

# OPTICON

## Product Catalog Barcode Scanning Solutions



H-28 Reliable Android  
Mobile Device



## Opticon's Featured Product Solutions:



RS-2006

### Mobile Solutions

- H-28: Rugged Android computer with 5.0" brilliant color display
- H-29: Rugged Android mobile computer with 4.3" brilliant color display and physical keypad

### Companion Scanners

- OPN-4000i: 1D CCD Bluetooth companion scanner that supports Apple MFi
- PX-20: 2D imager Bluetooth companion scanner for Android, Apple and Windows devices
- RS-2006: Small, hands-free Bluetooth ring scanner

OPL-9815



### Handheld Solutions

- OPH-1005: Small, rugged mobile computer featuring a vibrant color display
- OPL-9815: GPS, Bluetooth data collector with 18-key operation and backlit display

### Fixed Mount Solutions

- F-100: Extremely fast (700 scans/seconds) CCD barcode scanner—standard range and wide angle

### OEM Solutions

- MDC-200: Small form factor, low power, high speed CCD barcode scan engine
- MDI-4100: 2D CMOS imager scan engine featuring an integrated camera and decoder in an ultra-miniature module



MDI-4100

## Opticon Designs and Manufactures a Broad Portfolio of Data Capture Products

Develop high quality, cost-effective solutions with the broad portfolio of data capture products available from Opticon. From handheld scanners to Android mobile devices, and from USB and Bluetooth companion scanners to OEM scan engine modules, organizations in retail, healthcare, warehousing, manufacturing and transportation will be more productive and profitable when they work with Opticon.



## About Opticon

Since 1976, Opticon has been an industry pioneer in developing and manufacturing world class 1D laser, 2D imaging and CCD barcode scan engines. Our scan engines have powered a broad portfolio of data capture products offering advances in performance, quality and reliability with an installed base in the millions worldwide. For more information, visit [www.opticonusa.com](http://www.opticonusa.com).

# Rugged Mobile Devices & Terminals

Featured Opticon mobility products are listed below. To view the complete product line and detailed specifications, visit [www.opticonusa.com](http://www.opticonusa.com).

[View all Mobile Solutions Online](#)



## H-27 Android Mobile Computer®

- Android 4.2.2 for familiar and convenient navigation
- Choice of 1D laser or 2D imager barcode scan engine
- Qualcomm® Snapdragon™ S4 MSM8960 Dual core Krait 1.5GHz CPU
- 4.3" brilliant color touchscreen display with Gorilla® Glass, and anti-reflective coating
- Bluetooth 4.0, Wi-Fi (802.11 a/b/g/n), WWAN (2.5G/3.5G), AGPS, NFC, USB and Infrared
- IP65 rating—withstands 5' drop to concrete
- Rear facing 5 MP color camera



## H-28 Android Mobile Computer®

- Integrated high speed 2D imager barcode scanner
- Qualcomm SD 617 A53 Octa-core platform: 1.5 GHz Quad-core and 1.2 GHz Quad-core
- 5" brilliant color touchscreen display with Gorilla® Glass, anti-reflective coating and signature capture
- Bluetooth 4.1 LE, WLAN, Wi-Fi, (802.11 a/b/g/n/ ac/r), NFC, USB
- IP67 rating against dust and moisture, survives multiple 6' drops to concrete, MIL-STD 810G
- User/field-replaceable battery packs (no special tool needed), supports hot-swap mode, standard and extended battery packs available
- Rear facing 16 MP auto-focus digital camera, LED flash, front facing 5 MP



## H-29 Android Mobile Computer®

- Fully integrated, high speed 2D imager barcode scanner
- Qualcomm SD 617 A53 Octa-core platform: 1.5 GHz Quad-core and 1.2 GHz Quad-core
- 4.3" brilliant color touchscreen display with Gorilla® Glass, anti-reflective coating and signature capture
- Physical alphanumeric keypad allows direct data entry with no interruption on the display, special anti-abrasion coating on key tops
- Bluetooth 4.1 LE, WLAN, Wi-Fi, (802.11 a/b/g/n/ac/r), NFC, USB
- IP65 rating against dust and moisture, survives multiple 6' drops to concrete, MIL-STD 810G
- 25° downward scan angle makes frequent barcode scanning as comfortable as possible
- Rear facing 8 MP auto-focus digital camera, LED flash, low light mode

## Next Steps

For more information or to schedule a demo, contact Opticon.  
Email: [sales@opticonusa.com](mailto:sales@opticonusa.com)  
Phone: 1.800.636.0090

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# Companion Scanners

Featured Opticon Companion Scanners are listed below. To view the complete Opticon product line and detailed specifications, visit our website at [www.opticonusa.com](http://www.opticonusa.com)

[View all Companion Scanners Online](#)



## PX-20 2D Bluetooth Companion Scanner

- Small form factor fits comfortably in users hand
- Weighs only 1.4 oz
- Supports Secure Simple Pairing (SSP), Serial Port Profile (SPP) and Human Interface Device (HID) Bluetooth profiles for added flexibility
- Audible and visible feedback after a successful scan
- USB rechargeable, high capacity Lithium-Ion battery
- Extremely reliable and durable (IP54, 6' drop to concrete)

## RS-2006 1D Laser Bluetooth Ring Scanner

- Small, hands-free Bluetooth ring scanner
- Enables wireless, real-time scanning into host devices
- Fully programmable with SDK from Opticon
- Price point makes real-time barcode scanning with an Android, Apple, or Windows Mobile host device affordable
- Supports HID and SPP Bluetooth profiles for added flexibility
- High speed, 100 scans/second laser scanner

## OPN-2004 1D Laser USB Batch Companion Scanner

- Affordable, simple to use USB batch memory scanner
- Fully programmable with SDK from Opticon
- Small—weighs only 1.1 oz
- 100 scans/second laser scanner
- Stores over 10,000 barcodes plus timestamps
- Ships pre-loaded with basic firmware scanning application
- Long life battery with battery charging and data transfer through USB

## Next Steps

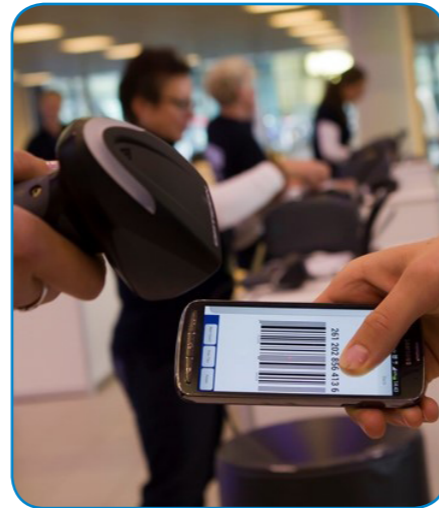
For more information or to schedule a demo, contact Opticon.  
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# Handheld Solutions

Featured Opticon handheld solutions are listed below. To view the complete Opticon product line and detailed specifications, visit our website at [www.opticonusa.com](http://www.opticonusa.com)

[View all Handheld Solutions Online](#)



## L-46X Cabled 2D Imager Scanner

- 100 frames per second (fps) 2D CMOS imager
- Improved scanning of curved, wide and poorly printed barcodes
- Easily and quickly scans 1D or 2D barcodes
- Durable—withstands 6' drop to concrete and IP42 rating
- Stand included
- Available in black or white, RS232 or USB



## OPH-1005 Handheld Laser Data Collector

- Features a vibrant color display
- Easy to use 23-key keyboard
- 100 scans/second laser barcode scanner
- IP54 rating against dust and moisture, withstands 5' drop to concrete
- Two communication/charging cradle choices available: CRD-1004 (USB, Ethernet) and CRD-1006 (USB, RS232)



## OPL-9815 GPS Bluetooth Laser Data Collector

- Batch data collection or Bluetooth real-time data transfer
- GPS and Real Time Clock for location and time stamping
- 18-key keypad and monochrome 112x64 pixel LCD screen with backlight
- IP54 rating against dust and moisture, withstands 5' drop to concrete
- Enhanced numeric keypad



## OPR-2001 Cabled Laser Scanner

- Slim, lightweight (2.1 oz), yet durable (IP 42; withstands 5' drop to concrete)
- 100 scans/second laser barcode scanner
- Trigger modes: manual, auto-trigger, and stand detection—perfect for retail
- RS232 or USB
- Stand included
- All Opticon scanners are backed by a two year warranty

## Next Steps

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# Fixed Mount Solutions

Featured Opticon fixed mount solutions are listed below. To view the complete Opticon product line and detailed specifications, visit [www.opticonusa.com](http://www.opticonusa.com)

[View all Fixed Position Solutions Online](#) ▶



## M-10 Omnidirectional Presentation Scanner

- Stylish, space-saving design that easily fits any workspace or retail counter
- Easily and quickly scans 1D or 2D barcodes
- Output editing process, such as GS1 format, can be easily set
- Omnidirectional scanning via 60 fps 2D imager
- Features LED aiming and auto or manual trigger activation
- USB and RS232 interfaces
- Small countertop footprint: 5.47 x 2.83 x 2.76 in (HxWxD)



## NLV-3101 Fixed Mount 2D Imager Scanner

- Industry's most compact fixed mount 2D imager in its class
- Fast global shutter technology with auto exposure
- Exceptional motion tolerance for moving applications
- Improved scanning of curved, wide and poorly printed barcodes
- Complete unit with integrated decoder
- IP65 rating for water and dust protection
- USB or RS232 interfaces



## Digital Signage and Electronic Shelf Labeling (ESL)

- E-paper based displays or full color TFT screen with complete content flexibility
- Ideal solution for retail stores, corporate buildings, healthcare and logistics
- Centralized administration of displays and tags with full visibility
- Displays can interactively adapt to context and audience
- Ensures accurate pricing and product information

## Next Steps

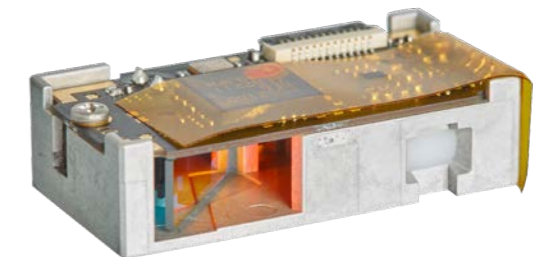
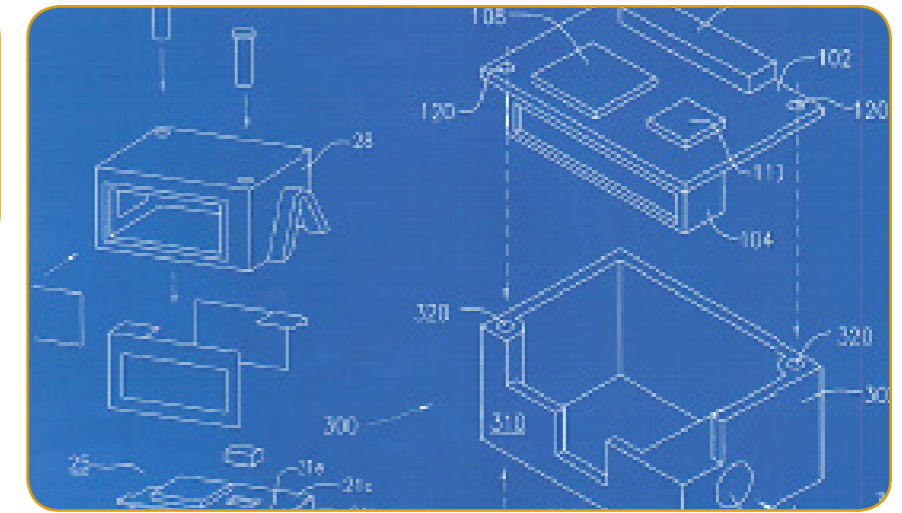
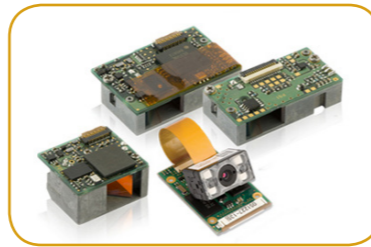
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# OEM Solutions

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## MDI-4100 2D CMOS Imager Scan Engine

- Industry's thinnest (10mm) 2D imager barcode scan engine
- Features an integrated camera and decoder in an ultra-miniature module
- High-speed performance ensures stress free scanning and fast response without being affected by hand movement and light conditions
- Data editing program function captures up to 16 codes on multiple images simultaneously
- Very low power consumption

## MDI-4000 2D CMOS Imager Scan Engine and Decoder Board

- Separate camera and decoder board offers ultra-miniature size
- Alternative form factor solution to the MDI-4100 with similar features and functions
- CMOS image sensor that rapidly scans 1D and 2D barcodes
- Fast global shutter technology offering exceptional motion tolerance for moving applications
- Low power and an adjustable power consumption to fit design needs

## MDC-200 CCD Barcode Scan Engine

- 300 scans/second CCD barcode scan engines
- Small form factor, low power consumption
- Solid-state design with no moving parts equates to better MTBF
- Perfect for integration into small, space-constrained mobile, medical, or retail barcode scanning devices
- Engineering kits available with all scan engines—enables faster time to market

## MDL-1500 Laser Barcode Scan Engine

- 650 nm visible laser diode that scans bi-directionally at 100 scans/second
- Small size makes it easy to mount
- Low power consumption to fit your design needs
- Communication: Serial CMOS - 12 pin FFC connector, USB-HID, USB-COM
- All OEM solutions backed by two year warranty

## Next Steps

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