BT49i Series

BT-49i series

Tiny barcode scanner Series

3-in-1 scanner with drop-in-pocket design

The Great Mix of Elegant design and Innovative Functions

B irch has been providing barcode scanner products, development and service for nearly 20-year long. Barcode scanner normally consists of Optical module and Decoder board. With Birch expertise, we release new "BT" series. "B" stands for "BIRCH" and "T" stands for "Tiny, Turbo and BlueTooth".

We've got what you need

As barcode symbologies and AutoID integrated solution application become more and more popular, then Usre's Friendly and Computerized automation are the must for the market. Wireless barcode readers are one of the major products for this solution.

☑ **BIRCH** user's friendly design
- Wireless scanner
- Memory scanner
- USB cable scanner

☑ **TINY** size to "drop-to-pocket"
- 89 mm (L) x 40mm (W) x 17.5mm (H)
- Ergonomic and light weight design offer maximum comfort for every day use

☑ **TURBO** speed decoder at 250 scans/second
- Support REAL TIME decoding for barcode output

☑ **BlueTooth** Class 1 wireless communication
- Built with Bluetooth SPP to connect with notebook directly without dongle
- Standard with USB HID dongle
- Supports iPhone, iPad

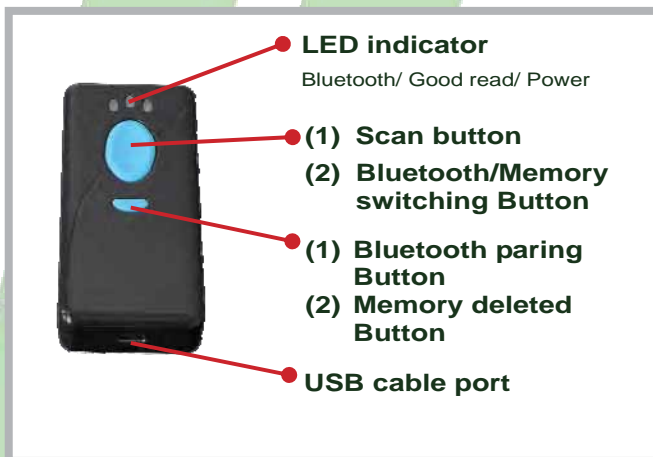**BIRCH**®

Birch Tiny Turbo Blutooth series

BT-49 WIRELESS + MEMORY + USB CABLE SCANNER

[Close & long!]
Linear imager & Long range CCD

With years of experience in AUTO-ID and optical development, BIRCH CCD series not only target for retailing (POS) market but also for special requirement of industrial used CCD. BT-49 series integrated

three kinds of scanner in one body: wireless scanner, memory scanner and USB cable scanner. It built with

industrial CCD scanner for turbo scanning speed, decoding speed and reading accuracy, as well as some design for special consideration for industrial environment. However, you can have the option for Opticon Laser scanner module. The BT-49 series is your best choice for easy carry, mobile-ability and industry use scanner.

LED indicator
Bluetooth/ Good read/ Power

(1) Scan button
(2) Bluetooth/Memory switching Button

(1) Bluetooth paring Button
(2) Memory deleted Button

USB cable port

BIRCH'S USER'S FRIENDLY

■ **THREE-IN-ONE**-----Just one BT-49 series scanner to meet a wide variety of business needs for wireless, cordless, memory data collection and USB cable scanner.

■ **ONE HAND OPERATION**----Bluetooth and Memory mode interchangeable directly without manual programming. You just need to press the scan button for more 8 seconds to hear beep sound to change the operating mode from Bluetooth to Memory or from Memory to Bluetooth. Optional for iPhone, iPad and Android supported model; which supports directly wake up virtual keyboard on iPhone, iPad by delete button.

■ **BLUETOOTH CLASS 1**---- It supports to communicate

with system directly without dongle. Bluetooth Class 1 supports up to 100M communication distance in the open space.

■ **USB HID dongle**
----Standard with USB dongle which supports USB HID (PnP, plug and play).

■ **FLEXIBILITY**----BT-49 series supports "Firmware" upgradable at user's side, which helps you to keep up with the latest firmware for better reading performance.

TINY SIZE AND MOBILABILITY

■ **BARCODE READING AND COLLECTIONG. SMART CARRY**----The ergonomic and "drop-in-pocket" design make you carry mart. The smallest size (89 mm L x 40mm W x 17.5mm H) and lightweight for your ALL-DAY and EVERYDAY use. <Wireless> + <Cable> + <Memory> all-in-one.

■ **LONG TO GO AND LONG TO USE**----BT-49 series is the low power consumption scanner built with rechargeable Li-polymer battery, which supports 72 working hours (15,000 scans) with full charge battery under

normal operation. Charged by USB cable and it takes Maximum 1.5 hour for battery recharge.

Drop-in-pocket design to carry smart

BIRCH

COMPREHENSIVE & PROFESSIONAL FUNCTIONS

BT-49 series make you feel ease with simple operating for professional application.

■ **MEMORY WITHOUT LIMIT**----Built with 128K memory and you can easily change the operation mode to memory for the distance is beyond for Bluetooth technology reach distance. it allows to store 4,500 records of EAN 13 code with "Time Stamp" *with varied format for option.*

TURBO SPEED AND FLASH DECODING

■ **INDUSTRIAL LEVEL DECODER**---- BT49 series is built-in highest performance optical module and decoder to meet most of working applications, discriminate all of barcode symbologies including EAN 128 code, fully RSS code, and GS1 Databar. It equips with a 200% auto-correction algorithm decoder for reading poor quality barcode. It makes the reading more easily.

■ **INDUSTRIAL LEVEL OPTICAL**----BT-4910i is built with industrial level long range linear imager optical supporting 250 millimeters reading distance;

optimized to read small high density barcodes up to 4 mil resolution, 0.45 PCS value. You can also have the option of Opticon laser engine for special project running.

■ **REAL-TIME BARCODE READING & DECODING**----32 bit CPU and up to 250 scans/second with real time decoding. BT-49 series offers quick and accurate data capture; that increases the efficiency on your factory floor control and speeding in manufacturing process.

Scan map: BT-4910i

Scan map: BT-4920i

Birch recommendation:

BT-49 series is the good option for your project. You can have following options for project base:

---- Bluetooth Class 2 wireless technology (10M)   *----Vibration function*

----Different laser module (Symbol or Metrologic)   *----Zibi function*

The Birch, BT-49i series tiny wireless scanner makes your mobile and portable application better and easier.

The Birch, BT-49 series tiny wireless scanner

Model		BT-49i Tiny Mobile Scanner	
		BT-4910i	**BT-4920i**
Reading Performance	**Processor**	32 bit CPU	
	Reading Code	Code 11, Code-32, Code 39, Code 93, Code 128, UPC-A, UPC-E, JAN/EAN/UPC Add-on, EAN 128, EAN 13, EAN 8, Codabar/Nw7, INT 25, Industrial 25, Matrix 25, Interleaved 25, UK/ Plessey, MSI/Plessey, Telepen, fully RSS code, GS1 Databar	
	Resolution	4 mil (Code 39, 9 digits, PCS : 0.9)	5 mil (Code 39, 9 digits, PCS : 0.9)
	PCS Value	$\geq$0.45	$\geq$0.45
Optical	**Scan Engine**	630nm Red LED LAMP, Linear CCD Image Sensor	650nm Visible Laser Diode (Opticon engine)
	Depth of Field	220mm	350mm
	Read Sensor	Linear imager sensor	Visible Laser sensor
	Scanning Rate	250 Scans/Second (Real time decoding)	100 Scans/Second (Real time decoding)
	Reading Indicator	Green LED and buzzer	
	Beep indicator	Buzzer can be disable or enable by program	
Communication	**Wireless**	2.4Ghz Bluetooth Class I (100M in open environment) (supports iPhone and iPad for direct Bluetooth connection without dongle)	
	Memory	BT-4910i/ BT-4920i: 128K (approx 4,500 PLU with time stamp)	
	Cable	Via USB cable (for barcode scanning and battery recharging)	
Battery	**Battery type**	Rechargeable Li-polymer battery , 3.7V, 420mAH	
	Battery charge	Charged by USB cable, Max. 1.5 hour recharging time	
	Battery durability	15,000 scans (Approx 72 working hours with full battery by normal operating)	
Physical Characteristics	**Keys**	2 keys (1 for scan; 1 for clear data)	
	LED indicator	3 LEDs: 1 LED (Green and Orange) for good read or memory full 1 LED (Red) for low battery notice 1 LED (Blue) for wireless communication on-line status	
	Dimension	89 (L) x 40 (W) x 17.5 (H) mm	
	Weight	Approx 75g	Approx 85g
	Color	Black or White	
User Environment	**Temperature**	Operation : -10 ~ 40 ℃ ; Storage: -20 ~ 65 ℃	
	Humidity	10%-90%RH	
	Operation system	Windows XP/2000/Vista/ Windows 7	

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