



DACHS

SPECIFICATION

Customer : _____

Customer's Model No. : _____

Model No. : **MIR3+ Module**

Date :2016.04.01

Product P/N. : _____

Spec. Version & Revision Date: V00 Draft 2016/04/01

Received/Approved by

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Revision History

Version	Date	Context
V00 Draft	2016.04.01	Draft release

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Due to Champtek’s / Scantech ID’s continuing product improvement programs, specifications and features are subject to change without notice.

A. General Description

The MIR3+ module is a high performance, omni-directional area imager bar code scanner. It uses digital imaging technology to provide intuitive and fast reading of 1D and 2D bar codes as well as supporting more advanced features like image capture deactivation. It is designed for various built-in and OEM solutions, such as self-service kiosks, POS (Point-of-Sales) terminals, ATM, price checkers, healthcare and Mobile device solutions etc.

It supports up to 300mm reading depth of 1D and 2D barcode, its scan rate is up to 60 images per second. Based on CMOS technology for optimal image sensitivity and dynamic range, the MIR3+ Module features scanning speeds two times faster than traditional 2D imagers.

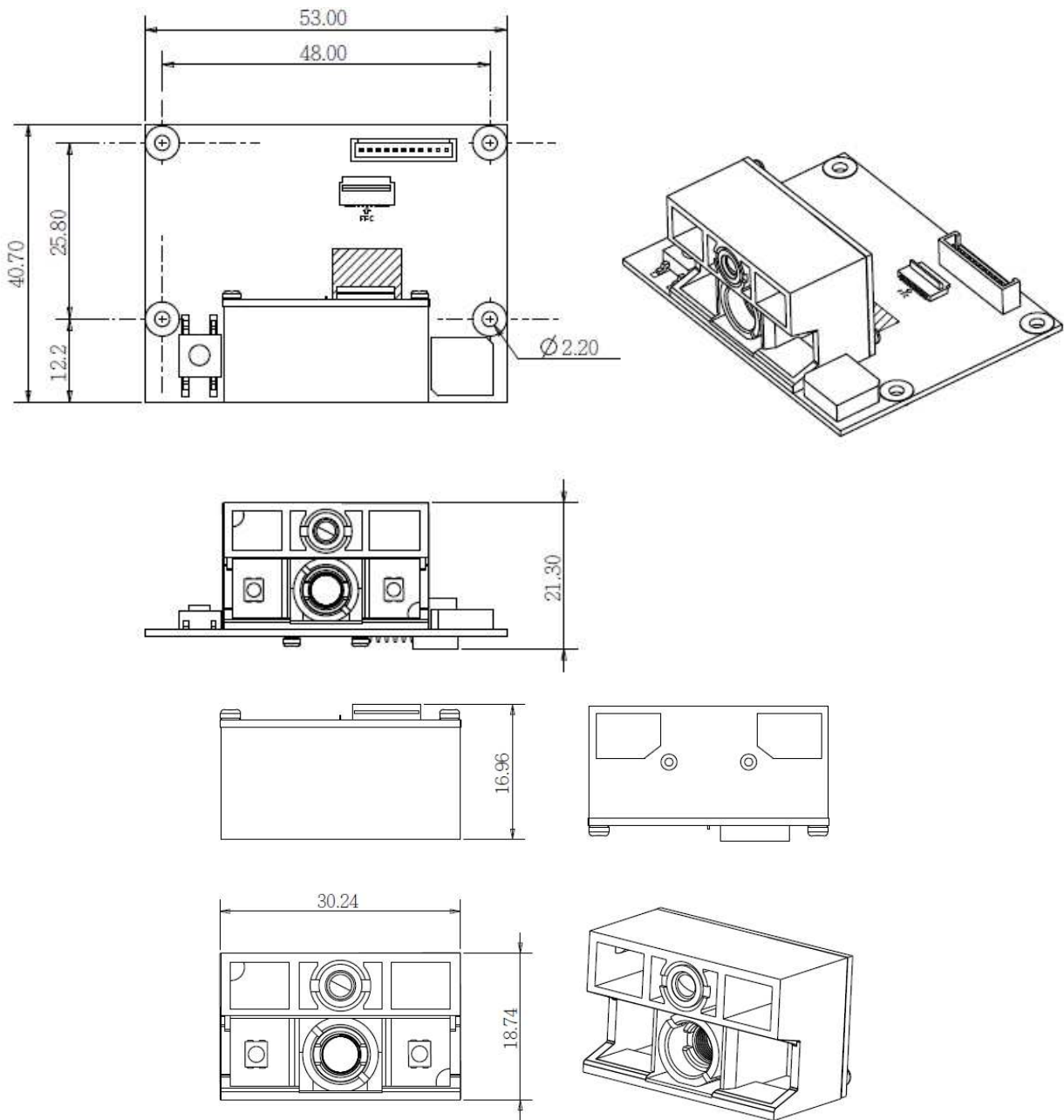
MIR3+ Module is a high performance area imager scanner, provides customers with the most cost- effective solution in the market and perfectly suitable and definitely the best choice for any OEM and built-in application.

B. Physical Characteristics

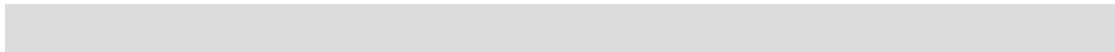
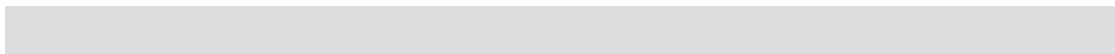
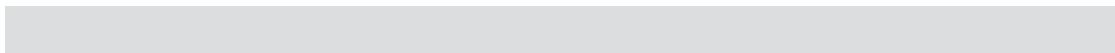
Body weight	Approx. 0.67 oz (19.2 g)

Mechanical drawing

Unit : mm

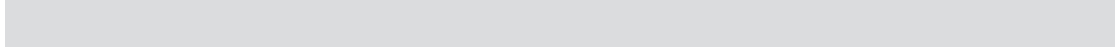


C. Electrical Characteristics



Reading Distance	300mm@20mil/0.5mm, PCS90%
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Resolution	4mil/0.1mm@PCS90% Code39, 10mil/.26mm@PCS90% QRCode
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Pitch Angle	5°~60° (±5°)
Skew Tolerance	5°~60° (±5°)
Roll	360°
Ambient Light	100,000 Lux Max.

E. Depth of field

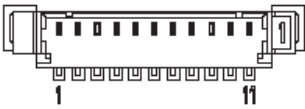
Barcode mil	Depth of field
0.1 mm	40~ 70 mm
0.127 mm	40~ 90 mm
0.15 mm	50~100 mm
0.26 mm	50~230 mm
0.33 mm	50~250 mm
0.39 mm	50~270 mm
0.5 mm	50~300 mm

F. Environmental

Storage Temperature -20 °C to 70 °C (-4 °F to 158 °F)

G. Readable Symbologies

[Redacted content]

		
1	GND	
2	VCC	
3	TXD	
4	RXD	
5	NC	
6	Trigger	
7	D+	
8	D-	
9	RTS	
10	CTS	
11	SHIELDING	

I. Reliability

MTBF(Calculated)	50,000 hours
High Temp.	60 °C (140 °F)
Low Temp.	-20 °C (-4 °F)
Cycle time	30 minutes for high temp. , 30 minutes for low temp.
Cycles	24 cycles