

# A670BT Series

An exceptional cost-performance Cordless  
2D Area-imaging Scanner



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

Data validation mode is useful for valid-data checking

Time-stamp function is available for both online scanning and batch scanning

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

Read 2.7 mil high-density bar codes

Durable design withstands multiple drops to concrete from 1.8 meter

Reliable cradle contact pin endures over 1,000,000 contacts

Optional vibrator is ideal for noisy and quiet environments

The FuzzyScan A670BT cordless 2D area-imaging scanner is built on the heritage of successful A770BT series, presenting a surpassing integration of innovative FuzzyScan Imaging Technology 3.0, powerful computing platform and advanced Bluetooth v4.0 wireless technology in a compact and durable construction. It delivers ultimate freedom of wireless connectivity, superior reading performance and versatile features, providing a superior cost-performance solution for a variety of barcode scanning applications, such as retail, commercial, pharmaceutical and hospital.

## **Flexible connectivity and exceptional mobility**

The A670BT provides several radio link modes to communicate with most host devices. When Bluetooth-enabled host device is not available, it can work with smart cradle in PAIR mode or PICO mode as a "Plug-and-Play" solution without additional cost of cordless migration. Furthermore, you can use it to work with most popular remote Bluetooth hosts and mobile devices such as Android devices and iOS devices via SPP mode or HID mode.

## **Superb reading performance and readability**

The A670BT can read most popularly-used linear, 2D bar codes, postal codes omni-directionally. It not only can read paper-based and electronic bar codes, but also perform exceptional adaption of most real world bar codes, such as poorly printed, distorted and damaged bar codes. The A670BT-HD is also capable of reading 2.7 mil high-density linear bar codes and 5 mil 2D bar codes which make it ideal for various barcode scanning applications.

## **Versatile and user-friendly functionality**

To fulfill diverse business applications, the A670BT is feature-rich to represent its best value in its class. In batch mode, it supports quantity feature and can store up to 100,000 EAN-13 barcode data. Built-in real-time clock, both online scanning and batch scanning support time-stamp feature in various formats. The out-of-range scanning feature allows A670BT to continue scanning data even when it loses radio connection. In hand-free application, you can enable "Auto-sense" function to have A670BT switched between trigger mode and presentation mode automatically while working with 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>MR Model</b> 3 mil Code 39 6.7 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>MR Model</b> 5 mil (0.13mm) C39 3.6-18.3cm (1.4"-7.2") 13 mil (0.33mm) UPC/EAN 2.3-32.7cm (0.9"-12.9") 10 mil (0.25mm) DM 2.5-14.2cm (1.0"-5.6") <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 (0.7"-8.0") 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 1.6m / 5.2ft to concrete Withstand 10 drops at 1.8m / 6.0ft 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 : 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	5VDC Power Supply Unit Battery Pack BT2100 (2600mAh) US100 Hand-free SmartStand US50 Hand-Free Stand Universal Holder

## Physical Characteristics

Dimension	97.0 mm (L) x 65.0 mm (W) x 156.0 mm (D)
Weight	198g (battery included)
Color	Black, Light Gray