



Features:

- Reading of 1D/2D codes in a large field of view applications
- Ideal for pallet scanning, aggregation and scanning of large areas
- Fast installation, max. 5 minutes
- Lower maintenance costs
- Increased productivity

The High Speed Steerable Mirror (HSSM) attached to the Cognex DataMan® 470 fixed-mount 1D/2D code reader provides a high-performance, cost-effective solution for large field of view applications. Previously, pallet scanning, aggregation, and large area scanning functions required expensive, high-resolution PC-vision, or two or more smart cameras to successfully read the high volume and variation of 1D/2D codes. HSSM provides this coverage and speed in a single compact form factor. It enables faster installation, lower maintenance costs, and increased productivity.

Solve large field of view applications

The high accuracy HSSM transforms 3MP and 5MP code readers to an effective resolution greater than a 50MP sensor. This makes the mirror ideal for large field of view applications which often have shorter working distances and high variability.



Pharmaceutical aggregation



Inbound pallet scanning

Deploy your application in 5 minutes

HSSM comes with a built-in web-based setup wizard allowing operators to deploy an application in 5 minutes or less. The user simply enters in their application specifications and the wizard automatically calculates the optimal scanning pattern. This ensures the highest read rates in the shortest cycle times. An integrated laser aimer guides initial mounting and dynamically follows the steered field of view to provide real time feedback on the device scanning pattern.

High Speed Steerable Mirror Cognex DataMan 470 / HSSM



Take advantage of the latest 1D/2D code reading technology

DataMan 470 is a premium fixed-mount 1D/2D code reader designed with multi-core processing power, HDR+ imaging technology, a high-resolution sensor, and advanced decoding algorithms. Take this latest technology to the next level by adding the High Speed Steerable Mirror.

Specifications		
	DataMan 474 Variant	DataMan 475 Variant
Algorithms and Technologies	1DMax, 2DMax, Hotbars, PowerGrid	
Image Sensor Properties	Diagonal 8.9 mm; 3.45µm square pixels	Diagonal 11.1 mm; 3.45µm square pixels
Image Sensor Resolution	2048 x 1536	2448 x 2048
Electronic Shutter Speed	Min. exposure: 15µs Max. exposure: 1000µs with internal illumination/10,000µs with external illumination	
Max Acquisition	Up to 55 Hz	Up to 37 Hz
Lens Options	Liquid lens 16 mm, 24 mm, 25 mm	Liquid lens 24 mm, 35 mm
Trigger and Tune Buttons	Yes; Quick Setup Intelligent Tuning	
Aimer	Included	
Discrete Inputs	2 fixed + (*) opto-isolated	
Discrete Outputs	2 fixed + (*) opto-isolated	
*Other I/O Points	2 user-configurable	
Status Outputs	Beeper, 5 multifunctional LEDs, 10 LED bar array, 360-degree indicator	
Lighting	Various controllable external light options	
Communications	Ethernet and Serial	
Protocols	RS-232, TCP/IP, PROFINET, EtherNet/IP(TM), SLMP, Modbus TCP, NTP, SFTP, FTP, MRS Java Scripting enabled for custom protocols	
Power	24 VDC ±10%	
Power Consumption	24 VDC ±10%, 1.5 A maximum Supplied by LPS or NEC class 2 only	
Weight	718 g	
Dimensions	184.8mm (L) x 67.7mm (W) x 77.1mm (H)	
Operating Temperature	0–57 °C (32-134.6 °F) ¹	
Storage Temperature	-20–80 °C (-4-176 °F)	
Operating and Storage Humidity	< 95% non-condensing	
Protection	IP67 with cables	
Winkelabweichung	-40 degrees to +40 degrees	
RoHS Certified	Yes	
Approvals (CE, UL, FCC)	Yes	

¹ In situations where the operating temperature exceeds 40 °C, an external heat sink is required.

Order Data – High Speed Steerable Mirror Cognex DataMan 470 / HSSM		
Item No.	Description	ID Reading Algorithmn
042482	DataMan 474QL steerable high speed mirror, liquid lens 24mm f/6, 1 axis steerable	1D omni-directional 1DMax incl. HotBars II
042483	DataMan 474QL steerable high speed mirror, liquid lens 35mm f/8, 1 axis steerable	1D omni-directional 1DMax incl. HotBars II
042484	DataMan 475QL steerable high speed mirror, liquid lens 24mm f/6, 1 axis steerable	1D omni-directional 1DMax incl. HotBars II
042485	DataMan 475QL steerable high speed mirror, liquid lens 35mm f/8, 1 axis steerable	1D omni-directional 1DMax incl. HotBars II
042486	DataMan 474X steerable high speed mirror, liquid lens 35mm f/8, 2 axis steerable	1D omni-directional 1DMax incl. HotBars II, 2D printed and direct part mark (DPM) with 2DMax PowerGrid
042487	DataMan 474X steerable high speed mirror, liquid lens 24mm f/6, 2 axis steerable	1D omni-directional 1DMax incl. HotBars II, 2D printed and direct part mark (DPM) with 2DMax PowerGrid
042488	DataMan 475X steerable high speed mirror, liquid lens 24mm f/6, 1 axis steerable	1D omni-directional 1DMax incl. HotBars II, 2D printed and direct part mark (DPM) with 2DMax PowerGrid
042489	DataMan 475X steerable high speed mirror, liquid lens 35mm f/8, 1 axis steerable	1D omni-directional 1DMax incl. HotBars II, 2D printed and direct part mark (DPM) with 2DMax PowerGrid
042490	DataMan 475X steerable high speed mirror, liquid lens 24mm f/6, 2 axis steerable	1D omni-directional 1DMax incl. HotBars II, 2D printed and direct part mark (DPM) with 2DMax PowerGrid
042491	DataMan 475X steerable high speed mirror, liquid lens 35mm f/8, 2 axis steerable	1D omni-directional 1DMax incl. HotBars II, 2D printed and direct part mark (DPM) with 2DMax PowerGrid