Base Installation Instructions
Model S30

The LifeShield Base is an integrated, all wireless security system for residential installations. The Base is the heart of the security system, processing events from sensors, monitoring events for alarm conditions, and reporting events to the monitoring center and/or your phone.

The Base is entirely controlled from mobile apps, the LifeView website, or via a wireless keypad or wireless keychain remote. The Base does not have a built in keypad or display. This gives you great flexibility on locating the Base within your home. While many security system must be located by the front door (because the keypad is integrated), you are free to locate the Base in a more convenient location or one that you feel is more protected from intruders.

Provided in the box
S30 Base (with internal battery)
WEPS10R1-15 Power Adapter
Phone Cord
Internet Cable
Wall Bracket (plus mounting screws)
Cable Tie(s)

Selecting an Installation Location

Please consider the following when deciding where to locate the Base:

- The Base will require AC power, therefore an outlet should be available within 6 feet and should be easily accessible. The outlet must not be controlled by a switch, and must provide continuous power.
- The Base receives all sensor events wirelessly; therefore a more central location is preferred in your home (depending on size). If you locate the Base is a far corner of the house, it may not be able to receive signals from the opposite side of your home. You can locate the Base in a 1st or 2nd floor room. In general, basement locations are not as good for wireless coverage.
- The Base must communicate to LifeShield using an Ethernet cable, Wi-Fi, or 3G cellular service (or a combination). If you do not plan on connecting the Base directly to your router with an Ethernet cable, then the Base must have a good Wi-Fi signal to your router. Please see the notes below on Wi-Fi signal coverage in a home.
- If you intend to use the 3G cellular capability of the Base, the Base will need to receive a cellular signal. In most parts of the country, AT&T is the preferred carrier for the 3G cellular signal. The Base includes an internal cellular antenna. However, if the signal is not good, an external antenna can be connected.
- The Base includes a loud piezo siren. You should decide on whether you want this to be your primary siren, or whether you plan to use an auxiliary siren. If this is your primary siren, you will want to make sure the Base is located in a place where you can hear the siren.

- The Base should not be mounted in location subject to temperatures over 122°F (50C) or below 32°F (0C) for any extended period of time. This will degrade the battery life.

<u>Mounting the Base</u>

The Base may be placed horizontal on a shelf or a table top. The Base includes a non-skid bottom that helps prevent the Base from moving due to the weight of cables. If you choose, the Base also includes a slot compatible with keyed laptop locks (Kensington is one example brand that makes these locks). This will allow you to lock the Base in place.

The Base may also be mounted on a wall or ceiling. The mounting bracket is attached to the wall or ceiling, and the Base slides into the bracket as shown in Figure 1. Please note that the bracket and Base are keyed and can only snap into each other one way. You may want to practice this first before attaching the bracket to the wall or ceiling. When inserting the Base into the bracket, be sure to slide the Base until fully engaged in the bracket. The non-skid surface of the Base is designed to hold the Base into the bracket.

In all mounting conditions, it is highly recommended that you provide strain relief for any cables attached to the rear of the Base. The Base provides a small slot and matching hole on the bottom. A small cable tie (provided) should be inserted through this slot and then wrapped around any cables attached to the rear, as shown in Figure 2, 3, and 4.
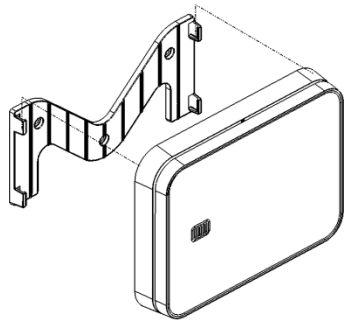
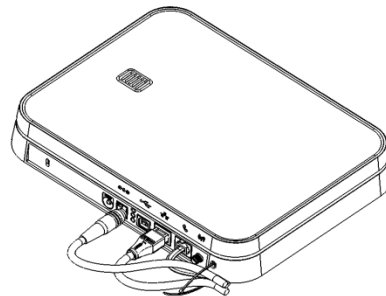Figure 1: Mounting Bracket   Figure 2: Cable Stress relief
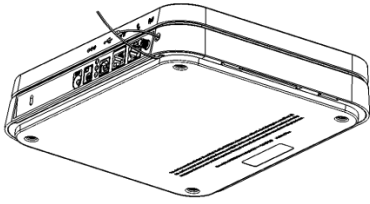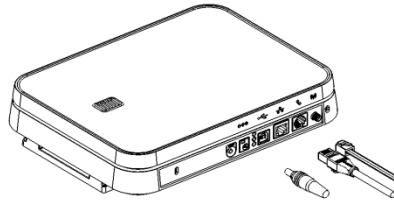
Figure 3: Tie wrap illustration   Figure 4: Cable connections

Power up the Base
Once you have mounted the Base, you can connect AC power. Use only WEPS10R1-15 Power Supply. Do not use any other adapter. Insert the power adapter plug fully into the jack on the back of the Base. Plug the power adapter into the wall outlet. The Base was shipped to you in a deep sleep state. The battery is connected, but all of the circuits are turned off. When you apply AC power for the first time, the Base will boot (in a similar fashion to your PC). This boot process takes about 30 seconds. Please see the LED descriptions if you want to monitor the completion of boot mode.

Do not use an electrical outlet that is controlled by a switch or part of ground fault circuit interrupter (GFCI) that could switch power off. Place the power adapter cord so that it does not create a trip hazard, or become pinched and create an electrical hazard.

Connect Base to the Internet
(and optionally to Telephone Line)

The Base can connect to the internet via an Ethernet cable or Wi-Fi. Because Wi-Fi signals can experience interference or loss of signal periodically, it is always preferred to connect via Ethernet cable whenever possible.

If you choose an Ethernet cable, simply connect the Ethernet cable between an available port on your router and the back of the Base. **NOTE:** If you are installing a router for the first time, refer to your router installation instructions before connecting the Base.

If you choose Wi-Fi, you must enter the Wi-Fi login information for your router into the Base. This can be done in two different methods. You can first connect the Base to the internet with the Ethernet cable. After the Base is connected, you can use the LifeView website or mobile apps to enter the Wi-Fi information. When you disconnected the Ethernet cable, the Base will automatically switch to Wi-Fi using the login information you provided.

The second method is possible just after power up and the Base completes booting. The Wi-Fi module is configured at the factory as an access point using the SSID and password on the Base label. You can use any Wi-Fi device, such as a tablet, phone, or laptop to connect directly to the

Base Wi-Fi without using a router. Once you connected, you will be automatically connected to a web page on the Base. Enter the Wi-Fi login information for your router into the Base and press Connect. The Base will leave access point mode and will then connect to your router.

You may optionally connect the telephone cord to the Base and telephone wall jack. The telephone line provides a backup path for alarm communications if your internet connection is not functioning.

Control

Once you have connected the Base to the internet, all control is via the LifeShield mobile apps and website.

Red button on rear panel. A momentary press of this button will cause the Base to reboot. This is not a common need and it is recommended that you do not press this button unless a LifeShield customer service representative has instructed you to press the button.

LEDs

The Base has a variety of LEDs included, primarily for diagnostic use. In most cases, you will not need to view the LEDs since the system status is available on your mobile apps, LifeView, and the wireless keypad. For reference, the LEDs have the following meanings:

Ethernet connector:
• Orange (left) – indicates link speed. On = 100 MBps. Off = 10 MBps.
• Green (right) – indicates link status. Off = no network detected. Solid on = network detected, but no activity. Flashing = data activity on the network)

Power connector:
• LED on = proper voltage detected from power supply
• LED off = no power supply or improper voltage detected from power supply

Rear panel LEDs:
• Red (top) = firmware what does this mean
• Green (middle) = 3G cellular activity. Off = no network detected. Solid on = connected to a local tower but no data transmission in process (this is the normal quiescent mode). Flashing = data transmission is process.
• Yellow (bottom) = Wi-Fi network activity. Off = no network detected or no network configured (not in use). Solid on = connected to router but no data transmission in process. Flashing = data transmission is process.

The front panel LED pipe is driven by 3 LEDs: Blue, Green, and Red. These LEDs are used in a variety of combinations to generate various colors.

The main purpose of these LEDs is to provide quick status at a glance. In most cases, you will view status on one of the LifeView mobile applications or website.

Boot Mode	Solid Yellow
Downloading Firmware	Fast Flashing Yellow
No Network Connection	Yellow/Red Alternating
Network, but not connected to IBP	Yellow/Green Alternating
Connected to IBP, Not Activated	Flashing Green
Connected to IBP, Activated	Solid Green (successful activation, transition state)
Normal Mode	
Disarmed – Ready to Arm	Solid Blue
Disarmed – Not Ready to Arm	Solid Yellow
Armed- Any	Solid Red
Alarm, Exit Alarm	Flashing Red
Entry Delay, Exit Delay, Exit Error	Flashing Orange
Trouble-Any	Flashing Yellow

USB Connector

Warning. The Base includes a USB connector on the rear panel. This USB connector is for factory use only. No user functions are accessible via this USB connector. This USB connector does not provide any power to a connected device.

External Cellular Antenna Connector

The Base includes an internal 3G cellular radio. This cellular radio requires activation in order to operate. You must purchase cellular service from LifeShield in order to activate this cellular radio. It is not possible to activate this cellular radio to your existing wireless plans that you may have already.

The cellular radio is shipped with an internal antenna. In most cases, this antenna is sufficient to connect to local cell towers. If you are not close to a tower, and the cellular radio cannot reliably connect to the cell tower, you may need to connect an external cellular antenna. Please contact customer service for price and availability of an external cellular antenna.

Battery

The Base includes an integrated 6600 mAH LiIon battery designed to operate the Base for 24 hours upon loss of AC power. The Battery pack model number is LS6600. The battery is not user replaceable. Please note that the Base is shipped in a deep sleep mode (like a smart phone or tablet), with very little power draw and a partial charge on the battery. When the Base is first plugged into AC power, the Base will automatically begin normal operations. It may take 24 to 48 hours for the battery to reach full charge. While the battery is initially charging, some operations like 3G cellular transmission may be limited due to insufficient battery charge. If the battery ever becomes fully discharged, the battery will again require 24-48 hours to reach full charge. During normal operation, the Base automatically maintains the charging of the battery and there is no action required on your part.

Warning

The battery in the Base is not designed to be user replaceable. If, however, the Base is ever opened and the battery removed, please note this warning. Rechargeable Lithium Ion batteries must be recycled or disposed of properly. Do not mutilate the battery pack. Do not dispose of the battery pack in a fire due to risk of explosion.

RISK OF EXPLOSION IF BATTERY REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

FCC Information

FCC Part 15

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 undesired operation.

CAUTION:

Changes and modifications to this product not expressly approved by LifeShield LLC could void not only the user's authority to operate this device, but also the limited warranty.

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

The antenna used with this product must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment should be serviced only by LifeShield LLC or its authorized agents.

FCC Part 68
This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the equipment there is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA.

Registration No.: Found on the bottom of the unit.

The Ringer Equivalence Number (REN) for this is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that a temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify you as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact LifeShield, Inc. at 1-888-392-2044 or support@LifeShield.com. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to a party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

You must not connect your phone to:
 • Coin-operated systems
 • Most electronic key telephone systems

If your home has separate wired alarm equipment connected to the telephone line at the same time LifeShield equipment is installed, ensure the installation of both sets of equipment do not

interfere with one another. If you have questions about what will disable the equipment, consult your telephone company or a qualified installer.

CAUTION:
To ensure proper operation, this equipment must be installed according to the enclosed installation instructions. To verify that the equipment is operating properly and can successfully report an alarm, this equipment must be tested immediately after installation, and periodically thereafter, according to the enclosed test instructions.

CAUTION:
This equipment cannot report an alarm over the telephone line when other non-LifeShield equipment (telephone, answering system, computer modem, etc.) connected to the same line is in use.
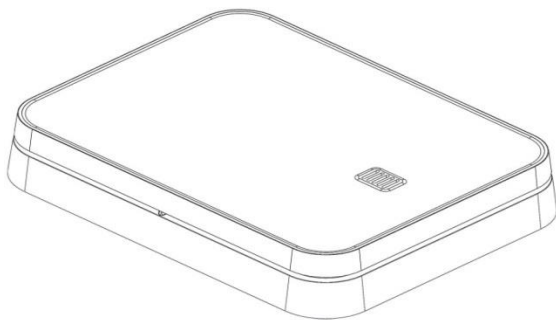
Figure 5: Front view   Figure 6: Back view