Hisign Live Face Detection Kit

Hisign live face check cameras and algorithm are developed to meet the needs of users for various AI applications based on Windows, Linux or Android platforms. It is provided as a SDK integrated with Hisign dual-lens cameras. Live face check is used where high accuracy face detection, recognition and liveness check are required to guarantee passing throughput of real persons and secure protection against fake face attacks. Its high performance in live face check reached the highest level of financial payment transaction security standards.

Hisign dual lens camera and camera module are made of a wide dynamic visible light lens and a near infrared lens. Combined with Hisign live face detection software, there will be no need of user actions such as shaking head, nod, opening mouth, and blinking, etc. Fake face attacks with 3-D face mask, face mold, etc. can also be detected without using complicated 3-D technologies.

There are two types of camera devices. The standalone camera is connected to a PC or tablet as a peripheral device, while the camera module is to be integrated into a kiosk or similar device.

Front view   Rear View

HX-FR600 Standalone Camera   HX-FR600SE Camera module

■ FEATURES

◆ Liveness check using dual lens camera

◆ River free hardware

◆ Windows and Android systems are supported.

Beijing Hisign Technology Co., Ltd.
Address：Floor 6 Tower 4, Phase 4, Hanwei International Square, Fengtai, Beijing, China

Website：www.biometric.cn   www.hisign.com.cn
Email：internatioinal@hisign.com.cn

◆ Multiple programing languages are supported for integration

◆ Face matching after liveness check (optional)

■ CAMERA SPECIFICATIONS

Item	Description
Type of camera	Two Non-wide-angle lenses. The visible light lens is above 3 Million pixels and the infrared lens is above 2 million pixel.
Fill light spectrum	850nm infrared fill light for a clear face imaging in 1 meter distance
Detection distance	Normal indoor lighting: 35cm−120cm; Weak lighting: 35cm-100cm; Back lighting: 35cm−90cm; Strong lighting: 35cm-100cm; Side lighting: 35cm−90cm
Detection speed	Less than 1 second
Output	MJPG, YUY2
Resolution	Visible light: 320*240, 640*480, 800*600, 1280*720, 1280*1024, 1600*1200 , 1920*1080, 2048*1536, 2560*1440 Infrared: 320*240, 640*480, 800*600, 1280*720, 1280*960, 1280*1024, 1920*1080
Dynamic range	Visible light: 100dB; Infrared: 80dB
Lens angle	Distortionless; > Horizontal: >73 degree Vertical: 50 degree
Operation temperature	-20~65 ℃
Storage temperature	-30~85 ℃
Storage humidity	0~90%
Interface	USB2.0
Power supply	USB (5V±5%)
Minimum requirement on Windows platform	CPU: 1.5GHZ, Memory: 512MB, HDD: 40GB Windows 7/8/10 IE8-11, Chrome
Minimum requirement on Android platform	CPU: 2G, Memory: 8G, such as RK3288, RK3399, MTK Android7.1 The main board is required to support two cameras simultaneously

Hisign Live Face Detection Kit