

XRF410N™

Out-of-the-box Solutions for Material Handling



TECHNICAL DATA

Ord. No.	Model Description	1D Code Resolution mm (mils)	FOV mm (inches)	DOF mm (inches)	Max Speed m/s (fpm)	BASE PERF	HIGH PERF	PACK TRACK	MASTER	EXTENS	SPARE UNIT
937400028	XRF410N-B00 2HD_MED RES_MASTER	0.38 (15)	590 (23.2)	400 (15.7)	1.2 (236)	x			x		
937400029	XRF410N-B10 2HD_HI RES_MASTER	0.33 (13)	470 (18.5)	400 (15.7)	1.0 (194)	x			x		
937400030	XRF410N-H00 2HD_HI PERF_MED RES_MASTER	0.38 (15)	590 (23.2)	400 (15.7)	2.2 (433)		x	x	x		
937400031	XRF410N-H10 2HD_HI PERF_HI RES_MASTER	0.33 (13)	470 (18.5)	400 (15.7)	1.8 (354)		x	x	x		
937400032	XRF410N-H20 2HD_HI PERF_VHI RES_MASTER	0.25 (10)	395 (15.5)	250 (10.0)	1.5 (295)		x	x	x		
937400033	XRF410N-B01 2HD_MED RES_EXTENSION	0.38 (15)	590 (23.2)	400 (15.7)	1.2 (236)	x				x	
937400034	XRF410N-B11 2HD_HI RES_EXTENSION	0.33 (13)	470 (18.5)	400 (15.7)	1.0 (194)	x				x	
937400035	XRF410N-H01 2HD_HI PERF_MED RES_EXTENS	0.38 (15)	590 (23.2)	400 (15.7)	2.2 (433)		x	x		x	
937400036	XRF410N-H11 2HD_HI PERF_HI RES_EXTENS	0.33 (13)	470 (18.5)	400 (15.7)	1.8 (354)		x	x		x	
937400037	XRF410N-H21 2HD_HI PERF_VHI RES_EXTENS	0.25 (10)	395 (15.5)	250 (10.0)	1.5 (295)		x	x		x	
937400038	MATRIX 410N XRF-B0x SPARE UNIT-REPLMNT	Single Reader - Spare part for replacement					x		x	x	x
937400039	MATRIX 410N XRF-B1x SPARE UNIT-REPLMNT						x		x	x	x
937400040	MATRIX 410N XRF-H0x SPARE UNIT-REPLMNT						x		x	x	x
937400041	MATRIX 410N XRF-H1x SPARE UNIT-REPLMNT						x		x	x	x
937400042	MATRIX 410N XRF-H2x SPARE UNIT-REPLMNT						x		x	x	x
93ACC0116	EMK-MTX-600 EXT.MIRROR XRF410N - 600MM	Deflection Mirror									
93A050048	CBL-1480-0.3 M12/5P MALE/FEM. 0.3M IDNET	CBX to XRF410N™ Master Unit or Master unit to Extension unit									
93A050049	CBL-1480-01 M12/5P MALE/FEMALE 1M IDNET										
93A050050	CBL-1480-02 M12/5P MALE/FEMALE 2M IDNET										
93A050051	CBL-1480-05 M12/5P MALE/FEMALE 5M IDNET										
93A050037	CAB-LP-05 LIGHTING POWER 5M										
93A050058	CAB-DS01-S M12-IP67 TO CBX 1M	CBX Connection Box to XRF410N™ Master Unit									
93A050059	CAB-DS03-S M12-IP67 TO CBX 3M										
93A050060	CAB-DS05-S M12-IP67 TO CBX 5M										
93A301068	CBX500 CONNECTION BOX MODULAR	Modular Connection box									
93ACC1853	BA400 M12 3P M. PANEL CONN. (EXT.POWER)										
93ACC1855	BA600 M12 5P F. PANEL CONN. (ID-NET OUT)										
93ACC1808	BM100 BACKUP MODULE	Optional configuration. Back up and Embedded Display modulus									
93ACC1809	BM150 DISPLAY MODULE										
93A051346	CAB-ETH-M01 M12-IP67 ETHERNET CABLE (1M)	Ethernet Cables M12 IP67 to RJ45									
93A051347	CAB-ETH-M03 M12-IP67 ETHERNET CABLE (3M)										
93A051348	CAB-ETH-M05 M12-IP67 ETHERNET CABLE (5M)										



OUT-OF-THE-BOX SOLUTIONS FOR THE LOGISTICS INDUSTRY

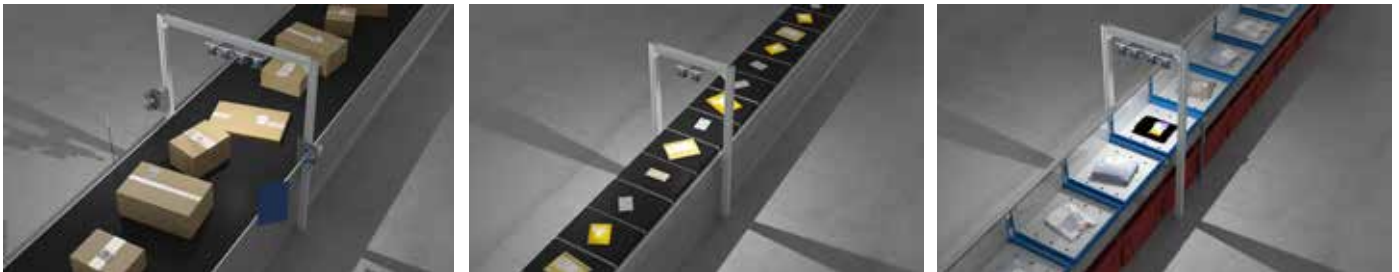
XRF410N™: EXTENDED READING FIELD

The XRF410N™, named for its eXtended Reading Field, is a solution based on the new Matrix 410N platform for material handling and sortation in the logistics industry.

XRF410N™ is designed and built for a broad variety of material handling applications with transportation speeds up to 2.2 m/s (433 fpm) for medium sized objects, with typical scanning depths of 400 mm (15.7 in.).

The XRF410N™ is a perfect solution for e-commerce small object automated order fulfilment systems or postal logistics flats sortation applications.

APPLICATIONS



E-Commerce

XRF410N™ is the perfect solution for ECommerce, with a reconfigured retail code EAN/UPC 0.25 mm (10 mil) resolution, a small cell gap with 2D PackTrack software and code reconstruction for polybags.

General material handling with reusable totes

XRF410N™ is optimal for reusable totes identification over handling systems. It can handle complex operations including scanning the objects inside the totes, are simplified by the XRF410N™'s large, real time Depth of Field (DOF).

End of line

XRF410N™ is designed to fit medium speed material handling, such as manufacturing end of line, with a price level equivalent to entry level scanning technologies.

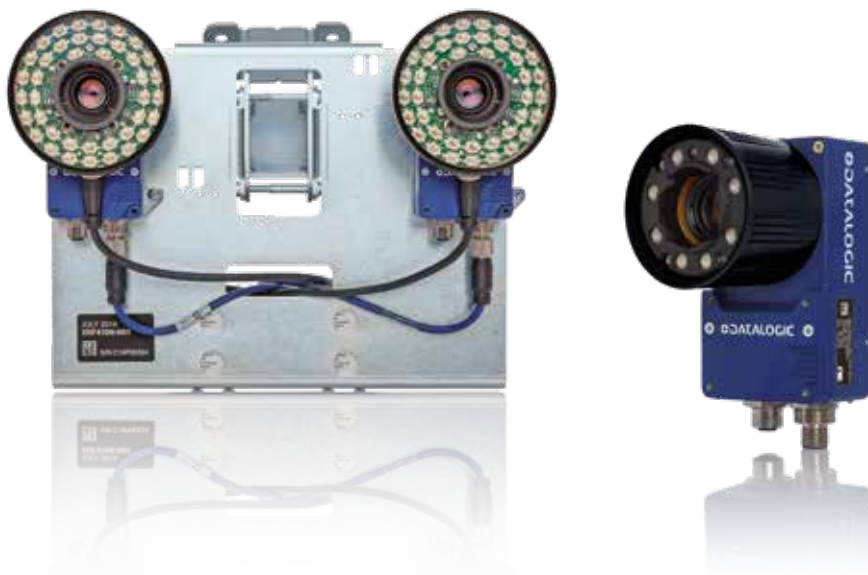
Postal sorting

XRF410N™ is optimal for top reading of flyers, letters and small parcels typical in the postal environment.

Medium object sortation for couriers

XRF410N™ is a perfect fit for medium size conveyors in logistics productions.

For instance, a single XRF410N™ covers a 600 mm conveyor with, with a DOF of 400 at 2.2 m/s.



TWO OUT-OF-THE-BOX MODELS



XRF410N™ BASE MODEL

The XRF410N™ Base Performance model is a solution for medium speed material handling applications

- Speed: Up to 1.2 m/s (236 fpm)
- Object Spacing: Minimum of 200 mm (7.9 inches)
- Cost-effective
- Ideal for medium-width conveyors and end-of-line applications



XRF410N™ HIGH PERFORMANCE MODEL

The XRF410N™ High Performance model is a dynamic solution for demanding, high speed applications.

- Speed: Up to 2.2 m/s (433 fpm)
- With 2MP sensor at 45 fps (images captured in a second)
- 2D PackTrack to handle applications with minimal gaps between objects

FEATURES & BENEFITS

EASY TO USE

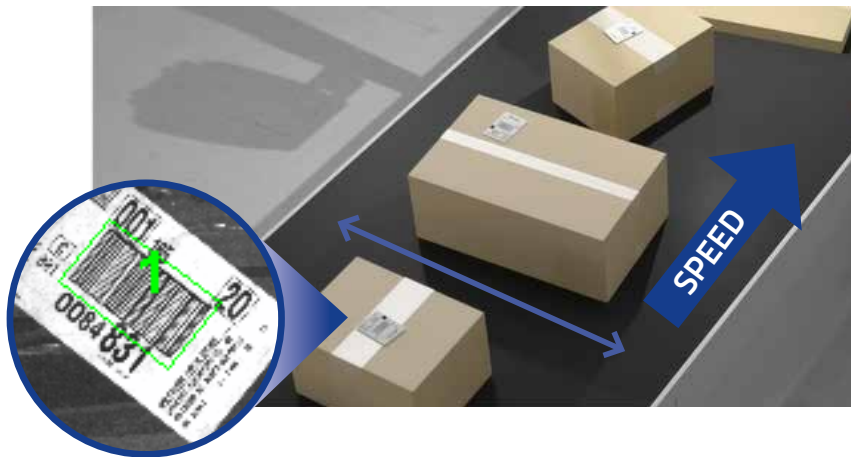
Reduce installation time and eliminate errors with the XRF410N™, an innovative, image-based solution for material handling applications.

With a simple and fast ordering system, selecting the correct model for a specific application does not require technical analysis.

Additionally, XRF410N™ saves time and eliminates errors that occur during the Bill of Materials process.

Additionally, XRF410N™ allows for the immediate replacement of units with a hot-swapping feature and the availability of units for any model type.

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EFFICIENT INSTALLATION

The XRF410N™ is a fully functional, Matrix solution that is pre-assembled and configured at the factory, resulting in easy, fast installation on-site.



Step 1. Install the bracket



Step 2. Mount the assembly



Step 3. Connect the trigger



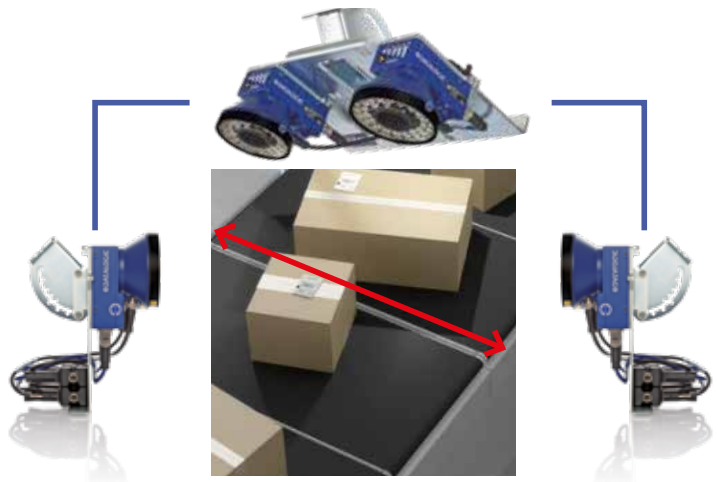
Step 4. Power system up

FEATURES & BENEFITS

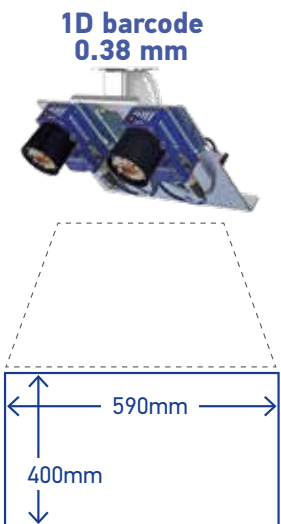
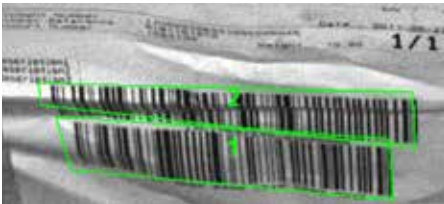
MODULAR

With a modular design, multiple XRF410N™ solutions can be combined for applications with wide conveyor belts or multi-side reading.

Additionally, a CBX500 with a display and back up module can be added, providing automatic parameter restoration for a replacement unit (factory or spare).



INTRINSIC DEPTH OF FIELD



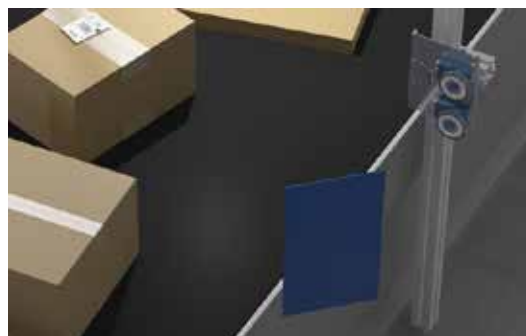
The XRF410N™ has a 400 mm, intrinsic DOF superior to anything available on the market today.

The DOF eliminates focusing complexity and is ideal for irregular-shaped objects, offering:

- A simple installation process over any conveyor type, even those with severe mechanical constraints
- No height barriers
- DOF is provided real-time with no latencies
- No moving parts

FLEXIBILITY FOR TIGHT SPACES

The EMK-MTX-600 External Mirror allows the XRF410N™ to be installed into tight spaces, with no need to alter the infrastructure of a pre-existing automation system.

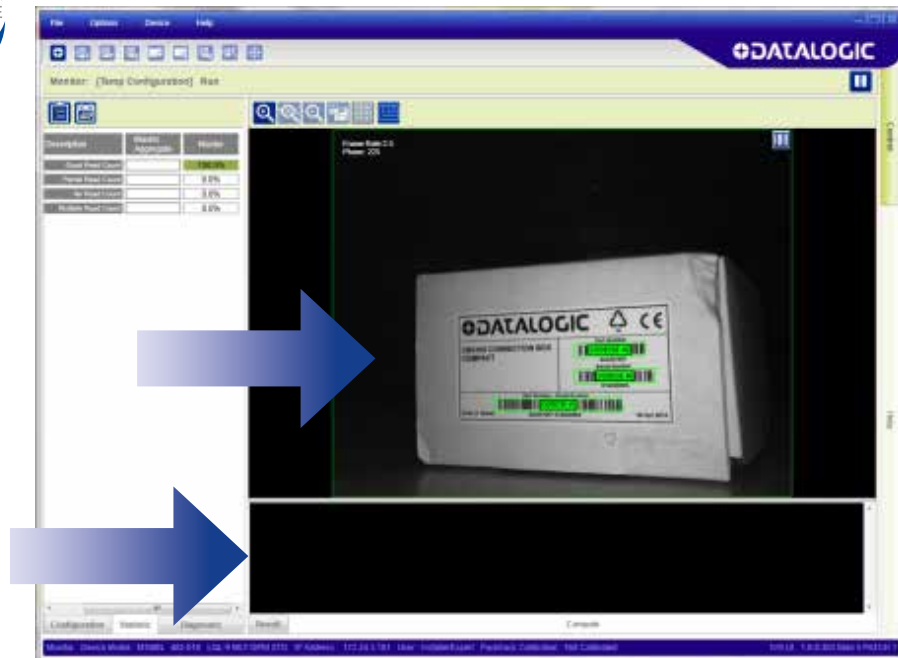


POWERED BY INDUSTRY-LEADING SOFTWARE

DL.CODE

The XRF410N™ is powered by industry-leading, state-of-the-art DL.CODE software. The new DL.CODE offers a usable interface that is:

- EASY: Intuitive graphical user interface with features like smart parameter display, linked parameter help information, and graphical code setups, anyone can program the Matrix N imagers
- FAST: Quickly and accurately configure devices using drag and drop message formatting, parameter display optimization, and immediate visual feedback on parameter changes.
- HIGH PERFORMING: Maximize the speed and performance of Matrix N devices with automated auto learn, independent code optimizations, and part variance effects.
- REAL-TIME: Increase uptime through a real time view of the process while the Matrix N is still working in the production line. Instantly diagnose process issues for faster, more accurate problem resolution



2D PACKTRACK

The High Performance model offers 2D PackTrack for applications that require small gaps between objects, such as tray sorters.

2D PackTrack provides:

- Multiple reading rate for maximum code acquisitions
- Immunity to reflective or damaged codes
- Installation flexibility with object tracking and a programmable TX line



