

The NFT 2100 is a close range CCD based fixed position bar code scanner that combines high quality Opticon technology with a low price tag. Triggered by software commands, the NFT 2100 is perfect for the unattended scanning of bar codes up to 3.14 inches wide at medium to low speeds, at controllable distances.

1D CCD

# NFT 2100

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 CCD Scanner 200 Scans/Sec Decoded

### Electrical specifications

Voltage requirement: 5V ± 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 / 31.49 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(VCP)

### 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 (excl. cable)  
 Connector Keyboard Wedge: MiniDIN 6 M/F  
 Connector RS232: DB9 F with external power  
 Connector USB: USB-A

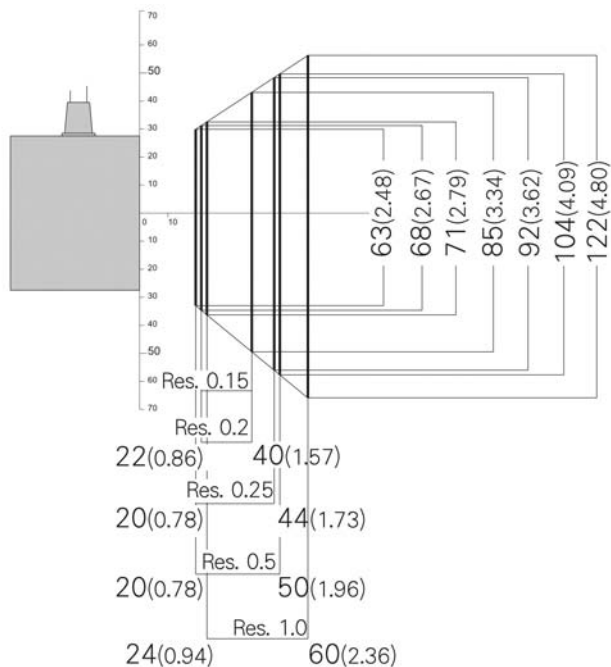
### Regulatory

EMC: EN 55022, EN 55024, CE Certified, FCC Part 15 Class B, ISO 9002 Certified Mfg. Facility

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

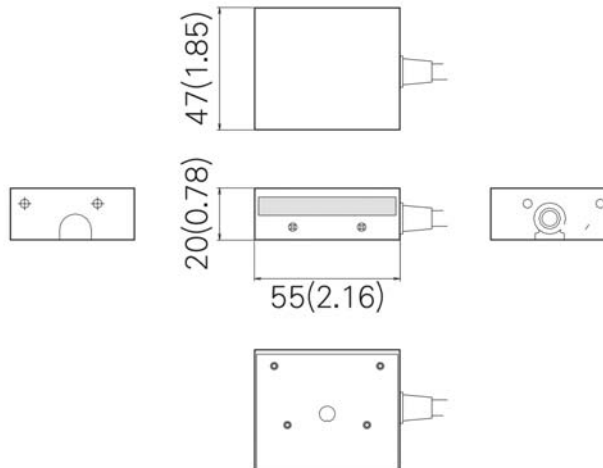
### Depth of field

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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