CIPHERLAB Smarter

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2200 Series



Omnidirectional Scanner for Fast and Reliable Workflow

Built specifically for the retailing, hospitality and transportation industries, CipherLab 2200 series' omnidirectional scanning capabilities provide fast and reliable workflow. Its omnidirectional area imaging is coupled with high speed scanning abilities which make operations seamless in environments such as convenience stores, supermarkets, department stores, etc. Along with multiple configurations, users can customize the 2200 series to fit their specific needs. Enjoying a fast and reliable workflow has never been so easy.

UHF RFID | EAS | 2D IMAGER | 3MIL BARCODE | 1.5M MULTIPLE DROPS | IP52

2200 Series

Omnidirectional Presentation Scanner

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Customer Service Satisfaction and Loyalty to the Max

CipherLab 2200 series is your answer to boost service satisfaction and loyalty. CipherLab has combined affordability and valuable features to provide efficient solutions. This device's adjustability brings along maximum flexibility for awkward scanning angles. Additionally, the 2200 series gives you the advantages of different configuration modes which allows your staff to reliably scan and read barcodes and RFID while simultaneously update inventory control systems. All the while, empowering you with the ability to deactivate anti-theft systems, relieving your cost and use of additional deactivators. Ultimately, your business will cut down on customer wait time and enhance your customers' overall experience. CipherLab 2200 series will allow you to fully take advantage of customer satisfaction and build customer loyalty to the max.



Fast Quality Scanning with the Angles Covered

CipherLab 2200 series has an accelerated scan rate of a snappy 120 scans per second. This high-speed scan rate allows reliable scans of 1D, PDF417, and 2D barcodes instantly. No matter if you are scanning an item from a supermarket or paper/mobile boarding pass at a transportation counter, the 2200 series has got your angles covered. Capable of reading low contrast barcodes down to 20% PCS, users can freely scan barcodes that are poorly printed or on reflective surfaces of labels and LCD screens, minimizing customer wait time. Barcodes on dark backgrounds, coupons and loyalty cards, regardless if it's from mobile phones or not, are all simple reads for CipherLab 2200 series.



Flexible Installation with Adaptable Trigger

CipherLab 2200 series' compact size (150 X 83 X 80 mm) makes it the best choice for high performance operations with limited space. Being extremely lightweight at 320g, you may lock the scanner onto horizontal or vertical surfaces by using the optional locking mount brackets, allowing a handsfree working environment. With an integrated adjustable stand, the 2200 series can bend forward up to 40 degrees and backwards up to 15 degrees to scan barcodes in awkward angles. With this flexibility, users no longer need to wrestle with scanning difficult packages in hard to reach angles.



Moreover, the energy efficient 2200 series maintains in presentation mode which the LED remains dim until it detects a barcode coming through. When a large size item which can't be placed in the scanning location, users may activate the trigger and scan the item like a handheld scanner.

Customizable Configuration Fit for Different User Demands

The 2200 series' standard model allows for easy 2D barcode scanning. In addition, it comes with additional models built with UHF RFID and EAS for users to choose from based on preferences, applications and environments. With the UHF RFID model, users are capable of instantly reading the RFID tags, up to a 20 cm reading range, and updating the inventory control system with speedy communication. Moreover, users can choose the EAS model, which can deactivate the anti-theft systems by simply scanning the barcode on the item or label. With this benefit, it eliminates the need to purchase additional deactivators. The integrated EAS support can also eliminate missed tags, erroneous alarms and embarrassed customers to simplify the checkout process.

Additionally, CipherLab ScanMaster, a comprehensive software tool that configures the scanner to your specific needs, can be easily customized to configure additional devices based on your setting preferences. Empowering your staff with abilities of the 2200 series is as easy as ever.





Well Protected Durability

The CipherLab 2200 series comes with an IP52 rating, which fully protects against water drops from frozen/cold items. It can withstand multiple drops from 1.5 m on to concrete with a communication cable. Its durable design prevents device failures from accidental drops and bumps from various applications such as point of sale, baggage drop-off points, boarding gate, etc. With the CipherLab durable designs, your operation can run smoothly without any worries.





2200 Series

Omnidirectional Presentation Scanner



Models		2200	2210	2220
Category		Omnidirectional Presentation Scanner		
		2D Imager	2D Imager with EAS	2D Imager with UHF RFID
Performance	Optical Sensor	CMOS Image Sensor 1280 x 800 pixels (SM2) CMOS Image Sensor 640 x 480 pixels(N4680)	CMOS Image Sensor 1280 x 800 pixels	
	Light source	LED RED 620 nm (SM2) / Warm white (N4680)	LED RED 620 nm	
	Resolution	1D - 3mil / PDF417 - 5mil / 2D - 7mil (SM2) 1D - 3mil / 2D - 5mil (N4680)	1D - 3mil / PDF417 - 5mil / 2D - 7mil	
	Depth of field	Code 39 3 mil: 0 to 5 cm / 0 to 2.0 in. QR Code 7 mil: 0.5 to 2.5 cm / 0.2 to 1.0 in. (SM2) 10 mil: 0 to 8 cm / 0 to 3.1 in.(N4680) EAN13 13 mil: 0 to 20 cm / 0 to 7.9 in. (SM2) 0 to 24 cm / 0 to 9.4 in. (N4680) PDF417 5 mil: 1 to 6 cm / 0.4 to 2.4 in. (SM2) 10mil: 0 to 15 cm / 0 to 5.9 in.(N4680)	Code 39 3 mil: 0 to 5 cm / 0 to 2.0 in. QR Code 7 mil: 0.5 to 2.5 cm / 0.2 to 1.0 in. EAN13 13 mil: 0 to 20 cm / 0 to 7.9 in. PDF417 5 mil: 1 to 6 cm / 0.4 to 2.4 in.	
	Pitch, Skew	± 70°, ± 75° (SM2) / ± 50°, ± 50° (N4680)	± 70°, ± 75°	
	Print Contrast (Minimum)	25% (SM2) / 20% (N4680)	25%	
	Ambient illumination	100,000 Lux (SM2) / 0~100,000 Lux (N4680)	100,000 Lux	
	Hands-free scanning	Presentation mode		
	Programmable features	Data editing, interface selection, symbology configuration		
	Language support	US and UK English, French, Italian, Belgian, Norwegian, Swedish, Spanish, Portuguese, German, Swiss German, Japanese, Turkish, Hungarian, and Danish		
Data capture	Barcodes scanning	1D: Codabar, Code 39, Code 93, Code 128, GS1 DataBar (RSS), Industrial 2 of 5, Interleave 2 of 5, ISBT-128, Italian and French Pharmacodes, Matrix 2 of 5, MSI,Plessey, Telepen, UPC/EAN/GS1-128, Code 11,Chinese25 (N4680) 2D: PDF417, MicroPDF417, Data Matrix, QR code, Micro QR Code, Aztec, MaxiCode, Composite Codes, HanXin (N4680)		
	RFID read/write	--	--	Frequency: North America: 902 - 928 MHz, Europe: 865 - 868 MHz Taiwan: 922 ~ 928MHz Support Tag Type: ISO 18000-6C, EPCglobal Class1 Gen2 (Standard), EPCglobal Class1 Gen2V2 (Standard)
	Electronic Article Surveillance(EAS)	--	Compatible with Checkpoint EAS deactivation systems	--
Physical	Dimension (L x W x H)	80 x 80 x 150 mm / 3.2 x 3.2 x 5.9 in		
	Weight	320g / 11 oz.		380g / 13 oz.
	Color	Black		
	Trigger	1 Trigger for handheld operation		
	Indicators	Magnetic Buzzer (Adjustable Tone and Volume), Good Read LED		
Electrical	Input Voltage	5V 2A Max		
	Power consumption[1] Standby / Operating	300mA / 450mA		350mA / 1A
User Environment	Temperature	Operating: 0 °C to 40°C / 32°F to 104°F Storage: -40°C to 60°C / -40°F to 140°F		
	Humidity (non-condensing)	Operating:10% to 90% Storage:5% to 95%		
	Impact resistance	1.5 m (4.9 ft) multiple drops onto concrete		
	Ingress protection	IP52		
	Electrostatic discharge	± 8 kV contact / ± 15 kV air		
Configuration		Setup options include Windows®-based ScanMaster software, by direct connection or printing out barcode settings		
Accessories		USB, RS232 and keyboard wedge cables, Locking Mount Bracket (SM2) USB, RS232, Locking Mount Bracket (N4680)	Dual USB, RS232 and keyboard wedge cables, Locking Mount Bracket	USB, RS232 and keyboard wedge cables, Locking Mount Bracket
Warranty		3 year (N4680: 1 year)	3 year	

1. The data is tested with USB interface.

Accessory



Locking Mount Bracket



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