eyecool ECF111 Dual-Mode Face Tracking and Recognition Device Instructions

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Device Instructions

ECF111

Dual-Mode Face Tracking and Recognition Device

Version 1.0

Specifications

Product Type: Face recognition

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Specifications

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Product Instruction

With the development of technology and the popularity of self-service retail transactions in all walks of life, more and more attention has been paid to the safe and convenient means of identity authentication. At present, face recognition has become a very popular identification method, which is incomparable in terms of data source and convenience.

The face data of users are collected within the range of 40-120 cm through the device, and liveness detection is completed through the near infrared lens.

Users can adaptively adjust the rotation angle of the lens to adapt to their height, find the appropriate iris capture distance through video pages, indicator lights and voice prompts, and complete face capture, recognition and liveness detection;

The face image captured by the device should meet the quality requirements of `ISO/IEC19794-5 2013′.
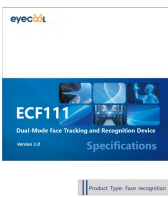
Product Overview

1. The dynamic strategy of two modes capturing "visible light + near-infrared" at the same time to maximize user experience while ensuring safety;
2. Small and delicate appearance, convenient access to various self-service devices, and can be used as an independent device to connect PC;
3. The dual-mode recognition distance is 40~120cm, and the recognition height is 130cm~190cm (installed at 160cm);
4. High-definition color face camera + near-infrared face camera to realize synchronous capture of "dual-mode face" at the same position;
5. It is equipped with two sets of near-infrared light compensation (850nm) on the left and right sides to achieve the function of capturing face and iris in any light environment. It's not affected by external light combined with the visible light compensation of the surrounding environment and host scree. The ambient light range is 0~50000Lux;
6. Detect the height through face recognition, give instructions to control the rotation angle of the lens, and realize the "dual mode face" adaptive snapshot recognition of different people's height;
7. Realize a single USB interface communication mode. If auxiliary power supply is required, port reservation shall be made in advance (external 5V/1A adapter auxiliary power input can be connected);
8. It is equipped with a speaker, and human-computer interaction is realized through the speaker and touch screen;
9. Reset button and USB interface are reserved, and the anti-disassembly design of the whole module can be considered;
10. The device supports remote automatic upgrade under the intranet, automatic version detection, and automatic issuance and installation of firmware;
11. The operating system is compatible with Win XP and above, Android 5.0 and above, and Linux.

Product Specifications

Basic Parameters	Camera	Color camera: it can support 3million wide dynamic at most (dynamic range $\geqslant$ 100dB)
		Near infrared camera: 2M and above resolution;
	Near Infrared Fill-in Light	Two side near infrared light source fill-in light (850nm)
	Video Output Format	mjpeg, yuv
	Plot Frame Rate	25FPS can be achieved when two lenses are opened at the same time
	Port	USB 2.0 (UVC protocol)
	Device Frame Rate	When two lenses are opened at the same time, each lens can reach more than 25 frames
	Recognition Distance	40cm – 120cm
	Height Adaptation Range	130cm~190cm (installed at 160cm)
	Operating System Compatibility	Win XP and above, android 5.0 and above, Linux
	Image opening speed	The device opening and plotting speed is less than 200ms

Other Parameters	Power Supply	Optional 5v/1A auxiliary power supply
	Doorbell Horn	Built in 2W horn, reserved external horn interface
	Rotation Component	Magnetic coding angle sensor, DC motor
	Temperature Range	-35~60° C

Documents / Resources

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