socket mobile

socketmobile.com

SERIES 700

DURASCAN™

Bluetooth Barcode Scanner

Model D750

www.socketmobile.com

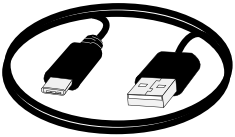
TABLE OF CONTENTS

TABLE OF CONTENTS

PACKAGE CONTENTS

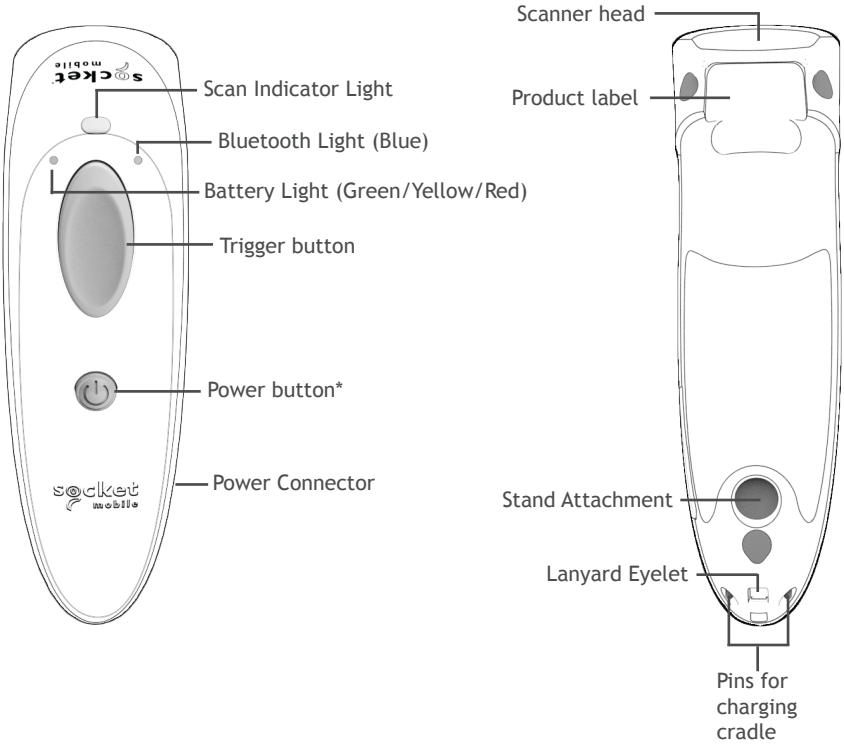
DuraScan
D750

Lanyard



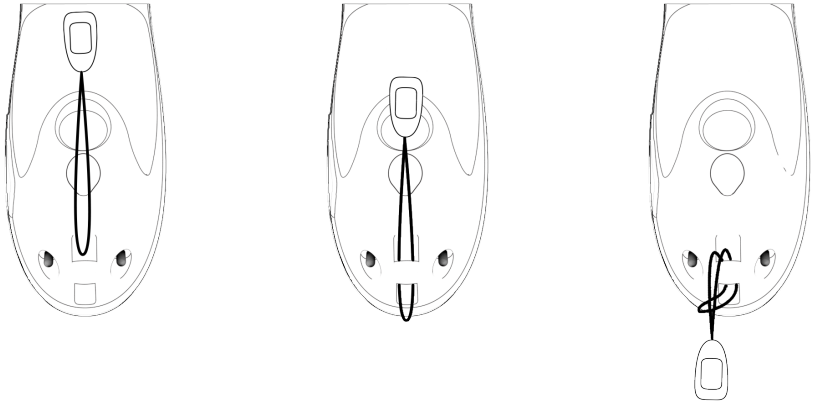
USB A to USB
Type-C Cable

Thank you for choosing Socket Mobile!
Let’s get started!



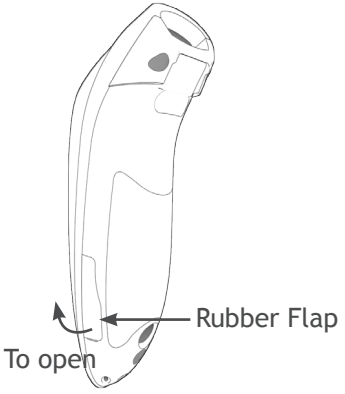
The D750 has a protection rating of IP54 for dust and water protection. It is also made with antimicrobial additives for protection against harmful microbes.

*Also used to display the on-screen keyboard in Basic Mode (iOS only).



Attach the Lanyard (optional)

1. Detach the string loop of the tether from the lanyard.
2. Feed the string loop through the eyelet.
3. Pull tight so the string loop is secure.
4. Reattach the string loop to the tether from the lanyard.



The scanner must be fully charged before first use. Please allow 6 hours uninterrupted charging for the ***initial*** battery charge.

Lift the rubber flap to access the power connector.

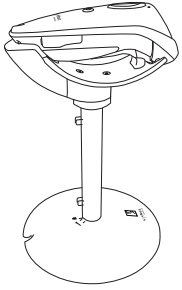
- Yellow/Amber Light = Charging
- Green Light = Fully charged

Important: Charging from a computer USB port is not reliable and not recommended.

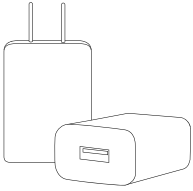
OPTIONAL CHARGING ACCESSORIES

Available separately.

Charging Cradle

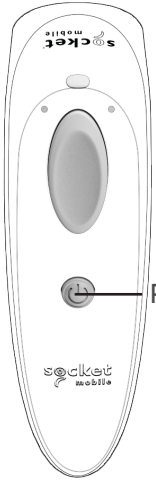


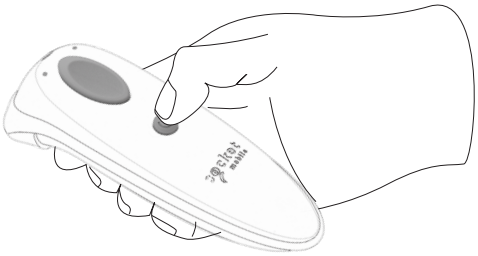
Charging Stand



AC Power Supply
International Adapters available

For all optional accessories visit our Socket Store.





Powering On:

Press and hold down the small power button until the Battery light turns on and the scanner beeps twice (low-high).

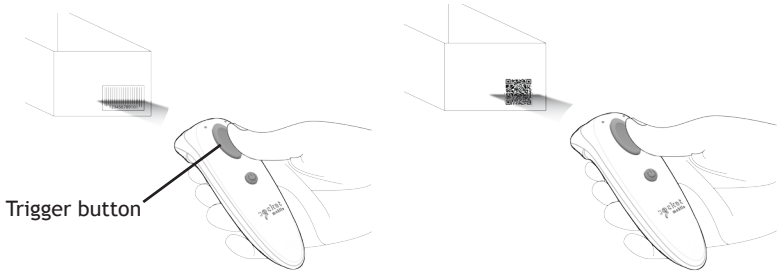
Powering Off/ Disconnecting:

Press and hold down the small power button until the scanner beeps twice (high-low) and lights turn off.

The scanner will power off automatically if device is not connected within 5 minutes. Scanner connected to a device will power off within 2 hours if idle/inactive.

1D Barcode
Aim the scan beam straight across the entire barcode.

2D Barcode
Aim at the center.



Scanning Barcodes

1. Hold the scanner a few inches from the barcode.
2. Aim, press and hold the trigger button.

By default, the scanner will beep, vibrate, and the scan indicator will flash green to confirm a successful scan.

Caution: Do not stare directly into the scanner light beam.

BLUETOOTH CONNECTION MODES

Connect your scanner using one of the following Bluetooth connection modes:

Bluetooth Connection Profiles

Bluetooth Mode	Description
Basic Mode (HID) (Default)* Human Interface Device Profile	• NO software installation required • Connects to most devices • Good for barcodes containing small amounts of data • Scanner interacts with host device like a keyboard
Application Mode (SPP) Serial Port Profile	For Android or Windows • Software installation is required • More efficient and reliable data communications for barcodes containing lots of data • If you have an application that supports Socket Mobile Scanners this is the mode recommended
Application Mode (MFi-SPP) Apple Specific Serial Profile	For iOS Devices • Must use with an App developed to work with iOS devices • Software installation is required • If you have an iOS application that supports Socket Mobile Scanners this is the mode you want to use

***By default, the scanner is set to Basic Mode (HID).**

Operating System Connection Options

Operating Systems (OS)	Devices	Bluetooth HID Support	Bluetooth SPP Support	Bluetooth Apple Serial Specific (MFi Mode)
Android	Android 4.0.3 & later	Yes	Yes	N/A
Apple iOS	iPod, iPhone, & iPad	Yes	N/A	Yes
Windows Mobile	Windows Mobile 6.x (SoMo only)	Yes	Yes	N/A
Windows PC	Windows 7, 8, 10	Yes	Yes	N/A
Mac OS	Mac OS X 10.4 to 10.X Mac Books, Mac Mini, & iMac	Yes	No	N/A

Note: To switch from one mode to the other you must remove the pairing information from both devices - host computer and the scanner. (see unpairing procedure on page 21)

Android: Connect Android Device in Basic Mode

In this mode the scanner functions and communicates similar to a keyboard. Therefore, scanner will work with Notes, and any other application that support an active cursor.

1. Power on the scanner. Make sure the scanner is discoverable (unpaired) The Blue light blinks fast.
2. Settings | Bluetooth.
3. Make sure the device has Bluetooth “On” and scan for devices.
4. In the list of found devices, select D750 [xxxxxx]. Tap Pair.
5. The scanner will connect to the Android device.
6. The scanner will beep once after it has connected.

**If you have trouble connecting or pairing with host device, turn host device’s Bluetooh off/on, and/or perform factory reset to the scanner (see page 44).*

Now you are ready to scan barcodes!

Apple: Connect to Apple iOS Device or Mac OS Device Basic Mode

In this mode the scanner functions and communicates similar to a keyboard. Therefore, scanner will work with Safari, Notes, and any other application that support an active cursor.

1. Power on the scanner. Make sure the scanner is discoverable (unpaired). The Blue light blinks fast.
2. Start a Bluetooth device search.
   - Settings | Bluetooth: Turn on Bluetooth and search for device.
   - Mac OS: Click System Preferences | Bluetooth. A Bluetooth device search will begin.
3. In the device list, tap on D750 [xxxxxx]. Tap Pair.
4. The scanner will connect to the Apple device.
5. The scanner will beep once after it has connected.

Now you are ready to scan barcodes!

To use the virtual keyboard while the scanner is connected, double tap on the power button. See YouTube video for demonstration.

Connect Android or Windows Mobile Device:

In this mode the scanner functions and communicates similar to a keyboard. Therefore, scanner will work with Notes, and any other application that support an active cursor.

1. Power on the scanner and scan this barcode. The scanner will beep 3 times. Make sure the scanner is discoverable (unpaired). The blue light will blink fast.

(Scanning this barcode changes the connection mode)

2. Turn Bluetooth on for your device. Go to Settings > Bluetooth. A Bluetooth Devices search will begin.
3. Tap Socket D750[xxxxxx] in the list of Devices found. After a few seconds the “Not Paired” status will change to “Connected” or “Paired” and the scanner blue light will stop blinking and turn solid blue.

Now you are ready to scan barcodes!

Connect Android device in Application Mode using EZ Pair

Install Software

1. Go to GooglePlay Store, search for “SocketScan ”.
2. Download & install. Follow the on screen instructions.

Getting Started

3. Follow the on screen instructions.
4. Tap on screen the ON SCREEN button.
5. Tap on screen the 2D SCANNER button.
6. Scan the barcode on the device screen. Wait a few seconds. The scanner will beep 3 times indicating it has accepted the command to connect to your device.
7. When notified of a pairing request, swipe the notification icon down, then tap Pairing request.
8. On the next screen, tap Pair.
9. The scanner will beep once to indicate connected state and is ready to scan barcodes. Tap Back to close Socket EZ Pair.
10. If you are connecting a scanner which is not registered, a scanner registration icon will appear on top of the screen. Swipe the icon down to open the registration screen. Follow the instructions to register your Scanner. Socket Mobile highly recommends that all customers register their products for future updates, but registration is optional.

Now you are ready to scan barcodes!

Connect Windows PC in Application Mode

Note: Make sure you have administrative privileges.

1. Download the latest SocketScan 10 software from Socket Mobile's support web page.
2. Follow the on-screen instructions to install the software.
3. In SocketScan 10 Settings, select an incoming Bluetooth serial COM port.

Note: If there is none please click Ports to create at least one new incoming COM port in Bluetooth settings.

4. Click Finish.

Now you are ready to scan barcodes!

To pair the scanner with Windows PC using EZ Pair:

1. Power on the scanner. Make sure the scanner is available to be connected to Bluetooth (unpaired).
2. Launch SocketScan 10 and click on the SocketScan 10 icon in the task tray. In the pop-up menu, click Socket EZ Pair.
3. Click **2D** scanner accordingly.
4. Scan the barcode that appears on the screen.
5. The PC will automatically try to pair with the scanner. If prompted to allow the pairing, click Yes. If prompted for a passkey, enter 0000 (four zeroes).
6. After the scanner connects, it will beep once. Close Socket EZ Pair.
   6a. In Windows 10 if this step can not be done, open the Bluetooth settings and add and pair the scanner manually.
7. If you are connecting a scanner which is not registered, a scanner registration icon will appear on top of the screen. Follow the instructions to register your scanner. Socket Mobile highly recommends that all customers register their products, but registration is optional.
8. The task tray icon will change to indicate the status of the connection.

Now you are ready to scan barcodes.

Made for iPod iPhone iPad

Connect Apple iOS device in Application Mode

Please check with your scanner application vendor or visit www.socketmobile.com/appstore to confirm your scanner-enabled application supports the scanner.

If you are using the scanner with an Apple iOS device and a scanner-enabled Application that does not provide instructions how to connect your scanner, please use the following steps.

1. Power on the scanner. Make sure the scanner is discoverable (unpaired). The Blue light should be blinking fast.

2. To change the profile to Application Mode scan this barcode. The scanner will beep 3 times.

Use with iPad, iPod touch, and iPhones.

(Scanning this barcode changes the connection mode)

3. Turn on Bluetooth on the Apple device. Go to Settings > Bluetooth. A Bluetooth Devices search will begin

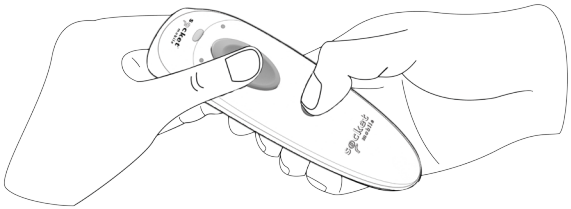
(Continue on page 20)

4. Tap Socket D750[xxxxxx] in the list of other devices found. After a few seconds the “Not Paired” status will change to “Connected” or “Paired” and the scanner blue LED will stop blinking and turn solid blue.

Note: The characters in brackets are the last 6 characters of the Bluetooth Address.

5. Launch your scanner-enabled Application. The scanner will beep once indicating that it is connected to the appropriate application.

Now you are ready to scan barcodes!



Note: This procedure will put the scanner in discoverable mode.

Step 1: Unpairing the scanner: Delete the Bluetooth Pairing

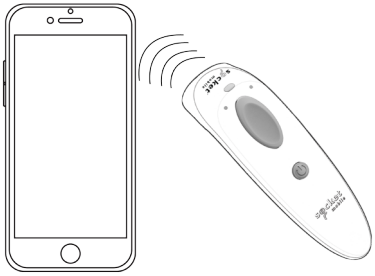
If the scanner is paired with a device, unpair it before trying to connect to a different device.

a. Power on the scanner.
b. Press the trigger button then power button and hold both until you hear 3 beeps.

The scanner will unpair and automatically power off. The next time you power on the scanner, it will be discoverable.

Step 2: Remove or forget the scanner from the Bluetooth list on the host device.

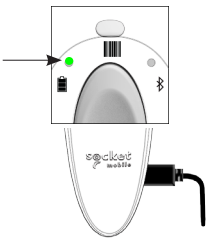
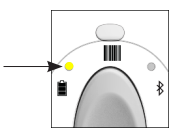
Important: Both steps above must be done to complete the unpairing.

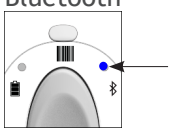


Automatic Reconnections

Each time you power on the scanner, it will automatically try to connect to the last device it was connected to.

- Make sure the device is in range with Bluetooth turned on.
- Pressing the trigger button will initiate the attempts to connect.
- If using Application Mode, make sure the Scanner-enabled Application is launched or running.
- If a connection is made, the blue light will stop blinking and turn solid.
- If a connection is not made after several attempts, the scanner will emit a long beep (and the blue light will turn off).
- Press the trigger button to re-initiate the connction process.

Battery Charging when plugged into Power Supply	LED Activity	Meaning
	Blinking Yellow	Charging the battery
	Solid Green	Battery is 100% full
Battery Status When not connected to power supply	**LED Activity**	**Meaning**
	Solid Green	Battery capacity from 100% to 25%
	Solid Yellow	Battery capacity from 25% to 10%
	Solid Red	Warning - Battery capacity below 10%
	Blinking Red	Charge immediately! The battery level is critically low. Alternatively, if battery capacity is unknown battery status will blink red until the power is applied & scanner is fully charged.

Bluetooth	LED Activity	Meaning
Bluetooth 	Quick Blinking Blue (2 blinks every second)	Discoverable - waiting for a host Bluetooth connection.
	Slow Blinking Blue (1 blink every second)	Attempting to connect to a paired device. Searching the last known Host. Note: Will STOP attempting after approx. 1 minute.
	No Light - No Activity	Scanner has attempted to connect and failed. Press trigger button to try again.
	Solid Blue	Scanner Connected
Scan/Read	**LED Activity**	**Meaning**
Scan/Read 	Blink Green Once	Good Scan/Read
	Blink Red Once	Bad Scan/Read
	Solid Red - for as long as power button is pressed	Power Button Pressed
	Quick Blinking Green (2 blinks every second)	Scanner is in bootloader mode during firmware upgrade.

Beep Pattern	Sound Meaning
Low-High Tone	Power On
High-Low Tone	Power Off
High-High Tone	Power Supply detected and scanner started charging
1 Low Beep	Scanner has toggled on-screen keyboard or keyboard toggle feature is enabled (iOS devices only)
1 Beep	Scanner connected to device and is ready to scan barcodes
1 Beep	Data successfully scanned
2 Beeps (same tone)	Scanner disconnected
1 Long Beep	Scanner gave up searching for a host
3 Beeps (escalating tone)	Scanner has been reconfigured (the command scanned successfully)
3 Beeps (escalating tone followed by long tone)	The command barcode did NOT work! (Verify if the command barcode used is valid for your scanner and try again)

Vibrate	Meaning
Vibrate	Data successfully scanned

Command Barcodes are available on pages 43-46 to modify the LED, beep, and vibrate settings.

If you are using a scanner-enabled application, typically the application provides settings for LED, beep, and vibrate settings.

Configuration Settings

Time after powering on Scanner	Bluetooth mode
0-5 minutes	Discoverable and connectable
5 minutes	If connection is not made, scanner powers off
2 hours	If your scanner is connected but not used it will power off in 2 hours. When trigger button is pressed the timer is reset.

Specifications	D750
Dimensions (L x W x H)	5.2” x 1.5” x 1.6” (132.2 x 37.1 x 40.1 mm)
Total Mass	3.8 oz (108 g)
Antimicrobial	Antimicrobial additive in all external surfaces
Battery:	1400 mAh Lithium - Ion Battery
Charge Time:	6 Hours
Battery Life - Per Full Charge:	Standby time: over 30 hours Active Scan Time: 70,000 scans within 9 hours (based on 2 scans every 1 second) or 14,000 scans within 16 hours (calculation based on 1 scan every 4 seconds) *Note: Battery life varies depending on operating conditions.*
Bluetooth Version	Class 1 Bluetooth v2.1 + EDR with 56 bit data encryption
Wireless Range	100 m (330ft) Line of sight
Scanner Type	1D/2D Barcode Omni-directional Imager with highly visible light

Specifications	D750
Symbologies	All major 1D and 2D barcodes
Supported Language Settings (in Basic Mode (HID))	English, French, German, Spanish
Systems/Battery Chargers	Rated output: 5.1v, 1.0A
Ambient Light:	From 0 to 100 000 lux From pitch black to direct sun light
Operating Temperature:	-20° to 50° C (-4° to 122° F)
Storage Temperature:	-40° to 70° C (-40° to 158° F)
Relative Humidity:	95% at 60° C (140° F) (non-condensing), 4 days
Sealing:	IP54 (Ingress Protection rating for dust and water) EN60529
Drop Specifications:	Multiple 5 ft. drops to concrete
Tumble Specification:	250 cycles at 1.64 ft. (0.5 m) (500 drops), IEC60062-2-31

Technical Support & Product Registration:
https://support.socketmobile.com
Phone: 800-279-1390 +1-510-933-3020 (worldwide)

Warranty Checker:
https://www.socketmobile.com/support/warranty-checker

Socket Mobile Developer Program:
Learn more at: http://www.socketmobile.com/developers

The User's Guide (full installation and usage instructions) and Command Barcodes (Advanced Scanner Configurations) can be download at:
https://www.socketmobile.com/support/downloads

WARNING: Failure to follow these safety instructions could result in fire or other injury or damage to the barcode scanners or other property.

Carrying and Handling the DuraScan barcode scanners: The Socket Mobile barcode scanner contains sensitive components. Do not disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate, paint, or insert foreign objects into this unit.

Do not attempt to disassemble the product. Should your unit need service, contact Socket Mobile technical support at https://support.socketmobile.com/

Changes or modifications of this product, not expressly approved by Socket Mobile may void the user's authority to use the equipment.

Do not charge the DuraScan barcode scanner using an AC adapter when operating the unit outdoors, or in the rain.

Operating Temperature - this product is designed for a maximum ambient temperature of 50° degrees C or 122° degrees F.

FCC ID: LUBD750

Federal Communication Commission Interference Statement
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 of the following measures:

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

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. 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

IC ID: 2925A-D750

Industrie Canada Industry Canada

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CE Marking & European Union Compliance

Products intended for sale within the European Union are marked with a CE Mark, which indicates compliance to applicable Directives and European Normes (EN), as follows. Amendments to these Directivces or ENs are included: Normes (EN), as follows:

Applicable Directives:

- Bluetooth Products: R&TTE Directive 2014/53EW
- Low Voltage Directives: 2014/35/EU, and 2006/95/EC
- EMC Directive: 2004/108/EU
- Rotts Directive: 2011/65/EU
- WEEE Directive: 2012/19/EU

SAFETY: EN 60950-1: 2006/A11
:2009/A1
:2010/A12
:2011/A2:2013

BATTERY WARNING STATEMENTS

This device contains a rechargeable Lithium-Ion battery.

Stop charging DuraScan barcode scanners if charging isn't completed within the normal specified time (approx. 6 hours).

Stop charging the battery if the DuraScan barcode scanner case becomes abnormally hot, or shows signs of odor, discoloration, deformation, or abnormal conditions is detected during use, charge, or storage.

Stop using the DuraScan barcode scanner if the enclosure is cracked, swollen or shows any other signs of mis-use. Discontinue immediately and promptly dispose of unit.

Your device contains a rechargeable Lithium-Ion battery which may present a risk of fire or chemical burn if mistreated. Do not charge or use the unit in a car or similar place where the inside temperature may be over 60 degrees C or 140 degrees F.

- Never throw the battery into a fire, as that could cause the battery to explode.
- Never short circuit the battery by bringing the terminals in contact with another metal object. This could cause personal injury, or fire, and could also damage the battery.
- Never dispose of used batteries with other ordinary solid wastes. Batteries contain toxic substances.

- Dispose of used batteries in accordance with the prevailing community regulations that apply to the disposal of batteries.
- Never expose this product or the battery to any liquids.
- Do not shock the battery by dropping it or throwing it.

If this unit shows any type of damage, such as bulging, swelling or disfigurement, discontinue use and promptly dispose.

Product Disposal
Your device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.

Caution: DO NOT STARE DIRECTLY INTO THE LED BEAM.

LED DEVICE:
The DuraScan D700 and D750 contain a LED-type scan engine.

For the Class 1 LED version of this engine, the following applies:

• Complies with IEC 60825-1:2001-08, and EN 60825-1:1994 + A1 + A2

• LED output is in the 630-670nm range (visible red).

• Class 1 LED devices are not considered to be hazardous when used for their intended purpose.
The following statement is required to comply with US and international regulations:

Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous LED light exposure.

CE MARKING AND EUROPEAN UNION COMPLIANCE
Testing for compliance to CE requirements was performed by an independent laboratory. The unit under test was found compliant with all the applicable Directives, 2004/108/EC and 2006/95/EC.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT
The WEEE directive places an obligation on all EU-based manufacturers and importers to take-back electronic products at the end of their useful life.

RoHS STATEMENT OF COMPLIANCE
This product is compliant to Directive 2011/95/EC.

NON-MODIFICATION STATEMENT
Changes or modifications not expressly approved by the party responsible for compliance.

Socket Mobile Incorporated (Socket) warrants this product against defects in material and workmanship, under normal use and service, for one (1) year from the date of purchase. Product must be purchased new from a Socket Authorized Distributor or Reseller. Used products and products purchased through non-authorized channels are not eligible for this warranty support.

Warranty benefits are in addition to rights provided under local consumer laws. You may be required to furnish proof of purchase details when making a claim under this warranty.

Consumables such as batteries, removable cables, cases, straps, and chargers: 90 day coverage only

For more warranty information, please visit:
https://www.socketmobile.com/support/downloads

Scan command barcode(s) to quickly configure the Scanner.

Make sure the scanner is not connected to a device before scanning a command barcode! See page 22 for unpairing instructions.

For a complete set of command barcodes, download the Command Barcodes Sheet: https://www.socketmobile.com/support/download

Important! Make sure the scanner is not connected to a host computer or device before scanning a command barcode!

Bluetooth Connection Modes	
Basic Mode (HID) *(default)* Configures the Scanner to Human Interface Device (HID) mode as a Keyboard class device #FNB00F40001#	
Application Mode (SPP) Changes the Scanner to Serial Port Profile (SPP) mode #FNB00F40000#	
Application Mode (MFi-SPP) Changes the Scanner to MFi mode for Apple iOS Devices #FNB00F40002#	

Important! Make sure the Scanner is not connected to a host computer or device before scanning a command barcode!

Beep Settings	
Beep after scanner Decodes Data ON (default) Enables scanner to beep to indicate successful scans. #FNB0119E000100030078004B#	
Beep after scanner Decodes Data OFF Disables scanner from beeping to indicate successful scans. #FNB01190E000100000078004B#	

Vibrate Settings	
Vibrate ON (default) Enables scanner to vibrate to indicate successful scans. #FNB013100010000100FA0000#	
Vibrate OFF Disables scanner from vibrating to indicate successful scans. #FNB013100010000#	

Factory Default	
Factory Reset Revert all settings to factory defaults. The scanner will power off after scanning this barcode. #FNB00F0#	

For more command codes go to:
https://www.socketmobile.com/support/download

Extend Your Warranty...

SocketCare™

Protect Your Investment...
Enhance Your Service

Receive Priority Service and Personal Care.

You have 60 Days from purchase date to enroll in a SocketCare Service Program!

For detailed information visit:

https://www.socketmobile.com/socketcare