

Quick Comparison Guide: Rugged Cabled & Cordless Industrial Bar Code Scanners

	1D Linear Imagers			Standard Range 2D Imagers				Laser 1D Scanners		
Models	Intermec SR61T1D / SR61B1D	Datalogic PD7100 / PBT7100	Honeywell 3800i / 3820i	Intermec SR61THP / SR61BHP	DataLogic PS7000 2D	Honeywell 4800i / 4820i	Motorola DS3508 SR / DS3578 SR	Intermec SR61TL / SR61BL	DataLogic PD8300 / PBT8300	Motorola LS3408 FZ / LS3478 FZ
Target Customers	Warehouse management, manufacturing			Warehouse management, manufacturing				Warehouse management, manufacturing		
Target Applications	Inventory management, picking, shipping and receiving, cross docking, WIP, pallet tracking			Inventory management, picking, shipping and receiving, cross docking, WIP, pallet tracking and non-incendive explosive environments				Inventory management, picking, shipping and receiving, cross docking, WIP, pallet tracking		
				 <small>*Non-incendive wireless model available</small>						
Technology	Linear imager	Linear Imager	Linear imager	2D imager	2D imager	2D imager	2D imager	MEMS laser	Laser	Laser
Future Proof	No	No	No	Yes	Yes	Yes	Yes	No	No	No
Non-Incendive Option	No	No	No	Yes (Class 1 Div 2)	No	No	No	No	No	No
Omnidirectional Scanning	No	No	No	Yes	Yes	Yes	Yes	No	No	No
Reads Colored Barcodes	No	No	No	Yes, including red	No	No	No	No	No	No
Image Capture	No	No	No	Yes	Yes	Yes	Yes	No	No	No
Video Capture	No	No	No	Yes	Yes	Yes	Yes	No	No	No
Aimer Technology	LED	Laser	LED	Laser framer	LED	LED	Laser framer	Laser line	Laser line	Laser line
High Speed USB	Yes	No	No	Yes	No	No	No	Yes	No	No
Interfaces supported	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge	USB, RS232, keyboard wedge, wand	USB, RS232, RS485, keyboard wedge	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge, wand
Radio Specifications	Bluetooth Class 1 v1.2	Bluetooth Class 1 v2.0	Bluetooth Class 2 v2.0	Bluetooth Class 1 v1.2	NA	Bluetooth Class 2 v2.0	Bluetooth Class II v2.1	Bluetooth Class 1 v1.2	Bluetooth Class 1 v2.0	Bluetooth Class II v2.1
Frequency	2.4 GHz with adaptive frequency hopping	2.4 GHz	2.4 GHz with adaptive frequency hopping	2.4 GHz with adaptive frequency hopping	NA	2.4 GHz with adaptive frequency hopping	2.4 GHz with adaptive frequency hopping	2.4 GHz with adaptive frequency hopping	2.4 GHz	2.4 GHz with adaptive frequency hopping
Radio Range	100 m (325 ft)	100 m (325 ft)	10 m (33 ft)	100 m (325 ft)	NA	10 m (33 ft)	30 m (100 ft)	100 m (325 ft)	90 m (295 ft)	30 m (100 ft)
USB Profiles	Serial, HID	Serial, HID	HID	Serial, HID	NA	HID	Serial, HID	Serial, HID	Serial, HID	Serial, HID
Cordless Battery Capacity	10+ hours	16 hours	16 hours	10+ hours	NA	16 hours	10 hours	10+ hours	8 hours	10 hours
Battery recharge time	2.5 hours	4 hours	4 hours	2.5 hours	NA	4 hours	4.5 hours	2.5 hours	4 hours	4.5 hours
20 mil C39	4 - 35 cm (1.6 - 13.8 in)	0 - 119.0 cm (0 - 46.9 in)	3.8 - 107 cm (1.5 - 42 in)	7 - 46 cm (2.8 - 18.1 in)	Unknown	Unknown	2.5 - 53.1 cm (1 - 20.9 in)	6 - 85 cm (2.4 - 33.5 in)	6.3 - 78.5 cm (2.5 - 30.9 in)	0 - 100.3cm (0 - 39.5 in)
10 Mil Data Matrix	NA	NA	NA	6 - 21 cm (2.4 - 8.3 in)	Unknown	Unknown	2.8 - 18 cm (1.1 - 7.1 in)	NA	NA	NA
10 Mil PDF417	NA	NA	NA	5.5 - 26 cm (2.2 - 10.2 in)	3.0 - 16.7 cm (1.2 - 6.6 in)	6.6 - 21.6 cm (2.6 - 8.5 in)	1.0 - 23.6 cm (0.4 - 9.3 in)	NA	NA	NA
Motion Tolerance (Good/Better/Best)	Good	Good	Good	Best	Good	Good	Better	Better	Better	Better
Scans 1D Bar Codes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scans PDF417	No	No	No	Yes	Yes	Yes	Yes	No	No	No
Scans 2D Bar Codes	No	No	No	Yes	Yes	Yes	Yes	No	No	No
Environmental Protection	IP54	IP65	IP54	IP54	IP65	IP54	IP65	IP54	IP65 / IP64	IP65
Drop Specification (26 Drops to Concrete)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)
Ambient Light	0 - 100,000 LUX	0 - 100,000 LUX	0 - 70,000 LUX	0 - 100,000 LUX	0 - 100,000 LUX	0 - 100,000 LUX	Up to 86,000 LUX	0 - 100,000 LUX	Immune to Sunlight	Up to 86,080 LUX
Warranty	3 years	3 years	3 years	3 years	5 years	5 years	3 years	3 years	3 years	3 years

	Near/Far Range				HD & DPM 2D Imagers	
Models	Intermec SR61TXR / SR61BXR	DataLogic PD8300 AR / PBT8300 AR	Motorola LS3508 ER / LS3578 ER	Motorola DS3508 ER / DS3578 ER	Intermec SR61TDPM / SR61BDPM	Motorola DS3508 DP / DS3578 DP
Target Customers	Warehouse management, manufacturing				Direct part marks, high density code reading	
Target Applications	Inventory management, picking, shipping and receiving, cross docking, WIP, pallet tracking and non-incendive explosive environments				Warehouse management and manufacturing in aerospace, automotive, electronics, government and DOD, or any application with high density or high resolution codes	
	 <small>*Non-incendive wireless model available</small>					
Technology	2D imager	1D laser	1D laser	2D imager	2D imager	2D imager
Future Proof	Yes	No	No	Yes	Yes	Yes
Non-Incendive Option	Yes (Class 1 Div 2)	No	No	No	No	No
Omnidirectional Scanning	Yes	No	No	Yes	Yes	Yes
Reads Colored Barcodes	No	No	No	No	Yes, including red	No
Image Capture	Yes	No	No	Yes	Yes	Yes
Video Capture	Yes	No	No	Yes	Yes	Yes
Aimer Technology	Omnidirectional laser spot	Laser line	Laser line	Laser	Laser framer	Laser
High Speed USB	Yes	No	No	No	Yes	No
Interfaces supported	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge, wand	USB, RS232, keyboard wedge, wand
Radio Specifications	Bluetooth Class 1 v1.2	Bluetooth Class 1 v2.0	Bluetooth Class II v2.1	Bluetooth Class II v2.1	Bluetooth Class 1 v1.2	Bluetooth Class II v2.1
Frequency	2.4 GHz with adaptive frequency hopping	2.4 GHz	2.4 GHz with adaptive frequency hopping	2.4 GHz with adaptive frequency hopping	2.4 GHz with adaptive frequency hopping	2.4 GHz with adaptive frequency hopping
Radio Range	100 m (325 ft)	90 m (295 ft)	30 m (100 ft)	30 m (100 ft)	100 m (325 ft)	30 m (100 ft)
USB Profiles	Serial, HID	Serial, HID	Serial, HID	Serial, HID	Serial, HID	Serial, HID
Cordless Battery Capacity	10+ hours	8 hours	10 hours	10 hours	10+ hours	10 hours
Battery recharge time	2.5 hours	4 hours	4.5 hours	4.5 hours	2.5 hours	4.5 hours
20 mil C39	16 - 200 cm (6.3 - 6.6 ft)	12.0 - 210.0 cm (4.7 - 82.7 in)	7.6 - 238.7 cm (3 - 7.8 ft)	20.3 - 223.5 cm (8 - 7.3 ft)	7.5 - 23 cm (2.9 - 9 in)	2.8 - 23.3 cm (1.1 - 9.2 in)
10 Mil Data Matrix	16 - 80 cm (6.3 - 2.6 ft)	NA	NA	20.3 - 106.7 cm (8 - 3.5 ft)	4.5 - 14 cm (1.7 - 5.5 in)	0 - 11.2 cm (0 - 4.4 in)
10 Mil PDF417	Unknown	NA	NA	NA	4 - 16.5 cm (1.5 - 16.5 in)	0 - 11.4 cm (0 - 4.5 in)
Motion Tolerance (Good/Better/Best)	Good	Better	Better	Good	Best	Good
Scans 1D Bar Codes	Yes	Yes	Yes	Yes	Yes	Yes
Scans PDF417	Yes	No	No	Yes	Yes	Yes
Scans 2D Bar Codes	Yes	No	No	Yes	Yes	Yes
Environmental Protection	IP54	IP65 / IP64	IP65	IP65	IP54	IP65
Drop Specification (26 Drops to Concrete)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)	2 m (6.5 ft)
Ambient Light	0 - 100,000 LUX	Immune to Sunlight	Up to 86,000 LUX	Up to 86,000 LUX	0 - 100,000 LUX	Up to 86,000 LUX
Warranty	3 years	3 years	3 years	3 years	3 years	3 years