



MIR6

High performance 2D Barcode Scanning module

SCANTECH ID[®]
CHAMPTEK Group

Introduction

The MIR6 is a high performance, omni-directional 2D barcode scanning module features the most advanced megapixel sensor technology with white illumination and red aimer bar technology for outstanding reading performance. It drives the same high-quality when your products need to capture the majority of 1D and 2D bar codes and GS1 Databar reading to increase your productivity. Its good ability to read bar codes that are printed on paper labels or displayed on the screen of a mobile phone; and the rapid scanning speed that protects worker productivity and the customer experience.

With the MIR6, you can create products that will make a difference for your customers – and their customers. It is designed for various built-in and OEM solutions, such as self-service kiosks, POS(Point-of-Sales) terminals, ATM, price checkers and mobile device solutions, etc.

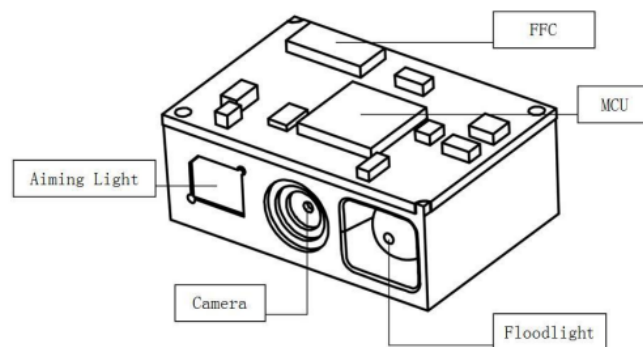
Features

- Support mainstream 1D, 2D codes and GS1 databar.
- Good performance on reading both display and printed label barcode.
- Small size, with built-in fixing holes, easy to integrate into other equipment.
- A variety of optional interfaces USB-KBW, USB-COM, TTL-UART are suitable for different application scenarios.
- High-definition camera module can read barcodes faster, read smaller one-dimensional and two-dimensional barcodes with more content.

MIR6

Barcode	Depth of field
0.076mm/3mil Code39	80 ~ 170 mm
0.1mm/4mil Code39	80 ~ 180 mm
0.25mm/10mil Code39	80 ~ 420 mm
0.33mm/13mil UPC/EAN	70 ~ 550mm
20mil QR Code	70 ~ 330 mm
8mil Data Matrix	70 ~ 200 mm
8mil PDF417	80 ~ 200 mm

The test is under ambient light 350 ~ 400 Lux.



Specifications

Physical Characteristics

Weight	
Body weight	Approx. 5.5g
Interface Type	FPC 12PIN Pitch 0.5
FPC cable length	5cm
Dimension	28.3mm L* 19.1mm W * 12.0mm H

Electrical Characteristics

Operating Voltage	DC 3.3V ±5%
Current Draw	
Operation (Typ.)	220 mA
Stand by (Typ.)	120 mA
Sleep (Typ.)	40 mA

Performance

Light Source	White light illumination, Red color Aimer
Sensor	1280(H) x 800(V) pixels, global shutter
Field of view	Horizontal – 42°, Vertical – 27°
Motion tolerance	65cm per second
Reading Distance	550 mm@13mil/0.33mm, PCS90%, UPC/EAN
Print contrast ratio	≥15%
Resolution	1D: ≥3mil/0.076mm 2D: ≥8mil/0.2mm QR Code
Reading Angle	Roll: ±360°
Pitch Angle	5°~60° (±5°)
Skew Tolerance	5°~55° (±5°)
Ambient Light	100,000 Lux Max.

Environmental

Operating Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Storage Temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Relative Humidity	5% to 95% (Non-condensing)

Readable Symbolologies

1D Symbolologies

UPC-A,UPC-E,EAN-8,EAN-13,Code 128, GS1-128, Code 39, Code 32, Code 93,Code 11,Interleaved 2 of 5,Matrix 2 of 5,Industrial 2 of 5 (Straight 2 of 5), Standard 2 of 5 (IATA 2 of 5),Codabar (NW-7), MSI , GS1 Databar(Omnidirectional, Limited, Expanded) , China Post, Telepen, Febraban,GS1 Composite.

2D Symbolologies

QR Code, Micro QR Code, Data Matrix, PDF417, Micro PDF 417, MaxiCode, Aztec, HanXin Code.