

Product profile

SR31T

Durable 1D/2D
Handheld Scanner



SCANNING

Available with the industry's fastest 2D imaging technology for highly responsive, dependable scanning



RUGGED

Tested to withstand repeated 1.83 meter drops to concrete and rated IP53



PLUG & PLAY

Simply connect the scanner to the host and start scanning immediately; no time-consuming configuration necessary



ADAPTABLE

Can be customized to your environment, with adjustable LED color, beeper tone and vibration setting



ERGONOMIC

Time-tested design is comfortable to hold for extended periods

Gain a Performance Advantage

The SR31T was designed to maximize user productivity. Area imager versions integrate Intermec's EA30 or EA31 imaging engines for a level of scanning speed and responsiveness historically found in only the fastest laser scanners. Extreme motion tolerance (up to 500 in/sec) and omnidirectional reading result in effortless, consistent scanning—at any orientation.

With an uncanny ability to read poor-quality codes, the SR31T can help you avoid error-prone manual data input routines. Read codes that are damaged, partially obscured, off-angle, colored, high resolution, or low contrast. And thanks to VESTA, Intermec's patented scanning algorithm, EAN/UPC and Code 39 read range is increased by an average of 60 percent.*

Ready for Tomorrow

The SR31T high performance imager was developed to address your scanning needs now and well into the future. Not only can it read all common 1D, PDF, 2D, and postal symbologies—it can also reliably read these codes from smartphone, tablet, and computer displays.

Reliability for the Long Term

Performance isn't just about speed; it's also about longevity in demanding environments. The SR31T sets a new ruggedness standard, with an IP53 rating

for protection against dust and water ingress, and an impressive 1.83 meter (six foot) drop specification to concrete.

Easy to Install, Easy to Use

Integrating the SR31T into your environment is truly plug-and-play. Simply connect the scanner to the host and start scanning. If new application requirements arise, just change out the interface cable with the simple push of a button—no need to replace the entire scanner. This flexibility reduces device costs and complexity, both for you and your IT staff.

The SR31T also includes distinctive design elements that add to its versatility. Unique touches, like the over-sized LED light pipe on the scanner head, provide bright 360-degree feedback in any lighting condition—and its color can be personalized to match the décor of your environment.

Scanner Configuration Made Easy

The SR31T can be quickly and easily customized with Intermec's exclusive EasySet™ PC programming tool. In just a few clicks, this Windows-based utility can print configuration bar codes; adjust security settings; activate or disable symbologies; and alter beeper, vibrate or LED settings. Even sophisticated data editing routines can be set. When you're satisfied with the settings, simply create a configuration bar code to quickly program additional scanners to match.

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*Compared to previous-generation SR30 scanners.

Physical Characteristics

Dimensions (LxWxH):

10.7 cm (4.2 in) x 6.8 cm (2.7 in) x 16.8 cm (6.6 in)

Weight: 195 gm (6.9 oz)

Typical Power Consumption

SR31T2D/HP: 360 mA @ 5V DC

SR31T1D: 120 mA @ 5V DC

Connectivity

- USB: Virtual Com, HID profiles
- POS Interfaces: HID POS, IBM SurePOS
- PC Keyboard Wedge
- RS232
- Wand Emulation
- OS Compatibility: iOS, Android®, Windows XP/Vista/7/8

Scan Technology

SR31THP: Intermec Area Imager with Laser Aimer (EA30)

SR31T2D: Intermec Area Imager with LED Aimer (EA31)

SR31T1D: Intermec Linear Imager (EV14+)

Bar Code Symbolologies for 1D Model (SR31T1D)

Codabar, Code 11, Code 39, Code 93/93i, Code 128 (GS1-128), EAN/UPC, GS1 DataBar Limited, GS1 Composite (linear only), GS1 DataBar Expanded, GS1 DataBar Omnidirectional, Interleaved 2 of 5, Matrix 2 of 5, MSI, Plessey, Standard 2 of 5, Telepen

Bar Code Symbolologies for 2D Models (SR31THP/2D)

All above symbolologies supported by 1D model plus the following: DataMatrix, QR Code, Micro QR, PDF417, Micro PDF417, Aztec, Maxicode, Han Xin, Codablock A, Codablock F, GS1 Composite, TLC 39, and Postal Codes (Australian Post, BPO, Canada Post, Dutch Post, Infomail, Intelligent Mail, Japan Post, Planet, Postnet, Sweden Post)

Scan Performance

Min. Code Resolution:

1D Codes: 4 mils

2D Codes: 6.6 mils

Min. Print Contrast:

SR31T1D: 20%

SR31T2D/HP: 20%

Max. Scan Rate:

SR31T1D: 200 scans/s

Motion Tolerance:

SR31THP: 500 in/s

SR31T2D: 400 in/s

User Feedback

- Oversized, Multi-Color, Color-Customizable LED
- Configurable Buzzer
- Configurable Vibrator

North America

6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348 2600
Fax: (425) 355 9551

North Latin America

Mexico
Phone: (+52) 55 52 41 48 00
Toll Free NOLA:
01800 490 4990

South Latin America

Brazil
Phone: (+55) 11 3711 6770
Fax: (+55) 11 5502 6780

Europe, Middle East & Africa

Reading, United Kingdom
Phone: (+44) 118 923 0800
Fax: (+44) 118 923 0801

Asia Pacific

Singapore
Phone: (+65) 6303 2100
Fax: (+65) 6303 2199

Environment

Operating Temperature: 0°C to +50°C (32°F to +122°F)

Storage Temperature: -20°C to +70°C (-4°F to +158°F)

Relative Humidity: 5 to 95% non-condensing

Drop: 26 drops from 1.83 m (6 ft.) to concrete

Tumbles: 3000 tumbles at 1 m height

Environmental Rating: IP53

Ambient Light: 0 to 100,000 lux

Electromagnetic Emissions Standards

Meets the requirements of the following product emission standards:

- FCC Part 15 Class B (United States)
- Industry Canada ICES-003 Class B (Canada)
- EN 55022: CISPR 22 Class B (European Union)

Environmental Compliance Requirements

Conforms to environmental compliance requirements for RoHS, China RoHS, WEEE, and REACH.

Regulatory Approvals

UL; CE Mark (EU); C-TICK (Australia and New Zealand)

Standard Warranty

Five year standard warranty, with extended protection available via Intermec Medallion Support Services.

Accessories

View the SR31T Accessory Guide for complete details.

- Adjustable Stand
- Gooseneck Stand
- Cables (USB, Powered USB, RS232, Keyboard Wedge Interface, Wand Emulation)
- EasySet™ Configuration Software

Typical Reading Distances*

SR31T1D Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.1 mm (4 mils)	4.5 cm (1.77 in)	21.5 cm (8.46 in)
	0.125 mm (5 mils)	3.5 cm (1.38 in)	24 cm (9.45 in)
	0.25 mm (10 mils)	3.5 cm (1.38 in)	31 cm (12.20 in)
	1 mm (40 mils)	8.5 cm (3.35 in)	86 cm (33.86 in)
EAN/UPC	0.33 mm (13 mils)	3.2 cm (1.26 in)	31.5 cm (12.40 in)

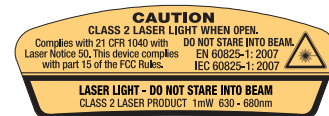
SR31T2D

Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.1 mm (4 mils)	3 cm (1.18 in)	18 cm (7.09 in)
	0.125 mm (5 mils)	3 cm (1.18 in)	23 cm (9.06 in)
	0.5 mm (20 mils)	5 cm (1.97 in)	66 cm (25.98 in)
	1 mm (40 mils)	13 cm (5.12 in)	116 cm (45.67 in)
EAN/UPC	0.33 mm (13 mils)	4 cm (1.57 in)	40 cm (15.75 in)
PDF417	0.25 mm (10 mils)	3 cm (1.18 in)	24 cm (9.45 in)
	0.38 (15 mils)	3 cm (1.18 in)	35 cm (13.78 in)
DataMatrix	0.25 mm (10 mils)	4 cm (1.57 in)	18 cm (7.09 in)

SR31THP

Symbology	Density	Minimum Distance	Maximum Distance
Code 39	0.1 mm (4 mils)	4 cm (1.57 in)	21 cm (8.27 in)
	0.125 mm (5 mils)	3 cm (1.18 in)	26 cm (10.24 in)
	0.5 mm (20 mils)	5 cm (1.97 in)	70 cm (27.56 in)
	1 mm (40 mils)	13 cm (5.12 in)	124 cm (48.82 in)
EAN/UPC	0.33 mm (13 mils)	4 cm (1.57 in)	46 cm (18.11 in)
PDF417	0.25 mm (10 mils)	3 cm (1.18 in)	26 cm (10.24 in)
	0.38 (15 mils)	3 cm (1.18 in)	35 cm (13.78 in)
DataMatrix	0.25 mm (10 mils)	5 cm (1.97 in)	21 cm (8.27 in)

*The reading distances for each scanner are typical distances measured from the front end of the scanner bezel in an office environment (200 lux) with extended reading range activated (if applicable).



Note: This warning applies only to SR31THP (EA30) models.

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www.L-TronDirect.com

800-830-9523

info@L-Tron.com

596 Fishers Station Dr | Victor, NY | 14564 | Suite 1 A

www.L-Tron.com

Get in touch with us
on social media!

