

1300 SERIES

LINEAR IMAGE SCANNER

1D&2D
270 scans/second
270 scans/second



Wall-Mount Stand



Desktop Stand

- Supporting 1D & 2D PDF417 code
- Highest Speed in the World: 270 scans/second
- Design for industrial Application
- Field Upgradable, Online -> Memory -> RF

CIPHER LAB

1300 series CCD Linear Imaging Scanner Range

CipherLab have developed the revolutionary new “1300 series CCD Linear Imaging Scanner” range ideally suited to support conventional retail environment through to the most demanding heavy-duty and industrial applications. The range ensures high performance in standard tethered scanning through to Radio Frequency with 2D options.

Models

- **1300** – For versatile decoded linear barcode scanner, supports most cable interfaces, keyboard wedge, RS232, etc...
- **1301** – PDF417 enabled version of the 1300
- **1310** – Memory scanner comes with 256KB non-volatile data storage for batch apps.
- **1311** – PDF417 enabled version of the 1310
- **1320** – Cordless Radio Frequency scanner with a range of over 30metres
- **1321** – Cordless Radio Frequency scanner with PDF417 support

Accessories

- Belt Holster
- Suspension Holster
- Pulley / Ski clip
- Download Station (for Memory Scanner)
- Dual Battery Charger / Conditioner (for Memory or RF Scanner)
- Scanner Stand

Linear Image Scanning

A new standard in performance is achieved with introduction of the 1300 range, using innovative technology to enable distance CCD scanning to provide “Laser comparable performance” without the cost, maintenance and reliability issues normally encountered with laser scanners. With the flexibility to upgrade the product it provides the perfect solution for your applications as they change.

Cordless CCD Scanner Technology

Cordless scanning brings a new level of flexibility and productivity to applications using automatic data collection. The freedom of cordless scanning expands the applications for scanning bar codes by taking the scanner to the job rather than taking the job to the scanner. The cordless 1300 series is designed to be easy to use and consists of the CCD scanner plus the host interface base unit.

The 1300 series is designed for tough industrial use, such as on loading bays, where goods shipping and receiving requires mobility. The cordless scanner is also ideal for manufacturing applications, such as work-in-process, where safety may be an issue, eliminating the cables prevents the cord from getting entangled in machinery and equipment, thus avoiding the chance of an accident. Additional applications include interfacing to RF LAN based terminals mounted on forklift trucks, asset tracking, inventory control, and point-of-sale terminals.

Features

The flexibility of the scanner range is only possible due to its advanced features:

Innovative high density CCD optics

Long reading range up to 12" (comparable to conventional laser based devices)

Incorporating fast automatic exposure control

Rapid adjustment to changing lighting conditions

Compensates for LED aging effects (often the cause of variable scanning performance in most other scanners)

32-bit CPU architecture powers our state of the art advanced linear and 2D decoding algorithms

Scan Manager remote PC update facility

Hot Swap Battery facility

The 1300 series incorporates a powerful programmable data editing system for applications requiring data manipulation, a broad suite of supported terminal interfaces on board.

Future-Proof Architecture

An ergonomic design supporting field upgrade-able paths, allowing the 1300series to grow within your changing application demands, best protecting your initial investment into the future. The 1300 series CCD range offers excellent performance at the right price.

Upgrade routes available from basic linear scanner to the PDF417 support (software activation key) to the memory scanner for portable batch applications. The RF module and host interface base unit completes the range allowing the benefits of cordless scanning for both linear and PDF417. All upgrades can be performed in the field or by the local authorised service centre. The 1300 series is covered a 3 year parts and labour warranty.

Multiple Scanner Support

Each base unit supports up to 16 scanners simultaneously. This increases productivity and flexibility without the added costs of additional bases and terminals.

Broad Range Coverage

Scanner coverage of up to 2820 square metres, outdoor line of sight increases mobility and productivity by allowing the scanner to be taken to the job, rather than taking the job to the scanner.

Extended Battery Life

Removable NimH battery pack, recharged by plugging into a dual fast charger, complete charge cycle 1 hour, advanced power management incorporating “hot swap” allows;

Capacity: 800 mAh

Number of Scans: 50,000

Expected Hours of Operation: 60 hours

Rugged Design

Water & dust resistant to IP-54 rating.

State of the Art Radio Technology

Robust world wide license-free system delivers reliable error-free communication, ETSI 300 320 (Europe).

Frequency range: 433.12 ~ 434.62 MHz

Channel spacing: 100 KHz

Channels: 10 sets (base and scanner transmit in different channels)

Output power ERP: 10 dBm

Range: line of sight 30 m

Supports up to 16 scanners devices

Data rate: 19200 bps Manchester encoded

Specifications

<i>Electrical</i>	Voltage	+5V (Standard) +2.4 to 14.5 Volts
	Power Consumption	
	Operation	< 250 mA
	Standby	< 125 mA
	Light Source	630nm Visible red LED
	Scan Rate	270 scans per second
<i>Environmental</i>	Skew / Pitch Angles	$\pm 30^\circ \pm 15^\circ$
	PCS (Min)	0.45
	Temperature(operating)	0°C~40°C
	Temperature(storage)	0°C~50°C
<i>Physical</i>	Humidity(operating)	10%~90%(non-condensing)
	Humidity(storage)	5%~95%(non-condensing)
	Shock Resistance	180cm drop onto a concrete surface
	Weight	250g(cable not included)
<i>Feature</i>	Housing	ABS plastic
	Switch	Rubber switch
	Color	Grey
	Interface Type	Single unit for different interfaces: K-B Wedge, RS232, Wand Emulation
	Symbology Supported	Code 39/Full ASCII, Codabar, Italy Pharma Code, French Pharma Code, Industrial 2 of 5, Interleave 2 of 5, Matrix 2 of 5, Code 93, Code 128/EAN 128, MSI, EAN8, EAN8 with ADDON2, EAN8 with ADDON5, Plessey
	Keyboard Interface	IBM PC/XT/AT & compatible, PS2-30, PS-55, IBM 5550, DEC VT series, NEC Astra, Macintosh (ADB)
	Indicator	Buzzer Programmable Tone LED Red Color for Good Read; Green Color for Status
	Programmable Feature	Code ID, Prefix Code, Postfix Code, Length Code, Barcode type. Buzzer volume and frequency, ISBN/ISSN/CLSI/UK Plessey conversion, keyboard layout, Inter-character delay, Scanning mode, Language type, Time out, Baud rate, Data bit, Transmission mode, Character replacement
	Data Editing Mode	Three editing formats are supported. The following conditions can be programmed; code type, date length. Matching string and location. Data can be divided into 6 fields. Five additional fields can be programmed for each editing format. User programmable field transmission sequence.
	Language Supported for PC/AT	English(US), English(UK), French, Italian, Belgian, German, Norwegian/Swedish, Spanish, Portuguese. Other on demands.
<i>Approvals</i>	FCC class-A, CE, C-tick	