



3943B Monitoring Receiver Direction Finding Option

The 3943B monitoring receiver can be upgraded to a single channel direction finding receiver by adding a direction finding option (including direction finding software and direction finding antenna). The directional option uses a single-channel correlation interferometer algorithm to enable Boda direction estimation for signals with a bandwidth of 20MHz in the frequency band 20MHz-6GHz. The two direction finding antennas used are the 20MHz-700MHz low frequency 8-array direction finding antenna and the 700MHz-6GHz high frequency 7-array direction finding antenna. The specially treated low frequency direction finding antenna has the capability to rival large base antennas for high accuracy single channel correlation interferometer algorithms from 20MHz-200MHz, and the high frequency double layer antenna effectively avoids the effect of array element mutual coupling and has a certain level of interference immunity. With the excellent RF front-end performance, calculation performance makes it has excellent directional accuracy, directional sensitivity, directional time and interface display.

Specifications

Direction Finding Frquency Range	20MHz to 6GHz
DF Accuracy	5° RMS (20MHz to 200MHz) 2° RMS (200MHz to 6GHz)
DF Sensitivity	≤ 15μV/m
Signal Dwell Time(Min.)	≤20 ms
Antenna Weight	≤7kg(Single Antenna)
Antenna Dimension	336 mm×330 mm
DF Analysie Bandwidth(Max.)	20 MHz

