



# LIBRA L-7083i

On-Counter Presentation  
Area Imager Barcode Scanner

SCANTECH ID<sup>®</sup>  
CHAMPTEK Group

## Introduction

The LIBRA L-7083i is an omni-directional presentation area imager bar code scanner, it uses digital imaging technology to provide intuitive and blazing reading of 1D and 2D bar codes without sacrificing scanning quality or performance. The L-7083i reader provides great performance and reliability along with a rich feature set to provide excellent value in virtually any desktop presentation bar code scanning system. With the L-7083i, not only can identify product pricing barcode label, furthermore, it is able to scan virtually any mobile bar code on various types of display to enhance service levels.

When space is limited but high performance is required, its compact size and footprint make it the ideal solution for space-constrained environments. Its precise imaging scan volume is perfect for hands-free scanning in confined spaces and helps reduce accidental misreads of items, improving productivity and customer satisfaction.

The L-7083i reader includes a powerful configuration tool which allows easy integration into existing or new host systems, allows management to manage maintenance.

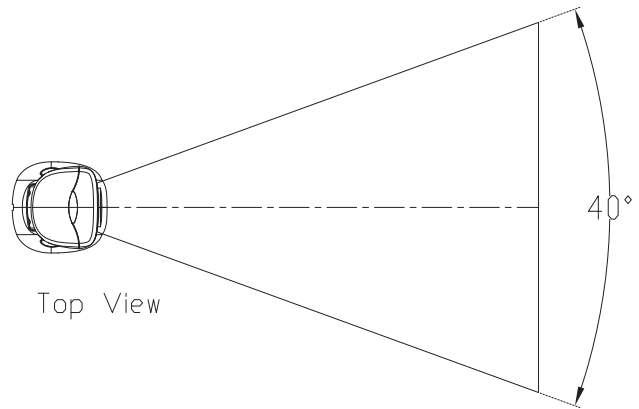
## Features

- Read the most common 1D, 2D, composite and stacked codes, reduce your investment cost.
- Boost customer services with good ability to scan virtually mobile bar code on various types of display.
- With the most compact footprint can fit in the most space constrained areas.
- IP42 rugged design withstands vibrations and shock for extended use in tough environments.
- Best cost-effective investment.
- With internal RF antenna which could connect with EAS deactivation system for deactivation purpose.

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## Reading Range

| Focus Range       | Near             | Far               |
|-------------------|------------------|-------------------|
| 4mil Code39       | 0 in./0 mm       | 1.97 in./50.0 mm  |
| 5mil Code39       | 0 in./0 mm       | 2.75 in./70.0 mm  |
| 20mil Code39      | 0.78 in./20.0mm  | 7.87 in./200.0mm  |
| 20mil QRCode      | 0.39 in./10.0 mm | 3.93 in./100.0 mm |
| 10mil PDF417      | 0 in./0 mm       | 3.54 in./90.0 mm  |
| 20mil Data Matrix | 0 in./0 mm       | 3.54 in./90.0 mm  |



## Specifications

### Physical Characteristics

|              |                                                |
|--------------|------------------------------------------------|
| Body Weight  | Approx. 378g/13.33oz                           |
| Dimension    | Scanner: 94.00mm(W) x 161.51mm(H) x 97.71mm(L) |
| Cable Length | USB (150cm) ; RS232 (200cm)                    |
| Material     | PC + ABS                                       |
| Connector    | RJ48                                           |

### Performance

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Light Source              | White Light LED                                   |
| Scan Speed                | 60 images per second in 1D/2D mode                |
| Resolution                | 752(H) x 480(V) pixels                            |
| View of Field             | 40° Horizontal, 25° Vertical                      |
| Forward & Backward(Pitch) | ±60° (from front to back)                         |
| Left & Right (Skew)       | ±60° (from plane parallel to symbol side-to-side) |
| Rotational Tolerance      | ±180°                                             |
| Interface                 | RS-232, USB(HID KBW or Virtual comport)           |
| Indicators                | Blue=good read; Orange=standby                    |

### Electrical Characteristics

| Interface        | RS232           | USB(HID KBW) | USB(Virtual Com.) |
|------------------|-----------------|--------------|-------------------|
| Supply Voltage   | DC Adaptor(+5V) | USB Power    | USB Power         |
| Stand by (Typ.)  | 180mA           | 180mA        | 180mA             |
| Operation (Typ.) | 380mA           | 380mA        | 380mA             |

### Environmental

|                   |                                            |
|-------------------|--------------------------------------------|
| Operating Temp.   | 0°C to 50°C (32°F to 122°F)                |
| Storage Temp.     | -20°C to 70°C (-4°F to 158°F)              |
| Relative Humidity | 20% to 95% (Non-condensing)                |
| Ambient Light     | 100,000 Lux Max. (Sunlight)                |
| Sealing           | Designed to IP42 water and dust protection |

### Reliability

|                    |                                                   |
|--------------------|---------------------------------------------------|
| Life Time          |                                                   |
| MTBF (Calculated)  | 50,000 hours                                      |
| Cable Bending Test | 25,000 times minimum<br>(30 times/min @ 500g/90°) |
| Drop               | 39.98 inches (100cm)<br>drop on concrete surface  |

### Readable Symbolologies

| 1D Symbolologies             | Readable | Default Enable |
|------------------------------|----------|----------------|
| UPC-A                        | V        | V              |
| UPC-E                        | V        | V              |
| EAN-8/JAN-8                  | V        | V              |
| EAN-13/JAN-13                | V        | V              |
| Code 39                      | V        | V              |
| Code 128                     | V        | V              |
| Interleaved 25               | V        | V              |
| Industrial 25                | V        |                |
| Matrix 25                    | V        |                |
| Codabar/NW7                  | V        |                |
| Code 93                      | V        |                |
| China Post                   | V        |                |
| MSI/Plessey                  | V        |                |
| Telepen                      | V        |                |
| GS1 Databar Omni-directional | V        |                |
| GS1 Databar Limited          | V        |                |
| GS1 Databar Expanded         | V        |                |

| 2D Symbolologies | Readable | Default Enable |
|------------------|----------|----------------|
| Aztec            | V        |                |
| Data Matrix      | V        | V              |
| PDF 417          | V        | V              |
| Micro PDF 417    | V        |                |
| QR Code          | V        | V              |
| Micro QR Code    | V        |                |
| GM Code          | Optional |                |
| Han Xin Code     | Optional |                |

CE, FCC and RoHs compliant

Due to Champtek's / Scantech ID's continuing product improvement programs, specifications and features are subject to change without notice.