



# Grabba Q-Series

For iPhone 5/5S and iPod touch 5th Generation



**Capture Data on the Go**

**Authenticate and Verify**

**Fast, Secure, Portable**

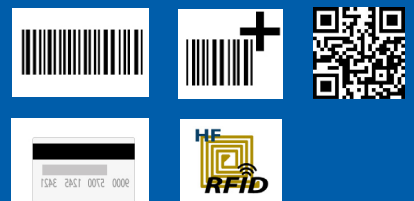
## FEATURES & BENEFITS

- Configurable to contain only the required technologies
- iPhone and iPod touch buttons and features can be used with Grabba in place
- Durable, compact, light-weight, ergonomic with a pleasant tactile feel
- Easy to attach and detach
- Battery charging via USB for both Grabba and iPhone/iPod touch
- LED gauge for verification of the battery life
- Free SDK and Grabba Browser
- Comes ready to work with both iPhone 5/5s and iPod touch 5th Gen.

## TECHNOLOGY OPTIONS

You can combine multiple data capture technologies in the one device.

### Multiple Data Capture Technologies



Build your own unit at  
[www.grabba.com/build](http://www.grabba.com/build)

Technology		Model No.	Available Combinations						
Barcode Scanner			X202	X320	X302	X322	X420	X402	X422
CCD Barcode Scanner	A fast, general-purpose reader that automatically detects and reads up to 20 different 1D barcode symbologies in normal lighting conditions	X200	✓						
Advanced Linear Scanner	A high performance 1D scanner with automatic symbology detection in all lighting conditions from complete darkness to full sunlight	X300		✓	✓	✓			
Area Imager Scanner	A high performance barcode scanner that automatically detects and reads up to 50 different 1D and 2D barcode symbologies	X400					✓	✓	✓
Magnetic Stripe Card Reader									
The advanced reading head incorporated in the Grabba Magnetic Stripe Card Reader will read 1, 2 or 3 track cards.		X020		✓		✓	✓		✓
Mifare and I-Code RFID Reader									
The available RFID technologies are Mifare (ISO14443 A, B, Part 4), I-Code and ISO15693. The RFID credential is read out the front of the Q-Series.		X002	✓		✓	✓		✓	✓



## SPECIFICATIONS

### General Specifications

Size	128 x 68 x 20mm (5 x 2.7 x 0.8")
Weight	110g Approx (3.9 oz)
Drop tests	Withstands multiple 2 meters drops
Relative Humidity	5-95% (non-condensing)
Warranty	12 months from date of purchase (see warranty statement for details)
Battery type	Internal Rechargeable Lithium-Ion 3.7V
Battery Capacity	1800mAh
Charge Time	up to 5 hrs
Standards and Compliance	FCC-Part 15, CE, C-Tick (N14052), RoHS
Whats in the Box?	1 x Grabba, 1 x micro USB cable, 1 x Grabba International Power Adaptor, 1 x User Guide

### Supported Software

Smartphone/PDA Operating Systems	iOS (iPhone/iPod)
Supported Devices	iPhone 5/5S, iPod touch 5th generation
Development Environments	Xcode
Development SDK	iOS & Javascript SDK available through Free membership in the Grabba Developer Support Program



Tested To Comply  
With FCC Standards  
For Home or Office Use



N14052



Note: This is a guide, specs may vary due to final configuration.

### Performance Specifications

Grabba Models	X200	X300	X400
Ideal Light conditions for scanning	Office/Warehouse	All Lighting Conditions	
Max Read Range (depends on code type and size)	6.5 - 34 cm (2.6 - 13.4")	4 - 50 cm (1.6 - 19.7")	5 - 34 cm (2 - 13.4")
Comparative Read Range (Code 39, 10ml)	7 - 20 cm (2.8 - 7.9")	5.5 - 27.5 cm (2.6 - 10.8")	6 - 19.3 cm (2.4 - 7.6")
Operating Temperature	0° to +50° C (32° to 122° F)	-10° to +50° C (-14° to 122° F)	
Storage Temperature	-20° to +70° C (-4° to 158° F)	-20° to +70° C (-4° to 158° F)	
Max Reading Angle	55°	40°	50°
Illumination	632nm Visible LED	617nm Visible LED	626nm Visible LED

#### Common Barcode Symbolologies Supported:

<b>Common Linear:</b> Code 39, Code 128, Codabar, UPC, EAN, 2 of 5, Code 93, EAN-128, MSI Plessey, Code 11, Telepen, Code 32, RSS, China Postage	✓	✓	✓
<b>Other Linear/Stacked:</b> CodaBlock, PDF417, MicroPDF417			✓
<b>2 Dimensional:</b> MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesa, Code 49, UCC Composite			✓
<b>Postal Codes:</b> Postnet (US), Planet Code, BPO 4 State, Canadian Post, Japanese Post, KIX (Netherlands) Post			✓
OCR-A, OCR-B, Image Capture			✓

Note: This is a guide, performance may vary depending on conditions. Combination of X200 and X002 is not available.

Grabba Model	X020
Number of Tracks	3
Compatibility with Standards	ISO, ANSI, AAMVA
Proprietary Encoded Card Reading	Available via SDK only
Read Speed (standard 75-210bpi data)	8 - 190 cm/s
Life Expectancy	1,000,000 passes
Operating Temperature	-10° to +50° C (14° to 122° F)
Storage Temperature	-20° to +70° C (-4° to 158° F)
Bi-Directional Reading Capability	Yes
Encryption	DES, TDES, AES encryption with DUKPT key management

Note: This is a guide, performance may vary depending on conditions.

Grabba Model	XXX2
Supported Card Types	Mifare® Standard, Mifare® 4k, Mifare® Pro, Mifare® Ultralight, Mifare® DESFIRE, Mifare®, SmartMX, I-CODE SLI (SL2 ICS 20), I-CODE EPC (SL2 ICS 10), I-CODE UID (SL2 ICS 11), I-CODE, Tag-it™ HF-I Standard, Tag-it™, ISO14443A, ISO14443B and ISO15693 Tags, Contactless payment cards such as Visa Wave, PayPass & ExpressPay, iClass card serial number (CSN) only
Range	0-100 mm
Transmission Protocols	Mifare, I-CODE & ISO 14443-4
Transmit Frequency	13.56 MHz
Storage Temperature	-20° to +70° C (-4° to 158° F)

Note: This is a guide, performance may vary depending on conditions. Combination of X200 and X002 is not available.

## ABOUT GRABBA

With 14 years of experience, Grabba is the pioneer and world leader in enabling the use of smartphones in the commercial environment through use of data capture devices. Grabba is the only manufacturer in the world that can include up to 8 different technologies within the one device (\*). Grabba units can be used with various smartphones and tablets made by Apple, Samsung, HTC, Nokia, and Blackberry.

(\* This capability is available with the Grabba S-Series.)

[www.grabba.com](http://www.grabba.com)

## DEVELOPER SUPPORT PROGRAM

Grabba recognises the value of software developers and is focused on facilitating, enabling and empowering developers to produce software that works with Grabba devices.

With Grabba you can expand your software offering to include the widest range of data capture technologies in the market today. Membership is FREE and you will gain access to the SDKs for ALL available platforms as well as unlimited access to free email support.

To register, visit [grabba.com/register](http://grabba.com/register)

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