When there is no activity within a specified time period, the scanner enters low power mode. Scan the appropriate scanner power time-out bar code to change the time-out duration (in seconds).

If the scanner is not activated during the timer interval, the scanner goes into power down mode. Whenever the scanner is activated, the timer is reset. If Scanning While in Base Cradle (page 3-6) is disabled, the scanner will still go into power down mode. Default = 3600 seconds.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT_LPT0</td>
<td>Timer Off</td>
<td></td>
</tr>
<tr>
<td>BT_LPT400</td>
<td>400 seconds</td>
<td></td>
</tr>
<tr>
<td>BT_LPT900</td>
<td>900 seconds</td>
<td></td>
</tr>
<tr>
<td>BT_LPT1200</td>
<td>200 seconds</td>
<td></td>
</tr>
<tr>
<td>BT_LPT3600</td>
<td>*3600 seconds</td>
<td></td>
</tr>
<tr>
<td>BT_LPT7200</td>
<td>7200 seconds</td>
<td></td>
</tr>
</tbody>
</table>

Note: When the scanner is in power down mode, press the scanner’s button to power the unit back up. There will be a set of power up beeps and a delay of up to a few seconds for the radio to join. The scanner will then be ready to use.

**RangeGate**

If you need RangeGate functionality, the scanner can be programmed for Automatic Batch Mode (page 3-11), which offers equivalent capabilities.

**Batch Mode**

Batch mode is used to store bar code data when a scanner is out of range of its base, or when performing inventory. The data is transmitted to the base once the scanner is back in range or when the records are manually transmitted.

**Automatic Batch Mode** stores bar code data when the scanner is out of range of the base. The data is automatically transmitted to the base once the scanner is back in range. When the scanner’s buffer space is full, any bar codes scanned generate an error tone. In order to scan bar codes again, the scanner must be moved back into range of the base so data can be transmitted.

**Inventory Batch Mode** stores bar code data, whether or not you are in range of the base. To transmit the stored data to the base, either place the scanner in the base, or scan Transmit Inventory Records (page 3-15). When the scanner’s buffer space is full, any bar codes scanned generate an error tone. In order to scan bar codes again, the data must be transmitted to the base.
When data is scanned, the data is sent to the host system via the base. The cordless scanner recognizes data acknowledgment (ACK) from the base. If it cannot be determined that the data has been properly sent to the base, the scanner issues an error indication. You must then check to see if the scanned data was received by the host system.

**RF (Radio Frequency) Module Operation**

The cordless system uses a two-way Bluetooth® radio to transmit and receive data between the scanner and the base. Designed for point-to-point and multipoint-to-single point applications, the radio operates using a license-free ISM band. This band sends relatively small data packets at a fast data rate over a radio signal with randomly changing frequencies. This makes the cordless system highly responsive to a wide variety of data collection applications and resistant to noisy RF environments. The Bluetooth Class 2 power level provides a communication range of 33 feet (10m) between the scanner and base, depending on the environment.

**System Conditions**

The components of the cordless system interact in specific ways as you associate the scanner with its base, as you move a scanner out of range, or bring a scanner back in range. The following information explains the cordless system operating conditions.

**Linking Process**

Once a scanner is placed into a cordless charge base, the scanner's battery charge status is checked, and software automatically detects the scanner and links it to the base depending on the selected link mode.

**Scanner Is Out of Range**

The cordless scanner is in communication with its base, even when it is not transmitting barcode data. Whenever the scanner can't communicate with the base for a few seconds, it is out of range. If the scanner is out of range and you scan a barcode, the scanner issues an error tone indicating no communication with the base. A cordless charge base can also sound an alarm. Refer to Out-of-Range Alarm, page 3-9.

**Scanner Is Moved Back Into Range**

The scanner relinks if the scanner or the base have been reset, or the scanner comes back into range. If the scanner relinks, you will hear a single chirp when the relinking process is complete. Refer to Out-of-Range Alarm on page 3-9 for further information.

**Out of Range and Back into Range with Batch Mode On**

The scanner may store a number of symbols (approximately 14,000 U.P.C. symbols; others may vary) when it is out of range and then send them to the base when back in range (see Batch Mode on page 3-10).
Default = Batch Mode Off.

**Batch Mode Beep**
When scanning in Batch Mode, the scanner beeps every time a bar code is scanned. When **Batch Mode Beep** is On, you will also hear a click when each bar code is sent to the host. If you do not want to hear these clicks, scan **Batch Mode Beep Off**. Default = Batch Mode Beep Off.

**Batch Mode Quantity**
When in Inventory Batch Mode (page 3-11), you may wish to transmit the number of multiple bar codes scanned, rather than a single bar code multiple times. For example, if you scan three bar codes called XYZ with **Batch Mode Quantity Off**, when you transmit your data it will appear as XYZ three times. Using **Batch Mode Quantity On** and the **Quantity Codes** (page 3-12), you could output your data as "00003, XYZ" instead. Default = Batch Mode Quantity Off.

**Entering Quantities**
Quantity Codes (page 3-12) allow you to enter a quantity for the last item scanned, up to 9999 (default = 1). Quantity digits are shifted from right to left, so if a 5th digit is scanned, the 1st digit scanned is discarded and the 2nd, 3rd and 4th digits are moved to the left to accommodate the new digit.

For example, if the Quantity 5 bar code is scanned after the quantity has been set to 1234, then the 1 is dropped, the quantity will be 2345.
Clear All Codes After Transmission

If you want to clear the scanner’s buffer of all data accumulated in Batch Mode after the data has been transmitted to the host system, scan Clear All Codes After Transmission. If you do not want the buffer cleared after transmission, scan Don’t Clear All Codes After Transmission. Default = Don’t Clear All Codes After Transmission.

Clear All Codes

If you want to clear the scanner’s buffer of all data accumulated in Batch Mode, scan Clear All Codes.

Transmit Records Automatically

If you are operating in Inventory Batch Mode (see Inventory Batch Mode on page 3-11), you can transmit all stored data to the host system when the scanner is placed in the base. If you don’t want the records transmitted when the scanner is placed in the base, scan the Don’t Transmit Records Automatically bar code. Default = Don’t Transmit Records Automatically.
Transmit Records to Host

If you are operating in Inventory Batch Mode (see Inventory Batch Mode on page 3-11), and your scanner is set to Don’t Transmit Records Automatically, you must scan the following bar code to transmit all stored records to the host system.

BAT_TX
Transmit Inventory Records

Batch Mode Transmit Delay

Sometimes when accumulated scans are sent to the host system, the transmission of those scans is too fast for the application to process. To program a transmit delay between accumulated scans, scan one of the following delays. Default = Off.

Note: In most cases, a short (250 ms (milliseconds)) delay is ideal; however, longer delays may be programmed. Contact Technical Support (page 13-1) for additional information.

* Batch Mode Transmit Delay Off (No Delay)

BATLY0

Batch Mode Transmit Delay Short (250 ms)

BATLY250

Batch Mode Transmit Delay Medium (500 ms)

BATLY500

Batch Mode Transmit Delay Long (1000 ms)

BATLY1000

Scanner Name

You may assign a name to each scanner you are using for identification purposes. The default name is “Voyager.”

Perform the rename operation using either the bar codes on page 3-16, or by sending the serial command :Voyager:BT_NAM-name. where name is the new name for the scanner. If you wish to change the names of additional scanners, link them to the base one at a time and repeat the :Voyager:BT_NAM-name command for each scanner.

To rename scanners with sequential, numeric names, scan the following bar codes. Scan the Reset code after each name change and wait for the scanner to relink to the base.

BT_NAM00001.
0001