

Megapixel 720p USB Wide-angle Camera

FIT0892

Product Overview

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For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot Megapixel 720p USB Wide-angle Camera offers a resolution of 1280 x 720, supports a 140° viewing angle and standard UVC communication protocol. The camera is a plug-and-play device that is compatible with Raspberry Pi and NVIDIA Jetson Nano series. The wide viewing angle provides a better photo experience. The module has a very small size of 38mm x 38mm, which can be embedded in various devices for face recognition, image recognition, security, remote teaching, and other projects.



Features

- Plug and play
- Compatible with Raspberry Pi and NVIDIA Jetson Nano

Applications

- Face recognition
- Image recognition
- Security
- Remote teaching

Images



Wide-angle Lens



Ordinary Lens

Specifications

- Lens size: 1/4 inch
- Pixel size: 3μm x 3μm
- Maximum effective pixels: FULL HD 1280(H) x 720(V)
- Field of View (FoV): 140°
- Output image format: MJPEG/YUV2 (YUYV)
- Supported resolutions:
 - 320 x 240 MJPEG @30fps
 - 352 x 288 YUV2 @30fps
 - 352 x 288 MJPEG @30fps
 - 640 x 480 YUV2 @25fps
 - 800 x 600 MJPEG @30fps
 - 320 x 240 YUV2 @30fps
 - 1280 x 720 MJPEG @25fps
 - 800 x 600 YUV2 @15fps
 - 640 x 480 MJPEG @25fps
 - 1280 x 720 YUV2 @10fps
- Special function: Lens correction / Defective pixel correction / Black sun cancellation
- Minimum illumination: 0.051lux
- Shutter type: Electronic rolling shutter / Frame exposure
- USB protocol: USB2.0 HS/FS
- Interface type: USB2.0 high-speed
- Support OTG protocol: USB2.0 OTG
- Support driver-free protocol: USB Video Class (UVC)
- Automatic Exposure Control (AEC) support
- Automatic White Balance (AEB) support
- Automatic Gain Control (AGC) support
- Adjustable parameters: brightness / contrast / color saturation / hue / sharpness / gamma / white balance / backlight / contrast / exposure
- Night vision function: support, need to co-operate with infrared lens 850nm or 940nm, and infrared light board
- Infrared light board-power supply interface: support, 2P-2.0mm socket
- Power supply mode: USB BUS POWER 4P-2.0mm socket
- Working Voltage: 5V_{DC}
- Working Current: 120mA~220mA
- Working Temperature: 0°C~60°C
- Storage Temperature: -20°C~75°C
- Size/Weight: 38mm x 38mm/1.50inch x 1.50inch (compatible with 32mm x 32mm /1.26inch x 1.26inch) / about 30g
- Support Operating System: Windows, iOS, Android, Linux, etc.

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-720p-camera/>