

Face Binocular Camera Scanner

FRM-113

Product Specification

Version: V1.0



MIAXIS BIOMETRICS CO.,LTD

Add: 17th Floor, Tower A, Building 2, IoT Incubator, No. 399 Danfeng Road, Binjiang District, Hangzhou City, Zhejiang

Province, PRC

Tel: +86-571-81951610

Email: inquiry@miaxis.com

<http://www.miaxis.net>

Document Revision History		
Version	Date	Comment
V1.0	5/2025	First issue

Content

1.	Product Overview.....	4
1.1	Brief Introduction.....	4
1.2	Application	4
2.	Product Specification.....	4
2.1	Technical Parameters.....	4
2.2	Mechanical Dimension	6

1. Product Overview

1.1 Brief Introduction

MIAXIS® FRM-113 (OEM FRM-103) is a high-performance, high-precision camera scanner capable of outputting synchronized RGB and IR video streams. It is suitable for depth calculation, face recognition, liveness detection, and other biometric applications.

1.2 Application

Ideal for identity verification applications in public security, border control, finance, and government services.

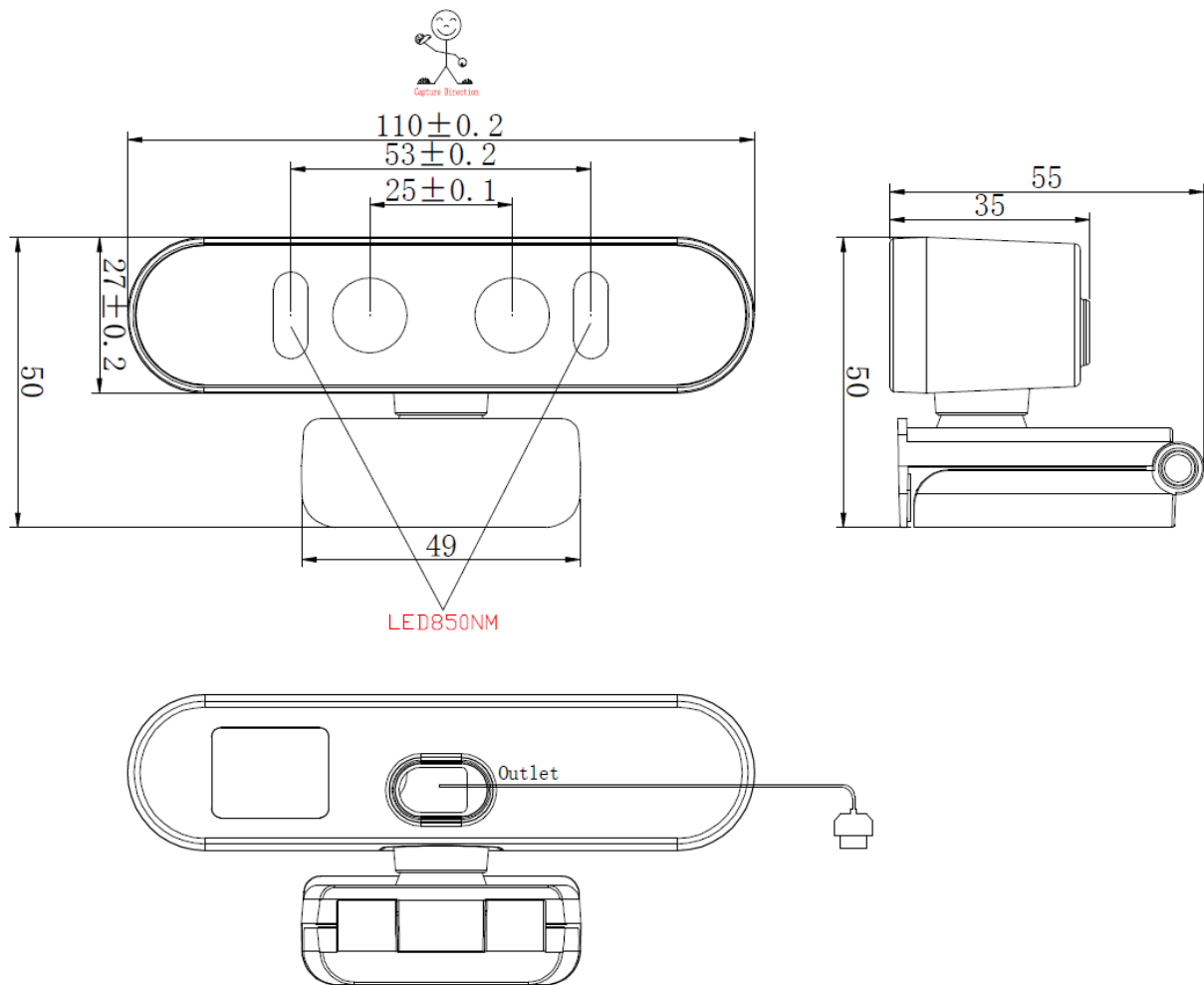
2. Product Specification

2.1 Technical Parameters

Signal	2M B/W	2M HDR
Scanning System	Progressive scan	
Scanning Frequency(H)	30Hz	25Hz
Scanning Frequency(V)	50Hz	50Hz
Image Sensor	1/2.7" CMOS	1/2.7" CMOS
Effective Pixels	1920X1080	
Pixel size	3.0umX3.0um	
Image sensor Data output	Raw Data 10bits	
Video output	MJPG/YUY2	
Maximum Frame Rates (B/W)	1920 x 1080 @ 30fps 1280 x 960 @ 30fps 1280 x 720 @ 30fps 1024 x 768 @ 30fps 800 x 600 @ 30fps 640 x 480 @ 30fps 352 x 288 @ 30fps 320 x 240 @ 30fps 160 x 120 @ 30fps	1920 x 1080 @ 5fps 1280 x 960 @ 5fps 1280 x 720 @ 5fps 1024 x 768 @ 5fps 800 x 600 @ 30fps 640 x 480 @ 30fps 352 x 288 @ 30fps 320 x 240 @ 30fps 160 x 120 @ 30fps
Maximum Frame Rates (HDR)	1920 x 1080 @ 30fps 1280 x 960 @ 30fps 1280 x 720 @ 30fps 1024 x 768 @ 30fps 800 x 600 @ 30fps	1920 x 1080 @ 5fps 1280 x 960 @ 5fps 1280 x 720 @ 5fps 1024 x 768 @ 5fps 800 x 600 @ 30fps

	640 x 480 @ 30fps 352 x 288 @ 30fps 320 x 240 @ 30fps 160 x 120 @ 30fps	640 x 480 @ 30fps 352 x 288 @ 30fps 320 x 240 @ 30fps 160 x 120 @ 30fps
SNR max	≥37dB	≥41dB
Dynamic range	TBD	≥85dB
Min. Illumination	≥0.01LUX at F1.2	≥0.1LUX at F1.2
Digital interface	4-pin 1.25mm USB2.0	
Transfer rates	480Mb/S	
Power requirements	5V±5%	
Power Consumption	Max 0.6W (no LED) Max 1.5W(IR-LED)	Max 1W
Field of view	D96° H87° V57°	
IR-LED Wavelength	850nm	
Product Dimensions (mm)	110X50 X50	
AEC /Gain/White Balance	Auto	
Depth of Field	50-150cm	
Operating temperature (°C)	-10~65 °C	
Storage temperature (°C)	-10~70 °C/0~90RH	
Compliance	USB-IF WHQL CE RoHS	
Operating system environment	Windows XP/7/8.1/10 and above Linux2.6.2 and above Android	

2.2 Mechanical Dimension



Mechanical Dimension (Unit: mm)