

Code Corporation - Code Reader CR2/CR3 Firmware Upgrade ReadMe  
Version 3560 (App) - 3266 (boot)

\*\*\*\*\* PLEASE NOTE: \*\*\*\*\*

- The reader MUST be put in downloader mode to upgrade the boot and application firmware. Please refer to C004053 Reader Download Utility Instructions for more information on upgrading the reader.
  - This firmware requires minimum boot firmware version 3266. Please follow instructions provided when upgrading CR2/CR3 reader(s).
  - This firmware has only been approved for use with all CR2\_3 Code Readers.
  - This readme file contains information about the latest version of Code Corporation's CR2\_3 Application Firmware 3560 and differences from previous Application Firmware 3484.
  - It is recommended that you download and use the current CR2 and/or CR3 User Manual, due to the improvements made in version 3560.
  - Detailed information regarding setup and control regarding this release is disclosed in the Interface Control Document Version 0021.
  - JavaScript Version 3560 is installed within firmware release 3560.
- Detailed information regarding JavaScript capabilities is disclosed in the JavaScript Programming Guide Version 03:  
<http://www.codecorp.com/manuals.html>.

\*\*\*\*\*

\*\*\*\*\*

## README TABLE OF CONTENTS

\*\*\*\*\* PLEASE NOTE: \*\*\*\*\*

All information listed in the numbered sections below pertains to all Code Readers. Information referencing CR3 readers only is listed in section '2.0 - CR3 SPECIFIC FEATURES' or where otherwise indicated.

- 1.0 - WHAT'S NEW IN READER FIRMWARE 3560 (Application) (3266 minimum Boot revision)
- 2.0 - CR3 SPECIFIC FEATURES
- 3.0 - ENHANCEMENTS/IMPROVEMENTS/BUG FIXES
- 4.0 - CHANGES TO DEFAULT SETTINGS

## 5.0 - OUTSTANDING ISSUES

## 6.0 - NEW 'M' CODES (SINCE 3484 FIRMWARE RELEASE)

## 7.0 - SOFTWARE/READER TOOL COMPATIBILITY

## 8.0 - TECHNICAL SUPPORT INFORMATION

Note: Firmware ENHANCEMENTS and OUTSTANDING ISSUES are categorized as critical and non critical. Critical updates require the user to upgrade firmware and all reader programming guides and manuals.

---

## 1.0 - WHAT'S NEW IN READER FIRMWARE 3560 (Application) (3266 minimum Boot revision)

1.1 Supports radio firmware version 1000+ (to work with Microsoft Bluetooth Stack) and secure Bluetooth connection

1.2 Added support for USPS4CB symbology

## 2.0 - CR3 SPECIFIC FEATURES

\*\*\*\*\*

\*\*\*\*\*

2.1 Added support to rotate the CR3 screen 180 degrees (register 0x0175).

See ICD Version 0021 for more information

2.2 Fixed - CR3 status bar overwriting client area problem when a smaller font is used

\*\*\*\*\*

\*\*\*\*\*

## 3.0 - ENHANCEMENTS/IMPROVEMENTS/BUG FIXES

\*\*\*\*\*NON CRITICAL\*\*\*\*\*

3.1 The usability of holding down both triggers 5 seconds to reboot the reader feature has been improved.

3.2 Fixed - Charger LED now accurately indicates the charging status when SuppressCradleEvent is enabled.

3.3 Data Matrix decoding has been improved, especially for symbols at low and/or high sample density

3.4 Fixed – Radio firmware upgrade failure when Radio power is set to class 3.

3.5 Fixed – The internal clock has been updated to keep accurate time.

3.6 Fixed – A trigger press is now required to wake the reader when removing it from a single bay charger.

3.7 Fixed – When removing the reader from the battery handle charger with the handle trigger pressed the handle trigger will be disabled for a period of time. This has been corrected so the handle trigger is no longer disabled.

3.8 Fixed – An error that prevented rfAutoSaveActiveConnection from functioning has now been corrected.

3.9 Fixed – An error in the size field of file upload header

3.10 Improved the USB connectivity on certain computers.

3.11 Improved black and white image capture.

3.12 Fixed – False motion detection trigger after bar code removed from field of view.

#### 4.0 – CHANGES TO DEFAULT SETTINGS

4.1 Default value of setting 0x74 enableUpcShortMargin, 0xf0 enableCode128ShortMargin, 0xf6 enableCode39ShortMargin changed to true (enable short margin). See ICD Version 0021 for more information

4.2 Register 0x78 has been changed to control the numlock-capslock sequence documented in register 0x1b

#### 5.0 – OUTSTANDING ISSUES

\*\*\*\*\*NON CRITICAL\*\*\*\*\*

5.1 In some cases with slow or improper cable insertion, enumeration may fail. Recommended solution is to disconnect and reconnect the cable.

5.2 In instances when storing large amounts of images and memory has reached full capacity, continued use to capture images may cause reader to reset.

To fix issue: Scan 'Batch-Transfer All Data in Memory' (M077\_02) in conjunction with Image Uploader software. Once all images have uploaded, scan 'Clear All Stored Data' (M071\_01).

5.3 Macro PDF417 feature is not supported in this firmware version. Planned support using JavaScript in future firmware release version.

5.4 To downgrade Code Reader from firmware version 3560, it is required to scan 'Delete All Stored Files' (M740\_01) before downgrading reader to an earlier CR2/FCR3 firmware version.

## 6.0 - NEW M CODES (SINCE 3484 FIRMWARE RELEASE)

Version	Description
M748	Enable USPS4CB symbology

EXISTING M CODES THAT HAVE BEEN MODIFIED:

## 7.0 - SOFTWARE/READER TOOL COMPATIBILITY

Note: The following Software/Reader Tools were used in testing of Firmware 3560(Application) and 3266(Boot). Recently upgraded CODE software is available for download from our website at: [www.codecorp.com](http://www.codecorp.com) or contact Code Corporation Technical Support. Belkin products are not supported directly by Code Corporation. Please go to: [world.belkin.com](http://world.belkin.com) for support issues.

7.1 Reader Download Utility - version 0048

7.2 Reader Setup Utility Basic v. 1.46

7.3 CodeXML CRB to Code Utility - version 0016

7.4 CodeXML Prefix/Suffix Builder - version 0016

7.5 CodeXML Router - BE version 1520

7.6 CodeXML Router - BE (Pocket PC Version) 1262

- 7.7 Code Reader File Uploader Version 0008
- 7.8 USB Reader Image Uploader - version 1028
- 7.9 USB Virtual COM Driver - version 1008

## 8.0 - TECHNICAL SUPPORT INFORMATION

You may contact Code Corporation at:

11814 S. Election Road, Suite 200  
Draper, UT 84020  
Voice: 801-495-2200  
Fax: 801-495-2202  
support@codecorp.com

You can track new product releases, software updates and technical bulletins by visiting Code's web page at [www.codecorp.com](http://www.codecorp.com)

If you have technical questions, call Code Corporation Technical Support Department at: 801-495-2200 or visit our website at [www.codecorp.com](http://www.codecorp.com) to email Technical support.

Disclaimer:

Copyright © 2007 Code Corporation.

All Rights Reserved

The software described in this ReadMe file may only be used in accordance with the terms of its license agreement.

No part of this publication may be reproduced in any form or by any means without written permission from Code Corporation. This includes electronic or mechanical means such as photocopying or recording in information storage and retrieval systems.

NO WARRANTY. This technical documentation is provided AS-IS. Further, the documentation does not represent a commitment on the part of Code Corporation. Code Corporation does not warrant that it is accurate, complete or error free. Any use of the technical documentation is at the risk of the user. Code Corporation reserves the right to make changes in specifications and other information contained in this document without prior notice, and the reader should in all cases consult Code Corporation to determine whether any such changes have been made. Code Corporation

shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from the furnishing, performance, or use of this material. Code Corporation does not assume any product liability arising out of or in connection with the application or use of any product or application described herein.

NO LICENSE. No license is granted, either by implication, estoppels, or otherwise under any intellectual property rights of Code Corporation. Any use of hardware, software and/or technology of Code Corporation is governed by its own agreement.

The following are trademarks or registered trademarks of Code Corporation:

CodeXML, Maker, QuickMaker, CodeXML Maker, CodeXML Maker Pro, CodeXML Router, CodeXML Client SDK, CodeXML Filter, HyperPage, Code Track, GoCard, GoWeb, ShortCode, GoCode, Code Router, Quick Connect Codes, Rule Runner

All other product names mentioned in this ReadMe file may be trademarks of their respective companies and are hereby acknowledged.

The software and/or products of Code Corporation include inventions that are patented or that are the subject of patents pending.

Code Corporation, 11814 S. Election Road, Suite 200, Draper, UT 84020

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