

This UHF RFID POS device combines the functionality of 1D/2D bar code scanner, an image capture device and handheld/hands-free UHF RFID reader into one unit.

This UHF RFID POS device combines the functionality of 1D/2D bar code scanner, an image capture device and handheld/hands-free UHF RFID reader into one unit. It can capture virtually any 1D or 2D bar code quickly and easily on paper labels as well as on mobile phone displays providing built-in support for emerging applications. It also enables the capture of UHF RFID tags, 1D, 2D and PDF417 symbologies as well as images and signatures. It provides Remote Scanner Management (RSM) which greatly simplifies configuration, deployment and day-to-day management of the devices reducing operational costs.

The integrated reader offers a new standard for bar code scanner reliability providing the maximum uptime required in the demanding retail environment. It allows retailers to easily implement RFID from the receiving dock to checkout resulting in many benefits including timely re-ordering to eliminate out-of-stock and the associated lost sales, increased inventory turnover, real-time trending analysis for better purchasing decisions that put more of the products customers want on the shelves of in store and the ability to ensure timely replenishment of shelves. Tested to 4 ft/1.2 m drops to concrete ensures dependable performance in spite of inevitable everyday drops and bumps.



Key Features

- ✓ Innovative hybrid design
- ✓ Ease of use for both hands-free and handheld scanning
- ✓ Dynamically switch between modes
- ✓ Offers best-in-class advanced data capture capabilities for superior application flexibility
- ✓ Withstands multiple 4 ft./1.2 m drops to concrete
- ✓ Swipe speed programmable up to 100 inches/254 cm per second
- ✓ RSM (Remote Scanner Management)
- ✓ Integrated compact base requires very little real estate, enabling easy deployment in even the most constrained spaces
- ✓ Extra loud beeper
- ✓ Extra large LED indicator
- ✓ Multiple on-board interfaces
- ✓ Universal cable compatible
- ✓ Recessed connector in the base minimizes the scanner footprint.

Applications

- ✓ Retailing
- ✓ Asset management
- ✓ Hospitality/Loyalty
- ✓ Government/Transportation
- ✓ Healthcare
- ✓ Pharmacies
- ✓ Libraries
- ✓ Enterprise file/document tracking

Technical Specifications

Physical Characteristics

Dimensions	8.5 in. (max) H x 3.5 in. W x 6 in. D 21.6 cm (max) H x 8.9 cm W x 15.2 cm D
Weight	16.4 oz/465 g
Voltage and Current	Nominal: 5V ±5% VDC @ 1.2 A
Data Capture Options	1D/2D bar codes and RFID tags
Color	Twilight Black

Performance Characteristics

Imager Mode

Light Source	Aiming Pattern: 650nm laser diode Illumination: 630nm LED
Imager Field of View	39° H x 25° V
Roll/Pitch/Yaw	360°, ±65°, ±60°
Swipe Speed	Programmable up to 100 in./254 cm per second (Horizontal Read Rate)
Frame Rate	Up to 60 frames per second

Laser Scanner Mode

Light Source	650nm LED
Scan Angle	40° ±3° nominal

Symbology Decode Capability

1D	UPC/EAN (UPCA/UPCE/UPCE1/EAN-8/EAN-13/JAN-8/JAN-13 plus supplementals, ISBN (Bookland), ISSN, Coupon Code), Code 39 (Standard, Full ASCII, Trioptic), Code 128 (Standard, Full ASCII, UCC/EAN-128, ISBT-128 Concatenated), Code 93, Codabar/NW7, Code 11 (Standard, Matrix 2 of 5), MSI Plessey, I 2 of 5 (Interleaved 2 of 5 / ITF, Discrete 2 of 5, IATA, Chinese 2 of 5), GS1 DataBar (Omnidirectional, Truncated, Stacked, Stacked Omnidirectional, Limited, Expanded, Expanded Stacked, Inverse), Base 32 (Italian Pharmacode)
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PDF417 (and variants):	PDF417 (Standard, Macro), MicroPDF417 (Standard, Macro), Composite Codes (CC-A, CC-B, CC-C)
2D	TLC-39, Aztec (Standard, Inverse), MaxiCode, DataMatrix/ECC 200 (Standard, Inverse), QR Code (Standard, Inverse, Micro)
Postal	U.S. Postnet and Planet, U.K. Post, Japan Post, Australian Post, Netherlands KIX Code, Royal Mail 4 State Customer, UPU FICS 4 State Postal, USPS 4CB, Canadian Post (Postbar)
Nominal (Handheld):	Working Range See chart at bottom
Nominal (Hands-free):	Working Range (Hands-free) See chart at bottom
Minimum Resolution	Code 39 – 4 mil, UPC – 7.8 mil (60%), PDF417 – 5 mil, Datamatrix – 5 mil
*The RFID module is not available for all countries. Please contact us regarding availability.	
RFID	
Frequency	902 - 928 MHz (US, Canada & Mexico); Other countries pending
Tag Type	EPC global Class 1 Gen 2 (ISO 18000-6C)
Read Range/RF Power	Adjustable from near contact up to 40 inches/1 m depending on tag sensitivity and orientation
Imaging Characteristics	
Graphics Format Support	Images can be exported as Bitmap, JPEG or TIFF
Image Transfer Speed	USB 2.0: Up to 12 Megabits/second RS-232: Up to 115 kb/second
Image Transfer Time	Typical USB application is ~0.2 seconds with a compressed JPEG of 100kb
Image Quality	120 DPI on a 4 x 6 in./10.2 x 15.2 cm document @ 6.5 in./16.5 cm
User Environment	
Operating Temp.	32° to 104° F / 0° to 40° C
Humidity	5% to 95% RH (Non-Condensing)
Drop Specification	Withstands multiple 4 ft./1.2 m drops to concrete

Ambient Light Immunity	Incandescent – 150 ft. candles (1,600 Lux) Sunlight – 8,000 ft. candles (86,000 Lux) Fluorescent – 150 ft. candles (1,600 Lux) Mercury Vapor – 150 ft. candles (1,600 Lux) Sodium Vapor – 150 ft. candles (1,600 Lux) Immune to normal or artificial light
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Interfaces

Interfaces Supported	USB, RS-232, RS-485* (Port 9B, Port 5B) (*Tag “write” commands are not supported via RS-485)
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Regulatory

Electrical Safety	UL60950-1; CSA C22.2 No. 60950-1; IEC60950-1
Laser Safety	IEC 60825-1; 21CFR1040.10; CDRH Class II; IEC Class 2
EMI/RFI	FCC Part 15 Class B; Canada RSS-210; ICES-003 Class B
RF Exposure	FCC 47CFR Part 2, OET Bulletin 65 Supplement C
Environmental	Compliant with RoHS directive 2002/95/EEC
Regulatory Model Numbers	716004-RUS – US Version 716004-RWW – Worldwide (Non-US) version

Nominal Working Range (Handheld):

216026-LR	
Code 39 – 5 mil:	0– 5.0 in. (0 – 12.7 cm)
UPC/EAN – 10 mil (80%)	0– 13.5 in. (0 – 34.3 cm)
UPC/EAN – 13 mil (100%)	0– 18 in. (0 – 45.7 cm)
216026-SR	
Code 39 – 5 mil	0– 4.5 in. (0 – 11.4 cm)
UPC/EAN – 10 mil (80%)	0– 8.5 in. (0 – 21.6 cm)
UPC/EAN – 13 mil (100%)	0– 10.5 in. (0 – 26.7 cm)
216026-LR/216026-SR	

PDF417 – 6.6 mil	0– 5.0 in. (0 – 12.7 cm)
Datamatrix – 10 mil	0– 6.0 in. (0 – 15.2 cm)

Nominal Working Range (Hands-free):

216026-LR/216026-SR	
Code 39 – 5 mil	0– 4.5 in. (0 – 11.4 cm)
UPC/EAN – 10 mil(80%)	0– 7.0 in. (0 – 17.8 cm)
UPC/EAN – 13 mil(100%)	0– 8.0 in. (0 – 20.3 cm)
PDF417 – 6.6 mil	0– 4.5 in. (0 – 11.4 cm)
Datamatrix – 10 mil	0– 4.5 in. (0 – 11.4 cm)

<p>GAO Group</p> <p>GAORFID.com</p> <p>GAOTek.com</p> <p>GAOResearch.com</p>	<p>Toll Free (USA & Canada)</p> <p>1-877-585-9555</p> <p>All Other Areas</p> <p>416-292-0038</p> <p>Dial Ext.601 for Sales Ext.602 for Other Inquiries</p> <p>sales@GAORFID.com</p>
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