



Consultix PathFinder CW Receivers

High-end Performance for CW Drive-Testing



Key Features

Frequency: 200 MHz to 3900 MHz
Dual-Port Models
Multi-band Simultaneous Scanning
Built-in Battery

The PathFinder™ is Consultix supreme CW receiver which presents unparalleled performance when it comes to outdoor measurements.

The compact battery-operated device is engineered particularly for outdoor CW drive-test applications and RF environment scanning. Hence, the instrument is designed to deliver very high sampling speeds with superior immunity to interference in crowded RF ambience.

The receiver is supported by the company's WALKVIEW™ data collection applications to automatically test & scan multiple CW signals. Its sampling speed allows scanning multiple bands in parallel while coping with the 40-λ Lee Criteria.

The test results including RSSI levels & location information are mapped on the software and can be archived or exported into a variety of radio planning software tools.

Superior RF

- . Frequency Range: 200 MHz to 3900 MHz
- . Amplitude Accuracy: ±1dB
- . 40-λ Lee Criteria Conformance: Up to 550 samples/second
- . Multi-Channel Scanning up to 12 Channels
- . Distance Sampling Mode with Wheel Trigger Support

WalkView Software

- . Android and Windows versions
- . Samples are tagged with GPS info
- . Works automatically on Google maps
- . Exports results to Atoll, ASSET, Planet, Mapinfo etc.

Specifications	
Frequency Bands	200 MHz to 3.9 GHz
Number of Ports	One (Two optional)
Simultaneous Channels	12 Channels outdoor (High-speed GPS mapping mode) 12 Channels indoor (High-speed indoor time sampling) 10 Channels indoor (Low-speed indoor floor mapping)
Sampling-Speed	High-speed mode: 550 samples / second Low-speed mode: 8 samples/ channel/second
High-speed Indoor Time Sampling	Raw data with time stamp (No plotting)
Low-speed Indoor Floor Mapping	Raw data with indoor position (Manual floor tapping)
Min. Frequency Step	10 KHz
IF Bandwidth	15 KHz (other options available)
Adjacent Channel Rejection	>30 dB (@ 25 KHz) & 40 dB (@100 KHz)
Image Rejection	>50 dB
Input Related Spurious	<-70 dBc (<-50 dBc if Interferer @ 250 KHz to 1 MHz)
Internal Frequency Accuracy	2 ppm
Displayed Average Noise Level	-120 dBm
Maximum measured level	0 dBm
Maximum Input Power	27 dBm
3rd Order IM Products	<-70 dB (@ 2 x -33 dBm inputs)
Level Measurement error	<1.5 dB (95% Confidence Level @ + 25 °C to 30 °C, SNR>16 dB)
Data Averaging	40 Lambda Average (Available in Exported Averaged Data File)
Distance Sampling	Optional Odometer Interface
Interfaces	2 x 50 Ohm SMA Female, USB and DC Socket
AC Charger	Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 2 A
Battery Time	>2 hours @ continuous Operation (Car charger available for extended operation)
Physical	
Enclosure	Industrial, Water and Dust Tight Extruded Aluminum with Silicone Boot Protectors
External Dimensions	H 90 mm (3.54"), W 214 mm (8.42"), D 202 mm (8")
Weight (incl. Battery)	2.3 Kg (5 lb.)
Operating Temperature	-10 to +40 °C
Humidity	>95%
Measurement Collection Software	
Walkview	Multi-channel high-speed outdoor mode. Multi-channel high-speed indoor mode (time sampling raw data without mapping)
Walkview Android-Outdoor	Single-channel high speed outdoor mode
Walkview Android-Indoor	Multi-channel low-speed walk-test mode (Manual floor tapping)
Standard Accessories	
AC Charger, USB Cable, Calibration Certificate and User Manual	

Ordering Information	
Compact high-end Receiver; Single-Port, 200 MHz to 3900 MHz	PathFinder-1
Compact high-end Receiver; Dual-Port, 200 MHz to 3900 MHz	PathFinder-2
Compact high-end Receiver; Single-Port, 200 MHz to 3900 MHz, with odometer interface	PathFinder-1e
Compact high-end Receiver; Dual-Port, 200 MHz to 3900 MHz, with odometer interface	PathFinder-2e
Ruggedized carrying case	PF-HardCase
Car antenna; magnet mount, 3400 to 3700 MHz	MRX-34-CM35
Multi-band car mount antenna (698-3500MHz)	MRX-34-CM1
Car charger	PF-34-CC
Odometer Interface for PathFinder	PF-ODO
PC Walkview license; outdoor CW drive-test mapping and export. (Multi-channel)	WalkView
Android Walkview License; CW walk-test mapping and export. (Multi-channel)	WalkView-Android-Indoor
Android Walkview License; outdoor CW drive-test mapping and export. (1-Channel)	WalkView-Android-Outdoor

Parameters specified @ temperature 23 - 30 C° after 30-minute warm up time (battery 100% charged).

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