

**FEATURES:**

- BRIEFCASE/ATTACHE CASE PACKAGE
- FREQUENCY RANGE: 20 TO 500 MHZ
- UP TO 4 IF BW'S (10 KHZ - 8 MHZ)
- COMPUTER CONTROL OPTION
- RUGGED
- TEMPEST OPTION

Reaction Instruments Model 685B VHF Receiver, a high performance surveillance receiver covering the 20 to 500 MHz band, is packaged in a Briefcase/Attache Case. AM/FM video and audio outputs and a 21.4 MHz IF output are optionally available. Up to four IF Bandwidths from 10 kHz to 8 MHz are available. Noise Riding Threshold/COR, AFC and AGC are provided.

The Model 685B can be controlled manually from its front panel or optionally by computer using RS-232 or telephone line modem interfaces.

The Model 685B is packaged in a standard commercial attache case and may be operated without removing it from the case. It is exceptionally rugged and built with the same EMI/RFI integrity as the Model 685A Receiver.

MODEL 685B VHF RECEIVER

PERFORMANCE SPECIFICATIONS*

Frequency Range	20-500 MHz
Frequency Resolution	1 kHz (1 Hz available)
Detection Mode	AM, FM
Outputs	IF, Video, Audio, COR
Tuning Speed	10 ms
Intermediate Frequency	21.4 MHz
RF Input Impedance	50 ohms
Input VSWR	2.5:1
Noise Figure	8 dB
Intermodulation IP3	0 dBm
External Frequency Reference	1 MHz
Internal Frequency Accuracy	+/-1:10 ⁶
Image Rejection	80 dB
IF Rejection (21.4 MHz)	80 dB
Phase Noise	-90 dBc in 1 Hz Bandwidth 20 kHz from carrier
Conducted L.O.	-85 dBm
Internal Spurs	-100 dBm
AGC/MGC:	
Range	100/80 dB
Attack/Release Time	1 ms
RF-IF Gain	20 dB
IF Bandwidths	
-User Specified (3 max. Plus 8000 kHz)	10, 20, 50, 100, 300, 500, 1000, 2000, 4000, 6000, 8000 kHz (others available)
AM/FM Sensitivity	-95 dBm for 100 kHz IF BW

* Specifications may vary depending upon options and are subject to change.

* Valid over 90% of the band