



# 1704



## 1704 2D scanner

**RUGGED, VERSATILE**

CipherLab's handheld 2D scanner enables you to capture more symbologies in nearly any application. For manufacturing, warehouse, logistics, and more, you can depend on the CipherLab 1704 scanner to help save money and increase productivity.

# 1704 rugged 2D scanner



## Rugged Value, High Performance

### LONG-LASTING VALUE

We designed the 1704 to give you long-lasting value by making it rugged with a low-cost investment. Built to IP54 specifications and repeatedly drop-tested from 1.8 meters, the 1704 withstands sudden shock, dusty environments, and splashing water. Even in the harsh environments of manufacturing, warehousing, and logistics it keeps delivering high performance for years to come.

### 1.3 MEGAPIXEL IMAGE CAPTURE

With the 1704, you can easily enable higher levels of authentication. The 1704's 1.3 megapixel, high-resolution imager lets you capture signatures for processes requiring a greater degree of authorization or documentation, such as confirmation of a damaged shipment. An option allows capture of documents as large as A4.

### ROBUST DECODING CAPABILITIES

The 1704 scanner captures both 2D and 1D barcodes in the same rugged unit. Its high-resolution imager is ideal for damaged or poorly printed barcodes, allowing accurate data capture even when barcodes are scratched and damaged.

### TRIPLE ALERTS FOR EVERY ENVIRONMENT

With three modes of "good scan" confirmation, the 1704 allows work to proceed, even in dark, noisy or distracting environments. Choose confirmation signals from a bright LED alert, adjustable volume alert, or vibration in the handle. Few other 2D scanners offer such a complete choice of alerts, tailored to the rigors of your workplace.

### SCANMASTER *Custom-configure your scanner*

CipherLab's complimentary ScanMaster software provides a comprehensive tool set to configure the 1704 scanner, edit format and symbol types, plus more.



1704 scanner



1704 FEATURES	USER BENEFITS
<i>Built for harsh work conditions, drop tested to 1.8 meters, sealed to IP54</i>	Productivity in extreme temperature, humidity situations. Maximized service life for highest return on investment, lowest cost of ownership.
<i>High-resolution scanning engine captures documents and signature</i>	Rich data capture adds functionality and performance.
<i>Multi-mode 'good scan' signals</i>	Adjustable volume, bright LED and exclusive vibrator notify user—even in dark or noisy environment.



CIPHERLAB PRODUCTS ARE VALUED WORLDWIDE FOR ENGINEERING EXCELLENCE. OUR **RUGGED SCANNERS** ARE ANOTHER EXAMPLE OF TECHNICAL INNOVATION AND QUALITY VALUE FOR TODAY'S AIDC SOLUTIONS.



SPECIFICATIONS

# 1704 2D scanner

RUGGED, VERSATILE



1704

1704DC (can capture A4 document)

<b>Performance</b>	Category	2D barcode scanner							
	Optical sensor	1280 (H) × 1024 (V)							
	Light source	Red LED 630 nm±20 nm							
	Resolution	5 mil 1D		6.67 mil 2D					
	Depth of field at 80% MRD	Code 39	5 mil	6.4 to 17.8 cm / 2.5 to 7 in.		Code 39	5 mil	10.7 to 25.4 cm / 4.2 to 10 in.	
		Code 39	7.5 mil	6.4 to 22.9 cm / 2.5 to 9 in.		Code 39	7.5 mil	6.4 to 36.3 cm / 2.5 to 14.3 in.	
		UPCA	13 mil	6.4 to 25.4 cm / 2.5 to 10 in.		UPCA	13 mil	6.4 to 41.4 cm / 2.5 to 16.3 in.	
		Code 39	20 mil	6.4 to 36.8 cm / 2.5 to 14.5 in.		Code 39	20 mil	7.1 to 58.4 cm / 2.8 to 23 in.	
		PDF 417	6.67 mil	7.6 to 17.3 cm / 3 to 6.8 in.		PDF 417	6.67 mil	12.2 to 24.9 cm / 4.8 to 9.8 in.	
		PDF 417	10 mil	7.6 to 19.8 cm / 3 to 7.8 in.		PDF 417	10 mil	10.2 to 32.3 cm / 4 to 12.7 in.	
	PDF 417	15 mil	11.9 to 23.6 cm / 4.7 to 9.3 in.		PDF 417	15 mil	11.9 to 38.9 cm / 4.7 to 15.3 in.		
	Scanning angle	Pitch ±65° Skew ±60°							
	PCS	Minimum 25%							
	Frame rate	30 frames/second							
Interfaces supported	RS232 / Keyboard wedge / USB HID / USB Virtual COM								
Barcodes supported	<i>1D symbology:</i> Codabar, Code 11, Code 39, Code 93, Code 128, Discrete 2 of 5, Interleaved 2 of 5, MSI, RSS, UPC/EAN, UPC/EAN128 <i>2D symbology:</i> Aztec and composites, DataMatrix, Maxicode, PDF417, QRCode <i>Postal codes:</i> Australia, Japan, U.S. Postnet, U.S. Planet, UK								
Programmable features	Data editing, multi-barcode editing, data format editing								
Language support	US and UK English, French, Italian, Belgian, Norwegian, Swedish, Spanish, Portuguese, German, Japanese								
<b>Physical</b>	Weight including battery	306 g / 10.8 oz.							
	Color	Yellow							
	Switch	Tactile switch							
<b>Electrical</b>	Voltage	4.5 to 24V							
	Power consumption Standby / Operating	45mA / 378mA @5V							
<b>User environment</b>	Operating temperature	-10° to 55°C / 14° to 131°F <sup>1</sup>							
	Storage temperature	-40° to 70°C / -40° to 158°F							
	Humidity Non-condensing	Operating: 10% to 90% Storage: 5% to 95%							
	Impact resistance	1.8 m / 5.9 ft., five drops per side							
	Electrostatic discharge	±15 kV air discharge, ±8 kV contact discharge							
	Ingress protection	IP54							
EMC regulation	BSMI, CE, C-Tick, FCC, IC								
<b>Configuration</b>	Setup options include Windows® based ScanMaster software by direct connection or printing out barcode settings								
<b>Accessories</b>	Power Hood								
<b>Warranty</b>	3 years / engine 1 year								



Power Hood

<sup>1</sup>adapter's operating temperature is 0° to 40°C (32° to 104°F)

© 2011 CipherLab Co., Ltd. All specifications are subject to change without notice. All rights reserved. All brand, product and service, and trademark names are the property of their registered owners.



**HEADQUARTERS**  
 CipherLab Co., Ltd.  
 12F, 333 Dunhua S. Rd., Sec.2  
 Taipei, Taiwan 10669  
 Tel +886 2 8647 1166  
 Fax +886 2 8732 3300  
 www.cipherlab.com

**CipherLab China**  
 J Room, 4F, No.728 West Yan'an  
 Road, Changning District, Shanghai  
 China 200050  
 Tel +86 21 3368 0288  
 Fax +86 21 3368 0286

**CipherLab USA**  
 2552 Summit Avenue  
 Plano, Texas USA 75074  
 Tel +1 469 241 9779  
 Toll Free 888 300 9779  
 Fax +1 469 241 0697

**CipherLab Central Europe**  
 Willicher Damm 143-145  
 41066 Mönchengladbach  
 Germany  
 Tel +49 2161 56230 0  
 Fax +49 2161 56230 22