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The Stealth SM2020

The Portable Speech Protection System

The Stealth SM2020 is the most advanced portable speech protection system which protects you against listening and recording devices. The Stealth SM2020 creates sound barrier interference which masks your speech and any sound to be extremely difficult or impossible to extract the original content from the noise.

When it is used in the correct manner, The Stealth SM2020 will protect you from;

- Voice recorders(tape and digital)
- Microphones, wireless microphones
- Stethoscopes, laser listening device
- GSM/Bluetooth/Wi-Fi transmitters, etc.

Main Functions

1. Sound Masking

The 2 channel chaotic noise (Distortion + Reverberation) in a random sequence secures your privacy and information from recent hi-tech speech extraction software.

- Main Speaker: 500 mW – adjustable output level

  This built-in speaker creates sound barrier interference against listening and recording nearby its location.

- Sub-Transducer: 700 mW x 2 – adjustable output level

  This 2 special transducers (TRN600S) can be installed on window, wall, partition, ceiling and hard floor and create chaotic noise with random vibration depending on the output of noise to protect your speech from eavesdropping and listening.

2. RF Detector: 70 MHz ~ 3000 MHz – adjustable sensitivity

The Stealth SM2020 has built-in RF detector to detect any active wireless microphone or covert camera and warns with a beep sound or LED.

- Detection distance: up to 3 M (10 feet)
- Sensitivity control capability

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THE STEALTH
The Confidential Catch

Features

- Protects against all known methods of listening devices
  All types of radio micro phones, stethoscopes, voice recorders, passive resonators and wired microphones, etc.
- Portable Design – it can be easily prepared for use.
- Provides a much higher level of protection than a white-noise generator.
- Reduces the noise level from outside of room – the sound counterbalance effect
- The system can be used in any situation.
- The built-in RF detector gives an additional protection against nearby radio micro phones and RF transmitters.
- Absolutely harmless – no microwave reflections or ultrahigh sound noise.

Specifications

• Type of Noise:	2 Channel Chaotic Noise (Distortion + Reverberation)
• Output (Electronic volume control)	Built in Speaker – Max. 500 mW Transducer – Max. 700 mW X 2 with Random Vibration
• RF Detector Frequency Range	70 MHz ~ 3000 MHz
• RF Detection distance	Up to 3 meters
• Power Source	100 V ~ 240 VAC (Car Cigar Jack: 12 V ~ 28 V DC – Option)
• Dimensions (without antennas)	110 W x 135 L x 48 H (mm)

How to Use

The appearance and specifications may be changed without any notice for the purpose of upgrade.

1. Power

1) Turn on – Press “POWER” button for 2 seconds.
2) Turn off – Press “POWER” button for 2 seconds.

2. Control the output level of Sound Barrier

1) Main Sound - Use “UP” and “DN” to adjust the strength of sound
2) Transducer
It can be attached on wall, door, ceiling or floor to provide the additional security.
It may be located around the security spot to provide the additional security

- Press “MENU” to select “SUB-SP” control.
- Use “UP” and “DN” to adjust the strength of sound.
- The menu will be back to main control stage automatically after 3 seconds.

3. RF Alert

The Stealth SM2020 searches nearby its location, and it stops the sound barrier and alerts any suspicious RF activity.

1) Press “MENU” to select “Alert” control.
2) Use “UP” and “DN” to turn this function on or off.
3) RF sensitivity adjustment
a. Press “MENU” to select “Alert” control
b. Press “MENU” and “UP” together to get RF sensitivity adjust mode.
c. Use “UP” and “DN” for desired RF sensitivity
– Higher value(number) sets lower sensitivity.

- ❖ If The Stealth SM2020 alerts frequently or continuously, please check and remove RF transmitter such as RF transmitter, GSM/Bluetooth/Wi-Fi transmitters or mobile phones around it until it stops the alert.
- ❖ If there is RF transmitter you know such as WI-FI router or RF repeater around, the RF sensitivity might need to be adjusted.

Troubleshooting

1. There is no message on LCD panel

- Check the DC adaptor and electric outlet to make sure its power is OK.
- Press “POWER” button for 2~3 seconds to turn it on.

2. The 3 LED keep blinking with beep sound

- Check and remove the RF transmitter or GSM/Bluetooth/Wi-Fi transmitters
- Remove Wireless Router or Mobile Phone nearby The Stealth SM2020
- Temporarily turn off nearby RF devices one by one to clear the alert..

3. There is no sound or weak sound from The Stealth SM2020

- Check the volume and adjust the level higher as desired
- Use “UP” and “DN” to adjust the strength of sound
- Press “MENU” then use “UP” and “DN” in “MAIN-SP” mode

4. There is no sound or weak sound from Transducer(TRN600S)

- Check the connection between TRN600S and The Stealth SM2020
- Press “MENU” to select “SUB-SP” mode and adjust the value higher
- Switch the cable or Transducer which works well to check.

❖ If problems will not be solved, please contact local distributor or dealer for more assistance or email us (support@globaltscmgroup-usa.com)

❖ For technical questions additional accessory, please contact local distributor or dealer or email us (support@globaltscmgroup-usa.com)

LIMITED WARRANTY

Global TSCM Group, Inc. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 1 year from the date of purchase. This warranty does not apply to damage due to directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity and improper installation.

To take advantage of this warranty, the product or part must be returned with transportation charges prepaid. Proof of purchase date and explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

Tips for using Noise Generator

- A noise generator is the product which emits the scrambled sound of audible frequency range to disturb extracting the human speech from recorded sound or listening. Therefore, the noise must be louder or at least equal than human voice to get good result of its purpose.
- The general noise generators in market produce White noise which might be easily removed by special software or hardware.
- **White noise** is a random signal (or process) with a flat power spectral density. In other words, the signal contains equal power within a fixed bandwidth at any center frequency. White noise draws its name from white light in which the power spectral density of the light is distributed over the visible band in such a way that the eye's three color receptors (cones) are approximately equally stimulated. In statistical sense, a time series r_t is characterized as having weak white noise if $\{r_t\}$ is a sequence of serially uncorrelated random variables with zero mean and finite variance. Strong white noise also has the quality of being independent and identically distributed, which implies no autocorrelation. In particular, if rt is normally distributed with mean zero and standard deviation σ , the series is called a Gaussian white noise. [1]
- An infinite-bandwidth white noise signal is a purely theoretical construction. The bandwidth of white noise is limited in practice by the mechanism of noise generation, by the transmission medium and by finite observation capabilities. A random signal is considered "white noise" if it is observed to have a flat spectrum over a medium's widest possible bandwidth.

Troubleshoot

1. LCD Panel does not work – No letter or character
    a. Check the connection of the power adaptor
        i. the Stealth SM2020 power input plug and the adaptor
        ii. The power adaptor and AC outlet – you may adjust the distance of 2 lead a little wider
    b. Press “POWER” button a little longer (3~5 seconds) – you may try to press the button with a tip of pen or pencil.
2. LED Panel shoes “SECURED”, but no sound (or low sound)
    a. Press “UP” button to increase the output of sound as desired
3. The 3 LEDs on bottom lit and no sound output
    a. Check any RF transmitter (including mobile phones) nearby the main unit and remove it.