TICODE®

TI2820xx

High performance & High protection
Wired 2D Barcode Scanner

TI2820HD(High density)；

TI2820HHD (Ultra high density); TI2820DP (Difficult DPM)

TI2820xx is a 2D scanner with high-performance, high-protection. It's based on advanced image decoding technology and dynamic blur decoding technology. TI2820xx has got the highest IP68 protection level for industry, it can work quite well no matter it is in a factory, a warehouse, a wharf, or a working environment with high cold and high humidity. It integrates a megapixel engine and several well-designed lenses and lighting systems. So it can scan many complex barcodes like the laser-engraved, worn or scratched, the high-density barcodes. Therefore, TI2800xx is quite suitable for occasions with high requirements, heavy scanning load, and complex use environments, such as manufacturing, large warehouses, docks, cold chains, etc.

Product features

◆ Excellent scanning performance, can scan 1D and 2D barcodes of any density

◆ Good at scanning DPM engraved barcodes, worn barcodes, highly reflective barcodes, high-density barcodes, micro barcodes and other difficult barcodes

◆ The industry's highest dust and water proof – IP68, which can adapt to harsh working environment;

◆ Indestructible body, excellent anti-shock design

◆ Good ergonomic design, good for long-time working;

Application

◆ **Manufacturing, such as electronics, machinery and automobile**

With the megapixel high-resolution engine and a variety of well-designed lenses and lighting systems, TI2820 can not only read any standard 1D and 2D barcodes, but also various difficult barcodes frequently encountered in manufacturing industry.

◆ **Warehousing and logistics**

It can scan efficiently both in poorly lit warehouses and outdoors in direct sunlight.

◆ **Cold chain and wharf**

In cold temperature,TI6820 can be competent

◆ **Other occasions with complex bar codes or complex application**

Parameters

Power	
Voltage	DC5±0.25V
Current	TI2820HD TI2820HHD: 420mA (Max) 　　　　　120mA (Standby) TI2820DP: 450mA (Max) 　　　　　120mA (Standby)

Performance Ability	
Lighting & Aiming	TI2820HD, TI2820HHD：White or Red Lighting, Red LED Aiming TI2820DP：Automatic multi-color LED Lighting, Red Laser Aiming
Resolution	Million pixels
Scan Angle	±70°、±70°、360°（Skew、Pitch、Roll）
Contrast	≥20%
Code Resolution	TI2820HD：1D≥3mil　　2D≥4mil TI2820DP：1D≥3mil　　2D≥4mil TI2820HHD: 1D≥2mil　　2D≥3mil
Scan Ability	Printed、Spraying、DPM、screen code
Code Types	**2D：** QR Code，Micro QR，Data Matrix，PDF417，Micro PDF417， Aztec，Maxicode **1D：** 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， Code11cMSI/Plessey，UK/Plessey， UCC/EAN 128， Composite Code -A/B/C，GS1 DataBar（RSS）etc

Communication Method	
Interface	USB-HID，USB-COM，P/S2，RS232，Ethernet, PROFINET
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℃~55℃（Working） -40℃~70℃（Storage）
Humidity	5%~95%（Non-condensing）
Luminance	0~100,000LUX
Dust & Water Proof	handset：IP68
Shock Proof	Withstand multiple drops from 2.5 meters to concrete surface
Setting Method	Scan setting barcodes

Security Certification	
certification	CE，FCC，ROHS

Others	
Optional Accessories	**Data Cable**: RS232, P/S2 , etc **Module and power supply**: RS485 module, Ethernet module, PROFINET module and power adapter **Mounting accessories**: wall mount bracket

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