

Z-5160

Advanced Middle-Range CCD Scan Module



Service Guide

Revision History

Changes to the original manual are listed below:

Version	Date	Description of Version
1.0	Nov. 20, 2011	Initial release
1.1	Dec. 25 2014	Added cables

Preface

Important Notice

This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions in this manual, it may cause interference to radio communications. The equipment has been tested and found to comply with the limits for a Class A computing device pursuant to EN55022 and 47 CFR, Part 2 and Part 15 of FCC Rules. These specifications are designed to provide reasonable protection against interference when operated in a commercial environment.

For CE-countries:

It is in conformity with the CE standards. Please note that a CE-Marked power supply unit should be used to conform to these standards.

Radio and television interference

Operation of this equipment in a residential area can cause interference to radio or television reception. This can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orientate the receiving antenna
- Relocate the device with respect to the receiver
- Move the device away from the receiver
- Plug the device into a different outlet so that the device and the receiver are on different branch circuits

If necessary, the user should consult the manufacturer, an authorized dealer or experienced radio/television technician for additional suggestion. The user may find the following booklet prepared by the Federal Communications Commission helpful: **“How to Identify and Resolve Radio-TV Interference Problems”**. This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004000003454.

No warranty of any kind is made in regard to this material, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. We are not liable for any errors contained herein nor incidental or consequential damages in connection with furnishing, performance or use of this material.

No part of this document may be reproduced, transmitted, stored in a retrieval system, transcribed, or translated into any language or computer language in any form or by any means electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without express written consent and authorization.

We reserve the right to make changes in product design without reservation and without notification. The material in this guide is for information only and is subject to change without notice.

All trademarks mentioned herein, registered or otherwise, are the properties of their various respective owners.

This manual is in A4 format. Please check your printer setting before printing it out.

Table of Contents

Preface.....2

 Important Notice2

Table of Contents.....3

Introduction4

 Product Overview.....4

 Components.....4

 Scanner Parts5

Take Apart6

 Before You Start6

 Important Instructions6

 Tools to Prepare6

Introduction

With an easy-to-integrate design and an outstanding scanning performance, this middle-range CCD scan module is especially made for embedded scanning solution. Its powerful linear CCD array enables 330 scans per second with a minimum resolution of 4mil for fast scans.

The scan module offers multiple interfaces including keyboard, RS-232C, and HID USB. Besides, it has three mounting holes on the back of the case reserved for quick and easy installation into your equipment. When working in field, its two-color LED in the front gives immediate scanning response and the programmable tone and beep time are to meet users' need and enhance productivity.

The module has a newly designed CCD scan engine with light beam bright and clear as laser beam that gives user best visual indication and its powerful high resolution CCD acts in remarkable performance.

Product Overview



Components

<i>Description</i>	<i>Function</i>
Exit Window	CCD aperture
Interface Cable	Used to connect to the host
Good Read LED	Indicates a successful reading
Mounting Holes	For mounting the device

Scanner Parts

The scanner includes the following parts:



Item	P/N	Description	Quantity
1	518-400000-061	CE & FCC label	1
2	515-1MODU0-001	Front cover	1
3	571-040100-051	Interval column	3
4	571-040100-052	Rivet interval column	3
5	573-031100-033	Aluminum base	1
6	685-000300-021	Dust protective glass	1
7	604-100000-011	O type ring (φ8.6*φ4.8)	3
8	520-0130R4-8R0	Screw,M2*0.4-8.0mm,(black)	8
9	560-2A60M0-252	Front cover	1
10	560-2A60M0-262	Back cover	1
11	88M-110000-000	Engine assembly	1
12	031-005012-520	FFC Cable 12PIN	1
13	523-0030R4-5R0	Screw,M2*0.4-5.0mm,W+SW	4
14	02A-62M003-001	Interval fixed board	1
15	61A-62M0R2-202	Main board assembly	1
16	520-202R35-3R2	Screw,M1.6*0.35-3.2mm	2
17	542-8A51M0-181	Protective non-woven	1
18	170-52U030-200 170-50R542-200 170-50K010-200	USB cable RS-232 cable PS2 cable	Select 1
19	640-3A60M0-101	Waterproof glue	2

Take Apart Before You Start

Important Instructions

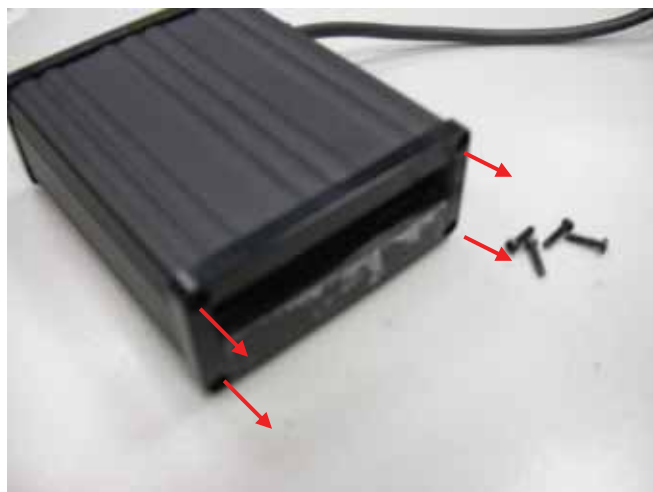
- Read these instructions completely before you begin.
- Follow all instructions.
- Heed all warnings.

Tools to Prepare

- Philips screwdriver.

Please follow these steps to take apart Z-5160.

1. Remove the 4 screws from the back cover.



2. Remove the 4 screws from the front cover.



3. Carefully separate the back cover from the aluminum base.



4. Carefully separate the front cover from the aluminum base.



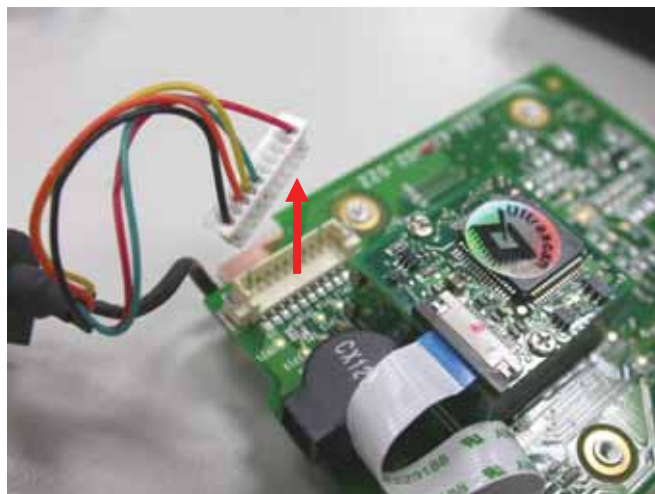
5. Remove RS232 cable from aluminum base.



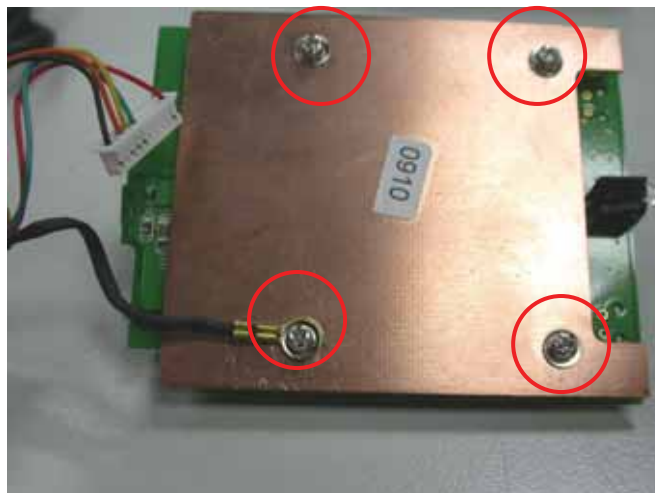
6. Remove the main board from the alumni base.



7. Remove the RS-232 cable connector from the main board.



8. Remove the screws from the interval fixed board.



9. Separate the interval fixed board and the USB cable from the main board.



10. Remove the FFC cable from the main board.



11. Remove the screws from the main board.



12. Separate the engine assembly from the main board.



Note: To assemble the device, please start from the last step and work your way backwards.