AV7000 8K

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patented technologies, the AV7000 8K delivers high-definition images and software functionalities that surpass customer expectations.

Introducing the AV7000 8K, the next-generation 8,000-pixel wide linear

With its wide field of view, the AV7000 8K captures detailed, highdefinition images in a single shot across conveyors up to 1200 mm wide—eliminating the need for multiple partial images.

Thanks to Datalogic's patented Pulsed Lighting System, the multi-sided AV7000 8K reading station now occupies 50% less space than traditional non-pulsed lighting systems, making it the perfect choice for spaceconstrained applications.

The AV7000 8K excels in demanding image processing applications. including HazMat identification, OCR, package analytics, cross-belt inspection, and label-sensitive text blurring. It ensures secure communication and supports multiple formats, providing reliable solutions for critical tasks.

Designed for the most demanding parcel sorting applications, the AV7000 8K is the ideal choice for Express Courier services and Retail Distribution companies, offering high-definition imaging and unmatched performance.





Lighting System



High performance 8K linear Imager



Digital Zoom



Sinale shot high definition image



High speed auto-focus system



Stop-N -Go reading capabilities



Enhanced decoding library



Web browser configuration tool



LINUX Operating System

HIGHLIGHTS

- 8K CMOS sensor with 40 % greater sensitivity
- · Single view high quality picture for large conveyors
- · Patented Autofocus System offering extended DoF
- Patented PLS technology, reducing the footprint of the reading station by 50%
- Patented Digital Zoom technology assuring constant DPI resolution
- Enhanced decode algorithm for challenging 1D and 2D bar codes
- · Multiple format image saving from full definition to highly compressed JPG
- Browser based interface, compatible with any kind of OS and HW platform including PC and Tablet
- · Redundant architecture with no single point of failure
- · Software tools for image saving and data intelligence.
- Linux operating system

TARGET MARKETS AND APPLICATIONS

- High speed Parcel sortation
- **Dimension Weigh Scan System**
- OCR and Videocoding
- Extended ID and image saving redundant architecture (double controller, tachometer, photo-eye and closed EBC loop)

MODELS AND ACCESSORIES

Field of View	up to 1400 mm (55.12 in)	
Max Resolution	110 to 260 pixels/inch (DPI) *	
Scan Rate	33,000 scans/s (33kHz)	
Imager Sensor Features	High Speed CMOS Line Scan (8192 pixels)	
Optical lens	90 mm, 110 mm and 140 mm *	
Aperture Angle	15° to 45° *	
Readable Barcodes	All Standard 1D and 2D Symbologies	
IP Rating	IP65	
Dimensions (Typical Value)	with external fans and Short Illumination: 845x416x237 mm [33.3x16.4x9.3 in] with external fans and Medium Illumination: 1150x416x237 mm [45.3x16.4x9.3 in] with external fans and long Illumination: 1480x416x237 mm [58.3x16.4x9.3 in]	
Weight	11kg [24 lbs]	
Temperature Range	Operating: 0° to 50° C [32° to 122° F] Storage: -20° to 70° C [-4° to 158° F]	
Power Supply/Consumption	23-26VDC at illuminator connector	
Case Material	Aluminum die-cast	
Ethernet	1 Gigabit Ethernet for decoding data to Host (may also be used for setup) 1 Gigabit Ethernet for image file transfer to Ho	
Serial Ports	1 Main (COM) RS232/RS485FD opto-isolated serial port up to 115.2 Kbit/s 1 Aux RS232 opto-isolated serial port up to 11 Kbit/s	
Internal Communication System	SyncNet Technology	
Digital Inputs	3 x Inputs (2 + 1 x "Encoder"), optocoupled, NPN/PNP	
Digital Outputs	2 x Outputs SW programmable, optocoupled, event driven, NPN	

^{*} Depends on model and/or application type

MECHANICAL DRAWINGS









MODELS

MODEL	DESCRIPTION	PART NUMBER	
AV7000 8K Reader			
AV7000-1000	140mm f/5.6 STD	934001000	
AV7000-1100	140mm f/5.6 SHORT RANGE	934001010	
AV7000-1200	110mm f/8.0	934001020	
AV7000-1300	90mm f/8	934001030	
Al7000 Illumination			
AI7000-800	SHORT LIGHTING SYS	934001100	
AI7000-1100	MEDIUM LIGHTING SYS	934001110	
AI7000-1500	LONG LIGHTING SYS	934001120	
AI7000-800W	SHORT WHITE LIGHTING SYS	934001200	
AI7000-1100W	MEDIUM WHITE LIGHTING SYS	934001210	
AI7000-1500W	LONG WHITE LIGHTING SYS	934001220	

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