

The NFT 2100/2200 are close-range CCD fixed position barcode scanners that combine high quality Opticon technology with a low price tag. Triggered by software commands, the NFT 2100/2200 are perfect for the unattended scanning of barcodes up to 80mm wide at medium to low speeds, whose distance from the scanner can be controlled.

1D CCD

# NFT 2100/2200

CCD Scanner 200 Scans/Sec  
Decoded



## Features

- Best cost performance in the fixed mount CCD scanner series
- Serial (RS232C), Keyboard Wedge, USB interfaces available
- Packaged in a compact, metal housing

## Benefits

- Fast return on investment
- Easy connectivity
- Adapts easily into OEM and fixed mount scanning applications

Cabled

Wireless

Stationary

OEM

**OPTICON**  
always scanning for new ID's

# Specifications

## NFT 2100/2200 Series CCD Scanner 200 Scans/Sec Decoded

### Electrical specifications

Voltage requirement: 5V  $\pm$  5%  
 Rush current: 1 A MAX  
 Idle current: 45 mA MAX  
 Power consumption: 130 mA MAX (LED light on)

### Optical specifications

Light source: 660 nm red LED  
 Photo sensor: 2k element CCD  
 Scan rate: 200 scans/sec  
 Reading pitch angle: -6 - 0°, 0 - +6°  
 Reading skew angle: -30 - -10°, +10 - +30°  
 Reading rotation angle: -10 - 0°, 0 - +10°  
 Focal plane: 35.4 mm from window  
 Curvature: R>20mm (EAN8), R>30mm (EAN13)  
 Reading width: 80 mm / 3.15 inches (Res. 0.2, PCS0.6, at Focal Plane), 60 mm / 23.62 inches (Res. 0.2, PCS 0.45, at Focal Plane +/- 3mm)  
 Min. Resolution at PCS 0.9: 0.15 mm (6 mil) (PCS0.9 Binary code), 0.26 mm (10.2 mil) (PCS0.9 Multi level code)  
 Min. PCS value: 0.45  
 Depth of field: 24 - 60 mm / 0.94 - 2.36 inches (Res. 1.00), 20 - 50 mm / 0.78 - 1.96 inches (Res. 0.50), 20 - 44 mm / 0.78 - 1.73 inches (Res. 0.25), 22 - 40 mm / 0.86 - 1.57 inches (Res. 0.15) at PCS 0.9, Code 39

### Identification

Supported barcode symbologies (1D): JAN/UPC/EAN - NW-7 - Codabar - Code 39 - Code 93 - Code 128 - IATA - Industrial 2of5 - Interleaved 2of5 - Matrix 2of5 - Chinese Post Matrix 2of5 - MSI/Plessey - UK/Plessey - S-Code - Telepen - Tri-Optic

### Functionality

Trigger mode: External hardware trigger, serial software trigger

### Communication specifications

Interface: Keyboard Wedge, RS232C, USB(HID)

### Environmental specifications

Temperature in operation: 0 - +45°C / +32 - +113 F  
 Temperature in storage: -10 - +60°C / +14 - +140F  
 Humidity in operation: 20 - 80 % (non-condensing)  
 Humidity in storage: 20 - 90 % (non-condensing)  
 Ambient fluorescent light immunity: 5,000 lx max  
 Ambient incandescent light rejection immunity: 5,000 lx max.  
 Antistatic electricity: 15 kV (non destructive)  
 Shock packed drop test: 0.6 m onto concrete surface  
 Shock vibration test: 12 - 100 Hz with 2G for 3 hours

### Physical specifications

Dimensions: 55 x 47 x 20 mm / 2.16 x 1.85 x 0.78 inches  
 Case material: sheet metal  
 Weight body: 100 g / 0.22 pounds / 4 oz (excl. cable)  
 Connector Keyboard Wedge: MiniDIN 6 M/F  
 Connector RS232: DB9 F with external power  
 Connector USB: USB-A

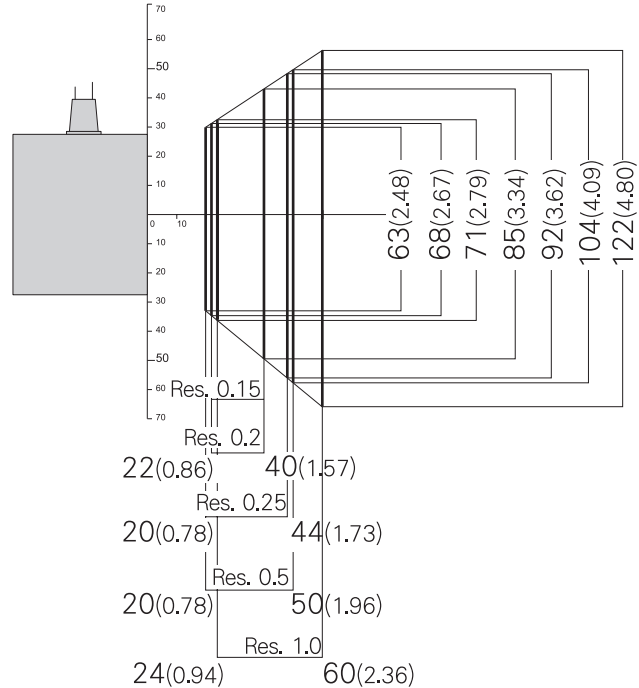
### Regulatory

EMC: EN 55022, EN 55024

Typical performance based on good quality symbols in normal room temperature and light conditions.

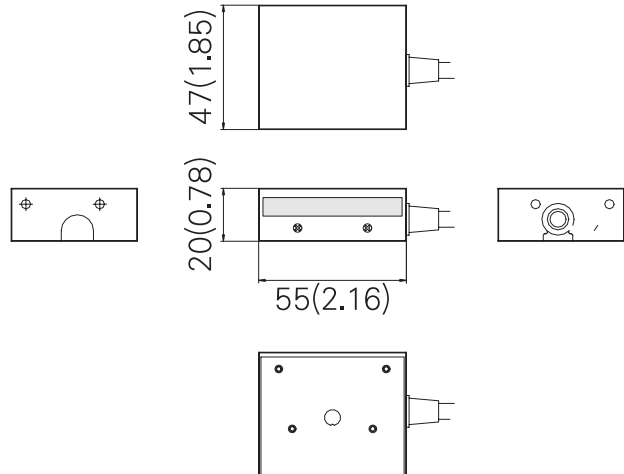
### Depth of field

The reading width is a calculated value and is for guidance only.  
 Unit: mm (inches)



### Dimensions

Unit: mm (inches)



### Accessories

Sold separately  
 Power supply: 5V/500mA (External power for RS232)

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- The Netherlands: Hoofddorp
- France: ISSY Les Moulineaux CEDEX
- Germany: Dietzenbach
- Italy: Castel Maggiore (BO)
- Spain: Valencia
- Sweden: Järfälla
- United Kingdom: Luton, Bedfordshire
- U.S.A.: Orangeburg, NY - Bellevue, WA
- Japan: Warabi City
- Taiwan: Taipei
- P.R.China: Shanghai
- Australia: Kariang

Opticon Inc.  
 8 Olympic Drive  
 Orangeburg NY 10962 - 2511  
 U.S.A.  
 toll free: 800-636-0090  
 local: 845-365-0090  
 fax: 845-365-1251  
 sales@opticonUSA.com

www.opticonUSA.com  
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 always scanning for new ID's