Metrologic Instruments, Inc. is a global supplier of choice for data capture and collection hardware, optical solutions, and image processing software. Metrologic has been delivering innovative, quality products that are cost effective, reliable and supported by the highest level of personal service for nearly 40 years. Metrologic products are sold worldwide through Metrologic's sales, service and distribution offices located in The Americas, EMEA and Asia/Pacific. Metrologic provides its customers not only with a great deal, but a great deal more. For more information visit www.metrologic.com.

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INDUSTRIAL SCANNERS AND SYSTEMS

Fixed Laser and Imaging Bar Code Scanners













TECH Series

IS8000 Series HoloTrak

Contents

Industrial Scanner Selection Chart

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Product	iQ® Series	IS8000 Series HoloTrak®	TECH Series
Technology Linear CCD Camera		Holographic Laser	Conventional Optics
Bar Code Type	1D and 2D	1D	1D
Bar Code Width (min)	1D: 0.20 mm (8 mil) 2D: 0.38 mm (15 mil)	0.25 mm (10 mil)	0.19 mm (7.5 mil)
Conveyor Speed (max)* 3.2 m/sec (600 fpm)		1.8 m/sec (350 fpm)	0.8 m/sec (150 fpm)
Sortation* Yes		Yes	Yes
Presentation	No	Yes	Yes

^{*}Parcel Spacing and Bar Code Dependent



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IQ® Series Image Acquisition Systems and Scanners



Metrologic's iQ® Series sets new standards for high-speed, high-resolution linear CCD camera technology. The iQ Series integrates everything from the unique patented built-in laser illumination system to the CCD camera to the processing electronics in compact, rugged housings. That means fast and easy setup, reliable operation, and the power to aggressively read your bar codes – even under plastic. The iQ Series decodes high-density and poorly printed or damaged codes on objects traveling up to 600 feet per minute. Combining all this with a family of fixed and variable focus configurations gives the series enough flexibility to handle virtually any application.

Of special note is the unique co-planar laser illumination characteristic of the iQ Series. It has many advantageous features including marking a clear decode line for easy alignment, running cool to the touch, essentially eliminating glare, and concentrating the light in a way that gives the iQ Series an impressive depth of field. Images provided by iQ System cameras are crisp and clear.

Commercial, manufacturing, transportation and logistics, and postal and parcel delivery industries all expect outstanding scanning rates, reliability, and accuracy; that is what Metrologic and the iQ Series delivers in a cost-effective, feature rich camera based solution.



*Parcel Spacing and Bar Code Dependent

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Product	iQ® Series
Technology	Linear CCD Camera
Bar Code Type	1D and 2D
Bar Code Width (min)	1D: 0.20 mm (8 mil) 2D: 0.38 mm (15 mil)
Conveyor Speed (max)*	3.2 m/sec (600 fpm)
Sortation*	Yes
Presentation	No

PRODUCT		iQ*160	iQ®185	
DEPTH OF FIELD	0 mm (0") 127 mm (5") 254 mm (10") 381 mm (15") 508 mm (20") 635 mm (25") 762 mm (30") 889 mm (35") 1016 mm (40") 1143 mm (45") 1270 mm (50") 1397 mm (55") 1524 mm (60") 1551 mm (65") 1778 mm (70") 1905 mm (75") 2032 mm (80") 2159 mm (80") 2259 mm (80")	13 mil 457 mm (187)	176 DPI RESOLUTION SCAN AREA 150 DPI RESOLUTION	
BAI	R CODE(S)	20 30 10	MATERIAL COMMAND INCOMES CANADA COMMAND COMMAN	
OPTICS		Configurable Fixed Focus	Dynamic Focus	

features	benefits
High-res linear CCD camera	Reads and tracks both 1D and 2D bar codes at very high speeds with very small spacing
Large field of view	Replaces multiple laser scanner and complex imaging systems
Intelligent decoding	Increases read rates of damaged and small 1D and 2D bar codes
Integrated illumination	Reduces service costs, complexity, size and installation time
Remote diagnostics	Simplifies system monitoring, troubleshooting and software upgrades

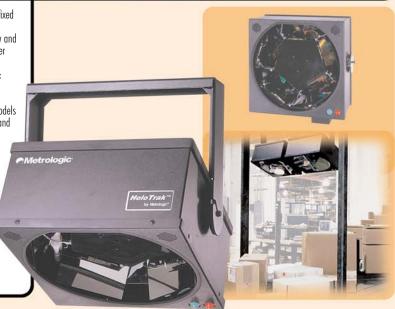
1

158000 Series Holotrak®

Metrologic's IS8000 Series HoloTrak® utilizes the power of holography. These fixed position scanners project a large, dense scan pattern virtually unattainable by traditional scanners. The IS8000 Series HoloTrak's offer models for reading low and high-density codes, at low or high speeds, projecting thousands of scan lines per second in multiple depths of field - all accomplished by Metrologic's exclusive device, the Holodisc. The IS8000 Series HoloTrak scanners include four models: IS8300, IS8400, IS8500 and IS8550.

All of these models include Metrologic's exclusive holographic architecture. The models differ in the areas of scan pattern, aspect ratio of the bar code, depth of field, and number of scan lines created per second. This industrial product group is designed to increase productivity by providing a hands-free solution to scanning. Applications such as order fulfillment, returns processing, shipping and receiving, and work in process are only a few areas where the IS8000 Series' proven performance is unprecedented.

IS8000 Series scanners are also an ideal solution for scanning parcels on a conveyor system where the conveyor speed reaches a maximum of 1.8 meters per second (350 feet per minute).



*Parcel Spacing and Bar Code Dependent

	Г
loloTrak [®]	l ⊦

Product	IS8000 Series HoloTrak®
Technology	Holographic Laser
Bar Code Type	1D
Bar Code Width (min)	0.25 mm (10 mil)
Conveyor Speed (max)*	1.8 m/sec (350 ft/min)
Sortation*	Yes
Presentation	Yes

Sunrise 2005 Compliant

PF	RODUCT	IS8550 - HoloTrak®	IS8500 - HoloTrak®	IS8400 - HoloTrak®	IS8300 - HoloTrak
DEPTH OF FIELD	0 mm (0°) 127 mm (5°) 228 mm (10°) 381 mm (15°) 508 mm (20°) 635 mm (25°) 762 mm (30°) 889 mm (35°) 1016 mm (40°) 1143 mm (45°) 1270 mm (50°) 1397 mm (55°) 1524 mm (60°) 1651 mm (65°) 1778 mm (70°) 1965 mm (75°) 2032 mm (80°)	0.25 mm (10 mil) 92A4 A4EA 0.51 mm (20 mil) 0.52 mm (20 m	0.33 mm (13 ml) S.CAM AREA SSTAN AREA	0.33 mm (13 mil) 0.33 mm (13 mil) SCANAREA 0.51 mm (20 mil) SCANAREA	0.33 mm (13 ml) 0.55 mm (20 ml) SCAN AREA
С	BAR ODE(S)			<u></u>	<u> </u>
	SCAN ATTERN				**

features	benefits
Holographic scanning technology	Generates large and aggressive scanning field
Holographic omnidirectional scanning	Scans skewed bar codes in any orientation
HoloDisc - reliable optical design	Spinning disc optics greatly extends life of the scanner
HoloTunnel - multi-sided scanning	Linked units easily read codes on multiple sides of objects
Holo-Presentation mode	Automate operator processes with hands-free scanning

TECH Series

Metrologic's TECH Series scanners are designed for short-range scanning. These rugged laser scanners begin scanning just a few inches from the face of the scanner and project a depth of scan field that reaches up to 560 mm (22") from the face. Capable of being mounted in any position, these scanners are a popular choice for warehouse, distribution centers and manufacturing plants. These scanners are the only Metrologic industrial category using conventional scanning optics because holography which excels at a longer-range is not necessary for close up bar code reading. Available in three models, each project a specific "closerange" depth of field. Two of the three models are available as a "raster" version or an omnidirectional scan pattern version. All models are water and shock-resistant and come with user's guide, communication cable/power supply and mounting stand. The TECH scanners are a low cost solution to scanning needs for many applications.





Sunrise 2005 Compliant

Product	TECH Series
Technology	Conventional Optics
Bar Code Type	1D
Bar Code Width (m	oin) 0.19 mm (7.5 mil)
Conveyor Speed (n	max)* 0.8 m/sec (150 ft/min)
Sortation*	Yes
Presentation	Yes

PRODUCT		PRODUCT TECH 10°		TECH 7 [®]
DEPTH OF FIELD	0 mm (0°) 127 mm (5°) 254 mm (10°) 381 mm (15°) 508 mm (20°) 635 mm (25°) 762 mm (30°) 889 mm (35°) 1016 mm (40°) 1143 mm (45°) 1270 mm (50°) 139° mm (55°) 1524 mm (60°) 1651 mm (65°) 1778 mm (70°) 1905 mm (75°) 2032 mm (80°)	0.19 mm (7.5 mil) SCAN AREA 0.51mm (20 mil) SCAN AREA	0.19 mm (7.5 mi) \$GAMANEA. 0.51 mm (20mi) \$GAMANEA.	0.59 mm (7.5 mi) SCNAREA 0.51 mm (2.5 mi) SCSNAREA
ВА	R CODE(S)			<u> </u>
SCAN PATTERN			**	***

features	benefits
Short optical throw	Close-range scanning in tight locations easily achieved
Omnidirectional and raster patterns	Scans bar codes in any orientation
Rugged industrial housing	Withstands over 10 years of industrial abuse by design
High-value industrial scanner	Industry leading performance and reliability at a low cost
Over 1-billion hours of fleet run-time	Proven track record assures maximum uptime and life-span

PRODUCT	<i>I</i> S8550 - HoloTrak	<i>IS8500</i> - HoloTrak	<i>IS8400</i> - HoloTrak	/S8300 - HoloTrak
DEPTH OF FIELD	The second secon	-	-	
0 mm (0")	HoloTrak 8550	HoloTrak 8500	HoloTrak 8400	HoloTrak 8300
127 mm (5") 254 mm (10")		·····	j	
381 mm (15") 508 mm (20")		<u> </u>	1	
635 mm (25")			11 11 11	······································
762 mm (30") 889 mm (35")	0.25 mm (10 mil)	1.1	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
1016 mm (40")	SCAN ARÈA '		······································	0.33 mm (13 mil) SCAN AREA
1143 mm (45") 1270 mm (50")	0.51 mm (20 mil) SCAN AREA			0.51 mm (20 mil)
1397 mm (55") 1524 mm (60")			• • • • • • • • • • • • • • • • • • • •	SCAN AREA
1651 mm (65")		0.33 mm (13 mil)	0.33 mm (13 mil)	
1778 mm (70") 1905 mm (75")		SCAN AREA 0.51 mm (20 mil)	SCAN AREA 0.51 mm (20 mil)	• • • • • • • • • • • • • • • • • • • •
2032 mm (80")		SCAN AREA	SCAN AREA	
2159 mm (85") 2286 mm (90")				
BAR CODE(S)				
SCAN PATTERN				
OPERATIONAL				
Light Source	5 VLDs - 658 nm <u>+</u> 5 nm	5 VLDs - 658 nm <u>+</u> 5 nm	3 VLDs - 658 nm <u>+</u> 5 nm	5 VLDs - 658 nm <u>+</u> 5 nm
Laser Power	7.8 mW (peak)	7.8 mW (peak)	7.8 mW (peak)	7.8 mW (peak)
Scan Area · · · · · · · · · · · · · · · · · · ·		· · · · · · · maximum performa	nce area (shown as blue above) · · · ·	
Depth of Scan Field	660 mm - 1260 mm (29" - 38")	914 mm - 1266 mm (36" - 64")	788 mm - 1600 mm (31" - 63")	508 mm - 965 mm (20" - 38")
Width of Scan Field	310 mm (12.0")	559 mm (22")	457 mm (18")	305 mm (12")
@ Bar Width	0.25 mm (10 mil)	0.33 mm (13 mil)	0.33 mm (13 mil)	0.25 mm (10 mil)
Conveyor Speed (max - bar code dependent)	1.8 m/sec (350 ft/min)	1.8 m/sec (350 ft/min)	1.8 m/sec (350 ft/min)	1.8 m/sec (350 ft/min)
Scan Speed (max)	8,400 lines per second	5,600 lines per second	3,660 lines per second	5,250 lines per second
Focal Planes	2	4	4	5
Scan Lines / Focal Plane	60	20	12	15
Total Scan Lines	120	80	48	75
Decode Capability	Autodiscriminates all standard 1D bar codes	Autodiscriminates all standard 1D bar codes	Autodiscriminates all standard 1D bar codes	Autodiscriminates all standard 1D bar codes
System Interface	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB
Bar Code Aspect Ratio	4:1	4:1	4:1	4:1
Length	350 mm (13.8")	350 mm (13.8")	350 mm (13.8")	254 mm (10")
Width	338 mm (13.3")	338 mm (13.3")	338 mm (13.3")	282 mm (11.1")
Height	178 mm (7")	178 mm (7")	178 mm (7")	140 mm (5.5")
Weight	11 kg (25 lbs)	11 kg (25 lbs)	11 kg (25 lbs)	9 kg (20 lbs)
Input Voltage	12 VDC	12 VDC	12 VDC	12 VDC
Power	69 watts	69 watts	53 watts	53 watts
Operating Current	5.75 A	5.75 A	4.42 A	4.42 A
Laser Class (CDRH; IEC)	Class II; Class 2	Class II; Class 2	Class II; Class 2	Class II; Class 2
EMC	FCC Class A; CISPR Class A	FCC Class A; CISPR Class A	FCC Class A; CISPR Class A	FCC Class A; CISPR Class A
Operating Temperature	0°C to 40°C (32°F to 103°F)	0°C to 40°C (32°F to 103°F)	0°C to 40°C (32°F to 103°F)	0°C to 40°C (32°F to 103°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)
Relative Humidity	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing
Light Levels (maximum)	297 Lux (3200 footcandles)	297 Lux (3200 footcandles)	297 Lux (3200 footcandles)	297 Lux (3200 footcandles)

TECH 10	TECH 8	TECH 7	iQ ° 160	iQ*185
0.19 mm (7.5 mil) SCANAREA 0.51 mm (20 mil) SCANAREA	0.19 mm (7.5 mil) SCAN AREA 0.51 mm (20 mil) SCAN AREA	0.19 mm (7.5 mil) SCAN AREA 0.51 mm (20 mil) SCAN AREA	13 mil 457 mm (18")	176 DPI RESOLUTION SCHA AREA 150 OPI RESOLUTION
			2 2	Si Maritimonic Selection of Sel
			Configurable Fixed Focus	Dynamic Focus
OPERATIONAL				
1 VLD - 650 nm <u>+</u> 10 nm	1 VLD - 650 nm <u>+</u> 10 nm	1 VLD - 650 nm <u>+</u> 10 nm	Coplanar, multi-laser illumination	Coplanar, multi-laser illumination
0.85 mW (peak)	0.55 mW (peak)	0.68 mW (peak)	23 mW per VLD	23 mW per VLD
· · · · · · maxin	num performance area (shown as blue	above)		
254 mm - 559 mm (10" -22")	203 mm - 457 mm (8" - 18")	76 mm - 254 mm (3" - 10")	800 mm - 1105 mm (31.5" - 43.5")	1194 mm - 2108 mm (47" - 83")
280 mm (11")	254 mm (10")	152 mm (6")	457 mm (18")	918 mm (36")
0.19 mm (7.5 mil)	0.19 mm (7.5 mil)	0.19 mm (7.5 mil)	.33 mm (13 mil)	0.22 mm (9 mil)
0.8 m/sec (150 ft/min)	0.8 m/sec (150 ft/min)	0.8 m/sec (150 ft/min)	3.2 m/sec (600 ft/min)	3.2 m/sec (600 ft/min)
1,250 lines per second	1,250 lines per second	2,000 lines per second	Up to 16,000 lines/sec	Up to 16,000 lines/sec
1	1	1	1	1
25	20	20	1	1
25	20	20	1	1
Autodiscriminates all standard 1D bar codes	Autodiscriminates all standard 1D bar codes	Autodiscriminates all standard 1D bar codes	Autodiscriminates all standard 1D and 2D bar codes	Autodiscriminates all standard 1D and 2D bar codes
PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB	PC Keyboard Wedge, RS232, Stand Alone Keyboard, USB	RS232, Point to Point RS422, Ethernet	RS232, Point to Point RS422, LVDS optional, Ethernet, fiber optional
4:1	4:1	4:1	>5:1	>5:1
312 mm (12.3")	203 mm (8")	198 mm (7.8")	230 mm (9")	394 mm (15.5")
262 mm (10.3")	216 mm (8.5")	185 mm (7.8")	405 mm (16")	527 mm (20.8")
109 mm (4.3")	97 mm (3.8")	79 mm (3.1")	135 mm (5.3")	222 mm (8.8")
5.2 kg (11.5 lbs)	3.5 kg (7.8 lbs)	2.4 kg (5.2 lbs)	9.1 kg (20 lbs)	27 kg (60 lbs)
11-30 VDC	11-30 VDC	11-30 VDC	115 VAC	115 VAC
15 watts	15 watts	13 watts	288 VA	230 VA
0.75 A (at 20 VDC)	0.75 A (at 20 VDC)	0.65 A (at 20 VDC)	2.5A (at 115 VAC)	2A (at 115 VAC)
Class IIa; Class 1	Class IIa; Class 1	Class IIa; Class 1	CDRH & IEC: Class 2M	CDRH & IEC: Class 2M
FCC Class A; CISPR Class A	FCC Class A; CISPR Class A	FCC Class A; CISPR Class A	FCC Class A	FCC Class A, CISPR Class A
000 1 4000 (0007)	000 1 4000 (0007 1 1007	000 4000 (0005 10005	400 1 4000 (4005 1 1115 7	400 1 4000 (0005 1 45 175
0°C to 40°C (32°F to 103°F)	0°C to 40°C (32°F to 103°F)	0°C to 40°C (32°F to 103°F)	4°C to 43°C (40°F to 110°F)	4°C to 40°C (39°F to 104°F)
-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)	-40°C to 60°C (-40°F to 140°F)
5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing	5% to 95% non-condensing
297 Lux (3200 footcandles)	297 Lux (3200 footcandles)	297 Lux (3200 footcandles)	N/A	N/A

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