

# MD-30(USA) Cellular phone Detector

## User Manual

MD-30(USA) cellular phone detector is a high tech device dedicated for applications such as public safety, exam cheat prevention, proprietary information leak out prevention, etc. This device can be customized to detect frequency bands matching user's local cellular phone services.

MD-30(USA) is for detecting (GSMII, CDMA, UMTS, PCS) popular services throughout US, Canada, Western South America, and the rest of the world, different model number should be selected.

### Characteristic

MD-30(USA) has very high sensitivity yet is insensitive to basestation. It is small in size and light in weight. It is highly portable and easy to use, a unique product in market. It has two operation modes. Depending on user's preference, one can select either vibration mode or earphone mode. This product has an effective range greater than 10 meters.

1

#### ■ Turn On

1. **Vibrator Mode Operation** : Turn the device on by rotating the knob clockwise until a click sound is heard. The vibrator will run for one to two seconds. Then continue turning and stop at the moment the vibrator is running again. This means the device starts to pick background noise or already detecting cellular phone signal.
2. Then back up the knob 1 to 2 degree and wait for two seconds to see if the vibration ceased. If not, repeat the process again until the vibration stops. At this setting, the device is at the most sensitive position for local environment. When the device has detected signal, the vibrator will go off automatically until the signal disappears.
3. **Attention** : In a high traffic area, there is always high possibility that cellular phones are in use nearby at the moment of tuning. The sensitivity is greatly reduced because cellular phone signal is being detected instead of the background noise while setting the maximum sensitivity. User should retune a couple of times to avoid the confusion.

■ **Earphone Mode Operation** : Earphone mode is a preferred mode. Following the same procedure as for the vibration mode to turn on the device, stop rotation when the beep sound is heard. Then back up for one or two degrees until beep sound disappeared. The device is in operation.

■ **Turn Off** : Rotate knob counter clockwise until a click sound is heard to turn off the device.

■ **Sensitivity** can be reduced if a shorter detection distance

## Applications

- For jail monitoring and public safety control
- Schools or exam centers cheat prevention
- Meeting room's proprietary information leak out prevention
- Military base surveillance
- Concert hall, church, worship room
- Hospital, instrument center and research center where the use of cellular phone is forbidden.

## Direction

### ■ Before Using

1. Charge up the battery for two hours before using. First, plug in the tubular plunger to the jack on the left side of the device. Then plug in the transformer to an AC receptacle. Make sure the AC voltage is within 100-240 volts.
2. The red LED will remain on when charging is in process. When charging is complete, the red LED will turn off. A fully charged battery can operate more than 8 hours. If no signal is detected or it is in earphone mode, it can last 14 hours. 5 minutes before the battery is depleted, the green LED will dime off gradually.
3. This indicates the need of a re-charging.

2

## Specifications

Product	GSMII : 824-849 MHz (up-link frequency bands)
Function	CDMA : 824-849 MHz (up-link frequency bands)
	UMTS : 1920-1980 MHz (up-link frequency bands)
	PCS : 1850-1910 MHz (up-link frequency bands)
Antenna	Dual band dipole omni-directional (maximum gain at vertical position)
Sensitivity (adjustable)	GSM II : > -55 dBm @ Antenna
	CDMA / UMTS : > -65 dBm @ Antenna
Rejection	> 25 dB @ out of band
Detection Mode	RF power peak detection
Rotary Tuner	On-off switch + squelch control (rotate clock-wise to tune on power and increase sensitivity)
Power	Li-battery (single, 1880 mAh @ 3.7 VDC)
Charger	Input : 100-240 VAC, 50-60Hz
	Output : 5V DC, 1A max
Output	Vibrator and Voice two modes
Indicators	Green LED On : power on Green LED dimmed : requires recharging
	Red LED On : Charging in progress Red LED Off : Charging completed
Operation Time	Stand-by > 14 hours
	Nominal > 12 hours
	Vibrator continuous on > 8 hours
Dimension	96mm L x 60mm W x 23.5mm T (120mm with antenna)
Weight	110grams (including battery)
Accessory	One Ear Phone
Remark	For more detail information, please check <a href="http://www.sweetwater.com/expert-center/techtips/01-09/05/2002">www.sweetwater.com/expert-center/techtips/01-09/05/2002</a>