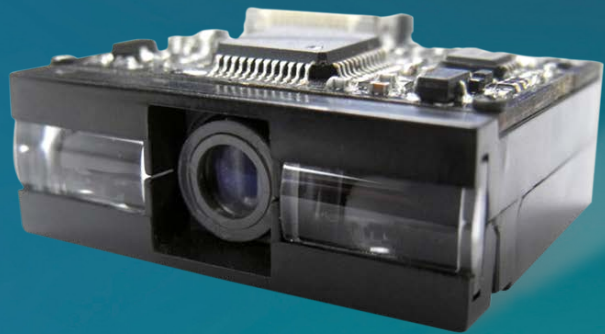




# EM1300

Scan Engines

Version: V1.0.0

Quick Start Guide

# Disclaimer

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Please read the manual carefully before using the product and operate it according to the manual. It is advised that you keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device; doing so will void the product warranty provided by Newland Europe BV.

All pictures in this manual are for reference only, and the actual product may differ.

Regarding product modification and update, Newland Europe BV reserves the right to make changes to any software or hardware to improve reliability, function, or design at any time without notice. The information contained herein is subject to change without prior notice.

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**Risk Warning Regarding Unauthorized System Updates:**

You should use the Newland-provided tool to update this product's system. Modifying system files by installing a third-party ROM system or using any cracking method may result in product malfunction or data loss and void your warranty.

Newland Europe BV reserves the right to make a final interpretation of the statement above.

**Newland Europe BV**

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[www.newland-id.com](http://www.newland-id.com)

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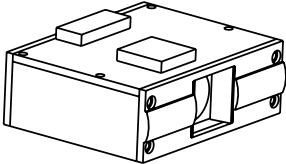
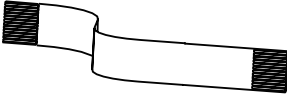
K.v.K. H.R. Utrecht / Chamber of  
Commerce Utrecht: Reg. nr. 17109876



## Introduction

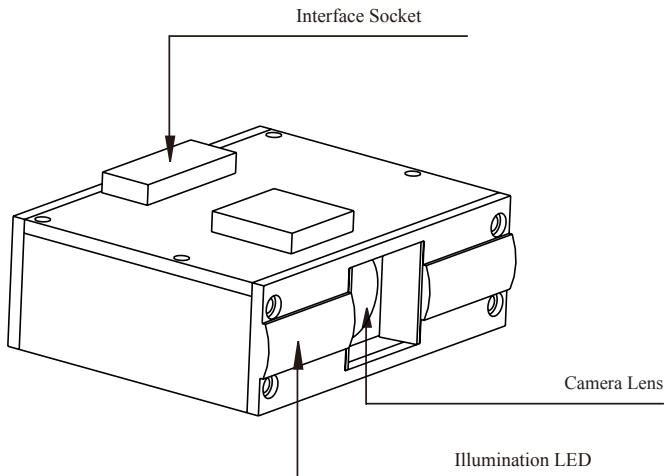
EM1300 is an embedded barcode reading engine. Its gray scale CCD image capturer and the Newland patented **UIMG**, a Computerized Image Recognition System, ensure the fast scanning and decoding accuracy on different barcode media such as paper, plastic card, and metal surface. It can be easily integrated into OEM equipments or systems (hand-held, portable, and mounted) to provide solutions for image capture, bar code reading, and barcode message processing.

## Box Content

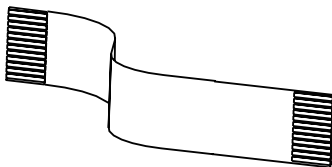
|                                                                                    |                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|
|   | NLS-EM1300 1D Barcode Scanning Engine                          |
|  | 12 Pin Flexible Cable<br>NOTE: It will be supplied upon order. |



## Hardware Overview



NLS-EM1300 Outline

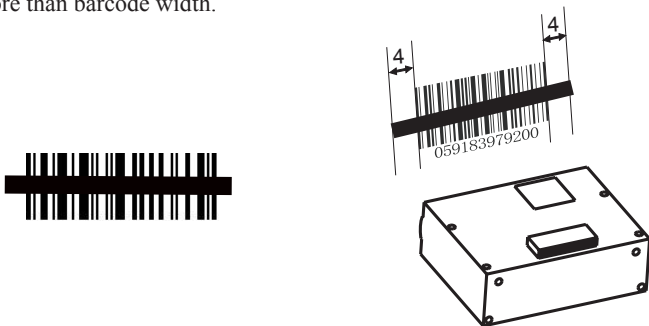


12 Pin Flexible Cable

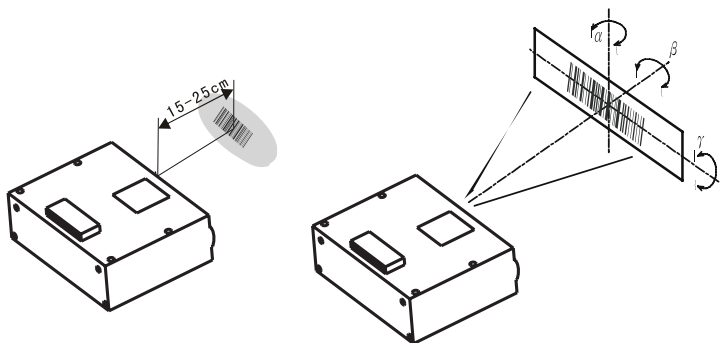


## How to read 1D barcode with EM1300 Embedded Barcode Reading Engine

When the trigger line (Pin 1 on the flexible cable) is pull low for 10ms, the engine starts a read. For the optimum reading stance, aiming pattern width should be 4mm more than barcode width.



Focus the green aiming bar on the central of a barcode. The distance of scan window & barcode between 2cm and 50cm, 15mm~25mm is the best distance between scan window and barcodes. Yaw ( $\alpha$  as below) between  $0^\circ$  and  $45^\circ$  (0 is the best); Pitch ( $\gamma$  as below) between  $0^\circ$  and  $30^\circ$  (5-20 is the best); Roll ( $\beta$  as below)  $45^\circ$ .



For more information about EM1300 reading engine, please visit Newland Auto-ID website. [www.nlscan.com](http://www.nlscan.com)



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## Supports & Service

If you have a problem with your equipment, contact the Newland Support Center in your region. Before calling, have the model number, serial number, and several of your barcodes at hand.

Call the support Center from a phone near the scanning equipment so that the service person can try to talk you through your problem. If the equipment is found to be working properly and the problem is barcode readability, the Support Center will request samples of your bar codes for analysis at our plant.

If your problem cannot be solved over the phone, you may need to return your equipment for servicing. If that is necessary, you will be given specific directions.

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Note: Newland Auto-ID Tech. is not responsible for any damages incurred during shipment.  
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## Revisions

| Version | Data Source | Description | Date     | Approved |
|---------|-------------|-------------|----------|----------|
| V1.0    |             |             | 20090826 |          |
|         |             |             |          |          |
|         |             |             |          |          |
|         |             |             |          |          |
|         |             |             |          |          |
|         |             |             |          |          |

# SCANNING MADE SIMPLE

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