.0+
Item No.: 2030

Analogue wireless speed-input

Cycling Functions

- actual speed
- trip counter
- odometer WS 1
- odometer WS 2
- odometer total
- ride timer
- clock
- average speed
- maximum speed
- comparison of actual speed and average speed
- NAVIGATOR second programmable trip counter
- 2 wheel sizes

Heart Rate Functions

- actual heart rate
- heart rate stopwatch
- average heart rate
- maximum heart rate
- time in training zone
- time below training zone
- time above training zone
- beeper for heart rate limits
- high and low limit pre-settable
- visible indication for heart rate transmission

Further Features

- full text display in 7 (selectable) languages
- Service-Interval indicator
- auto start / stop
- sleep mode (display shutdown)
- programmable odometer
- Twist-Click mounting

Contents of packaging

Computer, HRM chest transmitter and elastic strap, Battery 3V 2032, Battery door, handlebar mount with wire and sensor, rubber shim, magnet, cable ties

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Cycling Functions

- actual speed
- trip counter
- odometer WS 1
- odometer WS 2
- odometer total
- ride timer
- clock
- average speed
- maximum speed
- stopwatch
- comparison of actual speed and average speed
- NAVIGATOR second programmable trip counter
- 2 wheel sizes

Altimeter Functions

- actual altitude
- actual gradient
- actual temperature
- altitude gain on actual trip
- maximum altitude reached on trip
- average gradient on trip
- maximum gradient on trip
- total altitude gain on all trips, separate for wheel size 1 / wheel size 2
- maximum altitude reached on all trips, separate for wheel size 1 / wheel size 2
- adjustable home altitude
- recalibration of home altitude
- actual altitude correction mode

Further Features

- Heavy duty wire
- full text display in 7 (selectable) languages
- Service-Interval indicator
- auto start / stop
- sleep mode (display shutdown)
- stop watch indicator
- programmable odometer
- Twist-Click mounting

Contents of packaging

Computer, Battery 3V 2032, Battery door, handlebar mount with Heavy Duty Wire and sensor, rubber shim, magnet, cable ties

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Cycling Functions

- actual speed
- trip counter
- odometer WS 1
- odometer WS 2
- odometer total
- ride timer
- clock
- average speed
- maximum speed
- stopwatch
- comparison of actual speed and average speed
- NAVIGATOR second programmable trip counter
- 2 wheel sizes

Altimeter Functions

- actual altitude
- actual gradient
- actual temperature
- altitude gain on actual trip
- maximum altitude reached on trip
- average gradient on trip
- maximum gradient on trip
- total altitude gain on all trips, separate for wheel size 1 / wheel size 2
- maximum altitude reached on all trips, separate for wheel size 1 / wheel size 2
- adjustable home altitude
- recalibration of home altitude
- actual altitude correction mode
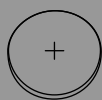
Further Features

- **wireless, analogue speed transmission**
- full text display in 7 (selectable) languages
- Service-Interval indicator
- auto start / stop
- sleep mode (display shutdown)
- stopwatch indicator
- programmable odometer
- Twist-Click mounting

Contents of packaging

Computer, analogue wireless transmitter, Battery 3V 2032, Battery 12V, Battery door computer and transmitter, handlebar mount wireless, rubber shim, magnet, cable ties

CYCLING FUNCTIONS

	MC 1.0	MC 1.0+	HC 12.6
analogue wireless speed		■	
actual speed	■	■	■
trip distance	■	■	■
total distance (Odo)	■	■	■
total distance (Odo) bike 1	■	■	■
total distance (Odo) bike 2	■	■	■
ride time	■	■	■
average speed	■	■	■
comparison of actual to avg. speed	■	■	■
max. speed	■	■	■
2nd trip distance counter	■	■	■
clock	■	■	■
stopwatch	■	■	■
2 settable wheelsizes	■	■	■
auto start / stop	■	■	■

HEART RATE FUNCTIONS

	MC 1.0	MC 1.0+	HC 12.6
analogue wireless heart rate			■
actual heart rate			■
average heart rate			■
maximum heart rate			■
time in HRM-Zone			■
time below HRM-Zone			■
time above HRM-Zone			■
display of upper/lower limit settings			■
settable training zones			1
icon for wireless HRM transmission			■
over/under limit-beeper			■

ALTIMETER FUNCTIONS

	MC 1.0	MC 1.0+	HC 12.6
actual altitude	■	■	
actual gradient	■	■	
actual temperature	■	■	
gain in altitude on trip	■	■	
max. altitude on trip	■	■	
average gradient uphill on trip	■	■	
max. gradient on trip	■	■	
total gain in altitude bike 1+2	■	■	
highest max. altitude bike 1+2	■	■	
adjustable start-altitude	■	■	
re-calibration start-altitude	■	■	

FURTHER FEATURES

	MC 1.0	MC 1.0+	HC 12.6
full text display-7 languages	■	■	■
service-interval-indicator	■	■	■
stopwatch-running-indicator	■	■	■
sleep mode	■	■	■
total distance settable	■	■	■

General – *HC 12.6 / MC 1.0 / MC 1.0+*

BAT 3V
Item No.: 1013

Battery 3V, Type 2032
Contents of packaging: Battery 3V

CMAG S / M
Item No.: 4410

**Clip-Magnet S/M for round spokes up to 2,3 mm/
flat spokes up to 3,4 mm.**
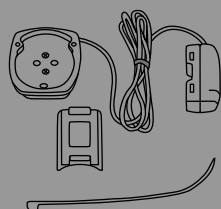**Contents of packaging:** Clip magnet

CMAG L / XL
Item No.: 4412

**Clip-Magnet L/XL for round spokes up to 3,2 mm/
flat spokes up to 5,4 mm.**
Contents of packaging: Clip magnet

Wired Models – *HC 12.6 / MC 1.0*

UMW 75 - HC - MC
Item No.: 5508

Universal Mount for handlebar or stem
Wire: 0,75 m
Contents of packaging:
1   universal mount with wire and sensor,
1   rubber shim, cable ties
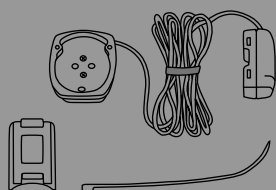
UMW 150 - HC - MC
Item No.: 5510

Universal Mount for handlebar or stem
Wire: 1,5 m
Contents of packaging:
1   universal mount with wire and sensor,
1   rubber shim, cable ties
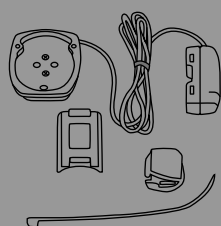
UMW-KIT-HC-MC
Item No.: 5511

**Mount-Kit HC 12.6 / MC 1.0 wired
for handlebar or stem**
Contents of packaging:
1   universal mount with wire and sensor,
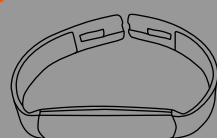1   rubber shim,
1   clip magnet, cable ties
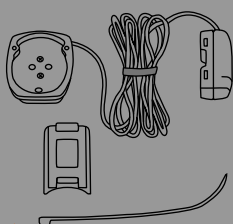
CLH-HEAVY
Item No.: 1028

**Wired mounting Kit
with reinforced wire**
Contents of packaging:
1   handlebar mount with wire and sensor,
1   screw type clamp,
1   rubber shim, cable ties

ONLY HC 12.6!

PULSE-SENDER
Item No.: 1022

Chestbelt transmitter for HC 12.6
Contents of packaging:
1   chestbelt transmitter, incl. battery

ONLY HC 12.6!

PULSE - KIT
Item No.: 1024

**Chestbelt transmitter and elastic strap,
for HC 12.6,**
including battery
Contents of packaging:
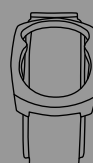1   chestbelt transmitter incl. battery
1   elastic strap

ONLY HC 12.6!

ELASTIK-HC
Item No.: 1023

Elastic strap for Pulse-transmitter HC 12.6
Contents of packaging:
1   elastic strap

ONLY HC 12.6!
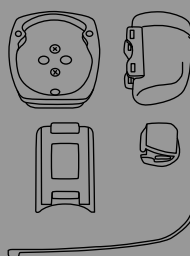
WRIST
Item No.: 1021

Wrist band holder HC12.6 / MC 1.0 / MC1.0+
Contents of packaging:
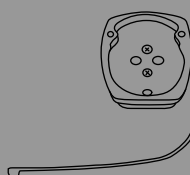1   wrist band holder

Wireless Model – *MC 1.0 +*

UMWL-KIT-MC
Item No.: 5512

WIRELESS

Mount-Kit wireless for MC 1.0+ / C05+
including magnet
Contents of packaging:
1   universal mount wireless and sensor,
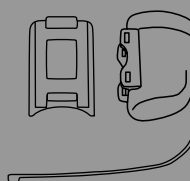1   analogue transmitter,
1   rubber shim,
1   clip magnet, cable ties

UMWL-MC
Item No.: 5509

WIRELESS

**Universal Mount for MC 1.0+ / C05+
for handlebar or stem**
wireless
Contents of packaging:
1   universal mount,
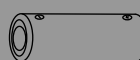   cable ties

WTM
Item No.: 1009

WIRELESS

Analogue transmitter for MC 1.0+ / C05+
Contents of packaging:
1   analogue transmitter,
1   rubber shim,
    cable ties

BAT 12V
Item No.: 1014

WIRELESS

Batterie 12V, Type 23 AE
Contents of packaging: Battery 12V

POS material to boost sales

DEMOBOX Series-A
Item No.: 5513

Small but good!
That's the countertop display for Series-A.
Series-A Demobox is small and compact and
supports your sales in the counter area.
All functions of the wired models can be tested.
Fitted with wired models Series-A:
A4, A8

POSTER Series-A
Item No.: POSTER A

A VDO for any case.
Poster for Series-A.
Dimensions: ca. 120 x 30 cm
Ask for availability
in your language!

DEMOBOX Series-X
Item No.: 7902

The cheapest sales assistant that you employ
in the shop.
The Demobox Series-X actively helps your sales.
All functions on the Series-X can be tested on
the demobox.
Features the models:
X1, X2, X3DW-DEMO
(X3DW wired version for demobox only)

PREMIUM POSTER Series-X
Item No.: 7903

You are a premium VDO dealer.
Bring your premium display up to date with the
Series-X poster.

POS WOBBLER Series-X
Item No.: 7904

The POS wobbler's movement and colour are
attracting your customers to the Series-X shelf.

LARGE POSTER Series-Z
Item No.: 6901

Catches the eye and helps
your sales.
Dimensions: approx. 120 x 30 cm

PREMIUM POSTER Series-Z
Item No.: 6902

You are a premium VDO dealer.
Bring your premium display up to date with the
Series-Z poster.

FLYER Series-Z
Item No.: 6903

The Series-Z flyer, provides quick information
for your customers.
60 in a pack.

BIKE TAG Series-Z
Item No.: 6904

The bike tag discreetly tells your customers
that a Series-Z computer would go well with
this bike. 30 in a pack.

STICKER
Item No.:PREMIUM-STICK.

Premium Dealer Sticker
Show your customers:
We have competence in VDO.

The VDO Test stations

TESTER I (analog)
Item No.: 1017

Fits VDO models HC 12.6, MC 1.0, MC 1.0+, C05, C05+,
and older CYTEC Series.
Test of analogue transmission possible

Suitable for following models:
C05/C05+
HC 12.6
MC 1.0
MC 1.0+

SSB SMART SET BOX for Series-X
Item No.: 7901

With the SSB, all models in the Series-X can be
⊙ set (language, time, wheel size, total kilometres)
⊙ reset (trip distance, ride time, total kilometres)
⊙ tested (speed, cadence, transmitter test)

Suitable for following models:
X1
X2
X1DW
X2DW
X3DW

The VDO Service Support

A high-tech product demands a high-class service.
Our customer-service centre will try to make your job
as easy as possible.

Contact us for
⊙ Technical advice
⊙ Instruction manuals
⊙ Specific spare parts
⊙ Help in setting-up
⊙ Help in analysing customer returns
⊙ Help in use of the test stations

This is what we call high-class service for a high tech product.
We help you to proof your competence in VDO.

Telephone hotline

If you need advice, feel free to call
our service hotline (only English).
Just call us and we are available to assist you.

Service Hotline +49 (0) 63 49 - 96 35 - 10

VDO Test Stations

The test stations will help you diagnose warranty returns.
⊙ Does the computer work?
⊙ Does the wireless transmission work?
⊙ What is wrong?

These questions can reliably be answered by using
the test station.

There are various test stations available for the
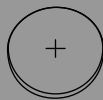various model lines.

⊙ *Tester I (analog)*
⊙ *SMART SET BOX SSB*

General – *C1 / C1DS / C2 / C2DS / C3 / C3DS / C4 / C4DS*

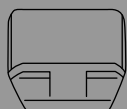### BAT3V
Item No.: 1013

Battery 3V, Type 2032
Contents of packaging: Battery 3V

CMAG S/M
Item No.: 4410

Clip Magnet S/M for round spokes up to 2,3 mm/ flat spokes up to 3,4 mm.
Contents of packaging: Clip magnet
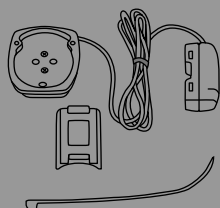
CAD-MAG
Item No.: 4411

Cadence magnet for assembly on the foot pedal
Contents of packaging:
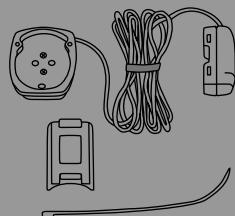1   cadence magnet,
     cable ties

Wired models – *C1 / C2 / C3 / C4*

UMW 75
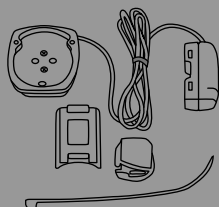**Item No.: 5502**

Universal mount for handlebars and stem
Cable length: 0.75 m
Contents of packaging:
1   universal mount with cable and sensor,
1   rubber pad,
     cable ties

UMW 150
Item No.: 5504

Universal mount for handlebars and stem
Cable length: 1.5 m
Contents of packaging:
1   universal mount with cable and sensor,
1   rubber pad,
     cable ties

UMW-KIT
Item No.: 5505

Assembly kit cables,
including magnet
Contents of packaging:
1   universal mount with cable and sensor,
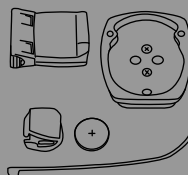1   rubber pad,
1   clip magnet,
     cable ties

Wireless models – *C1DS / C2DS / C3DS / C4DS*

UMWL
Item No.: 5503

Universal mount for handlebars and stem
wireless
Contents of packaging:
1   universal mount, cable ties

DS-KIT
Item No.: 5507

Universal Mount Kit
(second bike kit) including magnet
Contents of packaging:
1   universal mount, wireless
1   DS-speed transmitter Series-C, incl. battery 3V
1   clip magnet, cable ties

DS-CAD-KIT
Item No.: 4402

Digital wireless cadence option
incl. transmitter, cadence magnet and battery 3V
Contents of packaging:
1   digital cadence transmitter,
1   cadence magnet,
1   battery 3V

DS-SENDER
Item No.: 4401

Digital wireless speed transmitter
incl. battery 3V
Contents of packaging:
1   digital speed transmitter,
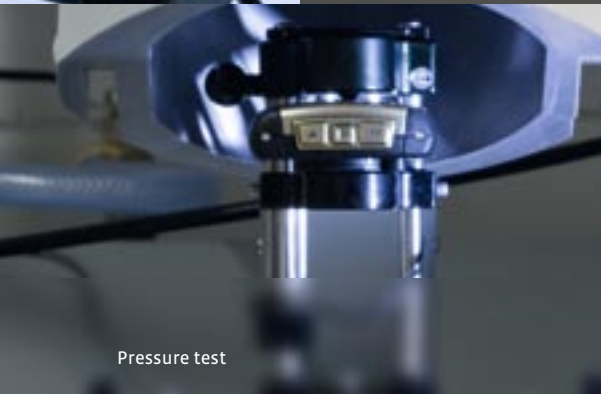1   battery 3V

Rain simulator

VDO QUALITY MANAGEMENT

Abrasion test

Cold chamber

Pressure test

Test station

Pressure chamber

Planned quality

For each new series of models, we are already thinking about the quality during the development stage. Quality criteria are determined for each component and quality tests defined for each phase of production. In addition we have equipped the computers with an automatic test routine. The display, wireless transmission, transmitter pairing and data download are tested automatically. This facilitates the quality control process during and after production.
The wireless transmitters are also tested thoroughly for perfect wireless transmission during manufacture using specially designed test software.

Quality is based in production

Quality has to be produced. To do that successfully, quality controls are continually conducted during the entire production process. Printed circuit boards are checked, displays inspected and receiver chips must show that they can receive data. Only then are all the parts put together to make a model.

Full final inspection

At the end of production, a complete check on the function of each computer is made by our own quality inspection team. Wireless transmission, button function, software check, data download, rain test and climate chamber are just some of the stages in the final inspection.

Functional test before despatch

Only once this final inspection has been passed are the computers prepared for despatch. Before packing, another check is made on each appliance using an automatic test station.

Hans-Joachim Noenen
Managing Director

Petra Jung
Sales Manager

Alexandra Schwarz
Accounting

Kirstin Poth
Domestic Sales

Diana Kratz
Service

Manuella
Wiedemann-Drouy
Foreign Sales

Always at your service!

YOUR VDO TEAM

Headquarters

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www.vdocyclecomputing.com
info@cycleparts.de

Service-Hotline:
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Your national distributor