GENERAL INFORMATION

Each RJ-45 port on a Transceiver (model number nTXVR-250) has an associated LED that provides status information and programming feedback. Additionally, the Transceiver has a push-button that is used to interface with the unit. This instruction card provides information on how to interpret the LED blink patterns, as well as how to use the push-button to configure the unit's wireless capabilities.

POWER UP

When power is first applied to a Transceiver (or when the unit is reset), the LEDs will flash all ON together, then all OFF together. This will repeat several times.

INITIAL DEVICE DISCOVERY

When a new nLight device or a string of new nLight devices is plugged into a port, the corresponding LED will continuously flash quickly to indicate that the port is in discovery mode. Discovery should be completed within a few seconds. To force rediscovery, reset the Transceiver by pressing and holding the button for 6 seconds.

NORMAL LED OPERATION

- After discovery has finished, the port LEDs will operate in one of two modes: Activity Mode (default) or Device Count Mode.
- Pressing the button once toggles between the two modes.
- In Activity Mode, each port LED (in alternating sequence) will regularly blink one of the following states:
  - **1 Blink** = Port is polling connected zone of devices
  - **2 Blinks** = Port is wired to an upstream Transceiver/Bridge or the Gateway
  - **4 Blinks** = Port is wired to a Transceiver/Bridge further downstream from the Gateway
- In Device Count Mode, each port LED (in alternating sequence) will indicate the number of detected devices by blinking out a two digit number.

> **1st DIGIT** (pause) **2nd DIGIT**

- Rapid blinking indicates the number zero. If the count is greater than 99, three digits will be blinked in a similar manner.
- A port LED that does not blink, or blinks erratically, indicates a broken or miswired CAT-5 connection.

CREATING A NEW WIRELESS NETWORK*

- Press push-button 5 times.
- The LED closest to the push-button will blink 5 times to indicate it is searching for a clear RF channel.
- When a channel has been selected, the LED will transition to sets of three blinks, indicating that the new network allows joining for 15 minutes.
- Continue to the next wireless Transceiver/Bridge and press the button two times.
- The LED will flash back sets of two blinks while it searches for a joinable wireless network.
- When one has been found, the LED will again transition back to sets of three blinks, indicating the network allows joining for another 15 minutes.
- Once all desired devices are added, press the button 4 times on any Transceiver/Bridge in the newly commissioned network to disallow joining and return all network Transceiver LEDs to normal operation.

JOINING AN EXISTING WIRELESS NETWORK*

- Press button 3 times on any Transceiver/Bridge on the desired network.
- After a moment, all Transceiver/Bridges on the network will flash the three blink "allow joining" pattern for 15 minutes.
- Continue to the next wireless device and press the button two times.
- The LED closest to the push-button will flash back sets of two blinks while it searches for the joinable wireless network.
- When found, the LED will transition back to sets of three blinks, indicating the network will allow joining for another 15 minutes.
- Once all desired Transceivers/Bridges are added, press the button 4 times on any wireless in the newly commissioned network to disallow joining.

NOTE

*Note: For use with nLight wireless devices only

BUTTON FUNCTIONS*

Number represents number of button presses.

1	Toggle LED mode
2	Search for a joinable network
3	Allow joining
4	Disallow joining
5	Start a new network
6	Display signal strength

*Note: Holding button for six seconds resets the Transceiver

RADIO STATUS CODES

Codes are blinked on LED closest to button. Other LEDs are held solid while indicating status.

2	Searching for a joinable network
3	Allowing joining
4	More than one joinable network detected
5	Starting a new network (searching for the clearest channel)
6	Lost communications; joining or starting a new wireless network is required (Function 2 or 5)
7	A firmware update is currently in process
8	Firmware update failed; contact Tech Support

ADDITIONAL LED STATUS INFORMATION

- If Transceiver is in a state where port LEDs are blinking back and forth in sequence, reset Transceiver (press and hold button for six seconds). If state remains, contact Sensor Switch Technical Support.
- If Transceiver is in a state where port LEDs are blinking together, disconnect all port connection, and repower the unit. If state remains, contact Sensor Switch Technical Support.
- When Function 6 (Display signal strength) is selected, the signal strength is indicated on port LEDs 1+2.
- LEDs will blink 1-7 times, depending on the strength of signal (7 is the highest, 1 is the lowest).

nLIGHT
WIRELESS TRANSCEIVER
INSTRUCTIONS

sensor**switch**

1.800.PASSIVE