iPhone battery status icon

Sled battery status icon

Scanned barcode data

Figure 13

The screen includes a sled battery status icon at the upper right corner, just below the iPhone battery status icon (Figure 13). Barcodes can be read by either pressing the soft scan button or the physical button to the right of the sled. All data can be cleared out simultaneously by pressing the Clear All button.

LED Indicators

The sled LED indicator light (Figure 14) displays status depending on various states as described in Figure 15.

Figure 14

State	Sled LED Behavior
Successful Barcode Decode.	Flashes green once.
Unsuccessful Barcode Decode.	None.
Unit Booting.	Flashes red. Pauses for 10 seconds, then green.
Firmware Update.	Flashes yellow during update, then green.
Sled Battery State While Not Charging	**Sled LED Behavior**
(when not charging, press the scan button to view sled battery status)	
31 – 100%	None.
11 – 30%	Flashes yellow 3 times.
0 – 10%	Flashes red 3 times.
Sled Battery State While Charging	**Sled LED Behavior**
96 – 100%	Solid green.
31 – 95%	Flashes green.
11 – 30%	Flashes yellow.
0 – 10%	Flashes red.

Figure 15

Note: Audible and vibration feedback options may be available based on the mobile app being used.

Additional Resources

For more product information, including power management and configuration instructions refer to the CR4405 User Manual, Configuration Guide and SDK available for download from www.codecorp.com/files.php.

Code Reader™ 4405 (CR4405)

The CR4405 sled is compatible for use with the Apple® iPhone® 5 and 5s.
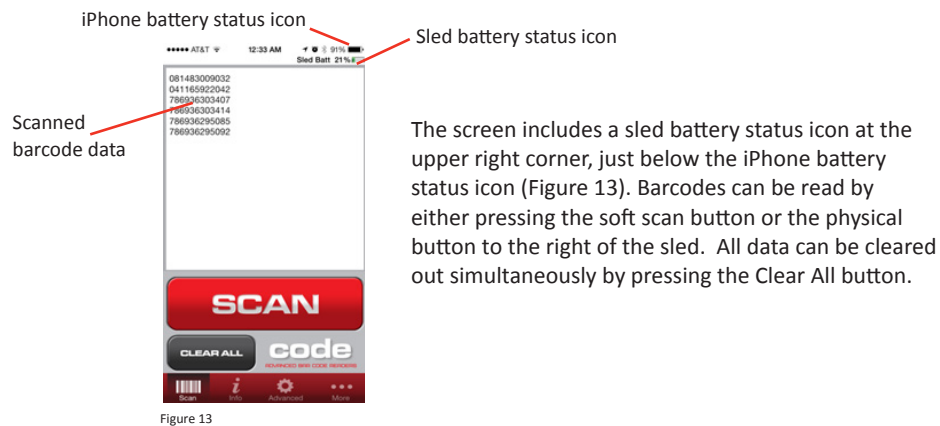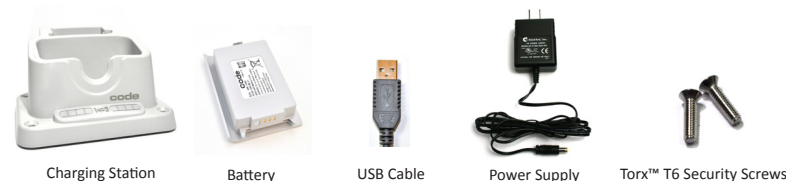Note: phone not included.

Included with your CR4405

Depending on the kit ordered, the following may have been shipped with your sled:

Charging Station	Battery	USB Cable	Power Supply	Torx™ T6 Security Screws

Battery Installation and Removal

Place the battery into the sled as shown in Figure 1. Once in place, the battery latch will swivel into a locked position indicating proper installation (Figure 2). If desired, a Torx T6 screw can be inserted in the latch to prevent battery removal (Figure 3).

Figure 1

Figure 2

Figure 3

Phone Installation

Open the three security latches on the sled (Figure 4), slide the phone on to the connector (Figure 5). Close the cover and secure the latches. Phone removal is done in reverse. Be careful to not bend the electrical connector outward while sliding the phone away from it.
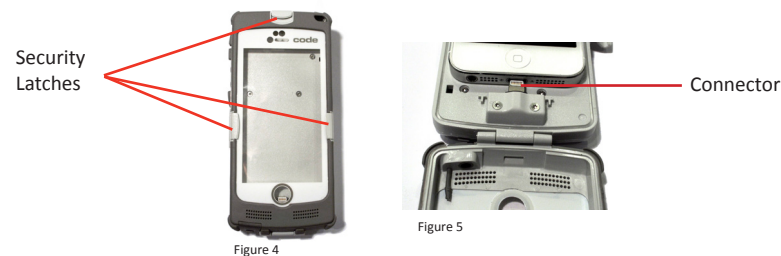
Security Latches

Connector

Figure 4

Figure 5

Charging the CR4405 Sled Battery

There are two ways to charge the CR4405: 1) Docking the sled in the Charging Station powered by an AC adapter or by USB, and 2) Directly connecting the sled to a USB powered cable.

Note: Batteries ship with approximately 50% battery life and should be completely charged before initial use.

Docking the Sled in the Charging Station

1. Plug the barrel side of the AC adapter or USB charge cable into the power jack of the charging station (Figure 6).
2. Plug the AC adapter into a wall outlet or USB cable into a computer's USB port
3. Insert the sled (with battery installed) in the larger front bay (Figure 7).
4. Two banks each consisting of four charge status LED indicators are located on the front of the Charging Station. All four LEDs of LED Bank 1 will rapidly flash indicating readiness to charge, and will then display the sled's battery status as shown in Figure 8.

Figure 6

Figure 7

Sled Battery Status	LED Display On Charging Station
91 – 100%	
61 – 90%	
31 – 60%	
0 – 30%	

Figure 8

USB Direct Connection to Sled

1. Plug the Micro-B side of the USB cable into the sled (Figure 9).
2. Plug the other side of the USB cable into a computer USB port.
3. During charging, the LED located at the top right corner of the sled (Figure 9) will light up according to Figure 15.

Figure 9

NOTE: The USB cable provided was custom developed to reduce charge time. Using a non-Code cable may significantly increase the charge time.

Powering on the Sled

With the phone inserted in the sled, if the phone is off, press the button on the top of the sled to turn it on (Figure 10).

Power On

Figure 10

Scan Button

Home Button

Figure 11

Using the CR4405

With the iPhone inserted, navigate to the Home Screen and touch the Notes icon as an example. Notes is a standard iPhone application that can receive scanned in data as if it were entered via a keyboard.

NOTE: The CR4405 sled's default communication mode which supports this type of scanning is called iPhone Keyboard Mode.

Press the scan button on the right side of the CR4405 (Figure 11). Two blue bars emitting from the reader shine from targeting LEDs. Center the blue bars in the middle of a barcode (Figure 12). When the barcode is in the reader's field of view and at the optimal distance (4" from the barcode), the reader will automatically read the barcode and the sled LED will flash green once. The data will display in the Notes app. If the sled does not successfully read the barcode, then the sled LED status indicator will not flash.

Figure 12

Using CortexMobile™

CortexMobile is an iPhone 5/5s software application developed by Code to demonstrate the CR4405's capabilities. This software app can serve as a reference for programmers who use Code's SDK to build other apps which can be downloaded to the iPhone from the Apple® App Store℠. The sled must be in iPhone App Communication Mode to run Code SDK-based applications (refer to the CR4405 Configuration Guide from www.codecorp.com/files.php). After downloading, click on the app icon to open CortexMobile.