FA10MS

Dual-camera Face Module
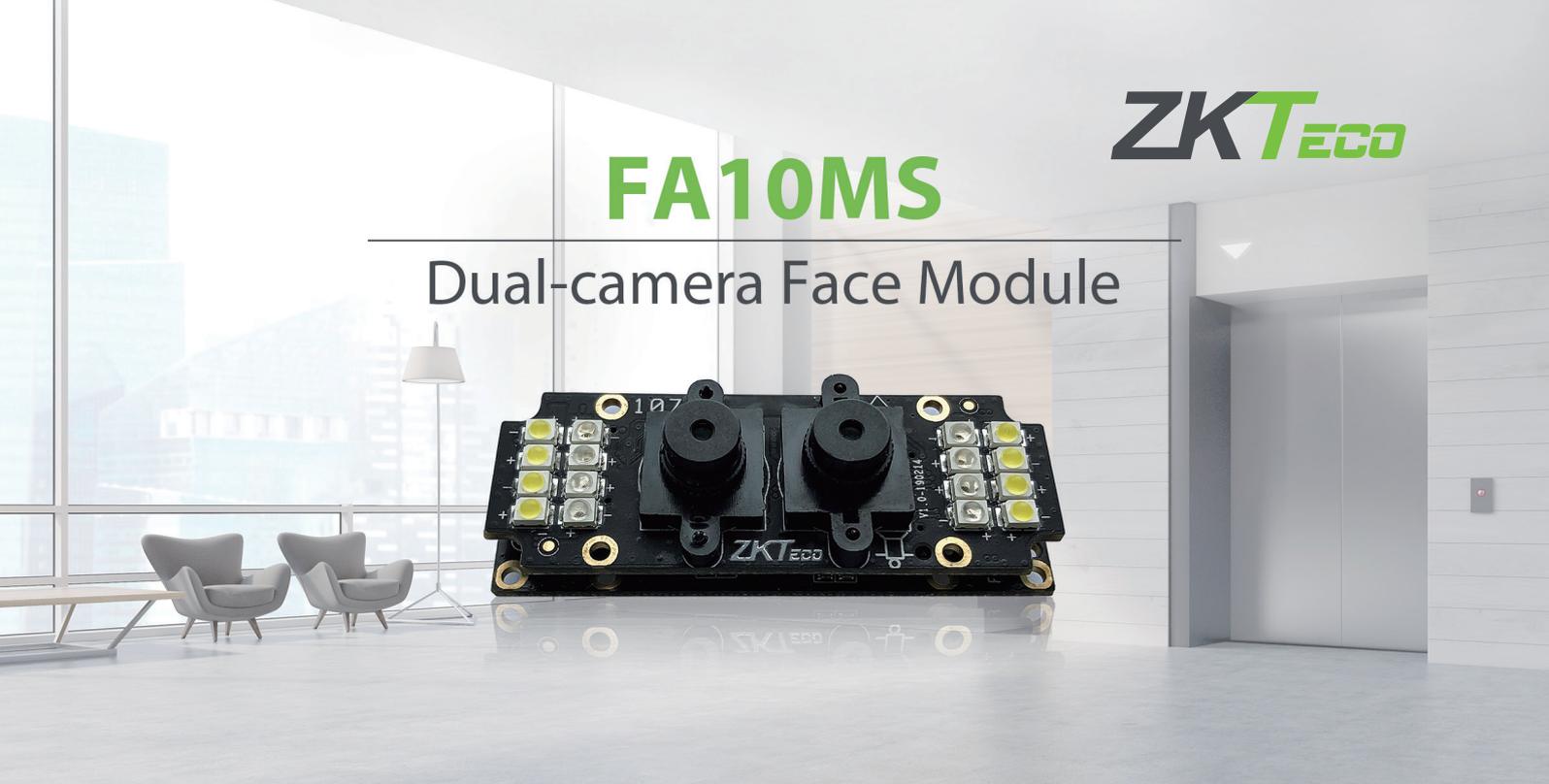
FA10MS is a high-performance face data acquisition module that includes visible light and near-infrared cameras. It is equipped with binocular wide dynamic image sensors and an aspherical distortion-free camera and near-infrared and visible light fill-up lights.

FA10MS has a built-in 400Mhz high-performance processor; it supports USB interface power supply and communication. FA10MS supports a variety of mainstream operating systems including Windows XP, Windows 7, Windows 10 (32 and 64-bit), and Android 4.1 or higher. We also provide ZKNIRface SDK and ZKLiveface SDK so that third-party applications can easily integrate and facial recognition systems with high precision and large capacity can be developed.

Features

• Equipped with a full HD wide dynamic camera for face capture
• Compact size allowing flexible installation in terminals
• An open interface supporting secondary development to realize value-added applications

Specifications

Sensor	CMOS	Dual 1 / 2.7 HDR CMOS sensor
	Dynamic Range	83dB
	Grayscale	256 levels
	Angle of view	Horizontal viewing angle of 28°, vertical viewing angle of 37°
	Image Size (W*H)	480 * 640

OS	Windows	Windows XP / Windows 7 / Windows 10 (32 and 64-bit)
	Android	Android 4.1 or higher
H/W	Interface	USB 2.0
	Power Consumption	<1.25W (standby); <2.0W (scanning)
	Power Supply	USB 5V
	Operating Temperature	-10℃ ~ 45℃; 14℉ ~ 113℉
	Operating Humidity	0 ~ 90% RH
	Dimensions (L*W*H)	60mm * 22mm * 18.3mm (±1mm)
ZKNIRFace SDK	Algorithm Function	1:1, 1:N, human face detection
	Capacity	6,000 templates
	Accuracy	FRR=1.41% when FAR=0.001%
	Recognition Time	<300ms (Quad-core Cortex-A9 up to 1.6GHz)
	Algorithm Feature	Based on the near-infrared facial recognition technology, it can identify people with different colored skin
ZKLiveFace SDK	Algorithm Function	1:1, 1:N, gender classification, age estimation, human face detection
	Capacity	10,000 templates (max. 50,000)
	Accuracy	FRR=0.26% when FAR=0.01%
	Recognition Time	<400ms (Quad-core Cortex-A17 up to 1.8GHz)
	Algorithm Feature	Based on the visible light facial recognition technology, it has good face angle tolerance
Recognition Distance		40cm ~ 70cm (recommended)
Certifications		CE, FCC, RoHS

Dimension (mm)
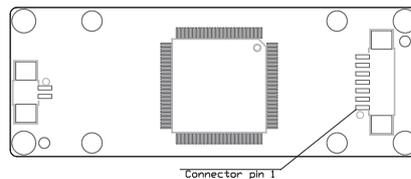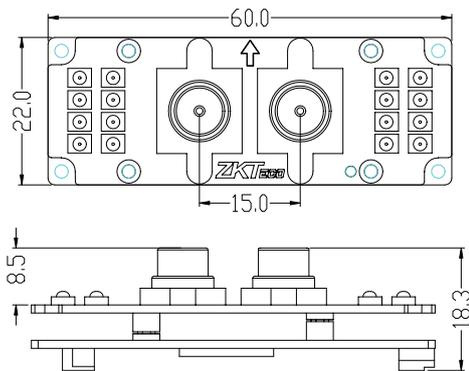
Connector pinout (7pin 1.25mm)	
Pin 1	+5 V
Pin 2	GND
Pin 3	Shield GND
Pin 4	USB D-
Pin 5	USB D+
Pin 6	Reserved
Pin 7	Reserved