

BS-770

# BS-770 Series

Large Screen Omni-Directional Laser

2400-Scan, 24-Interlocking Light, 7-Direction

**Your Smart Choice for Point-Of-Sale**



## 1. Hand Free Omni-directional laser scanner

Birch released the high performance Omni-directional laser scanner which built with large scanning screen offering more users' friendly operating and Birch expertise in barcode field. BS-770 allows the users to adjust the proper operational height and scanning forward, backward and left or right with the universal stand.

## 2. Universal Installation

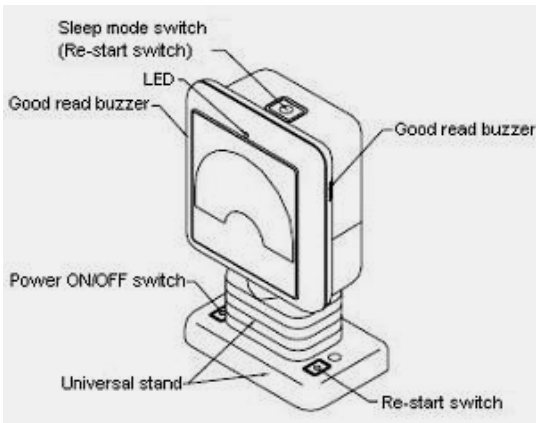
BS-770 can be used as the stand and flatbed scanner for desk-top hand free operation. The small footprint saves the valuable counter space. The easy use ergonomic design maximizes operator efficiency.

## 3. Professional Performance

BS-770 has the features of 7 direction scan field, 24 interlocking light, 2,400 scans/sec. It designed with programmable "Sleep Mode" to ensure longer VLD lift and reducing operating cost. If the scanner is not used within a programmable period of time, the scanner will turn off automatically. The users just press the switch on button on the top of the scanner or on the stand to wake the scanner up directly.

## 4. Multiple Interface and professional decoder

BS-770 supports multi-interface communication, Keyboard, RS232 and USB; and build in flash memory can update firmware via serial communication. The decoder is available for most all-popular 1D barcode symbologies.



### Ordering Information:

BS-770M: Large screen omni directional laser scanner, PS2 cable

BS-770R: Large screen omni directional laser scanner, RS232 cable

BS-770U: Large screen omni directional laser scanner, USB cable



## Technical Specifications

**Model** BS-770 series

### Optical

**Width of Window** 128mm @ 200mm of depth

**Numbers of Scan Light** 24 lights

**Scanning Speed** 2,400 scans/ second

**Scanning Pattern** 7 directions of scan field

**Light Source** 650nm Visible Laser Diode

**Depth of Field** 200mm

**Ambient Light** 4,000 Lux Max.

**Indicators** Two color LED (Red & Blue)

### Reading Performance

**Resolution** 5 mil @ PCS 90%

**PSC** 0.4 @ UPC/EAN 100%

**Symbologies** UPC/EAN/JAN, UPC/EAN with supplementary, JAN 8 & JAN 13, ISBN/ISSN, Japanese Bookland EAN, Code 39, Code 39 with full ASCII, trioptic Code 39, Codabar (NM7), Code 128, Code 128 with full ASCII, Code 93, Interleaved 2 of 5 (ITF), Addendum, 2 of 5, MSI/Plessey, China Postal Code, Code

32, IATA Code, Industrial 2 of 5, Standard 2 of 5, Discrete 2 of 5, Matrix 2 of 5, Code11, UPC/EAN RSS, RSS Variants

### Electrical

**Interface** RS232, KB, USB

**Connector** RJ45

**Voltage** DC +9V

**Operating Current** 450 mA

**Power Supply** Input: 100-240V, 50-60Hz, 0.5A

Output: 9V, 1.0A

### Environment

**Operating Temperature** 0°C – 40°C (32°F – 104°F)

**Storage Temperature** -20°C – 60°C (-4°F – 140°F)

**Relative Humidity** 5% – 95% RH (non-condensing)

### Physical

**Material** ABS Plastic

**Weight** 1,000g (without cable)

**Title Angle** ± 10 degree

**Dimension** 150 (L) x 90 (W) x 255.25 (H) mm with stand

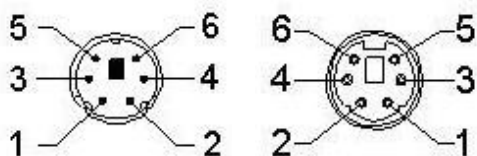
### Durability

**Drop test** 100cm (40inch) Drop on Concrete Surface

## PIN ASSIGNMENTS

### Keyboard interface

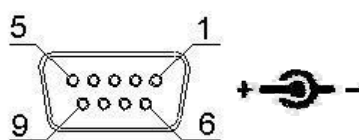
Mini DIN 6 MALE (TO Host)		Mini DIN 6 FEMAL (TO KB)	
Pin No.	Function	Pin No.	Function
1	DATA	1	KB Data
2	N.C.	2	N.C.
3	GND	3	GND
4	+5V	4	+5V
5	Clock	5	KB Clock
6	N.C	6	N.C



PS2 cable

### RS-232 interface

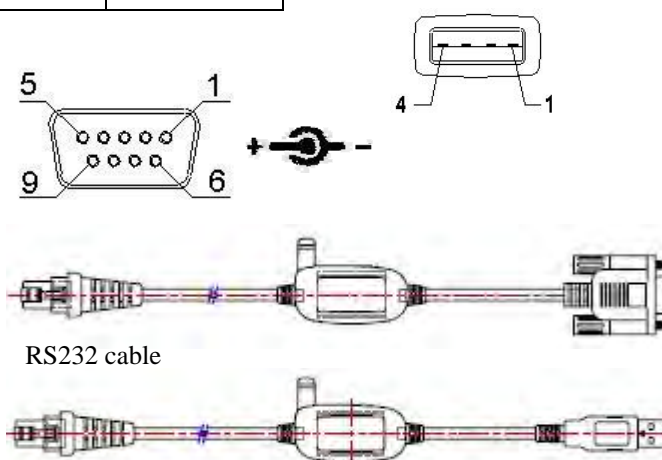
DB 9 Female (TO PC)	
Pin No.	Function
2	TX
3	RX
5	GND
7	CTS
8	RTS



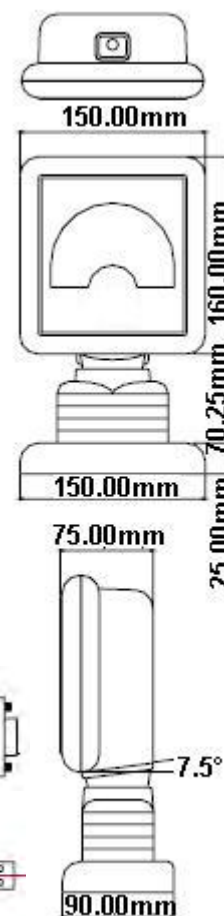
RS232 cable

### USB interface

USB A Type Male	
Pin No.	Function
1	Vcc
2	D-
3	D+
4	VSS



USB cable



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