

# FLEXRANGE

## 6803FR Image Capture Technology

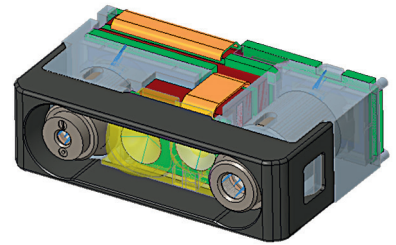
The optimal choice for workers who need to scan a wide variety of ranges with a single device – from a few inches to the top of the pallet rack, it enables virtually every use case in a single, compact, lightweight device that doesn't compromise range, ergonomics or speed.

FlexRange is Honeywell's 8th generation, breakthrough imaging platform. Our legacy of imaging innovation continues with our newest imager, the FlexRange 6803FR.

The 6803FR has a dual-lens architecture that captures near, mid and far range with no moving parts. It's the ultimate combination of speed, range and ruggedness. From picking to the pallet to the rack, the 6803FR imager is capable of handling the broadest range of workflows. And without moving parts, there's no time spent re-focusing, so the 6803FR is always operating at lightning speed.

For data capture, the FlexRange dual-lens imager is capable of scans of less than 0.1 m (5 in) all the way out to 10.7 m (35 ft)\*, so users can easily capture barcodes from across the room without having to waste time getting close enough for a scan.

\*Performance depends on ambient light levels and barcode size and encoding.



*The FlexRange 6803FR is a feature rich, multi-range imager with breakthrough scan performance and best-in-class compact package.*

## FEATURES AND BENEFITS



Dual-lens design for simultaneous close and far range image capture enabling innovative new applications such as scene validation.



No moving parts for near-instantaneous autofocus and the snappiest performance in its class.



Smallest and lightest long-range scanner available for long range scanning in small devices.



Enhanced performance range enabling improved ergonomics for end-users.



Allows for standardization on a single device to meet the needs of multiple workflows.

# FlexRange Technical Specifications

## SYSTEM ARCHITECTURE

### Scanner

**Sensor resolution:** 1920 x 800

**Aimer:** Class 2, 650nm Laser Dot

### Field of View:

**Near:** 48 x 21 degrees

**Far:** 20 x 12 degrees

## ENVIRONMENTAL

**Operating Temperature:** -25°C to 50°C  
(-13°F to 122°F)

**Storage Temperature:** -40°C to 70°C  
(-40°F to 158°F)

**Humidity:** Up to 95% relative humidity  
(non-condensing) at 50°C (122°F)

**Shock:** 3500 G (pulse peak) for 0.4 ms (full pulse width) at 23°C (73.4°F) with at least 90% confidence of 95% reliability

**Vibration:** 18 shocks (3 shocks x 3 axes x 2 directions) to mounting surface

## MECHANICAL

**Dimensions (L x W x H):** 16.15 mm x 23.5 mm x 6.8 mm (.64 in x .9 in x .27 in)

**Weight:** 3 grams (0.1 oz)

## TYPICAL STANDARD RANGE (200 LUX)

SYMBOLGY	NEAR DISTANCE	FAR DISTANCE
5 mil code 39	122 mm (4.80 in)	414 mm (16.30 in)
10 mil DM	135 mm (5.31 in)	419 mm (16.50 in)
10 mil C39	85 mm (3.35 in)	1368 mm (53.86 in)
13 mil UPC-A	60 mm (2.36 in)	1600 mm (62.99 in)
15 mil C128	58 mm (2.28 in)	1894 mm (74.57 in)
20 mil C39	56 mm (2.20 in)	2645 mm (104.13 in)
100 mil DM <sup>1</sup>	–	5641 mm (222.09 in)
55 mil C39 <sup>1</sup>	–	7159 mm (281.85 in)
100 mil C39 <sup>1,2</sup>	–	10815 mm (425.78 in)

## GUARANTEED STANDARD RANGE (200 LUX)

SYMBOLGY	NEAR DISTANCE	FAR DISTANCE
5 mil code 39	138 mm (5.43 in)	365 mm (14.37 in)
10 mil DM	152 mm (5.98 in)	387 mm (15.23 in)
10 mil C39	94 mm (3.70 in)	1198 mm (47.17 in)
13 mil UPC-A	68 mm (2.68 in)	1437 mm (56.57 in)
15 mil C128	66 mm (2.59 in)	1571 mm (61.85 in)
20 mil C39	63 mm (2.48 in)	2161 mm (85.07 in)
100 mil DM <sup>1</sup>	–	4505 mm (177.36 in)
55 mil C39 <sup>1</sup>	–	6546 mm (257.72 in)
100 mil C39 <sup>1,2</sup>	–	9843 mm (387.51 in)

### Table Notes:

1. Minimum distance depends on the length of the barcode.
2. Typical code wide to narrow elemental ratio is 3:1. Minimum 100 mil code height of 3 inches.

For a complete listing of all compliance approvals and certifications, please visit [www.honeywellaidc.com/compliance](http://www.honeywellaidc.com/compliance).

For a complete listing of all supported barcode symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies).

FlexRange is a trademark or registered trademark of Honeywell International Inc.

All other trademarks are the property of their respective owners.

## For more information

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

## Honeywell Safety and Productivity Solutions

300 S Tryon St Suite 500

Charlotte, NC 28202

800-582-4263

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