

LOG3000 BT Correlator

Technical data sheet

Receiver

Weight: 1.4 lb. / 0.62kg
Dimensions: 6.9 x 3.6 x 1.6 inches / 175 x 90 x 40mm (without antenna)
Housing: ABS UL94-0, flame resistant
Impact protection: Robust shock-resistant silicone cover
Color 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: >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 license-free 433 MHz ISM band

Sensitivity: at least -121dBm

Antenna connection: BNC socket

Antenna (option 1): Tilt antenna, 433MHz, dipole, $\lambda/4$, 50 Ω , BNC connector

Antenna (option 2): Rod antenna, 433MHz, monopole, $\lambda/2$, 50 Ω , BNC plug



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Technical data sheet

RED & BLUE transmitters

Weight:	1.4 lb. / 0.62kg
Dimensions:	5.7 x 3.4 x 1.9 inches / 145 x 85 x 48mm (without antenna)
Housing:	ABS UL94-0, flame resistant
Impact protection:	Robust shock-resistant silicone cover
Color 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:	>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 license-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, $\lambda/4$, 50Ω, RP-SMA plug

