FaceChk SGN 2021

8-Inch Face Recognition Device Specification Sheet

Hardware Specs	
Processor	**Dual Processor A35 up to 1.8 GHz + 3 TeraOps ultra-fast AI Processor**
RAM	**DDR4 - RAM 1GB**
Flash Storage	**8GB, can store up to 5,00,000 Attendance Records**
Operating System	**Real Time Linux, Fast Boot**
Display	**8-inch IPS display 1200×1600 resolution;** **Brightness up to 500nit cd/m2** **Strong light visible viewing angle 170 degrees**
Casing & Cover	**Metallic body; organic glazed panel, Corrosion Proof**
Attendance Performance	
Face Recognition Height	**1.0-2.2 meters**
Face Recognition Distance	**30 cm to 3 meters**
Face angle	**35 degrees left and right face rotation, 35 degrees up and down face bend**
Recognition time	**< 0.2 seconds – 200 milliseconds**
Status display	Recognized Face and ID Displayed on screen
Face Database Size	**15000 (expandable)**
Multi Face Attendance	**Supports single person and multiple people (Up to 5 people) recognition**
Face Recognition Accuracy + Enrollments	
Face Recognition Accuracy	**Greater than 99.5%**
False Acceptance Ratio (FAR)	**FAR 1 in 1000,000 for 50,000 databases**
False Rejection Ratio (FRR)	**FRR 0.5% for 50,000 databases**
Ethnicity	Can recognize Asian, African, Chinese, Korean, Japanese, American, Russian Faces
Face Variations	Can recognize with Beard, Moustache, Makeup, Spectacles
Face Enrollment Types	From Remote PC / From Android App / From Cloud Server
Main Board Interface	
Power interface	1, external socket and a built-in 6P socket (with STB function) DC 12V input
Network Interface	**1 RJ45 10M / 100M adaptive Ethernet port**
Wireless Support	**Wifi Enabled, 2.4 GHz, 100 Mbps**

Extension ports	**1 UART, 1 RS485**
Headphone / MIC interface	1, external headphone audio output socket (GB: GND, MIC, R, L)
SD card interface	Up to 64GBTF card
USB2.0 interface	2, USB HOST (1 external of which is OTG; 1 built-in)
Relay output	**1 Output (normally open, normally closed), NO/NC Port**
Wiegand interface	**1 Wiegand output Port**
3G/4G/GPS (optional)	Scalable 1 channel 3G (WCDMA, EVDO, CDMA, GSM) / 4G (LTE-TDD / LTE-FDD / TD-SCDMA / EDGE / GPRS / GSM) signals
Digital input (optional)	1 fire signal, 1 exit button input
Light strip output (optional)	1 12V tri-color light signal output
Illumination light signal (optional)	1 light signal output, 1 light sensor signal input
Touch screen interface (optional)	1 ETP input reserved
Dual Camera Specs	
Camera	**Dual camera color and infra-red, HDR Resolution 2 Mega Pixels, auto/manual exposure, auto white balance, auto backlight optimization,**
Sensor	1 / 2.7" industrial Dual HD wide motion image sensor
Frame rate	Color and infra-red, both are up to 30 frames per second capturing, no smear
Infrared LED spectrum	850nm
Effective Pixels	1920 * 1080 for color cam and 1920 * 1080 for infra-red cam
Lens	M12 (f = 7MM) / M12 (f = 7MM)
Cell size	3.0um X3.0um / 3.0um X3.0um
Minimum illumination	≥0.01LUX at F1.2 / ≥0.1LUX at F1.2
Signal to noise ratio	≥41dB
Wide dynamic range	≥96dB / ≥105dB
Interface Type	MIPI for color cam and USB2.0 for infra-red cam
General Specs	
Material	Corrosion Free
Operating temperature	**-20℃- + 65 ℃**
Working humidity	< 95℃RH
Power Supply	DC12V / 2A
Power consumption	≦ 25W
Size	245 * 135 * 28mm (length * width * height), height excluding wall mounting plate
Weight	1.0 kg (varies according to hardware configuration and gift box weight)
Installation method	Supports wall and column installation
IP Protection	IP65 Rating
Encryption	Face and Attendance Data encryption to protect data privacy
Video Output	RTSP video output Stream support
Audio Output	On Board Speaker
Mounting	Lockable Wall Mounting Stand

Cable Outlet Diagram

USB 2.0

DC 12V

Relay

Wiegand In/Out

RJ45

RS485