



Fujian Joyusing Technology Co., Ltd.

Facial Liveness Detection and Recognition **Camera**

Liveness Detection | Face Identify



Liveness Detection



Identity verification



Dynamic Identification



Face Private Cloud

Product Introduction

Background

In order to be able to effectively prevent the plane photo, different degree of bending photos, PS, video and other fraud, precision detection is "living", "live" to ensure the accuracy of in liveness testing.

About Face Liveness Detection

Through the Dual camera using its innovative binocular algorithm to calculate high-precision face data, eye and nose and some other key feature points for accurate identification and positioning and calculate a variety of interpupillary distance, nose height, the distance from the eye to the ear And other spatial information, the calculation error is less than 1mm.

This will be able to effectively prevent the plane photos, different degrees of bending of the photos, PS, video and other fake fraud, accurate detection of "living", "real" to ensure the accuracy of living detection.

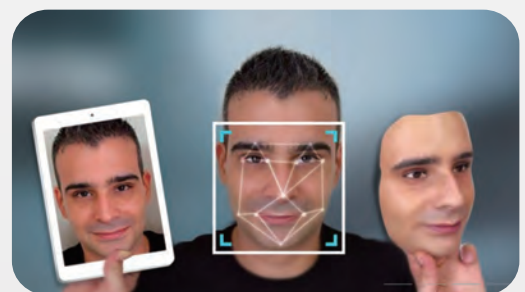
Main Features

- Double Lens Camera (HDR Color Camera & BW Camera)
- Support face liveness detection
- Accurate recognition of living human
- Support SDK open connection
- Fixed 30fps, no dragging shadow
- Super Low illumination@0.01Lux
- Wide Working Temperature at -30℃~+70℃
- USB2.0 High Speed Transmission
- UVC Structure Compatible with Windows XP&7&8.1&LINUX&Android&MAC
- Life Span without Defection up to 130,000 hours
- Min configuration requirement : CPU 1.7GHZ 512MB, 40GB HDD, XP SP2



Function

- **Infrared binocular detection**
Can capture both near-infrared and visible images at the same time.
Detect whether it is real face or not.
- **Face Identify**
With the real identity information data, easy to determine the true identity of users.



Face Detection

Binocular Deep Learning in Liveness testing, See through a variety of disguise face at a glance.



Identity Verification

Precision verification of the identity, effective protection to implement the real name system.



Dynamic Identification

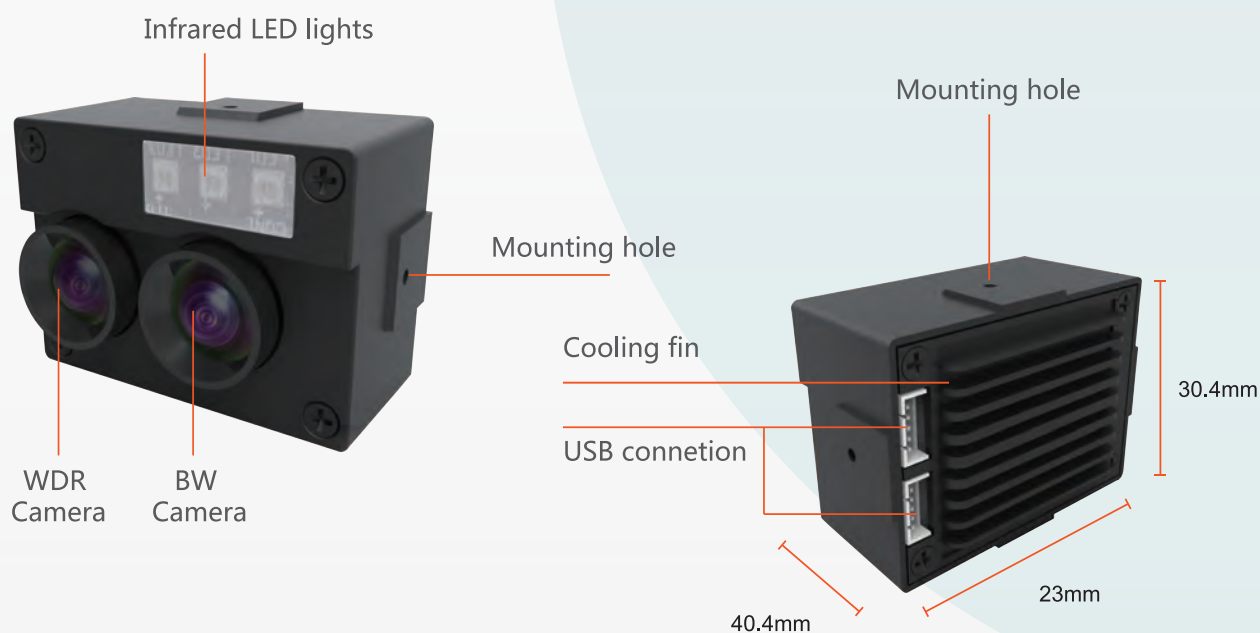
Face capture identification Parallel computing allows speed to fly.



Face Private Cloud

Fusion artificial intelligence technology. Build a corporate face recognition private cloud.

Product Size



Application

Face Withdrawals



Face Payment



Face Clearance



Face Access Control



Specification

Product	Joy-BioCam DC1010		Joy-BioCam DC2020		Joy-BioCam DC1330	
	1M B/W	1M HDR	2M B/W	2M HDR	1.3M B/W	3M WDR
Image Sensor	1/4"		1/2.7 "		1/3"	
Effective pixels	1280X720		1920X1080		1280X960	2048X1536
Pixel size	3.0umX3.0um		3.0umX3.0um		3.75umX3.75um	2.2umX2.2um
Data output	RAW data 10bits		RAW data 10bits		RAW data 10bits	
Video Compressor	MJPG/YUY2		MJPG/YUY2		MJPG/YUY2	
Maximum Frame Rates (MJPG)	"1280X720@30fps 640X480@30fps 320X240@30fps"		1920X1080@30fps 1 280X960@30fps 1280X720@30fps 1024X768@30fps 800X600@30fps 640X480@30fps 352X288@30fps 320X240@30fps 160X120@30fps		1280X960@30fps 1280X720@30fps 1024X768@30fps 800X600@30fps 640X480@30fps 320X240@30fps	2048X1536@25fps 1920X1080@25fps 1600X1200@25fps 1280X1024@25fps 1280X960@25fps 1280X720@25fps 1024X768@25fps 800X600@25fps 640X480@25fps 352X288@25fps 320X240@25fps 160X120@25fps
Maximum Frame Rates (YUY2)	"1280*720@9fps 640X480@30fps 320X240@30fps"		1920X1080@5fps 1280X960@9fps 1280X720@9fps 1024X768@10fps 800X600@20fps 640X480@30fps 352X288@30fps 320X240@30fps		1280X960@9fps 1280X720@9fps 1024X768@10fps 800X600@20fps 640X480@30fps 320X240@30fps	2048X1536@3fps 1920X1080@5fps 1600X1200@5fps 1280X1024@8fps 1280X960@9fps 1280X720@9fps 1024X768@10fps 800X600@20fps 640X480@25fps 352X288@25fps 320X240@25fps
SNR max	≥ 37dB		≥41dB		≥ 44dB	
Dynamic range	≥ 64dB		≥96dB		≥ 80dB	≥ 100dB
Min. Illumination	≥ 0.01lux		0.01lux		≥ 0.01lux	
Digital interface	USB2.0		USB2.0		USB2.0	
Transfer rates	480Mb/S		480Mb/S		480Mb/S	
Power requirements	5V +/-5%		5V +/-5%		5V +/-5%	
Power Consumption (NOLED)	Max0.6W	Max1W	Max0.6W	Max1.2W	Max0.6W	Max1W
Power Consumption (IRLED)	Max2W	NO	Max1.5W	NO	Max2W	NO
LED IR-850nm	≤ 90°	NO	≤ 90°	NO	≤ 90°	
Camera type	M12		M12		M12	
Camera angle	90°		90°		90°	
OS support	Windows XP/Vista/7/8/10/Mac/Android/Linux2.6.2					

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