Bluetooth Version FUZZYSCAN FAMILY Quick Start Guide

-LESS SCANNER



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About This Guide

Thank you for choosing Cino's FuzzyScan cordless handheld imagers. Powered by Cino's exclusive imaging technology, rich features, and Bluetooth connectivity, these imagers not only provide outstanding reading performance, but also boost 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

ID F898BT

1D & 2D Imagers
1D & PDF Imagers

700 Series Enterprise Cordless Imagers

- A798BT, A798BT HC, A790BT, A790BT HC, A788BT, A788BT HC, A780BT, A780BT HC, A778BT, A770BT
- F788BT, F780BT, L788BT, L780BT, F788BT HC, F780BT HC, L788BT HC, L780BT HC

600 Series Commercial Cordless Imagers

- 20 A698BT, A690BT, A688BT, A680BT, A678BT, A670BT
- D F688BT, F680BT, L688BT, L680BT
- Healthcare (HC) models are indicated with "HC".
- Wireless Charging models are indicated in "Gray".
- ▶ UltraCap[™] Battery-free solution is available for all imagers.
- Direct-Part-Marking (DP), Ultra-High-Density (XD), High-Density (HD) and Standard-Range (SR) models are available on each corresponding imager. Please visit <u>www.cino.com.tw</u> for details.

Applicable Kits

FuzzyScan cordless handheld imagers are available in various sales kits with corresponding interface cables and accessories.

Useful Features

To enhance user experience and usability, FuzzyScan handheld imagers provide a collection of unique features called **FuzzyScan DNA**, including DataWizard, iCode, Multilingual Edge, Smart Scene and Security Plus.

For 800 series and healthcare (HC) models, a built-in vibration function is enabled by default to provide tactile feedbacks. An optional vibration function is also available for other handheld imagers.

Getting Familiar with Your Imager

800 Series Wireless Charging

A898BT, F898BT



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



A678BT, F688BT, L688BT

A698BT, A688BT



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Link Indicator	Scan Window
Status Indicator	Beeper
7 Reset Button	USB-C Port
Screw Hole	End Cap Cover



HB4132 Wireless Charging Smart Cradle



600 & 700 Series Contact Charging

A790BT, A780BT, A770BT



A690BT, A680BT



F780BT, L780BT



A670BT, F680BT, L680BT

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Preparations before Use

Installing the Battery or UltraCap[™]



2 Seal the cavity with end cap and tighten it using the provided screw.

Charging Your Imager

Prior to the initial use, charge the battery for 4 hours or UltraCap $^{\rm TM}$ for 50 minutes respectively.



Connect the power supply unit to the electrical outlet, then plug the DC power cord into the cradle's DC jack.

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.

Working 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.

Pairing Your Imager with Smart Cradle

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



- 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.
- 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.
- Scan the Quick Pair Barcode on the smart cradle to activate 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.
- 6 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.



Working 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.

- Select your desired Bluetooth link mode, then scan the corresponding command barcode. Your imager will enter the discoverable state.
- 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.

Working as a USB Corded Imager

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

- 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.
- Scan "Enter Corded Mode" command barcode to switch the imager to corded mode.
- Scan "Exit Corded Mode" command barcode to switch to cordless mode.



Host USB Port

Imager USB-C Port





Using Keyboard Interface

By working with the smart cradle, you may switch you cordless imager to work as a generic Bluetooth keyboard via USB HID Mode. You can enable Data Merge through USB HID Turbo Mode to get a faster data transmission.



Keyboard Record Suffix





ENTER (Numeric Keypad)





USB HID Turbo Mode

RETURN A

Keyboard Country Layout





France (AZERTY)





Japan (DOS/V)











Keyboard Country Layout continued





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.

Multilingual Edge 2D Imagers Only

With **Multilingual Edge**, FuzzyScan imagers can output data in multiple different languages. For more details on comprehensive multilingual support, please refer to the **FuzzyScan Barcode Programming Manual**.

Using Serial Interface

By using the corresponding cable with smart cradle, you may switch your cordless imager to work as a serial device via USB COM or RS232 Serial.



Serial Record Suffix









Baud Rate RS232 Serial models only







Data Frame RS232 Serial models only











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Using Your Imager

Operation Modes

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

When **Trigger Mode** is selected, press the trigger to scan the barcode. Press the trigger again to perform the next 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 preset background lighting of the imager will turn on for barcode detection. The scanning process will automatically activate upon detecting a moving object within its field of view. Press the trigger to switch to Trigger Mode.







System Commands

System command barcodes are used to perform specific system functions. Scan the command barcodes below to perform the corresponding functions.

Show all details of your cordless handheld imager and smart cradle.

Change configurations to user default settings.

Restore programmable configurations to factory default settings.

Save user-defined configurations as user default settings.

Connect your cordless imager to the Cino PowerTool software utility for firmware upgrades, configuration setting and other advanced settings.











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.





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.







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.





iTune

For Direct-Part-Marking (DP) and Ultra-High-Density (XD) models, the **iTune** is a smart-tuning function for optimization of readability. Scan the **"Enable iTune"** command barcode to activate the tuning process. The tuning result will be automatically saved and applied to the proceeding scanning processes. If you want to restore to factory preset settings, scan the **"Clear iTune"** command barcode accordingly. For more details, please refer to the user manual.





Status & Indications

Cordless Imagers

Connection Status	Link Indicator	Веер	
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	Веер	
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





Status Indicators



HB8133







- STS Status Indicator
- LNK Link Indicator
- LAN Indicator
- (4) Charging Indicator

HB2112 & HB4132

ltem	State	HB2112		HB4132		
		Link	Status	Link	Left S.	Right S.
Power on	0/C	B x 1	Off	B x 1	Off	G x 3
Upgrade state	0/C	Off	R	Off	R	R
Uninstall state	0/C	Off	RG	Off	RG	RG / G
Charging error	0/C	N/A	N/A	N/A	N/A	G
PAIR Mode						
Connected	0/C	В	Off	В	Off	Off / G
Disconnected	0/C	Off	R	Off	R	R/G
PICO Mode						
Connected	0/C	В	Off	В	Off	Off / G
Disconnected	0/C	Off	R	Off	R	R/G

R: Active RED G: Active GREEN R: Blinking RED

G: Blinking GREEN

B: Active BLUE

B: Blinking BLUE

RG: Blinking RED & GREEN

O: Operation without battery charging

C: Operation with battery charging

HB8133

ltem	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	Charging error				

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

www.cino.com.tw

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