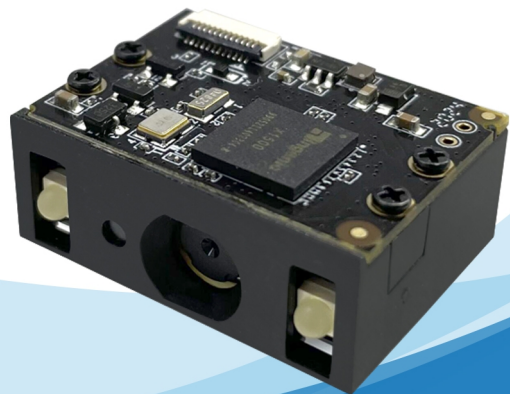


- ❖ Industrial DPM Decoding Efficiency
- ❖ 4 high brightness color LED lighting system
- ❖ Small, easy to embed
- ❖ Global exposure



## RD12HD

### 2D SCAN ENGINE

## Features

RD12HD is a high-performance engine positioned to read DPM bar codes, Based on powerful DPM industry decoding algorithms and excellent optical design, almost competent for any industrial application scenario under the various DPM code reading. RD12HD is equipped with a 1280 \* 800 megapixel image sensor with global exposure, Combined with RAKINDA industrial decoding technology, can achieve the highest 70 frame rate per second efficient image recognition. RD12HD with a laser point, point clearly visible, equipped with 4 high - brightness color LED lights, can provide white, blue, red three colors of intelligent switching. Equipped with software with rich intelligent debugging mode, in the face of complex applications, achieve the best bar code reading requirements. Also equipped with professional PC software debugging tools, make debugging visible, efficient and fast. RD12HD is very easy to integrate into all kinds of devices, a universal 12 pin ZIF connector and 3.3 V power supply, support TTL and USB analog serial port signal output, There are buzzer、LED indication interface and external trigger signal output and external LED

## Description

### ▶ Industrial DPM Decoding Efficiency

Using Rakinda third generation decoding technology, suitable for all kinds of DPM bar code scanning, industrial decoding algorithm, excellent performance.

### ▶ Small, easy to embed

Compact structural design for easy integrated installation ; 28 x 20.5x 118mm body can be easily integrated into a variety of handheld portable or fixed bar code reading devices.

### ▶ 4 high brightness color LED lighting system

Red, white, blue LED lighting system, laser point aiming system.

### ▶ Global exposure

Global exposure, faster scanning speed, can read all kinds of DPM small bar bar code smoothly.

<b>Scan Performance</b>	Optical System	1280 pixels(H)x 800 pixels(V)		
	Illumination Element	Red LED		
	AIMING	Laser point		
	Scan Mode	Auto-sensing, Continuous scan, Pulse mode, Serial port instruction mode		
	DECODING CAPABILITY	1D	UPC A , UPC E , EAN 8 , EAN 13 , Code 128 , Code 39 , Code 93 , Code 32 , Code11 , Codabar , Plessey , MSI , Interleaved 2 of 5	
		2D	Data Matrix , QR Code , Micro QR , PDF 417 , Micro PDF 417 ,	
	Min. Bar Width	1D : ≥3 mi @ code 39 ; 2D : ≥5 mil @ QR Code		
	Depth of Field	Code 39 (3mil)	50mm~90mm	
		Data Matrix(5mil)	50mm~95mm	
		Data Matrix(10mil)	40mm~150mm	
		QR Code (5mil)	45mm~70mm	
		QR Code (7mil)	35mm~120mm	
Scan Angle	Horizontal 46° (H), Vertical 29° (V)			
Print Contrast	≥20%(UPC/EAN 100% , PCS 90%)			
<b>Mechanical &amp; Electrical Parameters</b>	Dimensions	28(W) × 20.5 (D) × 11.8 (H)(mm)		
	Weight	About 7g		
	System Interface	TTL232, USB (extra board needed) , RS-232 (extra board needed), Virtual COM Port		
	Indicator	Buzzer、 LED		
	Input Voltage	DC 3.3V±5%		
	Operating Current	300 mA ±5% (Typical) , 450 mA ±5% (Max.)		
<b>Environment &amp; Safety</b>	Operating Temperature	-10°C~+50°C		
	Storage Temperature	-40°C~+70°C		
	Humidity	5%~95% (non-condensing)		
	Ambient brightness	0~8,600Lux(fluorescent);0~100,000Lux(sunlight)		

\*Test conditions: Ambient temperature=23°C; Ambient illuminance=300 Lux incandescent lamp; use the test sample code formulated by Rakinda

\*Specifications are subject to change without notice\*

