Migration Guide

ScanPlus 1800 to SG20

Functionality/Feature	ScanPlus 1800	SG20
MODELS/ACCESSORIES		
1D scanning, wired	ScanPlus 1800SR	SG20T1D
	ScanPlus 1800ST	
	ScanPlus 1800VT	
	ScanPlus 1800PDF	
	ScanPlus 1800VTPDF	
1D scanning, wireless	ScanPlus 1802SR	SG20B1D
	ScanPlus 1802ST	
	ScanPLus 1802VT	
	ScanPlus 1802PDF	
	ScanPlus 1802VTPDF	
2D scanning, wired	N/A	SG20THP
2D scanning, wireless	N/A	SG20BHP
		SG20BHPHC
Disinfectant ready housing (for healthcare environments)	N/A	Yes Available in Bluetooth cordless model (P/N SG20BHPHC)
Scanner color	White	Black for the standard version White for the healthcare version
Base station color	White	Black for the standard version White for the healthcare version
Accessories	Charger, 2-bay Desktop/wall mount holder Desktop stand US power supply UK power supply EU power supply	Bluetooth base station Charge base Holder base Desktop/wall mount holder Desktop adjustable stand Universal power supply, 5V
INTERFACES		
USB cable	Cable (P/N 3-364038-12)	Cable (P/N CAB-SG20-USB00)
USB compliance	USB 1.1	USB 1.1 & 2.0 full speed
USB profiles	Keyboard HID (uses generic keyboard HID driver)	Keyboard HID (uses generic keyboard HID driver) Virtual com (serial port replacement) – use Intermec driver Video + virtual COM – use Intermec driver HID POS – use Intermec driver IBM JavaPOS hand-held – use Intermec driver IBM JavaPOS table-top – use Intermec driver

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INTERFACES		
RS-232 serial	Cable (P/N 3-364032-00)	Cable (P/N CAB-SG20-SER)
PS/2 keyboard wedge, single ended	Yes	N/A - legacy interface
PS/2 keyboard wedge, Y ended	Cable (P/N 0-364037-00)	P/N CAB-SG20-KBW
DEC VT 220/320/420 terminals	Yes, cable (P/N 0-364037-02)	N/A, these are replaced by USB cable (P/N CAB-SG20-USB00)
Wyse terminals	Yes, cable (P/N 0-365036-00)	N/A, these are replaced by USB cable (P/N CAB-SG20-USB00)
IBM 46xx 9x cash registers	Yes, cable (P/N 0-365033-00)	N/A, these are replaced by USB cable (P/N CAB-SG20-USB00)
OCIA NCR 7052/7053	Yes, cable (P/N 0-365035-00)	N/A, these are replaced by USB cable (P/N CAB-SG20-USB00)
Laser emulation	Yes, cable (P/N 0-366030-00)	N/A, legacy interface; these are replaced by USB cable (P/N CAB-SG20-USB00)
Wand emulation	Yes... Cable (P/N 0-364031-00) – not energy saver Cable (P/N 0-366031-00) – energy saver	N/A, legacy interface; these are replaced by USB cable (P/N CAB-SG20-USB00)
Direct Bluetooth connection to Host computer	No	Yes, via Bluetooth radio built into host PC or via Intermec Bluetooth to USB adaptor (P/N 203-771-001) or via Intermec Bluetooth to RS-232 serial adapter (P/N 203-768-001)
Connection to SmartWedgeLite, the free Intermec wedge software for Windows XP/Vista/7	No	Yes, up to 1x SG20 corded and 7x SG20 wireless models
USER FEEDBACK		
LED	Small bi-color LED (green, red)	Large multi-color LED (red, green, blue)
Beep	Yes, adjustable in volume/duration/frequency	Yes, adjustable in volume/duration/frequency
Vibrate	No	No
Ready-to-work light indicator	No	Yes, 50% intensity solid blue light on scanner and base station
BASE STATION		
Models	Single model, the 9735	Three models: • Holder base (no battery charge, no Bluetooth, no interface) • Charge Base (no Bluetooth, no interface) • Bluetooth communication base (all of the above)
Multi-function	No, communication to host computer only – charger must be purchased separately	Yes, the Bluetooth communication base provides scanner charging, plus communication to host computer, plus scanner holder
Accepts wired input devices	Yes	No
Communication protocol to host computer	Unsecured	Highly secured (ISCP protocol) or unsecured (raw data)
Max devices per base station	Up to 5 scanners to a MicroBar 9735 base station	7

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BASE STATION (CONT'D)		
On-line scanner configuration through the base station	No	Yes
Configuration of the base station via the scanner	Yes	Yes
On-line configuration of the base station	Yes	Yes
Non-skid rubber feet	No	Yes
Dimensions, base (L x W x H)	8.4 cm (3.3 in) x 8.5 cm (3.4 in) x 10.6 cm (4.2 in)	13.1 cm (5.2 in) x 9.9 cm (3.9 in) x 10.6 cm (4.2 in)
Weight, base		280 g (9.88 oz)
SCANNING PERFORMANCE		
Barcode scan range	ScanPlus 180xSR, ScanPlus 1800PDF : 0 – 4 in ScanPlus 180xST: 2.4 – 24 in ScanPlus 180xVT: 0 – 14 in	Refer to detailed charts in user guide
Minimum X dimension	4 or 5 mils, depending on model	SG20B1D: 6 mils (0.15 mm) SG20BHP (+HC) • 1D: 4 mils (0.1 mm) • 2D: 6.6 mils (0.17 mm)
Hands-free scanning	Yes	Yes
Ability for the illumination LEDs to shut off completely while in hands-free scanning mode	No (flashing forever)	Yes (presentation)
Imaging capabilities	N/A	Signature capture Document capture Snapshot Video streaming
Postal symbologies	N/A	Yes, SG20BHP and SG20BHPHC models: • Australian Post • Infomail • Intelligent Mail • BPO • Canada Post • Japan Post • Planet • Dutch Post • Postnet • Sweden Post
Barcode symbologies, 1D	Codabar Code 39 Code 93 Code 128 / EAN 128 Interleaved 2 of 5 Matrix 2 of 5 MSI Code PDF417 Plessey Code Standard 2 of 5 Telepen UPC / EAN	Interleaved 2 of 5 Codabar Matrix 2 of 5 Codablock A Codablock F Code 11 MSI Code 39 Code 93/93i PDF417 Code 128 / GS1-128 Plessey EAN/UPC Standard 2 of 5 GS1 DataBar Expanded GS1 DataBar Limited Telepen GS1 DataBar Omni-Directional GS1 DataBar Stacked

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SCANNING PERFORMANCE (CONT'D)		
Barcode symbologies, 2D	N/A	DataMatrix QR Code Micro PDF417 Maxicode Aztec TLC 39 GS1 Composite
Ability to read multiple barcodes in one trigger actuation	No	Yes, up to 8
Advanced aiming mechanism (center decoding)	No	Yes
Double scan prevention	No	Yes
Custom defaults	No	Yes
Ability to be triggered remotely	Yes, via a single character	Yes, via a single character or via an ISCP command
Triggering modes	Continuous Level Flashing Auto stand	Continuous Level Flashing Auto stand Pulse Toggle Presentation
Data manipulation	Up to 7 scenarios Possible actions: • Move variable amount of characters to custom position • Delete variable amount of characters at custom position • Insert variable amount of characters at custom position • Copy variable amount of characters to custom position	Up to 7 scenarios Possible actions are anything the 1800 can do, plus: • Advanced Replace/Delete/Insert/Find/Cursor-Move operations. • From either the beginning or the end of data • Apply once or multiple times • Possible to apply in reverse order • Option to insert special Keyboard Wedge characters • Option to insert a Pause between characters
POWER		
Power save mode or power down mode	Energy saver mode	Hibernate mode
Battery technology	NiMH, 3.6V / 600mA	Li-ion, 1567mAh
Charging times	3 hours maximum	Fast charge: 3 hours approximately Slow charge: 6 hours approximately
Battery status indicator	Battery status is provided by charger LED • Red, blinking = low battery • Green, solid = end of charge	Battery status is provided by scanner LED • Green, blinking = charge in progress (battery < 95%) • Green, solid = battery is fully charged • Red, blinking = battery power is low (< 20% - need to charge) • Amber, blinking = battery fault
Number of scans on a single battery charge cycle	10K scans from a fully charged battery	8K scans from 70% capacity
Battery life (number of charge cycles)	Between 500 and 1000 depending on usage	Will retain 70% capacity @ 300 cycles
Is battery user-replaceable?	Yes	Yes, by trained personnel only or at an Intermec Service Center

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POWER (CONT'D)		
Power requirements, base station	5V / 0.5A power supply	5V / 0.5A power supply
Power consumption, corded scanner	S1800 VT: 140mA (average) and 40mA (stand by)	Corded versions @5V DC continuous scanning: 120mA for SG20T1D, 330mA for SG20THP
MISCELLANEOUS		
Full setup with EasySet	On-line via RS-232 cable or via paper barcodes	On-line via RS-232 cable or USB cable in either keyboard HID or virtual com profile, or via paper barcodes
Supports single-barcode configuration	1D barcode only (limited length)	1D barcode (limited length) or 2D barcode (virtually unlimited length)
Firmware field upgradability	Over RS-232 only	Over RS-232 or USB
Firmware crash recovery	Yes, using a special RS-232 cable	Yes, using a special RS-232 cable
Radio technology	Proprietary bi-directional narrow band	Bluetooth Class 2 version 2.1 + EDR
Radio power	1mW (900MHz) and 10mW (433 MHz)	Bluetooth Class 2
Radio range	Up to 15 m (50 ft)	10 m (32.8 ft)
SSP-enabled (secure simple pairing)	N/A	Yes
Radio frequencies	North American models: 900MHz European models: 433MHz	2400 to 2483.5MHz
Weight	1800 SR/PDF without cord: 145 g (5.1 oz) 1800 ST without cord: 165 g (5.8 oz)	Weight (SG20T): 125 g (4.41 oz) Weight (SG20B): 175 g (6.17 oz)
Environmental rating	IP50	IP30
Drop survival	1 m (3.2 ft) to concrete	1.2 m (4 ft) to concrete
Standard warranty	Warranty has expired	Tethered models (SG20T): 5 years Bluetooth models (SG20B): 3 years
Light source	CCD version: LED at 640 nm Laser version: laser diode at 670 nm	1D model: 617 nm highly visible LED 2D model: highly visible white LED and 650 nm laser for framing
Dimensions, scanner (L x W x H)	8.5 cm (3.35 in) x 3.3 cm (1.3 in) x 6.4 cm (2.5 in)	20.3 cm (8 in) x 6.1 cm (2.4 in) x 6.5 cm (2.6 in)

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