

LOG3000 BT

Correlator

Technical data sheet

Receiver

Weight:	0.62kg
Dimensions:	175 x 90 x 40mm (without antenna)
Housing:	ABS UL94-0, flame resistant
Impact protection:	Robust shock-resistant silicone cover
Colour of silicone cover:	Dark grey
Protection rating:	IP 54
Ambient temperatures:	
– Storage:	-20°C ... +50°C
– Operation:	-20°C ... +50°C
– Charging:	+5°C ... +40°C
Power supply:	3.6V / 2350mAh / 8Wh, rechargeable lithium-ion accumulator
Operating time:	>12h continuous operation with new, fully charged accumulator
Accumulator charging life:	
– Mains charger:	2h for 90%
– In-car charger:	6h for 90%
Fuse protection:	1.5A, internal
On / off switch:	Push-button with RGB LED ring
LED ring indicator:	Operation on / off, accumulator discharge status
Individual LED indicators:	
– red LED:	Reception strength (RSSI) of red channel
– blue LED:	Reception strength (RSSI) of blue channel
– yellow LED:	Accumulator charging status
Combined data / charging port:	USB micro AB socket
Max. current of USB host (PC):	USB 2.0 or higher 500mA
Data transfer to PC:	Wired via USB 2.0 or wireless via Bluetooth 3.0
Radio technology:	Dual UHF-FM receiver for the red and blue channels in the licence-free 433 MHz ISM band
Sensitivity:	at least -121dBm
Antenna connection:	BNC socket
Antenna (option 1):	Tilt antenna, 433MHz, dipole, λ 1/4, 50 Ω , BNC connector
Antenna (option 2):	Rod antenna, 433MHz, monopole, λ 1/2, 50 Ω , BNC plug



LOG3000 BT

Correlator

Technical data sheet

RED & BLUE transmitters

Weight:	0.62kg
Dimensions:	145 x 85 x 48mm (without antenna)
Housing:	ABS UL94-0, flame resistant
Impact protection:	Robust shock-resistant silicone cover
Colour of silicone cover:	Red or blue
Protection rating:	IP 54
Ambient temperatures:	
– Storage:	-20°C ... +50°C
– Operation:	-20°C ... +50°C
– Charging:	+5°C ... +40°C
Power supply:	3.7V / 1300mAh / 4.6Wh, rechargeable lithium-ion accumulator
Operating time:	>10 h continuous operation with new, fully charged accumulator
Accumulator charging life:	
– Mains charger:	2h for 100%
– In-car charger:	2h for 100%
Fuse protection:	1A, internal
On / off switch:	Push-button with RGB LED ring
LED ring indicator:	Operation on / off, accumulator discharge status
Individual LED indicator:	
– yellow LED:	Accumulator charging status
Combined sensor / charging connection:	DIN 680 6-pole device socket
Sensor type:	vonRoll hydro VIBROPHON
Sensor input voltage range:	20µVpp to 2Vpp
Frequency response:	300Hz to 4Hz
Radio technology:	UHF-FM transmitter in the licence-free 433MHz ISM band
Radio transmission power:	10mW
Transmission frequencies:	
– red channel:	434.625MHz
– blue channel:	433.125MHz
Antenna connection:	RP-SMA socket
Antenna:	Flexible rod antenna, 433MHz, monopole, λ 1/4, 50Ω, RP-SMA plug

