



FUZZYSCAN F680BT

1D Cordless Imager



Bluetooth imager designed to provide exceptional mobility and performance

F680BT blends Cino's exclusive imaging technology with the wireless mobility afforded by Bluetooth. It delivers superior reading performance on a vast array of 1D barcodes and stacked symbologies. When paired with the smart cradle, this imager offers a cordless working range of over 100 meters. Whether it is scanning items on a counter or checking inventory status around the depot, F680BT will help workers get the job done with stellar efficiency.

- Integrated with the latest Bluetooth wireless technology
- Smart cradle offers radio coverage of over 100 meters
- Works with most Android, iOS and Windows mobile devices
- Batch Scanning for simple stocktaking
- Supports PDF417 and Composite Codes
- Reads various challenging and problematic barcodes
- Withstands drops from 1.8m to concrete
- Clear audio and visual feedback
- Optional vibrator for quiet or noisy environments
- Configuration can be done through iCode
- Advanced data formatting with DataWizard Premium
- System security development using DataWizard Premium

Wireless Convenience

Movement and Compatibility

Embedded with Bluetooth technology, the F680BT provides cordless mobility and the freedom of movement required by many applications. It can also be easily paired with the majority of popular Bluetooth devices, including Windows, iOS and Android phones. Connection can be made under HID or SPP mode.

The Cradle Advantage

The F680BT can be paired with Cino's smart cradle, which is Bluetooth-enabled with a coverage distance of over 100 meters. The latter can serve as an instant plug-and-play cordless solution if your host device lacks Bluetooth capabilities.

Under PICO mode, the smart cradle can support up to 7 scanners at once. This allows you to centralize the data transmission process, gathering multiple connections on a single cradle.

Practical Features

"On-the-Spot" Data Transmissions

Under "Online Scanning", F680BT sends barcode data to its host device immediately after each scan.

If "Out-of-range scanning" is also enabled, this imager will store up to 5,000 scans of EAN barcodes when it loses radio connection with the host device. Upon reconnection, the imager will automatically send out all stored data.



Retail



Commercial



Hospitality

Efficient Stocktaking

“Batch Scanning” can be selected for inventory work. Barcode data is kept in the imager and will only be sent, as a batch, to the host device when you activate transmission.

80,000 scans of EAN barcodes can be stored in the imager under this mode. Quantity value and time-stamp may be added to data immediately following capture.

Data Verification Made Easy

“Validation Scanning” enables the imager to record master data. The latter is then compared to information that is subsequently read. Should they not be a match, the imager will issue warning beeps. This mode facilitates validation tasks in warehouses and factories, such as verifying the uniformity of items in a lot.

Power that Lasts

F680BT incorporates an advanced power management system that maximizes the number of scans per charge. Depending on usage, a full charge may be sufficient for a whole day’s work. Battery status indications are available to help you focus on the tasks at hand, and not on the next recharge.

Scan All Your Needs

Tackle Stacked Symbolologies

F680BT is designed to scan a vast array of 1D and stacked symbolologies, whether displayed on paper, plastic or electronically. Stacked-linear barcodes that can be read by the scanner include PDF417, GS1 Databar Stacked, and composite codes.

Ready for Challenges

Empowered by the FuzzyScan imaging platform, this scanner is primed to read various challenging and problematic barcodes. For example, poor quality, distorted, dirty, damaged, and overwrapped barcodes, as well as electronic barcodes on dimly-lit displays.

One Tool for Different Jobs

F680BT delivers superior readings on high-density barcodes, in addition to exceptional scan range on regular barcodes. Its high performance and capabilities make it a versatile scanner that is well-suited for diverse applications.

Enhanced User Experience

Sharp Aimer for Rapid Targeting

The scanner’s sharp LED beam helps users aim faster and with greater accuracy. F680BT also projects a bright red illumination that allows for rapid barcode captures, even under low ambient lighting.

Clear Audio and Visual Feedbacks

This barcode scanner contains a programmable beeper with adjustable sound volume. Its LED lights provide conspicuous, multi-color indications. Along with the optional vibrator, these sensory feedbacks work in concert to promote a greater scanning experience.

Optional Vibrator for Quiet or Noisy Environments

An optional vibrator is available, offering tactile confirmation of good reads. It is ideal for places where the scanner’s beeps might be disruptive, such as a library or in hospital rooms where patients are resting. Vibrations may also be preferable in environments where beeping sounds may be drowned out by loud noises, e.g. manufacturing plant.



Unique DataWizard Premium

Ergonomic, Stylish and Robust

F680BT merges style and ergonomics without compromising durability. The handle provides a natural grip that minimizes user fatigue during repetitive tasks. Its smooth outline is aesthetically pleasing and sure to complement professional decors. Furthermore, this imager's robust housing allows it to withstand 1.8-meter drops to concrete, offering a high degree of protection.

Value Beyond Measure

Simplified Configuration Process

The iCode is a configuration barcode. It can be embedded with more than one command, thereby enabling the simultaneous change of numerous parameters. Instead of configuring their Cino imagers with multiple barcodes, users can achieve the same results with a single iCode.

Simply choose your desired settings in the FuzzyScan PowerTool, and click on the "iCode" button to generate a comprehensive barcode that embodies them all.

Customized Functionalities

DataWizard Premium lets you write data or security scripts which can then be used to program Cino scanners for customized tasks. The script language is similar to BASIC and easy to learn for experienced programmers.

This exclusive feature is included in the FuzzyScan PowerTool and offered to Cino clients without extra charge.

Advanced Data Formatting

Through data scripts, your scanners can be programmed for intricate formatting duties that would otherwise be assigned to the host device. For example: parsing raw data from driver licenses, adding preambles or postambles, and more.

System Security

Set your host system to prompt scanners for a validation key before allowing connection. Develop a security script containing the validation key and install this script on approved scanners. This will prevent random scanners from accessing the host system.

SPECIFICATIONS

Performance Characteristics

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|---------------------|--|
| Optical System | High performance linear imaging engine |
| Print Contrast | 15% minimum reflective difference |
| Light Source | 630nm LED |
| Minimum Resolution | 3 mil (Code 39, PCS 0.9) |
| Reading Range *1 | 13 mil (0.33mm) UPC/EAN up to 24" 20 mil (0.5mm) Code 39 up to 34" |
| Scan Rate | Dynamic scanning rate up to 500 scans per second |
| Reading Direction | Bi-directional (forward and backward) |
| Pitch / Skew / Tilt | ±65° / ±65° / ±55° |
| Operating Modes | Trigger, Presentation |
| Configuration Setup | Command barcodes iCode FuzzyScan PowerTool |
| Data Editing | DataWizard Premium |
| User Interfaces | Blue link indicator and 2-color status indicator Programmable beeper Optional vibrator |

Electrical Characteristics

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|-----------------------|---|
| Battery | 3.7V, 2600mAh Li-ion rechargeable battery |
| Battery Charge Time | Approx. 4 ~ 5 hours per full charge |
| Scans per full Charge | More than 126,000 scans and transmissions |
| Operating Voltage | 5VDC ± 10% |
| Operating Current | Charging: Max.680 mA Standby: Max.85 mA (Scanner with Smart Cradle) |

Communication Characteristics

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

Physical Characteristics

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|------------|--|
| Dimensions | 97.0 mm (L) x 65.0 mm (W) x 156 mm (D) 3.81 in. (L) x 2.55 in. (W) x 6.14 in. (D) |
| Weight | 198g (Battery included) |
| Color | Light Gray or Black |

Supported Symbolologies

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|-----------------|--|
| 1D Linear Codes | Code 39, Code 39 Full ASCII, Code 32, Code 39 Trioptic Code 128, GS1-128, Codabar, Code 11, Code 93 Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5 German Postal Code, China Postal Code, IATA UPC/EAN/JAN, UPC/EAN/JAN with Addendum Telepen, MSI/Plessey & UK/Plessey GS1 DataBar (formerly RSS) Linear & Linear Stacked. |
| Linear-stacked | PDF417, Micro PDF417, Codablock F, Composite |

User Environment

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|------------------------|---|
| Drop Specifications | Withstands multiple drops from 1.8m (6.0ft) to concrete |
| Environmental Sealing | IP42 |
| 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% relative humidity, non-condensing |
| Ambient Light Immunity | 0 ~ 100,000 Lux |
| ESD Protection | Functional after 15KV discharge |

Safety & Regulatory

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|---------------|--|
| EMC & Radio | CE, FCC, BSMI, RCM, KC, NCC, VCCI, MIC |
| Safety *2 | LED Eye Safety IEC62471, Exempt Group |
| Environmental | Compliant with RoHS directive |

Accessories

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|--|---|
| Smart Cradle RF Standard: Battery Charging: User Interfaces: | Bluetooth v4.0 Fast charge 1 blue link indicator 2-color status indicator Beeper, Paging / Reset button |
| Host Interface: | USB HID (USB Keyboard) USB VCOM (USB COM port emulation) Standard RS232 |
| Charging Cradle Battery Charging: User Interface: | Fast charge 1 blue power indicator |
| Interface Cables | RS232 Serial Cable USB Cable |
| Others | SD112 Bluetooth Smart Dongle 5VDC Power Supply Unit BT2100 Battery Pack (2600mAh) US100 SmartStand US50 Hand-free Stand Universal Holder |

1. The Reading Range are measured under Cino's test environmental condition.
2. Don't stare into the LED beam.

