

## Omnidirectional Scanner for Fast and Reliable Workflow

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. Enjoying a fast and reliable workflow has never been so easy.

### 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. 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.

### Flexible Installation with Adaptive Trigger

CipherLab 2200 series' compact size makes it the best choice for high performance operations with limited space. Being extremely lightweight at 340g, you may lock the scanner onto horizontal or vertical surfaces by using the optional locking mount brackets. 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.

### Well Protected Durability

The CipherLab 2200 series comes with an IP52 rating. 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. With the CipherLab durable designs, your operation can run smoothly without any worries.



### Customizable Configuration Fit for Different User Demands

The 2200 series' come 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.

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.

# 2200 series



Models		2200	2210	2220
Category		Omnidirectional Presentation Scanner		
		2D Imager	2D Imager and EAS	2D Imager and UHF RFID
Performance	Optical sensor	CMOS Image Sensor 1280 x 800 pixels (SM2) CMOS Image Sensor 640 x 480 pixels (N4680)		
	Light source	LED RED 620 nm (SM2) / Warm white (N4680)		
	Resolution	1D - 3mil / PDF417 - 5mil / 2D - 7mil (SM2) 1D - 3mil / 2D - 5mil (N4680)		
	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 13mil: 0 to 20 cm / 0 to 7.9 in. (SM2) 0 to 24 cm / 0 to 9.4 in. (N4680) PDF417 5mil: 1 to 6 cm / 0.4 to 2.4 in. (SM2) 10mil: 0 to 15 cm / 0 to 5.9 in. (N4680)		
	Pitch, Skew	$\pm 70^\circ$ , $\pm 75^\circ$ (SM2) / $\pm 50^\circ$ , $\pm 50^\circ$ (N4680)		
	Print contrast (Minimum)	25% (SM2) / 20% (N4680)		
	Ambient illumination	100,000 Lux (SM2) / 0~100,000 Lux (N4680)		
	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: America: 902 - 928 MHz Europe: 865 - 868 MHz Taiwan: 922 - 928 MHz China: 920 - 925 MHz Korea: 917.3 - 920.3 MHz Support Tag Type: ISO 18000-6C, EPCglobal Class1 Gen2 (Standard), EPCglobal Class1 Gen2V2 (Standard)
	Electronic Article Surveillance (EAS)	--	Compatible with 8.2MHz EAS deactivation systems	--
Physical	Dimension L x W x H (mm)	80 x 83 x 150 mm / 3.2 x 3.3 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 <sup>1</sup> 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	$\pm 8$ kV contact / $\pm 15$ kV air		
Configuration		Setup options include Windows®-based ScanMaster software, by direct connection or printing out barcode settings, Support OPOS Standards		
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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