

Sweepmaster F2800 Plus - Professional Counter Surveillance System

RF Detector 0-8000MHz – Mains Carrier / LF Detector – Infrared Detector

Telephone RF/AF Analyser – Frequency Counter 0-2800 Mhz – Digital Signal Analyser



- 8 GHz (8000 Mhz) Wide Frequency Response RF Detector
- Built in Frequency Counter up to 2800 MHz
- Infrared/Laser Detection Probe
- Mains Carrier/LF Detection Probe
- Telephone Analyser (RF and AF Modes)
- Digital and Analogue signal detection with indicator
- Highest Sensitivity to locate the weakest signals
- Custom Backlit LCD display
- VOX Voice Activation Trigger
- Audible Signal strength 'Beep'
- Digital 'Burst' Signal Detection
- Audio Demodulation
- Internal Li-ion Battery Pack and Charger
- Supplied in ultra-protective carry-case

DETECTION MODES

1. Antenna RF
2. Telephone RF
3. Telephone AF
4. Infrared
5. Mains Carrier/LF



The Sweepmaster F2800 Plus is the latest version of our fully integrated Professional Counter Surveillance System. Now with even more sensitivity, increased frequency counter range and a new custom display the F2800 Plus offers more power than ever to help locate the presence of covert surveillance devices.

It uses the very latest digital technology to provide increased ultra high sensitivity across a wide frequency range that ensures detection and location of even the weakest radio, infrared, and LF transmissions such as those used in covert surveillance devices.

LF, HF, VHF, UHF and Microwave transmitters will be detected by the F2800 Plus; in fact anything that transmits a radio signal between 0.1 MHz and 8.0 GHz (8000 MHz). Such devices include miniature room transmitters, mains powered transmitters, telephone transmitters, video transmitters, mobile telephones, tracking devices, walkie talkies etc. It can also detect the presence of Mains Carrier/Low Frequency devices and Infrared/Laser emitting devices by using the supplied MCD1 Mains Carrier & IRD1 Infrared Probes.

The F2800 Plus also features a digital 'peak pulse' detector. This enables it to detect signals from devices that only transmit momentarily and to 'latch' a LED and notify you that a signal has been detected. Such devices include vehicle trackers, GSM devices (SMS text messages), or 'Burst' transmitters that accumulate information and transmit it in short 'bursts'.

As well as locating signals swiftly and easily, the F2800 Plus will display the frequency of the signal detected up to 2800 Mhz. This valuable feature enables the user to quickly verify whether the detected signal is from a genuine innocent radio device or something more suspicious. It will also analyse received signals to help distinguish between Analogue and Digital types.

The F2800 Plus also features a telephone interface so it can be connected directly to a telephone line to check for the presence of radio transmitting devices or other types of hard-wired listening devices attached to the line such as infinity bugs.

SUPPLIED ACCESSORIES

- Antenna Wand with Whip Antenna
- MCD1 Mains Carrier / LF Detector Probe
- IRD1 Infra Red Detector Probe
- Earphones
- Telephone Connection Cables x 2
- Mains to 10V DC Charger
- Soft Protective Carry Case
- Shoulder Strap
- Protective 'Storm' Carry Case



TECHNICAL SPECIFICATIONS

Typical Performance Characteristics - at 20 degrees C

Antenna Input

Connector		BNC Socket - 50 Ohm
Input Frequency Range		1MHz – 8GHz
Sensitivity	100MHz	-52dBm
	200MHz	-52dBm
	500MHz	-49dBm
	1GHz	-43dBm
	2GHz	-41dBm
	5GHz	-19dBm
	8GHz	-5dBm
Demodulation	Sensitivity for 50mW Audio	-30dBm (measured at 500MHz 50% AM 1kHz)
	Frequency Response	400Hz – 5kHz +/-2dB

Telephone Input

Connector		FCC68 6/4
Input Frequency Range		1MHz – 8GHz
Sensitivity	100MHz	-42dBm
	200MHz	-35dBm
	500MHz	-33dBm
	1GHz	-28dBm
	2GHz	-19dBm
	5GHz	-5dBm
	8GHz	+1dBm
Demodulation	Sensitivity for 50mW Audio	-24dBm (measured at 500MHz 50% AM 1kHz)
	Frequency Response	400Hz – 5kHz +/-2dB
Line Audio	Sensitivity for 50mW Audio	10mV RMS
	Frequency Response	200Hz – 15kHz +/-1dB
Line Isolation		500V DC

Instrument Display

Type	16 x 2 Alpha-Numeric OLED
RF Signal Strength	10 element bargraph
RF Carrier Frequency	2800.0MHz (2.8GHz) maximum

Internal Audio Amplifier

Output Power	0.25W
Frequency Response	300Hz – 15kHz +/-1dB
Headphone Connector	3.5mm Jack

VOX Trigger

Number of Bursts	4
Burst Duration	40ms
Burst Frequency	12.5Hz
Tone Frequency	3.2kHz
Loudness	90dB SPL @ 1m

Miscellaneous

Internal Battery	7.2V 1300 mAH Li-Ion rechargeable
Operating Duration – fully charged battery	8 hours
Charge Time – using supplied charger	3 hours maximum
Operating Temperature Range	-10 – +50 degrees C
Relative Humidity	< 90%
Dimensions	170 x 165 x 52 mm
Main Unit Weight	<1 kg

Mains Carrier / LF Detector Probe – MCD1

Input Frequency Range	100 – 300Khz
Power Supply	9V Battery PP3
Current Consumption	10 mA max
Weight	200g inc. battery
Dimensions	92 x 66 x 28mm

Infra Red Detector Probe – IRD1

Power Supply	9V Battery PP3
Current Consumption	10 mA max
Wavelength	850nm - 1050nm
Field of View	100 degrees
Half Angle	+/- 38 degrees
Weight	200g inc. battery
Dimensions	92 x 66 x 28mm