

# TICODE®

## TI6820xx

### High performance & High protection

### Wireless 2D Barcode Scanner



TI6820HD (High density); TI6820HHD (Ultra High density)

TI6820DP (DPM); TI6820XER (Ultra long depth of field)

TI6820xx is a wireless high performance and high protection 2D scanner based on advanced image decoding and micropower wireless frequency hopping transmission technology. TI6820xx has the highest IP68 protection level, which can be well applied in factories, warehouses, docks as well as the extremely cold and high-humidity working environments. It integrates a megapixel engine and a variety of well-designed lenses and lighting systems, which can scan complex bar codes of the laser carved, scratched and high-density etc. The advanced wireless frequency hopping communication technology ensures that TI6820xx can perform stably even in complicated industrial environment. And it also supports group working, up to 100 scanner handsets with one socket receiver. Therefore, TI6820xx is very suitable for high scanning requirements, high intensity and complex usage environments, like the manufacturing, large warehouses, docks, cold chains and so on.

### Features

- ◆ IP68 proof, can adapt to harsh working environment
- ◆ Excellent decoding ability and ultra-high sensitivity
- ◆ Good at scanning DPM codes, scratched bar codes, highly reflective bar codes, high-density barcodes, miniature barcodes and other difficult barcodes
- ◆ Using adaptive frequency hopping technology, stable data transmission and strong anti-interference ability, even in the harsh industrial environment, it can still be transmitted stably
- ◆ Support group working of multi-clusters, one socket can support up to 100 handsets
- ◆ Good ergonomic design for long-time working
- ◆ Built-in data memory, which can store up to 50,000 bar codes
- ◆ It can be desktop or by wall mounted

### Applications

- ◆ **Manufacturing like in the electronics, Auto and machinery**  
With the megapixel high-resolution engine and a variety of well-designed lenses and lighting systems, TI6820 can read not only all standard 1D and 2D barcodes, but also various difficult barcodes which is commonly encountered in manufacturing process. It can even read laser-engraved barcodes as small as 1~3mm quickly.
- ◆ **Warehousing and logistics**  
It can scan efficiently both in poor-lighted warehouses and also in direct sunlight outdoor. It can also capture codes on a shelf or truck over 10 meters away.
- ◆ **Cold chain and wharf**  
Competent in cold of -20°C and soaked in water
- ◆ **Other occasions with difficult barcodes or complex environment**

# Parameters

Power and Battery	
Voltage	DC5±0.25V
Power	TI6820HD, TI6820HHD: 1.8W(Max) TI6820DP : 2.5W(Max)
Battery	2600mA (standard) ; 3300mA (Optional)
Endurance	On condition scanning every 5secs : TI6820HD, TI6820HHD: can be 24hrs TI6820DP, can work 18hrs
Performance Ability	
Lighting & Aiming	TI6820HD, TI6820HHD: White & Red Lighting, Red LED aiming line; TI6820DP: Auto-switching multi-color LED Lighting, Red laser aiming line
Resolution	Megapixels
Scan Angle	±72°、±72°、360° (Skew、Pitch、Roll)
Contrast	≥20%
Code Resolution	TI6820HD: 1D≥3mil 2D≥4mil TI6820HHD: 1D≥2mil 2D≥3mil TI6820DP: 1D≥3mil 2D≥4mil
Scan Ability	Printed, Sprayed, DPM, On-screen
Code Types	<b>2D:</b> QR Code, Micro QR, Data Matrix, PDF417, Micro PDF417, Aztec, Maxicode <b>1D:</b> UPC-A, UPC-E, EAN-13, EAN-8, ISBN/ISSN, code 39, Code 39 (Full ASCII), code 32, Interleave 2 of 5, Industrial 2 of 5, Matrix 2 of 5, IATA 25, Codebar, Code 128, Code 93, Code11 cMSI/Plessey, UK/Plessey, UCC/EAN 128, Composite Code -A/B/C, GS1 DataBar (RSS) etc

Communication Method	
Wireless	433MHz wireless or Bluetooth
Contact Radius	Up to 400 meters for 433MHz; 50meters for Bluetooth
Group Work	A socket can support up to 100 handsets at the same time
Interface	USB-HID, USB-COM, P/S2、RS232
Trigger Mode	Manual, Consecutive Scanning, Auto-sensing
Cable Length	Standard: 2 meters USB cable
Alert Mode	Buzzer (volume and tone adjustable), LED light, vibrator
Material & Environment	
Shield Materials	Bi-color: ABS+PC/TPU; Single: ABS; Transparent: PC ; Waterproof ring: Silica gel
Scan Window	Scratch-resistant toughened glass
Temperature	-20°C~55°C (Working) -40°C~70°C (Storage)
Humidity	5%~95% (Non-condensing)
Luminance	0~100,000LUX
Dust & Water Proof	Scanner: IP68; Socket: IP52
Shock Proof	Withstand multiple drops from 2 meters to concrete surface
Setting Method	Scan setting barcodes / press button on socket
Security Certification	
certification	CE, FCC-ID, ROHS
Others	
Optional Accessories	RS232 cable, Power adapter, P/S2 cable, 5 meters USB cable

**Guangzhou TiCODE Electronics Technology Ltd.** <https://www.ricodescan.com/>

**National High-Tech Enterprise**

**Professional solution provider and manufacturer of Barcode Scanner**

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