



Features

- A comprehensive AI deep learning and edge computing solution designed for educational providers
- Designed for collecting and analyzing student's behavior and engagement in the classroom through facial recognition
- Optimize teaching quality through classroom interaction analysis
- Facial Recognition - 99% face verification accuracy for 1:1
- Biometric identification - 68 points 3D landmarks detection for 6 kinds of student face emotion identification
- Behavior identification - 17 human key-points (skeleton) detection for 9 kinds of student behavior identification

Specifications

SI-62S System Specifications	
System Mainboard	MI998AF for SI-62S-E MI998AF-C246 for SI-62S-S
CPU Type	9th/8th Generation Intel® desktop processors TDP ≤ 65W
CPU Socket	LGA1151
Chipset	Q370 PCH for SI-62S-E C246 PCH for SI-62S-S
Memory	2x DDR4 SO-DIMM 2666/2400 MHz, Dual channel, Max. 32GB (Support ECC for SI-62S-S)
Graphics	Intel® UHD Graphics 630
LAN	1x Intel® I219LM 1x Intel® I211AT
Expansion Slots	1x PCI-E (x16) or 2x PCI-E (x8) based on PCI-E x16 connectors for Matrox / AMD / NVIDIA graphics card 1x M.2 M2280 (NVMe supported) 1x M.2 E2230
Front Panel External I/O	2x USB 2.0 1x GPIO port 1x Reset button, 1x DC 12V output
Rear Panel External I/O	1x HDMI, 1x DVI-D and 1x DP 6x USB 3.0 2x RJ45 for Gigabit LAN 2x COM#1/2 port for RS232/422/485 2x COM#3/4 port for RS232 only (Via onboard box-headers) 3x Microjack audio connectors for Mic in, Line-in and Line-out Power / HDD LED, 1x power button 1x Terminal block for external power button
Auto Control and Monitoring	Watchdog Timer: 256 segments, 0, 1, 2...255 (sec/min)
Power Requirement	AC 110V~240V
Construction	Aluminum + SGCC
Weight	8kgs (17.64lbs)
Chassis Color	Black & white

Storage	2x 2.5" SATA Devices with RAID 1 support
Power Supply	Internal 500W PSU
Mounting	Standard system bracket
Dimensions	406mm(W) x 345mm(D) x 93mm(H) 17.16"(W) x 15.9"(D) x 3.66"(H)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Storage Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Relative Humidity	10%~90% (non-condensing)
Certification	CE, FCC class A
Operating System	Win10 64-bit Enterprise

SC550N4 SDI Capture card Specifications	
Max. FPS	1920×1080p @60/50fps in → 1920×1080p @60/50fps out
Recording Mode	Software Compression, Real-Time Mode
Dimensions	130.49 x 101.02 (mm) PCI-E Full Height
Interface	PCI-E×4 (Gen2)
Video Input	4x SDI
Display Video Format	YV12, NV12, YUY2, RGB24, RGB32
Video RAW Data Resolution	3G-SDI: 1920 x 1080p @60/50fps HD-SDI: 1920 x 1080p @30/25/24fps 1920 x 1080i @60/50fps 1280 x 720p @60/50fps SD-SDI: 720 x 480i @60fps 720 x 576i @50fps
Recording Video Format	H.264 (Software Compression)

Recording Video Resolution	3G-SDI: 1920 x 1080p @60/50fps HD-SDI: 1920 x 1080p @30/25/24fps 1920 x 1080i @60/50fps 1280 x 720p @60/50fps SD-SDI: 720 x 480i @60fps 720 x 576i @50fps
Audio Input	4x SDI Embedded Audio PCB Audio Pin Input: 4x Stereo Audio
Audio Format	Stereo / 16-bit / 32000 ~ 48000Hz
I/O	16
Watchdog	Yes
SDK	Supported API: DirectShow, V4L2, FFmpeg, Gstreamer Supported Language: C++, C#, .NET, Visual Basic, Qt, Delphi
OS Support	Windows 7 / Windows 8 / Windows 8.1/ Windows 10 Linux 2.6.14 or higher (32-bit and 64-bit)
GEN3G-200 Camera Specifications	
Image Sensor	1/3 inch Progressive CMOS
Sensor Size	5.346 x 3.003mm (16:9)

Effective Pixels	Horizontal: 1920, Vertical: 1080
Pixel Size	2.75um x 2.75um
Resolution	1080p / 1080i: 1920 x 1080 720p & 720i: 1280 x 720
Resolution/Rate	1080 60p/ 59.94p/ 50p/ 30p/ 29.97p/ 25p 1080 60i/ 59.94i/ 50i 720 60p/ 59.94p/ 50p/ 30p/ 25p
Output	HD-SDI/ 3G-SDI (1 BNC) HDMI 1.3a
Color Space	4:2:2 (YCbCr) 10 bit
Camera Control	RS-485, OSD Button
Operation Temp	32°F~104°F
Dimension	49mm x 49mm x 71mm 1.92" x 1.92" x 2.79" (With default 3.6mm lens)
Power	6W at 12VDC (+9 ~ +15VDC)

Ordering Information

SI-62S-E	Desktop PC Controller, w/ Intel® Core™ i7-8700, 4GB x2 DDR4, 1x 2.5" 128GB MLC industrial-grade SSD, 1x 2.5" 500GB HDD, 1x SC550N4 SDI capture card, 2x AIDA GEN3G-200 Camera
SI-62S-S	Server PC Controller, w/ Intel® Xeon® E-2278GEL, 8GB x2 DDR4, 1x 2.5" 128GB MLC industrial-grade SSD, 1x 2.5" 2TB HDD, 1x SC550N4 SDI capture card

System Dimensions

