

**INTERTEK TESTING SERVICES**

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**EXHIBIT 7**

**INSTRUCTION MANUAL**

## INTERTEK TESTING SERVICES

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### 7.0 Instruction Manual

Attached is a preliminary copy of the Instruction Manual.

This manual will be provided to the end-user with each unit sold/leased in the United States.

Cat. No. 49-329

Owner's Manual

Please read before using this equipment.

Passive Infrared Sensor Alarm with Keychain Remote Control

RadioShack

## FEATURES

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Your RadioShack Passive Infrared Sensor Alarm with Keychain Remote Control is a high-quality, battery-operated intelligent security device. It uses a passive infrared (PIR) motion sensor to detect intruders and activate a built-in alarm.

You can simply press ARM on the unit or press ARM on the remoter to arm the system. For disarming your alarm system, you simply enter your personally selected four-digit security code. You can select from 10,000 possible codes and change the code as often as you like.

Its features include:

**Panic Alarm** --- sounds the alarm immediately if you press PANIC on the main unit or press ARM/ DISARM on the remoter at the same time.

**Built-in Alarm Siren** ---loud siren activates when the system detect an intruder, then automatically shuts down and resets after 2 minutes.

**Built-in Passive Infrared (PIR) motion detector** --- detects an area of 110 degrees wide by 30 feet deep.

**User- Programmable Security Code** --- lets you set your own disarm code.

**Entry/Exit Delay** --- waits 30 seconds before activating the alarm to give you time to disarm the system, and gives you 10 seconds to leave the area before arming the system.

**Instant/Delay/Chime Switch** --- lets you select the mode needed between instant alarm/ delay alarm or acting as a chime.

Arm/ Disarm Indicator --- lets you know when the system is armed and disarmed.

Dual Mode Indications --- show the system's status with both a light and a tone.

Battery Operation --- works even when household or building electrical power is off.

Low Battery Indicator --- flashes every 5 seconds to indicate the batteries need to be replaced.

Chime Feature --- sounds " Ding- Dong " when PIR sensor is triggered in chime mode.

Easy Wall Mounting --- requires no wiring, uses only two wood screws.

RF Remote Control --- lets you operate the unit easily.

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## PREPARATION

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### INSTALLING / REPLACING BATTERIES

Before you install and use your Infrared Alarm System, you must install four AA alkaline batteries (not supplied) for power. (System will be at disarm mode when apply power at the first time.)

1. If the system is installed, remove it from the wall.
2. Remove the screw from the battery compartment cover with a Phillips screwdriver and lift off the cover.

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(illus.)

3. Remove old batteries and install fresh ones, following the polarity symbols (+ and -) marked in the compartment.

(illus.)

4. Close the cover and tighten the screw.

Note: Replacing batteries resets the security code to 1 2 3 4.

#### Low Battery Indication

When battery power is low, the green LED flashes every 5 seconds. Immediately replace all the batteries with fresh ones.

#### SETTING THE SECURITY CODE

You use the four-digit security code to disarm the system. The default code is 1 2 3 4. Follow these steps to program a new security code.

1. Disarm the system (the red LED should not be flashing) by entering the current security code, if necessary.
2. Press PROG, 1 beep sounds and the green LED lights.
3. Press CODE, 2 beeps sound and the green LED flashes slowly.
4. Enter current 4 digit security code, the green LED flashes fast.
5. Enter new 4 digit security code, the green LED lights steadily and chirps showing the new security code is acknowledged.
6. Press PROG, the green LED off.

Follow these steps to set security code to the remoter:

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1. Press PROG, 1 beep sounds and the green LED lights.
2. Press LEARN, 2 beeps sound and the green LED flashes slowly.
3. Enter current 4 digit security code, the green LED flashes fast.
4. Press ARM or DISARM on the remoter, 1 beep sounds and the green LED lights steadily and chirps showing the new remote code is acknowledged.
5. Press PROG, the green LED off.

After you change the security code, confirm it is correct by disarming the system. See "Arming and Disarming."

Note: If you remove the batteries, the security code will be reset to the default (1 2 3 4) and the previous remote code will be invalid.

#### If You Forget Your Security Code

You can reset the code to the factory-set default (1 2 3 4) by reinstalling the batteries.

#### INSTALLATION

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You must follow these steps to properly install the system.

1. Choose a mounting location.
2. Temporarily place the system at the mounting location.
3. Permanently mount the system.

#### CHOOSING A MOUNTING LOCATION

There are some things you should consider when you choose a mounting location for the alarm system.

The system is designed to be mounted on a flat, smooth wall surface.

You should mount the system where an intruder would move across the sensor's coverage area.

Notes:

To avoid false alarms, you should mount the system:

- o Out of direct sunlight.
- o Away from heaters or other devices that quickly change temperature.
- o Away from air conditioners or other devices that blow air on the sensor or create drafts in the coverage area.
- o Out of areas frequented by small pets or children.

### Sensor Coverage

Refer to the following diagram when planning your system's mounting location. This diagram shows the sensor's coverage area.

(illus.)

Note: Your sensor's coverage depends on the height of the sensor, ~~the sensor's~~ setting, the shape of the protected area, and the texture of the walls and other surfaces in the area.

Vendor: pls help to confirm if "The sensor has a blind area of about 6 1/4 feet directly in front of the system, this area has no coverage is right. (We don't find it has a blind area.)"

### TEMPORARILY PLACING THE SYSTEM

When the sensor mounted 5 1/2 feet off the floor. It has a blind area of about 10 feet directly 5 in front of the system

Before you permanently mount the system, temporarily place the system at the selected location so you can check the coverage area. You might need to check several DIFFERENT locations to determine the best mounting location. One simple method for checking the coverage is to place the system on a stepladder at the desired height.

## SETTING THE COVERAGE AREA

Follow these steps to set the system's coverage area.

Note: Disarm the system, if necessary, by entering the security code (see "Arming and Disarming").

1. Confirm that the area is clear of people, pets, and others potential causes of false alarms.
2. Set the system to CHIME mode and walk around the protected area. When the sensor detects any motion, the system will sound "DING-DONG".  
(illus.)
3. If the system does not detect motion when you are within the desired protected area, change the system's location.

If the system detects motion when you are outside the desired protected area, do any or all of the following:

- o Find what is causing the false detection and remove it from the area.
- o Change the system's location.

## MOUNTING THE SENSOR

After you determine where you want to mount the system and test its coverage, follow these steps to mount it on the wall.



Notes:

- o Disarm the system, if necessary, by entering the security code (see "Arming and Disarming").
  - o The supplied screws are suitable for mounting the system on a wood surface. If you are mounting the system on sheet-rock, masonry, or another surface, use the appropriate screw inserts or other mounting techniques. Consult your local hardware store for the proper mounting hardware.
1. Mark the positions for the two supplied wood screws on the mounting surface, 3 15/16 inches apart.

(illus.)

2. Drill pilot holes slightly smaller than the screws at the locations.
3. Drive the screws into the wall, letting the heads extend about 1/8 inch.
4. Align the two keyhole slots on the bottom of the system with the screw heads in the wall. Then press the system down to secure it in place.

(illus.)

OPERATION

ARMING AND DISARMING

To arm the system, press ARM on the main unit or press ARM on the remoter. The system enters the 10 seconds exit delay. The red LED flashes every 2 seconds during the exit delay and when the system is armed.

When you enter the protected area with the system armed, it sounds a long beep.

Replace of <sup>Siren</sup> ?

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To disarm the system, enter your four-digit security code or press DISARM on the remoter. The alarm beeps twice when you enter the correct code. If you do not enter the correct security code within 30 seconds of entering the protected area, the alarm sounds.

Note: If your security code does not arm or disarm the system, try the default code (1 2 3 4). If the system still does not arm or disarm, remove the system from the wall and remove and reinstall the batteries. This resets the code to 1 2 3 4. (If the system is armed, the alarm sounds when you remove it from the wall.)

### What the Beeps Mean

Number of Beeps

Meaning

1

Code accepted, system is armed.

2

Code accepted, system is disarmed.

### SET TO CHIME MODE

Disarm the system, set the slide switch to CHIME. If you enter the protected area, the system will sound "Ding- Dong" just like a ring bell. To change from CHIME mode to ARM/DISARM mode, simply set the switch to INSTANT or DELAY.

### TESTING THE SYSTEM

We recommend that you test your alarm at least once a month.

Entry/Exit Delay and Coverage Test

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1. To arm the System, set the slide switch to INSTANT or DELAY, press ARM on the main unit or press ARM on the remoter.
2. The system enters the 10 seconds exit delay (for both INSTANT and DELAY modes) , the red LED flashes every 2 seconds. Then the system is armed, the red LED flashes every 5 seconds.
3. Enter the protected area. If the slide switch is set to DELAY, the red LED flashes every 2 seconds, the system enters the 30 seconds entry delay.
4. After the entry delay, the red LED lights steadily and the alarm sounds for 2 minutes. To stop the alarm, enter your four digit security code or press DISARM on the remoter.

Note: There is no entry delay time when slide switch is set to INSTANT.

### Panic Alarm Test

To test the panic alarm function, simply press PANIC on the main unit or press ARM and DISARM on the remoter at the same time, the alarm sounds immediately and last for 2 minutes. ~~If the system is disarmed, this also can arm the system.~~ To stop the alarm, enter your security code or press DISARM on the remoter. X

### CARE AND MAINTENANCE

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Your RadioShack Passive Infrared Sensor Alarm with Keychain Remote Control is an example of superior design and craftsmanship. The following suggestions will help you care for your system so you can enjoy it for years.

- o Keep the system dry. If it gets wet, wipe it dry. Liquids can corrode electronic circuits.
- o Keep the system only in normal temperature environments. Temperature extremes can damage the system.
- o Handle the system carefully. Dropping the system can damage it.

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Modifying or tampering with the system's internal components can cause malfunctions and might invalidate its warranty. If your system is not performing as it should, take it to your local Radio Shack store for assistance.

#### FCC STATEMENT

This device complies with the FCC rules part 15. operation of this device is subject to the following conditions:

1. This device must not cause harmful interference.
2. This device must accept any interference that may be received including that causes undesired operation.

Warning : Changes or modifications to this unit expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.

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SPECIFICATIONS

MAIN UNIT

- Operation Ambient Temperature ..... 32-122°F  
(0-50°C)
- Operating Relative Humidity ..... < 95 %
- Power Requirement ..... 4 x AA Alkaline Battery (not included)  
(Cat. No. 23-533)
- Battery Life with Remote Control ..... 2 months at disarm mode
- Auto Alarm Reset Time ..... 120 ± 5 seconds
- Siren Output Sound Pressure Level ..... ≥ 108 dB (at 1 foot)
- Internal PIR Detection Area ..... 30 feet x 110°
- Entry Delay Time ..... 30 ± 3 seconds
- Exit Delay Time ..... 10 ± 2 seconds

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RF KEYCHAIN REMOTE CONTROL

RF Frequency .....312 ± 0.5 MHz

Remote Control Distance ..... ≥ 50 feet  
(15.24 m)

Power Requirement ..... 1 × 12 V Alkaline Battery (not  
included) (Cat. No. 23-144)

Battery Life ..... 3200 transmitting cycle

Specifications are typical; individual units might vary. Specifications are subject  
to change and improvement without notice.

(please use new RadioShack 90-day warranty)

RadioShack  
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Printed in Hong Kong

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