

RK27

HHD / M R Industrial Scanner Engine

1.3 million pixel high performance 1D/2D

Product Advantages



Light Source

RK27 series is a three-color light source, 1.3 million pixel high performance two-dimensional barcode scanning engine, which is small in size and superior performance

Barcode Reading

Engine supports almost all universal one-dimensional / two-dimensional bar codes, and also has a good performance for low contrast, stain, distortion and other form printing barcode reading scenarios, It is equipped with a 1280 * 1024 pixel image sensor, can achieve efficient image sampling and recognition of 120 frames per second.

Engine Choice

RK27 HHD is suitable for close distance reading, especially DPM; RK27MR is suitable for long distance reading, Code 128(25mil) maximum distance can reach 1.3M.

Interface Choice

USB, TTL, Virtual COM Port



Application Scenarios

suitable for embedding all kinds of equipment and industrial production lines, self-service inquiry terminal, self-service queuing machine, Express warehousing logistics management, Medical device embedding

Product Specifications

Basic Parameters				
Pixel	1280 * 1080Pixels (1.30 MP)			
Lighting	Red, white and blue can freely switch light source			
Focusing	Laser cross aiming			
Reading mode	Key mode, automatic induction, external trigger mode, serial port command mode			
Read Code System	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 IATA 2 of 5 , Matrix 2 of 5 , Straight 2 of 5 , Pharmacode , GS1 DataBar 14 , GS1 DataBar Expanded , GS1 DataBar Limited , Composite Code A , Composite Code B , Composite Code C		
	2D	Data Matrix, QR Code, Micro QR, PDF417, Micro PDF417, Aztec, MaxiCode, Hancode, Dotcode		
Read Accuracy	1D : ≥ 3 mil , 2D : ≥ 5 mil (HHD) ; 1D : ≥ 4 mil , 2D : ≥ 10 mil (MR)			
Typical Reading Depth	Sample type	RK -27HHD	Sample type	RK -27MR
	QR (5mil)	50-120mm	Code39(4mil)	220-300mm
	QR (10mil)	30-220mm	Code39(5mil)	180-400mm
	Code39(3mil)	50-170mm	QR (10mil)	240-340mm
	Code39(4mil)	40-220mm	EAN /UPC (13mil)	100-850mm
	Code39(5mil)	40-240mm	EAN /UPC (15.6mil)	100-950mm
	EAN /UPC (13mil)	70-300mm	Code 128(20mil)	100-1300mm
	QR (10mil)	30-220mm	Code 128(25mil)	100-1500mm
Field of View Angle	Horizontal 22° (V), vertical 28° (H),			
Scan the Angle	Left and right $\pm 60^\circ$, up and down $\pm 60^\circ$, rotate for 360°			
Print Contrast	$\geq 20\%$ (UPC/EAN 100% , PCS 90%)			
Communication Interface	USB , TTL , Virtual COM Port			
Safe Code EMC	CE EN55022 B, FCC Part 15 Class B, VCCI, BSMI			

Contact Information



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