



Title: Perception HD LF Reader Update	
Document No: NOC-1910	
Revision: 1	June 2019

We are writing to inform you that as part of our continuous improvement and supplier sustainability initiative, the Perception HD LF (part# 20-4006) will be discontinued, effective immediately, and replaced with a new HD version.

1. Affected Products:

20-4006	<p>Perception™ HD LF Large Format Cryo Rack Reader</p> <p>Whole rack reader for 14x14, 10x10, 9x9, 7x7 5x5 Square Cryo Racks of 2D labelled tubes and 24, 48, 96, 240, 384 SBS-format racks; Single 13-megapixel camera-based solution for very rapid reading, with USB 3.0 cable and AC adapter.</p>
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Figure 1: Perception HD LF (part# 20-4006)

2. Reason for change

As part of our continuous improvement and supplier sustainability initiative, we identified that a key component of all camera-based readers from our supplier had become obsolete.

This resulted in a significant delay and backlog in supply as we worked to seek an optimal replacement and ensure backward compatibility to the best of our ability.

3. Replacement Products

Brooks is pleased to announce the release of a replacement camera for the Perception HD LF, resulting in 38.5%+ better resolution and as little as 1/2 second decode time*.

20-4016	<p>Perception™ HD LF Large Format Cryo Rack Reader Whole rack reader for 14x14, 10x10, 9x9, 7x7 5x5 Square Cryo Racks of 2D labelled tubes and 24, 48, 96, 240, 384 SBS-format racks; Single 18-megapixel camera-based solution for very rapid reading, with USB 3.1 SS cable for power and data-transfer</p>
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Figure 1: Perception HD LF (par# 20-4016)

See below for a comparison of specifications.

4. Specifications of Suggested Replacement Product

Specification	Perception HD LF	Perception HD LF
Part Number	20-4006	20-4016
Dimension (W x L x H)	147mm x147mm x 224mm	147mm x147mm x 224mm
Weight	900g	1350g (based on weight of components)
Camera Resolution	13 Megapixel	18 Megapixel
Power supply	AC Adapter	USB 3.1 for power
Communication	USB 3.0	USB Type-C to USB-A Male 3.1 Gen2 Cable - 0.9 m
Decodable Formats	2D Data Matrix®, QR Codes, ISO 16022, Square and Rectangular Format, ECC 200, 0 - 20 grid sizes, White on Black and Black on White, Numeric and Alphanumeric	2D Data Matrix®, QR Codes, ISO 16022, Square and Rectangular Format, ECC 200, 0 - 20 grid sizes, White on Black and Black on White, Numeric and Alphanumeric
Tube Formats	Almost all tubes in SBS format rack and Freeze Boxes. Either 5x5, 9x9, 10x10, 13x13, 14x14, 24, 48, 96, 240 or 384 formats.	Almost all tubes in SBS format rack and Freeze Boxes. Either 5x5, 9x9, 10x10, 13x13, 14x14, 24, 48, 96, 240 or 384 formats.
Grab/Decode Speed *1	Decode as less than 1 second	<1 seconds (grab & decode)
Operating Systems	Windows 7, Windows 8, Windows 10	Windows 7, Windows 8, Windows 10

* Decode time is subject to processor speed, code quality and setup

*1 Total grab and decode speed may vary based on individual CPU capabilities



5. Benefits of Change

- Improved readability of suboptimal 2D codes due to higher camera resolution
- Decreased image grab time
- Single USB 3.1 cable for both power & data transfer
- Automatic activation, no need to deactivate when changing PC
- Automatic rack and tube detection wizard in software to easily enable new profiles

6. Differences Resulting from Change

- New 18-megapixel resolution camera
- Aluminum base plate used in assembly instead of acrylic version
- Single USB 3.1 SS cable for both power & data transfer
- Intellicode software version 12+ is required to run this HD reader
- Integrated Intellicode activation dongle inside device
- Location of A1 (SBS) and 1 (Freeze Box) is now inscribed on the instrument

7. Date of change

Effective June 10th, 2019.

There are no 20-4006 instruments available in stock.

If you require any further information please feel free to contact your local rep, distributor or email the office on blss.sales@brooks.com.