

V1.1

## **Star Light night vision Module**

Specification

# LC220-Mono

## General Introduction

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LC220-Mono series were star light night vision module that developed by Link-Card Tech, They use ASIC solution, equipped with a 1280x1024 or 800x600 resolution BSI CMOS image sensor with 9.76μm x 9.76μm pixel size. The sensor operates in electronic rolling shutter supporting two operation modes: HDR mode and Low Noise mode. The image processing unit uses ARM+DSP Soc solution and has built-in an 2Gb DDR which can meet the requirements of low-light image processing. They support specific algorithms for low-light image processing and support H264/H265 CODEC. They also built-in GUI, brightness, contrast and sharpness are adjustable, integrated compass and motion sensor, built-in mass storage, supports recording and photography, and can be used in scope, scientific imaging and etc fields.

## Features

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- ◆ 1" optical format, ultra-low noise CMOS image sensor
- ◆ brightness, contrast and sharpness are adjustable
- ◆ Integrated Compass and Motion Sensor
- ◆ Supports Battery and USB Charge
- ◆ Integrated 4x GPIO Buttons and Rotary Encoder
- ◆ Reserved Laser Range Finder Connector
- ◆ Supports HD OLED/HDMI/SDI/TVI/CVI/CVBS/AHD output
- ◆ Supports Wi-Fi and USB Flash Drive
- ◆ Built-in 32GB Memory(customizable), Supports photography and Recording
- ◆ Provides Android and IOS APP



## Applications

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Scope, Scientific Imaging

## Parameters

	Model	LC220-Mono-SXGA	LC220-Mono-SVGA
<b>Detector</b>	Detector Type	BSI MONO CMOS	
	Resolution	1280x1024	800x600
	Optical Format	1.0"	1.0"
	Pixel Size	9.76μm	16μm
	Frame Rate	25Hz/30Hz/50Hz/60Hz	
	IOS	0.0001 Lux	
<b>Image Adjustment</b>	Exposure Compensation	Supported	
	Image Mode	Black&White	
	Denoise	2D,3D	
<b>Main Function</b>	Wi-Fi+Recording and Capture	Supported	
	Motion Sensor+Compass+PIP	Supported	
	Reticle	On/Off/Adjust	
	Digital Continue Zoom	4.0~16.0×	
	Video Format	MP4	
	Picture Format	JPG	
	Storage	32G(Customizable)	
<b>Voltage Current</b>	Battery Voltage	4.2V/4.35V	
	Charging Current	500mA@5V	
	GPIO Voltage	3.3V	
	TTL Level	3.3V	
	Power Supply	USB Charge/Battery	
	Battery	1S-Li(5H)	
<b>Connector</b>	Wi-Fi Antenna Connector	1 <sup>st</sup>	
	Image Output	BT656/BT1120/RGB888	
	Rotary Encoder	Supported	
	Battery Connector	Supported	
	USB Port	Supported	
	GPIO Buttons	Supported	
	Lens	M34 x 0.75	
<b>Physical Property</b>	Weight(No lens)	27g	
	Dimension(No lens)	32 x 32 x 22 mm	
<b>Environment Adaptability</b>	Operating Temperature	-20°C~60°C	
	Storage Temperature	/	
	Humidity	/	

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