



## Consultix Eagle-40 mmWave CW Receiver

### Key Features

24 to 40 GHz Frequency Range  
Car Odometer Interface  
Intuitive Simple User Interface  
Rugged field-convenient form



The Eagle-40™ is Consultix supreme receiver when it comes to mmWave measurements either for CW testing or RF environment scanning.

The compact field-convenient device is engineered with high RF performance and high sampling speed.

The receiver is supported by the company's WALKVIEW™ data collection software either for time sampling or distance sampling (car odometer interface option). Thanks to the odometer interface option which perfectly allows coping with 40-λ Lee criteria by capturing equidistant samples synchronized with the car odometer for highest test integrity and process accuracy.

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: 24 to 40 GHz
- Amplitude Accuracy:  $\pm 1.5$  dB
- 550 samples/second
- 70 dB Interference Blocking
- Distance Sampling Mode with Wheel Trigger Support

### WalkView Software

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

<b>Specifications</b>	
<b>Frequency Parameters</b>	
Frequency Bands	24 to 40 GHz
Sampling Speed	High-speed mode: 550 samples / second
Min. Frequency Step	100 KHz
IF Bandwidth	25 KHz
Frequency Accuracy	0.5 ppm
Frequency Reference Aging	1 ppm
<b>Amplitude Parameters</b>	
Adjacent Channel Rejection	>60 dB (@ 100 KHz)
Input Related Spurious	>70 dBc (-30 dBm interferer @ 1 MHz) >60 dB (-30 dBm interferer @ 100 KHz)
Displayed Average Noise Level	-115 dBm
Maximum measured level	-45 dBm
Maximum Input power	0 dBm
3rd Order IM Products	< -50 dB (@ 2 x -40 dBm inputs)
Level Measurement error	< 1.5 dB (95% Confidence Level @ + 20 °C to 25 °C, SNR>16 dB)
<b>General</b>	
Control	Consultix WalkView SW
Control Interface	USB
RF in port	K-type female (2.92 mm)
Distance Sampling	Optional Odometer Interface
RF Input VSWR	2:1
<b>Power</b>	
Power Supply	Input: 100-240 VAC, 50-60 Hz / Output: 12 VDC, 2A
Power Consumption	15 W
DC Input	Power Jack 2.1 mm ID 5.5 mm OD
<b>Physical</b>	
Operating Temperature	0 to 40 °C (32 to 104 °F)
Humidity	>95%
External Dimensions	(H) 110 mm, (W) 260 mm, (D) 280 mm
Weight (incl. Battery)	3 Kg (6.6 lb.)
Standard Package	Receiver, AC/DC adapter, carrying case, calibration certificate and user manual

Parameters specified @ temperature 23 - 30 C° after 30-minute warm up time

<b>Ordering Information</b>	
Compact mmWave CW Receiver; 24 to 40 GHz	Eagle-40
Odometer Interface for Eagle-40	PF-ODO
Ruggedized carrying case	PF-HardCase
Omni-directional antenna; 24 to 40 GHz, Max. gain 3 dBi	C5G-Acc-OA34
Precision RF cable; 6ft (182 cm), 40 GHz, 2.9mm male to 2.9mm male. 3.7 dB attenuation @ 28 GHz	C5G-Acc-C318
PC Walkview license; outdoor CW drive-test mapping and export. (Multi-channel)	WalkView

**Find us:**

133, St. 17, Mohammed Farid Axis, 11835 New Cairo, Egypt.  
+2 02 25604930 sales@consultixwireless.com