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NetWatchman White Paper Series

Better Security with Home Automation Lighting

The NetWatchman HomeOwner's Reference Manual provides additional detail regarding home automation standards and planning your configuration. When you order the NetWatchman Home Automation Package you automatically receive three important lighting features that compliment your security. This includes a timer, security lighting controller, and an alarm lights feature. This white paper introduces the security lighting feature and the timers. It also provides introductory information on other security/safety related home automation features you may later choose to add.

Security Lighting – Make the House Look Lived In

The Home Automation Package includes a very popular feature titled Security Lighting. Security Lighting operates designated lights randomly during evening hours while NetWatchman is in "Away" or "Vacation" mode. At the time you purchase the automation package you'll receive a form that asks several questions. You'll designate the lights you wish to operate. You'll also be able to select the evening hours during which operation occurs (the factory default is from Sunset until 11pm).

Alarm Lights Provide Protection When the Alarm Sounds

The Home Automation Package includes a very essential security feature titled Alarm Lights. If your alarm fully activates, lights you have designated will turn on for additional safety. Every study has shown that intruders are quickly frightened by lights turning on. In addition, immediate lighting provides you with additional peace of mind as you investigate the alarm.

Introducing the Power of NetWatchman "Timers"

Unlike cheap, store-bought plug-in timers, NetWatchman provides a very sophisticated ability to time control lights and appliances. Remember that NetWatchman includes a battery protected time of day clock that remains accurate for up to 10 years even when NetWatchman is unplugged. And, when NetWatchman is re-programmed by our central computers, the time of day clock is re-corrected against a time standard traceable to the US government maintained atomic clocks. NetWatchman also knows sunset and sunrise times for your city throughout the year (maintained month by month). As such, you can also specify two special time values known as 'sunset' or 'sunrise'.

Each timer has a start time and a stop time. You can select the days of the week it operates. You can further qualify the timer to only operate when NetWatchman is in certain operating modes (armed, disarmed, at home, night mode, away, vacation). When you are operating lights and appliances with these timers the typical program will turn the devices on at the start time and off at the stop time. However, you can also elect to turn devices on at the start time and leave them on or turn devices off at the start time and leave them off.

Dusk To Dawn Lighting

The Home Automation Package includes one pre-configured Timer. You designate the lights you wish to operate. The Timer is pre-configured to operate those lights from dusk to dawn. Most customers use this popular feature to control porch or other external night lights. Of course, like most NetWatchman features, you can re-customize this Timer to perform any function you need (including changing that start and stop times).

Adding Additional Features is Simple – We’ll just handle it for you

NetWatchman has several “add-on” features that provide additional customized capabilities based on your needs. As you are probably aware, NetWatchman “add-on” features allow you to customize your system by inexpensively purchasing only the features you need. It’s done via the web much like downloading music. Most features are under \$20 (some under \$10). The exact procedure is discussed in your HomeOwner’s Reference Manual. When you license a feature, we’ll handle the details for you. If additional customizing information is required, we’ll send you a form via email. Simply return the form via email and we’ll setup the feature to your specifications. There’s no complicated “programming” or learning required. From that point forward you can make further changes using the windows-based application “NetHome” (available for free at our website) or you can ask us to make simple changes by submitting change forms via email (then, we’ll just handle it for you...).

Add-A-Feature: Additional Timers

At a price less than most store-bought timers, you can easily add additional time clock features --- we’ll be glad to set them up for you.

Add-A-Feature: Entry Lighting

***Light the way as you enter a dark house* (A826)**

Each burglary sensor in your NetWatchman configuration can also control lights. This feature designates a sensor through which you enter. (You can have multiple licenses for different entry paths). For each path you can designate lights that will turn on during the entry delay.

Add-A-Feature: Sensor Controlled Lighting (Basic-Typical)

Lights on as you enter a room (A827); *lights off in unoccupied rooms.* (A828)

Use your burglar alarm sensors to add convenience and save energy. Each copy of this feature license identifies one of your sensors that will be used to control lights. You designate that lights that operate. You have three choices for operation: turn on and stay on; turn on then turn off several minutes after the sensor de-activates (motion stops); or turn off several minutes after de-activation (you select the turn off time delays).

Add-A-Feature: Advanced Sensor Controlled Lighting (B829)

Similar to the feature above but includes one of the following additional conditions:

- The sensor controlled lighting only operates during a time interval you select (the interval might include a dusk or dawn condition)
- The sensor controlled lighting only operates during certain arming modes you select
- You receive an additional lighting control fob that temporarily disables the sensor controlled lighting until the next arm or disarm re-enables.

Add-A-Feature: Lights Off as Arming Occurs (B830)

Save energy and improve safety by turning lights/appliances off when you leave

This popular feature allows you to create four lists of devices that will turn off.

- Devices that turn off when the system is armed in 'Away' mode
- Devices that turn off when the system is armed in 'Vacation' mode
- Devices that turn off when the system is armed in 'night' mode
- Devices that turn off once daily (at a time you select) – helps reduce the possibility of devices being left on for prolonged periods

Add-A-Feature: Daily Lights Off (A831)

Reduce the possibility of Devices Being Left On

Turns off selected devices once daily at a time you select

Add-A-Feature: AC Power Failure Notification (B832)

Receive Notification of an extended power failure

When NetWatchman detects a power failure greater than 30 minutes, NetWatchman will send you an email message. Ideal for letting you know that food in the refrigerator of your vacation cabin may be suspect. Other time periods can be selected. This feature requires that the NetWatchman Master Controller be equipped with an optional

NetWatchman Battery pack. For this feature to operate properly, NetWatchman's battery must be fresh, charged and last longer than the selected power failure interval. Your phone service must also operate during a power failure. This feature will not operate if NetWatchman is plugged into a UPS (uninterruptible power supply) (NetWatchman must have it's own battery pack and be lugged into standard AC).

Add-A-Feature: Insteon Device as an Input (A884)

Use Insteon wireless controllers or Insteon Door Sensors (TriggerLinc) to control NetWatchman

The Insteon family of products includes numerous table-top controllers, wall-switch controllers, handheld/portable remote controls and wireless sensors. In addition to using NetWatchman to control Insteon devices (outbound), Insteon devices can be used to control NetWatchman (inbound). For example, a button on a handheld remote might be used to arm NetWatchman as you leave, an Insteon wall switch might provide an on/off input into NetWatchman which results in a light operating – but only during certain times. Insteon door sensors, sold as TriggerLinc(s), can be used as supplementary alarm sensors (read more door sensor ideas at: www.x10home.com/pdfdocs/Doors.pdf).

Of course, because Insteon is primarily intended to control AC appliances, the Insteon portion of your installation will not operate during a power failure. Nevertheless, these handy Insteon products can greatly add to your Home Automation convenience.

For more information on Insteon products:

www.Insteon.com