# ECONOSCAN ™

## Low-Cost CCD Scanner
### For Bar Codes

CE
**FCC**



## Scans and decodes bar codes.

ID TECH's EconoScan CCD Scanner is specially designed to deliver high-end performance at the lowest possible price. The scanner utilizes exceptional decoding technology. One-time settings are easily made by scanning set-up bar codes in the handy user's manual.

## Programmable for specialized usage.

Not only does the EconoScan read and decode all popular bar code symbologies, it can also format the scanned data to meet the user's needs. Bar code symbologies are individually selectable, as are reading mode, beep tone, preamble/postamble, and code ID.

## Ergonomic and lightweight.

This rugged scanner contains no moving parts, yet it is exceptionally lightweight and designed to fit comfortably in the hand for extended periods of usage. The cable is detachable for easy replacement or the use of multiple interfaces.

## High-speed contact scanning.

The EconoScan enables quick contact scanning of bar codes up to 3.5 inches in length. At a scan rate of 43 scans per second, low-quality or damaged bar codes, as well as small or high-density bar codes, can be read with exceptional speed and accuracy.

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# IDT 44X1 EconoScan CCD Scanner Specifications

## Electrical

| | |
|---|---|
| Light Source: | 630-660 nm visible red LED with focus light bar. |
| Sensor: | 2088 pixels CCD arrays. |
| Operating Power: | +5 VDC ± 5%. |
| Power Consumption: | 85 mA ± 10 mA. (Operating) |
| Agency: | FCC Class A & CE Approvals. |

## Environmental

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|---|---|
| Operating Temperature: | 32° F to 122° F (0° C to 50° C). |
| Storage Temperature: | -4° F to 140° F (-20° C to 60° C). |
| Relative Humidity: | 20 to 80%, non-condensing. |
| Drop Test: | Operational after 20 drops at 6 ft. (1.8 m) to a hard surface. |

## Mechanical

| | |
|---|---|
| Field Width: | 120 mm (40 mil). |
| Depth of Field: | 0-50 mm (16 mil). |
| Resolution: | 0.1 mm (4 mil). |
| PCS: | 0.45 minimum. |
| Scan Rate: | 150 scans per second. |
| Range: | 0 to 4.72 inches (0 to 120 mm) based on resolution. |
| Symbologies: | Code 39, UPC-A, UPC-E, Code 128, EAN-13/8, EAN 128, Interleaved 2 of 5, Code 32, MSI, UK Plessey, IATA 2 of 5, Code 2 of 5 (China Postal Code), Industrial 2 of 5, Matrix 2 of 5, Code 93, Code 11. |
| Interfaces: | RS-232,  Keyboard Wedge, and USB. |
| Scan Width: | 3.5 inches (89 mm) at contact. 4.72 inches (120 mm) at 4.33 inches. |
| Indicator: | LED, beep tone. |
| Dimensions: | Length: 7.75 inches (197mm). Width: 3.5 inches (89mm). Height: 2 inches (51mm). |
| Weight: | 8 oz. (with cable) |
| Color: | Gray or black housing. |

## Decoding Specifications and Options

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|---|---|
| Message Formatting: | Terminator Character. |
| | Preamble. |
| | Postamble. |
| User Programmable Features: | Enable/disable individual symbologies. |
| | Min/max length set. |
| | MSI/Plessey check digit. |
| | Code 11 check digits. |
| | Beep  tone. |
| | EAN country code digits send/suppress. |
| | UPC/EAN separator enable/disable. |
| | User-selectable Code ID. |
| | Trigger operation or auto scanning. |
| Transmission to Host Options: | Intercharacter delay select. |
| | Interblock delay select. |
| RS-232 Interface Option: | Baud Rate: Selectable, 300 to 57.6K bps. |
| | Data: 7, 8 Data and 1, 2 stop bits. |
| | Parity: Odd/even/none, space/mark. |
| Keyboard Wedge Options: | Terminal Selection: IBM AT, PS/2. |

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