

# A770BT Series

A durable, high performance cordless Area Imaging Scanner for general purpose and light industrial applications

Built with the latest Bluetooth v4.0 wireless technology

Over 100 meters communication coverage while working with smart cradle

Plug-and-play cordless migration by working with smart cradle

Support multiple connections up to 7 scanners in PICO mode

Support both HID and SPP profiles to connect with most remote Bluetooth-enabled hosts

Compatible with the most popular iOS and Android devices

Batch scanning with more than 100,000 EAN-13 scans of storage capability is ideal for inventory application

Read most popular 1D, 2D barcodes and postal codes omni-directionally

Snappy reading and superior first-time read

Digital image capture capability

Durable over-mold design to withstand multiple drops of 2.0 meter to concrete

Cradle contact pin with high durability over 1,000,000 times

Optional vibrator is ideal for noisy and quiet environments



Constructed of the innovative FuzzyScan 3.0 Imaging Technology, powerful computing platform and advanced Bluetooth v4.0 wireless technology, the FuzzyScan A770BT series cordless Area Imaging Scanner delivers superior reading performance, impressive snappy reading and ultimate freedom of cordless operation. With its outstanding reading performance, superior wireless connectivity, robust enclosure and versatile features, the A770BT raises the bar on the exceptional cost-performance for various barcode scanning applications.

## Exceptional mobility and flexibility

Powered by Bluetooth v4.0 wireless technology, A770BT provides several radio link modes to communicate with most host devices. When Bluetooth-enabled host device is not available, it can work with the smart cradle in PAIR mode or PICO mode. This provides an instant plug-and-play cordless migration to your existing non-Bluetooth-enabled IT assets. Moreover, the PICO mode supports multiple connections up to 7 scanners with one smart cradle, reducing the cost of system. Furthermore, you can use A770BT with Bluetooth-enabled host devices via SPP mode or HID mode.

## Superior reading performance

The A770BT can read most popularly-used linear, 2D bar codes, postal codes omni-directionally. High Density and Standard Range models are designed for the needs of various barcode scanning applications. It can also perform exceptional reading performance on barcode printed on reflective material and on curved surface. A770BT presents superior adaption of most real world barcodes, such as poorly printed, distorted and damaged barcodes.

## Versatile functionality and rich features

To fulfill diverse business applications, A770BT is feature-rich to represent its best value in its class. It can store up to 100,000 EAN-13 barcode data in batch mode. The out-of-range scanning feature allows A770BT to continue scanning data even when it loses radio connection. In hand-free application, you can enable the Auto-sense function to have A770BT switch from trigger mode to presentation mode automatically when it is placed on SmartStand or smart cradle.

# Specifications

## Performance Characteristics

Image Sensor	WVGA 752x480 Pixels
Print Contrast	20% minimum reflectance difference
Light Source	Aiming Pattern : 630nm LED Illumination : 630nm LED
Min. Resolution	<b>SR Model</b> 3.3 mil Code 39 7 mil DM <b>HD Model</b> 2.7 mil Code 39 5 mil DM
Roll, Pitch, Skew	Roll: 360°; Pitch: ± 75°; Skew: ± 65°
Motion Tolerance	Up to 25 inch/63.5 cm per second
Reading Range *1	<b>SR Model</b> 5 mil (0.13mm) C39 3.8-19.5cm (1.5"-7.7") 13 mil (0.33mm) EAN 2.4-40.5cm (0.9"-15.9") 10 mil (0.25mm) DM 3.0-20.0cm (1.2"-7.9") <b>HD Model</b> 3 mil (0.076mm) C39 2.2-9.6cm (0.9"-3.8") 5 mil (0.13mm) C39 2.8-11.5cm (1.1"-4.5") 13 mil (0.33mm) EAN 1.8-20.3cm (0.9"-12.9") 5 mil (0.13mm) DM 2.8-7.5cm (1.1"-3.0") 10 mil (0.25mm) DM 1.2-12.0cm (0.5"-4.7")
Operating Modes	Trigger, Presentation
Configuration Setup	Bar code command Windows utility - FuzzyScan PowerTool
Data Editing	Condensed DataWizard via bar code command Full-feature DataWizard via FuzzyScan PowerTool DataWizard Premium via FuzzyScan PowerTool
User Interfaces	Blue link indicator and 2-color status indicator Programmable beeper Optional vibrator
Image Capture	Graphic Format : BMP

## Electrical Characteristics

Battery	3.7V, 2600mAh Li-ion rechargeable battery
Battery Charge Time	Approx. 4-5 hours per full charge
Scans per full Charge *2	More than 63,000 scans and transmissions
Voltage & Current (Scanner and Smart Cradle)	Voltage 5 ± 10% VDC Current (Charging/ Non Charging) Max.750 mA / 175mA with external power

## Communication Characteristics

RF Standard	Bluetooth v4.0
RF Frequency	Band 2.402~2.4830 GHz unlicensed ISM band
Radio Link Modes	PAIR mode, PICO mode, SPP mode, HID mode
Communication Range	More than 100 meters in open space when working with smart cradle, line of sight
Supported Profiles	SPP, HID

1. The reading distances are measured under Cino's test environmental condition.
2. The number of scans per full charge is measured under factory preset test condition.
3. Don't stare into the LED beam.

## Supported Symbolologies

1D Linear Codes	Code 39, Code 39 Full ASCII, Code 32, Code 128, GS1-128, Codabar, Code 11, Code 93, Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5, IATA, UPC/EAN/JAN, UPC/EAN/JAN with Addendum, Telepen, MSI/Plessey & UK/Plessey, GS1 DataBar, Linear & Linear Stacked
2D Codes	PDF417, Micro PDF417, Codablock F, Code 16K, Code 49, Composite Codes, DataMatrix, MaxiCode, QR Code, Aztec, MicroQR
Postal Codes	Australian Post, US Planet, US Postnet, Japan Post Dutch KIX code, Intelligent Mail, British Post

## User Environment

Drop Specifications	Withstand 50 drops at 1.8m / 6.0ft to concrete Withstand 10 drops at 2.0m / 6.6ft to concrete
Environmental Sealing	IP41
Operating Temperature	-10 °C to 50 °C (14 °F to 122 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Humidity	5% to 95% related humidity, non-condensing
Ambient Light Immunity	0-100,000 lux
ESD Protection	Functional after 15KV discharge

## Safety & Regulatory

EMC & Radio:	CE,FCC,BSMI,C-Tick,KC,NCC,VCCI,MIC
Safety *3	LED Eye Safety IEC62471, Exempt Group
Environmental	Compliant with RoHS directive

## Accessories

Smart Cradle	RF Standard : Bluetooth v4.0 Battery charging : Fast charge User Interfaces : 1 blue link indicator 2-color status indicator Beeper, Paging/Reset button Host Interface : PS/2 (DOS V) Keyboard Wedge, TTL RS232 Serial, USB HID, USB COM
Charging Cradle	Battery charging : Fast charge User Interface : 1 blue power indicator
Interface Cables	PS/2 (DOS V) Keyboard Wedge Cable RS232 Serial Cable USB Cable
Others	Power Supply Unit (5VDC 2A outlet) Battery Pack BT2100 (2600mAh)

## Physical Characteristics

Dimension	95.0 mm (L) x 70.5 mm (W) x 161.7 mm (D)
Weight	210g (battery included)
Color	Black, Light Gray