

Fire Sets by ETS

The Fire Set -M series are field deployable devices that are used to capture personnel movement in military training exercises and security applications.

Instructions for the Hand Held Remote Controller

BEFORE USE, ALWAYS CHARGE THE REMOTES (STAY BEHINDS AND INITIATORS) AND THE REMOTE CONTROLLER FOR AT LEAST 12 HOURS. FAILURE TO DO SO MAY RESULT IN ERRONEOUS OR NON-OPERATION OF THE SYSTEM. SHORTENED RANGES AND OR OPERATIONAL TIME MAY ALSO OCCUR. FULL CHARGE IS 24HRS. CHARGING MORE THAN 24 HOURS IS NOT RECOMMENDED, BUT WILL NOT HARM THE BATTERY PACKS. A FULL CHARGE SHOULD PROVIDE 8 HOURS OF CONTINUOUS OPERATION.

KEEP ALL UNITS OUT OF THE RAIN, THEY ARE NOT WATERPROOF.

Features of the remote controller:

1. Reports all Stay Behind-RSs and Initiator-RCs that are in range (on line) and their armed / disarmed status.
2. Remotes can be armed and disarmed all at once, or individually.
3. Remotes can be fired all at once, or individually.
4. 1 mile Line of sight remote control range.
5. Internal 2.45 A/Hr NiMH Re-chargeable battery pack.
6. 1 Watt, 900mhz, FCC approved, spread spectrum RF transceiver and +3dbi antenna.
7. Heavy duty, switches and other components.

To test the system, power up all Stay Behind and Initiator RCs and power up the Remote Controller. MAKE SURE ALL REMOTES AND THE REMOTE CONTROLLER ARE AT LEAST 5 FEET FROM ONE ANOTHER OR ERRONEOUS OPERATION OF THE SYSTEM MAY RESULT.

On power up, the Remote Controller is in the "ALL REMOTES" mode. All 16 remote status LEDs will momentarily flash several times. The 8 on-line, green LEDs will then scroll from top to bottom twice. Any time you see scrolling green LEDs is an indication that the remote controller is in the "ALL UNITS" mode. All on-line green LEDs will then light solid for all Stay Behind-RCs found belonging to this remote controller.

NOTE-If no remotes are in range, the 8 green LEDs will scroll once, every 4 seconds.

To "ARM ALL" Stay Behind-RCs: Press and hold the Arm / Disarm switch. After 5 seconds, all 8 green On Line LEDs will light solid followed by all 8 of the armed Red LEDs lighting solid. Release the switch and the 8 On Line green LEDs will scroll twice followed by green LEDs lit solid for all remotes found in range.

NOTE-Initiator RCs are unaffected by the ARM ALL command.

To “DISARM ALL” Stay Behind-RCs: Press and hold the Arm / Disarm switch. After 5 seconds, all 8 green on line and armed red LEDs will light solid, followed by the 8 armed red LEDs extinguishing. Release the switch and the 8 On Line green LEDs will scroll twice followed by solid green LEDs lighting solid for all remotes found to be in range.

NOTE-Initiator RCs are unaffected by the DISARM ALL command.

NOTE- When arming or disarming all Stay Behind-RCs, all other Stay Behind-RCs will follow the status of unit 1. In other words, if unit 1 is armed and the Arm / Disarm button is held down, all Stay Behind-RCs will be disarmed. If unit 1 is disarmed, all Stay Behind-RCs will be armed. If unit 1 is not present, all units may arm when you intended to disarm and vice-versa.

To FIRE ALL (detonate) ALL Stay Behind-RCs and Initiator-RCs: press and hold the Fire switch, After 5 seconds, all 8 green On Line LEDs will light solid followed by all 8 armed red LEDs flashing several times. Remotes that are on line (in range) will go into alarm (detonate). Release the switch and the 8 On Line green LEDs will scroll twice followed by solid green LEDs lighting solid for all remotes found to be in range. To Cancel the fire all mode, press and hold the Arm / Disarm switch. The LEDs will follow the pattern as described in DISARM ALL above, and the remotes should all go out of alarm.

NOTE-IT IS IMPORTANT TO ALWAYS WAIT FOR THE REMOTE CONTROLLER TO RETURN TO DISPLAYING ALL ON LINE REMOTES BEFORE PRESSING ANOTHER SWITCH.

The next mode of operation is the “INDIVIDUAL CONTROL OF REMOTES” mode. To access this function, press and hold the mode switch. All 8 green On Line LEDs will flash several times, followed by one green on line LED lit solid. This is the first Stay Behind-RC detected by the Remote Controller . If this first Stay Behind-RC is armed, it’s corresponding armed LED will be lit. If it disarmed, its armed LED will not be lit.

To select another Stay behind, momentarily press the select button. The 8 green On Line LEDs will flash several times and the next Stay Behind-RCs on line LED will be lit solid. Continue pressing the select button momentarily to select another unit. NOTE- wait for the next On Line LED to light solid before advancing to the next Stay Behind-RC or Initiator-RC.

To arm or disarm the selected Stay Behind-RC, press the Arm / Disarm button momentarily. The RED armed LED for the selected Stay Behind-RC will light or extinguish. If the next unit is an Initiator-RC, the Armed LED will not ever be lit solid.

To fire the selected Stay Behind-RC or Initiator RC, press the Fire button momentarily. The Red Armed LED will flash several times and that Stay Behind-RC or Initiator-RC should go into alarm.

NOTE- in the “INDIVIDUAL CONTROL OF REMOTES” mode, you can Arm / Disarm and Fire all remotes in the same fashion as described above in the “ALL UNITS” mode. If you do this, the Remote controller will return to the “ALL UNITS” mode and is indicated by the scrolling 8 Green On Line LEDs after the command is issued.

To leave the "INDIVIDUAL CONTROL OF REMOTES" mode and return to the "ALL REMOTES" mode, press and hold the Select switch. The 8 green On Line LEDs will scroll twice to indicate the Remote Controller is in the ALL units mode.

Instructions for the Stay Behind-RC and Stay Behind-M:

Features:

1. 12vdc @ 1Amp (max) output for setting off pyrotechnics or powering larger strobes and sirens.
2. Internal 2.45 A/Hr NiMH Re-chargeable battery pack.
3. Built in Motion Detector with a range of 30 feet x 45 degrees in all directions from its center.
4. Internal high intensity sounder
5. Yellow strobe alarm indicator.
6. Adjustable alarm time and exit delay time.
7. RC option: 1 Watt, 900mhz, FCC approved, spread spectrum RF transceiver and +3dbi antenna.
8. Field ruggedized housing, switches and other components.

When you power up the Stay Behind-RC, it is disarmed and in the "WALK TEST" mode. Set the Stay Behind-RC in your desired location. Walk around the Stay Behind and make sure it will capture the movement you wish to detect and in a timely manner. As you move in front of the Stay Behind-RC, the green Motion LED will light momentarily in response to detecting motion. Make sure it reliably senses motion by repeating movements.

NOTE-the motion detector is more sensitive to motion crossing its detection beams than it is to motion coming directly at it. Be aware also that detection beam pattern is 45 degrees in all directions from directly facing the detector.

The Stay Behind-RC can be armed and disarmed manually by momentarily pressing the Arm / Disarm button. When armed, the RED Arm / Disarm LED will flash on and off for the amount of time the Exit Delay is set to. Once the exit time has expired, the Armed LED will light solid.

NOTE- When you arm the STAY BEHIND-RC with the remote controller, the STAY BEHIND-RC arms without an exit delay!!

Exit Delay: The user can set the amount of time required (2-60 seconds) to get clear of the Stay Behind-RC before it Arms itself. To adjust the exit delay, use a small flat blade screwdriver. Note the small molded arrow head of the control should point to the desired time. Straight up, the exit delay time is about 30 seconds.

Alarm time: The user can set the amount of time desired to have the STAY BEHIND-RC go into alarm. This time is adjustable from 2-60 seconds OR it can be set to stay in continuous alarm until the STAY BEHIND-RC is disarmed. To set the alarm time for continuous alarm set the arrow head at any point past 3 O'clock.

Note- Once in alarm, the STAY BEHIND-RC can be silenced by pressing the Arm / Disarm button or by powering down the unit. Once the unit has gone into alarm and if set for 2-60 seconds, it will return to the "WALK TEST" mode and will have to be rearmed by the user to capture another event. If you would like the STAY BEHIND-RC to automatically rearm itself, you can special order a STAY BEHIND-RC with this feature.

Instructions for the Initiator-RC:

1. 12vdc @ 1Amp (max) output for setting off pyrotechnics or powering larger strobes and sirens.
2. Internal 2.45 A/Hr NiMH Re-chargeable battery pack.
3. Adjustable alarm time.
4. RC option: 1 Watt, 900mhz, FCC approved, spread spectrum RF transceiver and +3dbi antenna.
5. Field ruggedized housing, switches and other components.

The Initiator-RC can only be used with a Remote Controller assigned to it. It is a wireless, fire only type device. Place the Initiator-RC in its desired location and power it up and it is ready for use. The only thing the user needs to do is set the desired alarm time and connect any external pyrotechnics, sirens or strobes.

Alarm time: The user can set the amount of time desired to have the STAY BEHIND-RC go into alarm. This time is adjustable from 2-60 seconds OR it can be set to stay in continuous alarm until the STAY BEHIND-RC is disarmed. To set the alarm time for continuous alarm set the arrow head at any point past 3 O'clock.

Connecting external sirens, strobes or Pyrotechnics to the Stay Behinds and Initiators.

A 12Vdc output is available on all remotes, to fire external devices upon alarm. The Output current is internally limited to 1 Amp max. Make sure the current draw of your external device does not draw more than 1 Amp.

NOTE-Battery operational time will be shortened with high current loads placed on the output terminals.

WARNING-connect pyrotechnics wires to the output terminals as the final step in setting up. Practice safe explosive handling techniques when using pyrotechnics with the remotes. The Output terminals are designed to only have Voltage on them when the remote is in alarm.

NOTE- there is a momentary voltage spike (a few Milliseconds) when the Stay Behind-RC, Stay Behind-M and Initiator-RC (remotes) are first powered up on the alarm voltage output terminals. If your pyrotechnics fuses can be “set off” by such short voltage spikes, it is recommended that you power up the remotes before connecting the charges. Maintain a safe distance in the unlikely event unexpected continuous Voltage is present on the alarm output terminals. Another safe practice is to power up the remote and check for no Voltage output with a DMM before connecting the wires.

Motion detector (PIR) sensitivity adjustment (Stay-Behind-RC & Stay behind-M).

PIR sensitivity can be adjusted in cases where the motion detector does not capture movement in a timely manner or the unit false alarms due to environmental conditions. The options are 2 (high sensitivity) or 4 counts (low sensitivity). From the factory, the sensitivity is set (high) or “2” counts.

If the unit false alarms (goes into alarm when there is no personnel movement), carefully remove the cover and look for a group of three electrical jumpers on the circuit board. Find the jumper labeled “PIR counts” and move the jumper to the 4 position. Recheck the unit’s ability to capture desired personnel movements before placing the unit back into service.

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