

Bluetooth Version

FUZZYSCAN FAMILY

Quick Start Guide

FUZZYSCAN

CORDLESS SCANNER

cino

About This Guide

Thank you for choosing Cino's FuzzyScan cordless handheld imager. Powered by Cino's exclusive imaging technology, rich features, and Bluetooth connectivity, this imager not only provides outstanding reading performance but also boosts your productivity with great user experience.

This quick start guide serves as a quick reference for imager installation and operation. The complete documentation is available at www.cino.com.tw.

Applicable Models

800 Series Ultra-rugged Cordless Imagers

2D A898BT, A888BT

1D F898BT, F888BT

2D 1D & 2D Imagers

1D 1D & PDF Imagers

700 Series Enterprise Cordless Imagers

2D A798BT, A790BT, A788BT, A780BT, A778BT, A770BT

1D F798BT, F790BT, F788BT, F780BT, L788BT, L780BT

2D A798BT HC, A790BT HC, A788BT HC, A780BT HC

1D F788BT HC, F780BT HC, L788BT HC, L780BT HC

600 Series Commercial Cordless Imagers

2D A698BT, A690BT, A688BT, A680BT, A678BT, A670BT

1D F688BT, F680BT, L688BT, L680BT

▶ **Wireless Charging models** are indicated in "Gray".

▶ **UltraCap™ Battery-free solution** is available for all imagers.

Applicable Kits

FuzzyScan cordless handheld imagers are available in various sales kits with corresponding accessories. For more information, please contact your sales representative.

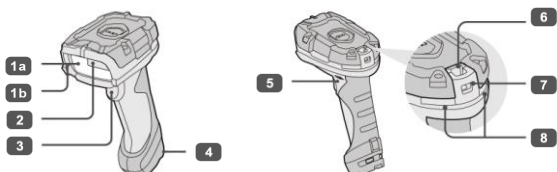
Useful Features

To enhance user experience and usability, FuzzyScan cordless handheld imagers provide a collection of unique features called **FuzzyScan DNA**, such as DataWizard Premium, iCode, Multilingual Edge, Smart Scene, Security Plus, and FuzzyScan Enabling Solution. For more details, please visit Cino's website at www.cino.com.tw.

Getting Familiar with Your Imager

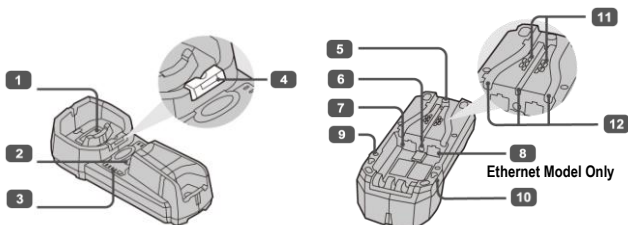
800 Series Wireless Charging

A898BT, A888BT, F898BT, F888BT




- | | | |
|--------------------------|----------------------------|--------------------|
| 1a Window Chassis (Gray) | 1b Diffuser (Trans. White) | 2 Scan Window |
| 3 Trigger | 4 End Cap | 5 Beeper |
| 6 Link Indicator | 7 Hanger Bracket | 8 Status Indicator |
| 9 Reset Button | 10 USB-C Port | 11 Battery Cavity |
| 12 Screw-on Locker | 13 End Cap Cover | 14 Cover Lift |

HB8133 Smart Cradle

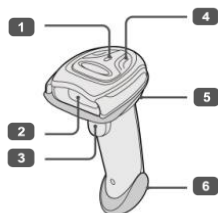


- | | | |
|-----------------------|-----------------------|---------------------|
| 1 Quick Pair Barcode | 2 Paging Button | 3 Status Indicators |
| 4 Magnet Plate | 5 Mounting Hole A | 6 DC Power Jack |
| 7 Host Interface Port | 8 LAN Port (Ethernet) | 9 Mounting Hole B |
| 10 Mounting Hole C | 11 Buzzer | 12 Cable Groove |

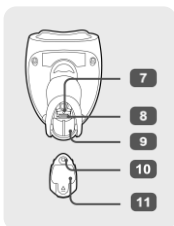
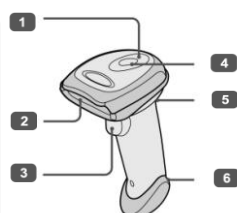
 To use HB8133 Smart Cradle for **Wall Mount** application, please refer to the user manual for details.

600 & 700 Series Wireless Charging

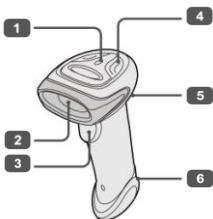
A798BT, A788BT, A778BT



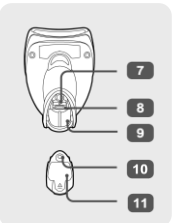
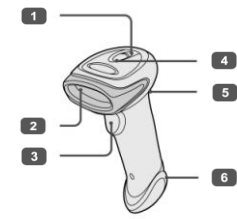
F798BT, F788BT, L788BT



A698BT, A688BT



A678BT, F688BT, L688BT

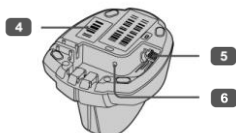
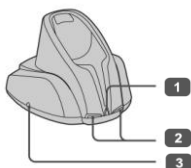


- 1 Link Indicator
- 4 Status Indicator
- 7 Reset Button
- 10 Screw Hole

- 2 Scan Window
- 5 Beeper
- 8 USB-C Port
- 11 End Cap Cover

- 3 Trigger
- 6 End Cap
- 9 Battery Cavity

HB4132 Wireless Charging Smart Cradle



- 1 Link Indicator
- 4 Quick Pair Barcode

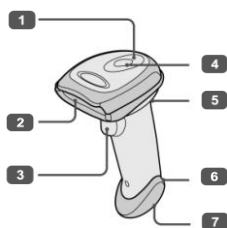
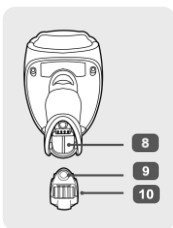
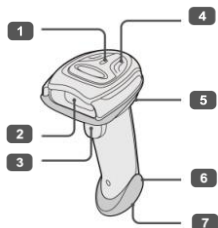
- 2 Status Indicators
- 5 Host Interface Port

- 3 Paging Button
- 6 DC Power Jack

600 & 700 Series Contact Charging

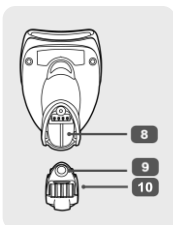
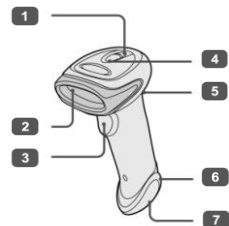
A790BT, A780BT, A770BT

F790BT, F780BT, L780BT



A690BT, A680BT

A670BT, F680BT, L680BT

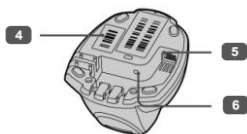
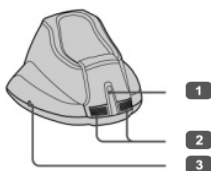


- 1 Link Indicator
- 4 Status Indicator
- 7 End Cap
- 10 Charging Contact

- 2 Scan Window
- 5 Beeper
- 8 Battery Cavity

- 3 Trigger
- 6 Reset Button
- 9 Screw Hole

HB2112 Smart Cradle



- 1 Link Indicator
- 4 Quick Pair Barcode

- 2 Status Indicators
- 5 Host Interface Port

- 3 Paging Button
- 6 DC Power Jack

Preparations before Use

Install the Battery or UltraCap™

800 Series

Wireless Charging Model



600 & 700 Series

Wireless Charging Model



600 & 700 Series

Contact Charging Model

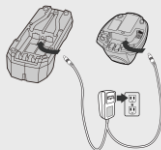


- 1 Slide the battery or UltraCap™ into the cavity until a “click” is heard.
- 2 Seal the cavity with end cap and tighten it using the provided screw.

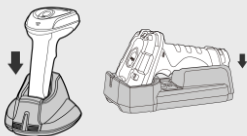
Charge Your Imager

Prior to the initial use, charge the battery for 4 hours or UltraCap™ for 50 minutes respectively.

1



2



- 1 Connect the power supply unit to the electrical outlet, then plug the DC power cord into the cradle's DC Jack.
- 2 Place the cordless imager onto the cradle for charging.



To use the **Wireless Charging Cradle** (HB8133 and HB4132) for battery charging, you have to use the power supply unit as power source to ensure that wireless charging works properly.

Work with Smart Cradle

By working with the smart cradle, FuzzyScan cordless imager provides a plug-and-play cordless migration of your non-Bluetooth-enabled host. You can use either **PAIR** mode or **PICO** mode for your needs.

Pair Your Imager with Smart Cradle

- 1 Please choose your desired interface cable, then plug its RJ50 connector into the host interface port of the smart cradle and connect the cable to the host.



- 2 If the imager is shipped together with a smart cradle, they are pre-paired already. Once powered up, the link indicator of imager emits blue blinks in preset intervals, and the link indicator of smart cradle remains in active blue. If so, you can skip instructions 3 to 5.
- 3 If your imager or smart cradle is in the uninstall state, their status indicators will blink alternatively in **red** and **green**. Follow the instructions below to pair your imager with the smart cradle.
- 4 Scan the **Quick Pair Barcode** on the smart cradle to launch a pairing attempt. The imager will emit a series of clicking sounds, and its link indicator will rapidly blink blue until the pairing process is completed.
- 5 After successful pairing, the imager's link indicator will blink blue in preset intervals, and the smart cradle's link indicator will be active blue.
- 6 The default host interface is **USB HID**, you may switch to your desired host interface by scanning the command barcode below to complete your installation.

The cordless imager works as a generic USB HID keyboard. You can enable the **Data Merge** to get a faster transmission.



The cordless imager works as a serial device via USB interface.



The cordless imager works as a standard RS232 serial device.



Work with Bluetooth Direct Link

FuzzyScan imagers can work with remote Bluetooth hosts via Bluetooth directly. Choose **HID** or **SPP** mode for Windows, Linux, or Android devices. For macOS or iOS devices, only **HID** mode is available. Please follow the procedures below to pair the imager with your desired Bluetooth host.


- 1 Select your desired Bluetooth link mode, then scan the corresponding command barcode. Your imager will enter the discoverable state.
- 2 After successful pairing, the link indicator of imager will blink blue in preset intervals.

The cordless imager works as a generic Bluetooth Keyboard. You can enable the Data Merge to get faster transmission rate.



The cordless imager works as a serial device via Bluetooth radio interface.

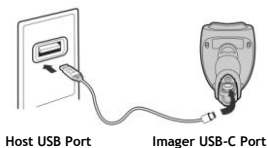


 To use the Bluetooth SPP Master mode, please refer to the User Manual.

Work as a USB Coded Imager

The wireless charging model can work as a USB corded imager by following the procedures below.

- 1 Plug a USB-C connector of USB cable into the USB-C port at the bottom of the Wireless Charging imager.
- 2 Connect the USB cable to your desired Host USB Port.
- 3 Scan “**Enter Corded Mode**” command barcode to switch the imager to corded mode.
- 4 Scan “**Exit Corded Mode**” command barcode to switch back to the cordless mode.



USB Keyboard Interface Settings

For USB Keyboard Interface (USB HID), the imager is preset to US keyboard output. You can scan the corresponding command barcode below to select your desired country keyboard layout.

Keyboard Country Layout



USA ▲ (QWERTY)



Latin America (QWERTY)



UK (QWERTY)



France (AZERTY)



Netherlands (QWERTY)



Japan (DOS/V)



Germany (QWERTZ)



Canadian French
(QWERTY)



Denmark (QWERTY)



Czech (QWERTY)



Spain (Latin America)



Italy (QWERTY)



Norway (QWERTY)



Portugal (QWERTY)



Iceland (QWERTY)



Thai (Kedmanee)



Sweden/Finland
(QWERTY)



Arabic101 (QWERTY)



Vietnamese (QWERTY)



Swiss German
(QWERTY)



Russian



Russian (Typewriter)



Belgium (AZERTY)



Universal

If the “Universal” layout is selected, the scanned data will be sent as a sequence of “Alt Code” outputs. Please note that the “Universal” layout only works properly under Microsoft Windows hosts.

Keyboard Record Suffix



NONE



RETURN ▲



SPACE



TAB

Serial Interface Settings

Serial Record Suffix



None



LF



CR ▲



TAB



SPACE



CRLF

Baud Rate RS232 Serial models only



230.4K BPS



38.4K BPS



9600 BPS ▲



115.2K BPS



19.2K BPS



2400 BPS

Data Frame RS232 Serial models only



8, None, 1 ▲



8, Odd, 1



8, None, 2



8, Even, 1



7, Odd, 1



8, Space, 1



7, Even, 1



7, Space, 2



7, Even, 2

Use Your Imager

Online Scanning

”Enable Out-of-range Scanning” allows barcode scanning while the imager is out of radio coverage range. All scanned data will be temporarily stored in the memory buffer and automatically transmitted to the host once the imager is back in radio coverage range.



Enable Out-of-range Scanning



Disable Out-of-range Scanning ▲

Batch Scanning

In Batch Scanning, data is stored in memory and will only be sent to the host after you scan the “Transmit Stored Data” command barcode below.



Enter Batch Scanning



Exit Batch Scanning



Transmit Stored Data

Validation Scanning

Validation Scanning checks whether the scanned data matches the registered master data. You will hear 3 short beeps when entering or exiting Validation Scanning mode. The status indicator will blink green in preset intervals to indicate that the imager is under Validation Scanning.



Enter Validation Scanning



Exit Validation Scanning

Operation Modes

FuzzyScan support various operation modes. The details of each operation mode are listed below for reference.

When **Trigger Mode** is selected, the imager goes into standby after each reading for power saving. Press the trigger to perform scanning process.



When **Multiple Read Mode** is selected, press and hold the trigger to scan multiple barcodes. The imager beeps after each good read.



When **Presentation Mode** is selected, the imager's background lighting will be turned on for barcode detection. The aimer, illumination and scanning process will be launched when the imager detects a barcode.



System Commands

System command barcodes are used for specific system requirements. Scan the command barcodes below to access the corresponding functions.



System Information



PowerTool Host Link



Save User Defaults



User Defaults



Factory Defaults



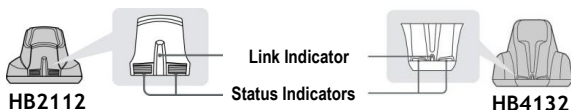
Uninstall

Status & Indications

Cordless Imagers

Connection Status	Link Indicator	Beep
Radio connected	1 Blue blink per 2.5 sec.	Off
Radio disconnected	3 Blue blinks per 2 sec.	Off
Radio connection attempt	Quick Blue blinks	Short clicks
Radio connection built	1 Blue blink per 2.5 sec.	4 beeps in ascending tone
Radio connection lost	3 Blue blinks per 2 sec.	4 beeps in descending tone
Data Transmission	Quick Blue blinks	Short clicks
Imager Status	Status Indicator	Beep
Charging (on cradle)	Active Red	Off
Fully charged (on cradle)	Active Green	Off
Batch scanning	1 Green blink per 2.5 sec.	Off
Validation scanning	1 Green blink per 2.5 sec.	Off
Pair failure	3 Blue blinks per 2 sec.	Off
Out of memory	2 Red blinks	2 long beeps
Low battery	Red blinks at regular intervals	Beeps at regular intervals
Extremely low battery	1 Red blink	8 beeps
Good read	1 Green blink	1 good read beep
Under configuration	Active Red	Off
Uninstall state	Red and Green blinks	Off
Upgrading state	Active Red	Short clicks
Time-out warning	Off	3 long beeps
Paged by Smart Cradle	Off	6 paging beeps
Radio-off / Battery no power	Off	Off
Power off	Off	Off

Smart Cradle



PWR : Power Indicator
STS : Status Indicator
LNK : Link Indicator
LAN : LAN Indicator
[⚡] : Charging Indicator

HB2112 & HB4132

Item	State	HB2112		HB4132		
		Link	Status	Link	Left S.	Right S.
Power on	O / C	B x 1	Off	B x 1	Off	G x 3
Upgrade state	O / C	Off	R	Off	R	R
Uninstall state	O / C	Off	RG	Off	RG	RG / G
PAIR Mode						
Connected	O / C	B	Off	B	Off	Off / G
Disconnected	O / C	Off	R	Off	R	R / G
PICO Mode						
Connected	O / C	B	Off	B	Off	Off / G
Disconnected	O / C	Off	R	Off	R	R / G

R: Active RED

G: Active GREEN

B: Active BLUE

R: Blinking RED

G: Blinking GREEN

B: Blinking BLUE

RG: Blinking RED & GREEN

O: Operation **without** battery charging

C: Operation **with** battery charging



Wireless Charging Error: The right status indicator of HB4132 blinks continuously.

HB8133

Item	Link Indicator	Status Indicator
Upgrade state	Off	Active Red
Uninstall state	Off	Red and Green blinks
PAIR Mode		
Connected	Active Blue	Off
Disconnected	Off	Active Red
PICO Mode		
Connected	Active Blue	Off
Disconnected	Off	Active Red

LAN Indicator	
Off	No LAN connection
Active Green	LAN link established
Blinking Green	Communication in progress (TX / RX events occurred)
Charging Indicator	
Blinking Green x 3	Power on
Active Green	Battery charging
Blinking Green	Wireless charging error



When HB8133 is powered on, the power indicator will be active blue.

FuzzyScan Bluetooth Cordless Scanner Quick Start Guide
International Edition, Rev. D1



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