

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 |