

## Set-Up and Operating Instructions for ActiveEYE (Indoor/Outdoor) Motion Sensor Model MS16A

The ActiveEYE Motion Sensor sends Wireless Radio Frequency (RF) signals to an X10 Transceiver (RR501 or TM751). The Transceiver then passes the signals onto your house wiring to turn on lights, appliances, or X10 wireless cameras around your home. You plug your lights and appliances into X10 Modules (sold separately). You can set the ActiveEYE to turn the lights or cameras off after motion stops. You can set this for a preset time of 2, 4, 8 minutes etc. (see below for more details) or you can set any variable delay you like (1 minute to 60 minutes) using the easy to set dial on the top of the unit. The ActiveEYE also works with the CM15A Two-Way Computer Interface to initiate macros (routines) so you can set up a “coming home” routine which is initiated by the ActiveEYE when it “sees” you.

Note: The default state is to turn lights or cameras on when the ActiveEYE detects motion **at all times** (even if it’s not dark). But you can also set it to turn lights or cameras on when it detects motion only at night. It can also turn lights on at dusk and off at dawn, but this feature is disabled by default (see other side of sheet to enable it).

**Installation:** Remove the screw from the front of the unit. Remove the battery cover and install two AAA alkaline batteries. Leave the cover off for now. The unit defaults to Housecode A and Unit Code 1, and it defaults to see motion at all times - day and night, so plug in an X10 RF Transceiver (model RR501 or TM751, each sold separately) and set it to Housecode A. Plug a lamp into an X10 Lamp Module (sold separately) and set it to Housecode A and Unit Code 1. Plug the Lamp Module into any AC outlet.

**To test the ActiveEYE:** Press the **House** button once. The ActiveEYE transmits the “device ON” RF signal and the red light flashes. Press the **Unit** button once. The ActiveEYE transmits the “device OFF” RF signal and the red light flashes. (The default device setting is A1).

Place the ActiveEYE on a shelf about 6 ft above the floor and let it settle for a minute and then walk past it. The lamp connected to any X10 Module set to A1 turns on. The light turns off a short time later as long as no motion has been detected. The default time is the setting on the dial on the top of the unit so you can adjust this to suit your preference (1 minute to 60 minutes). You will also see later that you can set this for a specific predetermined time. For outdoor use, remove the batteries, screw the MS16A to a wall and insert the batteries. Refit the battery cover and screw it into place.

### **To change the delay after motion is detected before an OFF code is transmitted:**

Press the **House/On** button once. The red light flashes. Then, (within 6 seconds) press **and hold** the **Unit/Off** button. The green light turns on. 3 seconds later the red light reports its delay setting as follows:

1 blink for Analog setting, i.e. the setting on the dial on the top of the unit. 2 blinks for 2 minutes. 3 blinks for 4 minutes. 4 blinks for 8 minutes. 5 blinks for 16 minutes. 6 blinks for 32 minutes. 7 blinks for 64 minutes. 8 blinks for 128 minutes. 9 blinks for 256 minutes.

To change this: Press the **House/On** button (under the battery compartment lid) once. The red light flashes. Then, (within 6 seconds) press **and hold** the **Unit/Off** button. The green light turns on. 3 seconds later the red light reports its delay setting, as listed above. Release and immediately press the **Unit/Off** button the number of times for the delay you want, as listed above. **Hold the button pressed for 3 seconds on the last press.** The red light then reports the setting with the appropriate number of blinks as above. Release the button. Note: for settings of 2 blinks or higher, the dial on the top of the unit is disabled.

**To change the Unit Code that the ActiveEYE transmits:** Press and hold the **Unit/Off** button (under the battery compartment lid) the red light flashes first and then blinks the current setting. Release and immediately press the button the desired number of times for the Unit Code you want to set. **Hold the button for 3 seconds on the last press.** The red light blinks back the number of times for the code you set. Release the button.

**To change the House Code that the ActiveEYE transmits:** Press and hold the **House/On** button (under the battery compartment lid) the red light flashes first and then blinks the current setting (once for A, twice for B, etc.). Release and immediately press the button the desired number of times for the House Code you want to set (once for A, twice for B, etc.). **Hold the button for 3 seconds on the last press.** The red light blinks back the number of times for the code you set. Release the button.

**To turn additional lights on when it gets dark.** The ActiveEYE can send signals when it detects dusk and dawn so it can turn a light on when it gets dark and turn it off when it gets light (in addition to turning lights on when it detects motion). To have it turn a light on at dusk and off at dawn plug the light into an X10 Module and set it to the same Housecode as the ActiveEYE and to a Unit Code that is **one number higher** than the Unit Code of the module or camera that turns on when motion is detected. I.E. if the ActiveEYE turns on A1 when it detects motion, it will turn on A2 when it gets dark and turn it off when it gets light. You then need to enable this feature, see below for details. If you use this feature, care should be taken to place the ActiveEYE where it sees plenty of light during the day (such as near a window). If you place it in a dark corner it might not be able to tell the difference between day time and night time. Care should also be taken not to place the ActiveEYE near the light it is controlling, otherwise when the light turns on it might “fool” the ActiveEYE into thinking it’s daytime, so it will turn the light off again! Note: If you use the ActiveEYE to control X10 wireless cameras, care should be taken not to set any cameras to the code that the ActiveEYE sends at dusk and dawn (Unit Code +1). Otherwise your cameras will be turned off at dawn.

**To set whether you want the ActiveEYE to transmit EVERY time it sees motion or only at night; and to enable or disable the “Unit Code +1” function to turn lights on/off at dusk/dawn:**

Press the **Unit/Off** button once. The red light flashes. Then, (within 6 seconds) press **and hold** the **House/On** button. The green light turns on. 3 seconds later the ActiveEYE reports its dusk/dawn setting as follows:

The red light blinks **once** if the ActiveEYE is set to detect motion **at all times** and **does not** turn Unit Code +1 ON at dusk and OFF at dawn.

The red light blinks **twice** if the ActiveEYE is set to detect motion **only when it’s dark** and **does not** turn Unit Code +1 ON at dusk and OFF at dawn.

The red light blinks **three times** if the ActiveEYE is set to detect motion **at all times** and **does** turn Unit Code +1 ON at dusk and OFF at dawn.

The red light blinks **four times** if the ActiveEYE is set to detect motion **only when it’s dark** and **does** turn Unit Code +1 ON at dusk and OFF at dawn.

To change this, press the **Unit/Off** button once. The red light flashes. Then, within 6 seconds, press **and hold** the **House/On** button. The green light turns on. 3 seconds later the ActiveEYE reports its dusk/dawn setting, as per above. Release and immediately press the **House/On** button 1, 2, 3, or 4 times for the setting you want, as above. **Hold the button for 3 seconds on your last press.** The red light then reports the setting with 1, 2, 3, or 4 blinks.

**NOTES:** After replacing batteries, you need to wait 30 seconds before the ActiveEYE will see any motion.  
After a transmission, you need to wait 10 seconds before the ActiveEYE will see you.  
The default code transmitted when motion is detected is A 1-ON.  
The default for motion detection is to detect at all times (day and night).  
The default time-out after which OFF is sent (default A 1-OFF) is Analog, i.e. the setting on the dial.  
The default code transmitted when dusk/dawn is sensed is (Unit Code +1), i.e. A 2 ON at dusk, A 2 OFF at dawn, but this feature is disabled by default, see above to enable it.

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**FCC CAUTION:** THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

**NOTE:** NO CHANGES OR MODIFICATIONS MAY BE MADE TO THE UNITS. ANY CHANGES MADE TO THE UNITS WILL VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

#### **LIMITED 90 DAY WARRANTY**

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