

LOG3000 BT

Correlator

Technical data sheet

Receiver

Weight:	1.4 lb / 0.62 kg
Dimensions:	6.9 × 3.6 × 1.6 inches / 175 × 90 × 40 mm (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:	–4°F to +122°F / –20°C to +50°C
– Operation:	–4°F to +122°F / –20°C to +50°C
– Charging:	+41°F to +104°F / +5°C to +40°C
Power supply:	3.6V / 2350mAh / 8Wh, rechargeable lithium-ion accumulator
Operating time:	>12 h continuous operation with new, fully charged accumulator
Accumulator charging life:	
– Mains charger:	2 h for 90 %
– In-car charger:	6 h 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 –121 dBm
Antenna connection:	BNC socket
Antenna (option 1):	Tilt antenna, 433 MHz, dipole, $\lambda/4$, 50Ω, BNC connector
Antenna (option 2):	Rod antenna, 433 MHz, monopole, $\lambda/2$, 50Ω, BNC plug



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Technical data sheet

RED & BLUE transmitters

Weight:	1.4 lb / 0.62 kg
Dimensions:	5.7 × 3.4 × 1.9 inches / 145 × 85 × 48 mm (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:	–4°F to +122°F / –20°C to +50°C
– Operation:	–4°F to +122°F / –20°C to +50°C
– Charging:	+41°F to +104°F / +5°C to +40°C
Power supply:	3.7V / 1300mAh / 4.6Wh, rechargeable lithium-ion accumulator
Operating time:	> 10h 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:	20 µVpp to 2 Vpp
Frequency response:	300 Hz to 4 Hz
Radio technology:	UHF-FM transmitter in the license-free 433 MHz ISM band
Radio transmission power:	10 mW
Transmission frequencies:	
– red channel:	434.625 MHz
– blue channel:	433.125 MHz
Antenna connection:	RP-SMA socket
Antenna:	Flexible rod antenna, 433 MHz, monopole, $\lambda/4$, 50Ω, RP-SMA plug

