

**OPTICON**

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# 1D Auto-trigger Scanning

Beyond Operational. **It's Efficient.**



Ideal tool for:

- ✓ Retail
- ✓ Healthcare
- ✓ Media Rentals
- ✓ Administration



Scan



Communicate

## HIGH-PERFORMANCE BARCODE SCANNING

The product range of Opticon holds several models of compact and lightweight designed barcode scanners. The high performance laser scanner provides a fast and accurate scan and is immediately ready for the next scan. The scanners are standard available as complete package with stand. They can optionally be obtained as single unit. Matching popular standards, the products are available in black and optionally in white.



### + WIDE OPERATION FIELD

The aggressive laser scan features capture barcodes of varying widths at varying distances, even when the barcodes are slightly curved, printed with low contrast or at high density.

## PLUG AND PLAY

The plug and play ability of the barcode laser scanners enables quick connection and provides the ability to put the scanning performance to immediate operation.

### + USB

The USB (Universal Serial Bus) allows multiple connections, including scanners, to a single host.

- The HID (Human Interface Device) protocol positions the scanner in the category of keyboards.
- The VCP (Virtual Communications Port) protocol will emulate an RS232 port.

### + KEYBOARD WEDGE

This interface connects a scanner and a keyboard to the host computer, where the scanner data is emulated as additional keyboard input.

### + RS232

This standard for serial communication is using plain text protocol to communicate between two devices being the scanner and the host computer.



# 1D Auto-trigger Scanning

Beyond Operational. **It's Efficient.**

## ✓ Retail



### Applications

- On-counter scanning
- Price checking
- Point of Sale registration
- Check-out applications
- Loyalty card identification

With its aggressive scan, the barcode laser scanner optimizes the speed and accuracy at Point of Sale applications. The choice in scanner and stand configuration compliments every retail counter. It realizes ergonomic scanning of all linear barcodes placed on every shop item. Also customer vouchers for sales actions are easily scanned for quick and effective handling

## ✓ Healthcare



### Applications

- Electronic Health Record (EHR)
- Patient administration
- Reception desk registrations
- Pharmacy management
- Automation of paper based processes

Hospitals and other medical centers use the barcode scanner at the reception desk to identify patients easily. The unique barcode on the patient's badge connects to the patient's electronic health record when scanned. This makes the medical history and prescription lists available for the care professional. Integration of barcode scanning eliminates errors and allows faster collection of data that needs to be communicated across the care providers.

## ✓ Media Rentals

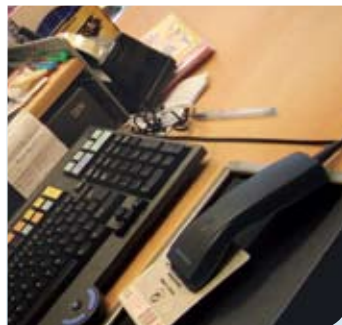


### Applications

- Check new materials
- Register rent outs
- Media database entry
- Notify overdue and fine rates
- Membership control

Libraries, video stores and other rental shops can profit from barcode scanning technology. Scanning the barcode on the back of a book, video or music disc, as well as scanning the barcode on the member card, offers quick lookup and entry in the database. The information helps to maintain accurate data of customers, rentals, missing items, invoices, late charges, payments and so on.

## ✓ Administration



### Applications

- Registration of documents and products
- Check-in returned materials
- Check-out reservations
- Tracing task performances
- Ticket scanning

The barcode scanner can be placed on every desk for administrative purposes. Incoming and outgoing packages, documents, or product labels can easily be identified and registered by just one move. Barcode scanning solutions definitely facilitate a quick registering solution with remarkable labor reduction and minimum space consumption. Connectivity to any enterprise administration software is available to benefit the efficiency of this solution in all possible ways.



## + EASY BARCODE SCANNING

The supplied auto trigger feature of the scanner and the complementing stand initiate automatic scanning and allow the user to operate instantly and hands-free. When manual control is preferred the scanner can also be operated as stand-alone unit.

## + Basic Product Specifications

### Operating indicators

- Visual: 1 LED (red/green/orange)
- Non-visual: Buzzer

### Operating keys

- Entry options:  
1 scan key

### Communication

- RS232: DB9 PTF connector with external power supply
- Keyboard Wedge: MiniDIN6 F/M connector
- USB: Ver. 1.1, HID/VCP, USB-A connector

### Power

- Voltage requirement: 5V  $\pm$  10% (Keyboard Wedge and USB), 6V (min. 4.5, max. 6.5V) (RS232)
- Current consumption:  
OPR3201: Max. 100mA  
OPR2001: Max. 150mA  
OPL6845R: Max. 250mA

### Barcode scanner Optics

- Light source: 650 nm visible laser diode
- Scan method: Bi-directional scanning
- Scan rate: 100 scans/sec
- Trigger mode: Manual, auto-trigger, stand detection
- Reading pitch angle: -35 to 0°, 0 to +35°
- Reading skew angle: -50 to -8°, +8 to +50°
- Reading tilt angle: -20 to 0°, 0 to +20°
- Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, Code 39  
40 - 500 mm / 1.57 - 19.69 in (1.0 mm / 39 mil),  
20 - 350 mm / 0.79 - 13.78 in (0.5 mm / 20 mil),  
20 - 200 mm / 0.79 - 7.87 in (0.25 mm / 10 mil),  
20 - 100 mm / 0.79 - 3.94 in (0.15 mm / 6 mil),  
30 - 70 mm / 1.18 - 2.76 in (0.127 mm / 5 mil)

### Supported Symbolologies

- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/ NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/ Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- Postal code: Chinese Post, Korean Postal Authority code
- 2D code: OPR3201, OPL6845R: Composite codes, MicroPDF417, PDF417

### Durability

- Temperature in operation: -5 to 50 °C / -23 to 122 °F
- Temperature in storage: -20 to 60 °C / -4 to 140 °F
- Humidity in operation:  
OPR3201, OPL6845R: 5 - 95% (non-condensing)  
OPR2001: 20 - 85% (non-condensing)
- Humidity in storage:  
OPR3201, OPR2001: 5 - 90% (non-condensing)  
OPL6845R: 5 - 95% (non-condensing)
- Ambient light immunity:  
Fluorescent 3,000 lx max, Direct sun 50,000 lx max  
OPR3201: White 3,000 lx max  
OPR2001, OPL6845R: Incandescent 3,000 lx max
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Vibration test: 10 - 100 Hz with 2G for 1 hour
- Protection rate: IP 42

### Physical

#### OPR3201

- Dimensions (w x h x d):  
56 x 149 x 109 mm / 2.20 x 5.87 x 4.29 in
- Dimensions stand (w x h x d): (excl. scanner)  
146 x 106 x 295 mm / 5.75 x 4.17 x 11.61 in
- Weight body: Ca. 80 g / 2.8 oz (excl. cable)
- Weight stand: 385 g / 13.58 oz
- Case: ABS, Black or White

#### OPR2001

- Dimensions (w x h x d):  
56 x 151 x 31 mm / 2.20 x 5.94 x 1.22 in
- Dimensions stand (w x h x d): (excl. scanner)  
100 x 175 x 127 mm / 3.94 x 6.89 x 5.00 in
- Weight body: Ca. 60 g / 2.1 oz (excl. cable)
- Weight stand: Ca. 115 g / 4.1 oz
- Case: ABS, Black, chrome stand

#### OPL6845R

- Dimensions (w x h x d):  
57 x 159 x 32 mm / 2.24 x 6.26 x 1.26 in
- Dimensions stand (w x h x d): (excl. scanner)  
160 x 190 x 245 mm / 6.29 x 7.48 x 9.64 in
- Weight body: Ca. 90 g / 3.2 oz (excl. cable)
- Weight stand: Ca. 290 g / 10.2 oz
- Case: ABS, Black or White

### Regulatory & Safety

- Product compliance: CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

### Enclosed items

- OPR3201, OPL6845R: Power supply 100-240V/0.5A, 50/60 Hz, 6V/2A (for RS232)
- OPR2001, OPR3201: Stand
- OPL6845R: Stand (optionally sold separately)

### Sold separately

- OPR2001: Power supply 100-240V/0.5A, 50/60 Hz, 6V/2A (for RS232)

### Models

|                           | OPL<br>6845R | OPR<br>2001 | OPR<br>3201 |
|---------------------------|--------------|-------------|-------------|
| <b>Interface versions</b> |              |             |             |
| • RS232                   | ●            | ●           | ●           |
| • Keyboard Wedge          | ●            | ●           | ●           |
| • USB                     | ●            | ●           | ●           |
| <b>Color versions</b>     |              |             |             |
| • Black                   | ●            | ●           | ●           |
| • White                   | ●            |             | ●           |
| <b>Package versions</b>   |              |             |             |
| • Stand included          | ●            | ●           | ●           |
| • Scanner only            | ●            |             | ●           |