

# SG20

## General Purpose Handheld Scanner



The Intermec SG20 is an affordable, high performance handheld scanner available in a range of models suited to the demands of general purpose countertop scanning.

- Features the industry's fastest 2D imaging technology for highly responsive, dependable scanning
- Unique, ergonomic styling maximizes comfort and saves countertop space
- Large LED indicator provides effective visual operational feedback
- Choice of options matched to your scanning needs: 1D or 2D scan engines, laser- or LED-based aimer, tethered or Bluetooth wireless
- Wide range of multi-purpose accessories increase scanner flexibility
- Integrates seamlessly with point of sale systems, iOS® and Android® devices, personal computers, and common software solutions

Improving customer satisfaction has long been the mission of retailers everywhere, and making the checkout process more efficient is a key area of focus. By providing highly responsive and accurate scanning at checkout, the Intermec SG20 handheld bar code scanner helps you improve the customer experience.

### Reliable, Responsive Scanning

The checkout process is all about speed and efficiency. The SG20HP features the industry's fastest bar code reading technology, with more motion tolerance than competing devices. This ensures that all common 1D and 2D bar codes are scanned easily and consistently so you can serve your customers quicker.

Unlike laser scanners, the SG20HP supports true omnidirectional scanning of both 1D and 2D bar codes. When combined with best-in-class motion tolerance, this capability means your bar codes scan fast, at any orientation. Now, you don't have to waste time awkwardly repositioning items to get a successful scan.

### Perfectly Matched to Your Needs

Intermec understands that a "one-size-fits-all" approach to scanning can limit user efficiency and accuracy, so the SG20 family includes a range of models with different communication and scanning capabilities. Select between Bluetooth wireless for up to 10 meters (32.8 feet) of range, or the simplicity of tethered (cabled) connectivity. Choose the scan engine matched to your needs: either 1D (linear), 2D with laser aimer, or 2D with LED aimer ideal for

customer-facing applications. Now, you can standardize on a single scanner family across your operation while providing the right solution for your varied applications.

A variety of matching accessories, such as scan stands and holders, enable hands-free scanning and free up counter or desktop space. Regardless of the configuration, the entire SG20 line is priced for affordability and value.

### Setting a New Design Standard

The stylish design of the SG20 sets it apart from traditional gun-shaped handheld scanners. Careful attention to detail and extensive usability testing have resulted in a scanner that is not only aesthetically pleasing on any countertop, but also optimized for user comfort with a natural smooth grip and trigger location.

The arching profile of the SG20 is perfect for tight spaces and the over-sized multi-color LED provides a bright visual cue to confirm a successful scan, which can be helpful in noisy environments. In fact, the LED can be programmed to match the decor of your storefront.

### Part of a Complete Intermec Solution

The SG20 can be quickly and easily configured with Intermec's exclusive EasySet™ PC programming tool. In just a few clicks, this Windows-based utility can print programming barcodes for custom configurations. Adjust security settings, symbologies, beeper tone and volume, LED color—even set advanced data editing routines.

## Comprehensive Support Services Available

Intermec bar code scanners operate in dynamic business environments, and a support plan can protect you from unforeseen contingencies. Intermec Medallion® Service programs deliver the highest levels of productivity, device reliability, and uptime. Choose the right amount of coverage appropriate for your operations. For more, visit [www.intermec.com/services](http://www.intermec.com/services).

### Physical Characteristics

**Dimension (L x W x H):**  
20 cm (7.9 in) x 6.1 cm (2.4 in) x 6.5 cm (2.6 in)  
**Weight (SG20T):** 125 g (4.41 oz)  
**Weight (SG20B):** 175 g (6.17 oz)

### Electrical Specifications

**Battery:** Lithium-ion rechargeable (1567 mAh)  
**Battery Life:** Minimum 8K scans from 70% capacity  
**Battery Recharge Cycle:** 3 hrs when connected to external power supply; 6 hrs when slow charged from typical USB port

### Typical Power Consumption

**Tethered Versions @5V DC:**  
120mA (SG20T1D); 330mA (SG20THP)  
**Wireless Versions (Base Station):** 0.5A maximum

### Bluetooth Radio

**Type:** Bluetooth Class 2 v2.1+EDR  
**Range:** 10 m (32.8 ft)  
**Features:** Adaptive Frequency Hopping (AFH)

### Connectivity

- **USB:** HID Keyboard (with Apple iOS Support), HID POS\*, IBM SurePOS\*, virtual comm port
  - **PC keyboard wedge**
  - **RS232**
- \* Tethered versions

### Scan Technology

**SG20xHP:** Intermec Area Imager, Laser Aimer (EA30)  
**SG20x2D:** Intermec Area Imager, LED Aimer (EA31)  
**SG20x1D:** Intermec Linear Imager (EV Series)

### Scan Performance

**Min. Code Resolution:**  
**1D Codes:** 4 mils  
**2D Codes:** 6.6 mils  
**Min. Print Contrast:** 20%  
**Motion Tolerance:**  
**SG20xHP:** 500 in/s  
**SG20x2D:** 400 in/s

### Bar Code Symbologies Supported (1D)

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 Symbologies Supported (2D)

All above symbologies supported by 1D model plus the following: Australian Post, Aztec, BPO, Canada Post, Codablock A, Codablock F, DataMatrix, Dutch Post, EAN/UPC, GS1 Composite, GS1 DataBar Stacked, Infomail, Intelligent Mail, Japan Post, Maxicode, Micro PDF417, Multicode, PDF417, Planet, Postnet, QR Code, Sweden Post, TLC 39

### Temperature and Environmental Specifications

**Operating temperature:** 0°C to 50°C (32°F to 122°F)  
**Storage temperature:** -20°C to 60°C (-4°F to 140°F)  
**Relative humidity:** 5 to 95% non-condensing  
**Drop:** 1.2 m (4 ft.) to concrete  
**Environmental rating:** IP30  
**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); NOM (Mexico); C-TICK (Australia and New Zealand); SRRS (China); IDA (Singapore); ANATEL (Brazil); Industry Canada ICES-003 Class B (Canada)

### Standard Warranty

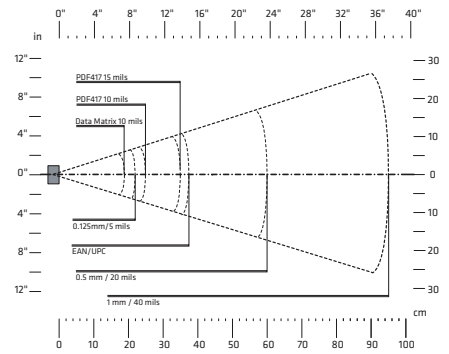
- **Tethered Models (SG20T):** 5 years
- **Wireless Models (SG20B):** 3 years
- Extended protection available with Intermec Medallion Support

### Accessories

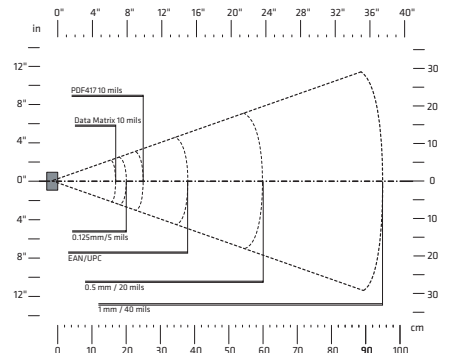
Consult the [SG20 Accessory Guide](#) for details.

- Adjustable hands free desktop scan stand
- Desktop/wall mount holder
- Charge base (for wireless versions)
- Bluetooth charge base (for wireless versions)
- USB, RS232, keyboard wedge interface cables
- EasySet™ configuration software

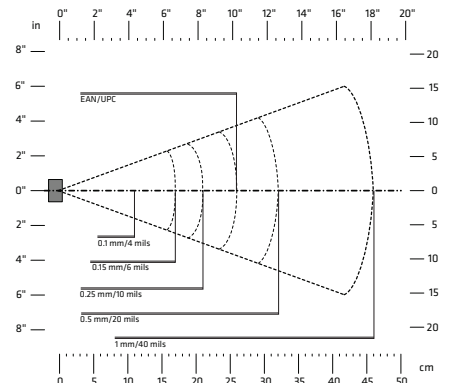
### Typical Reading Distances\* SG20xHP



### SG20x2D



### SG20x1D



\* 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.



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