Persee + 3D Camera Computer

Product specification

Chapter 1: Product hardware specification table

parameter	description	Remarks information
Product Name	Persee + 3D Camera Computer	
Product structure	Integrated design	
SOC	Amlogic A311D	
CPU	ARM Cortex-A73*4+CPUCortex-A53*2	
GPU	Mali-G52 MP4	
Memory	4G LPDDR	
Storage	32G EMMC	
Storage expansion	Support for up to 128G micro SD card expansion	
Persee +Support for depth image resolution	1280x1024@7/10/15/30fps；640x480@7/10/15/30fps；320x240@7/10/15/30fps；160x120@7/10/15/30fps	
Support for color image resolution	2048X1536@15FPS 1920*1080@30FPS 1280*720@30FPS 1024*768@30FPS 640*480@30FPS	
Deepth working range	0.6-8m	
Depth image FOV	H55°±1° V45±1° D65°±1° @ 1m	
Color imageFOV	H74°±1° V59°±1° D86.5°±1°	
Persee +Depth camera Baseline	75 mm	
Persee + Depth accuracy	3mm@1m	
Persee+ Laser safety	Class1	
Display interface	HDMI	HDMI 2.0
WIFI and Bluetooth	WIFI：2.4G、5G，Bluetooth 5.0	
Ethernet	RJ45 Gigabit Ethernet	
Debug interface	Type C debug	
key	Upgrade button	

Power indicator	NO	
Power input	Support 12V DC power input	
operating system	Android 9.0 /ubuntu 18.04	
Video decode	VP9 Profile-2 up to 4Kx2K@60fps o H.265 HEVC MP-10@L5.1 up to 4Kx2K@60fps o AVS2-P2 Profile up to 4Kx2K@60fps o H.264 AVC HP@L5.1 up to 4Kx2K@30fps o H.264 MVC up to 1080P@60fps MPEG-4 ASP@L5 up to 1080P@60fps (ISO-14496) o WMV/VC-1 SP/MP/AP up to 1080P@60fps o AVS-P16(AVS+) /AVS-P2 JiZhun Profile up to 1080P@60fps o MPEG-2 MP/HL up to 1080P@60fps (ISO-13818) o MPEG-1 MP/HL up to 1080P@60fps (ISO-11172) o RealVideo 8/9/10 up to 1080P@60fps o Multiple language and multiple format sub-title video support o MJPEG and JPEG unlimited pixel resolution decoding (ISO/IEC-10918) o Supports JPEG thumbnail, scaling, rotation and transition effects o Supports *.mkv,*.wmv,*.mpg, *.mpeg, *.dat, *.avi, *.mov, *.iso, *.mp4, *.rm and *.jpg file formats	
Audio decode	Supports MP3, AAC, WMA, RM, FLAC, Ogg,Dolby Digital optional , Dolby Digital Plus optional, DTS optional and programmable with 7.1/5.1 down-mixing • Built-in serial digital audio SPDIF/IEC958 input/output and PCM input/output • 3 built-in TDM/PCM/I2S ports with TDM/PCM mode up to 384kHz x32bits x 8ch or 96kHz x 32bits x 32ch and I2S mode up to 384kHz x 32bits x 8ch • Digital microphone PDM voice input with programmable CIC, LPF & HPF, support up to 8 DMICs • Built-in stereo audio DAC • Supports concurrent dual audio stereo channel	

	output with combination of analog+PCM or I2S+PCM	
Audio output	3.5mm audio output	
microphone	4 microphone linear microphone array	
Infrared reception	Support infrared remote control reception	Infrared remote control available
Bluetooth remote control	Support function	Don't mention Bluetooth for remote control
Usb data interface	Type A USB 3.0	
USB Debug	Type C Debug	Used for firmware burning and debugging
Operating temperature	0°C-40°C	
Applicable scenario	indoor	
Typical power consumption	7.5W	Typical power consumption: refers to the use of Persee + for acquisition depth, color data acquisition and display; does not include the use of algorithms
Storage temperature	-20℃-60℃	

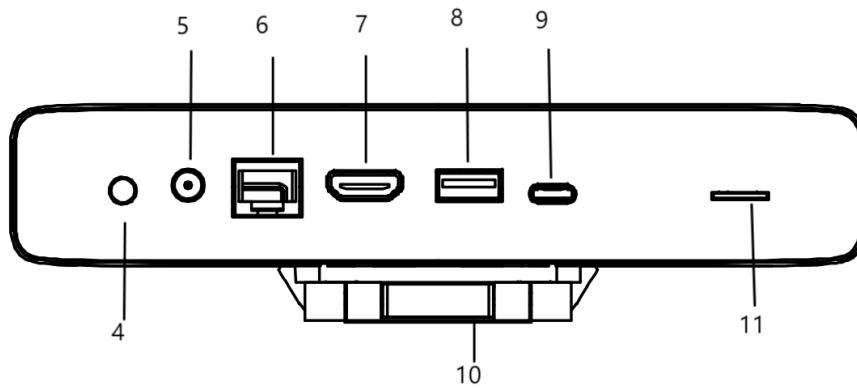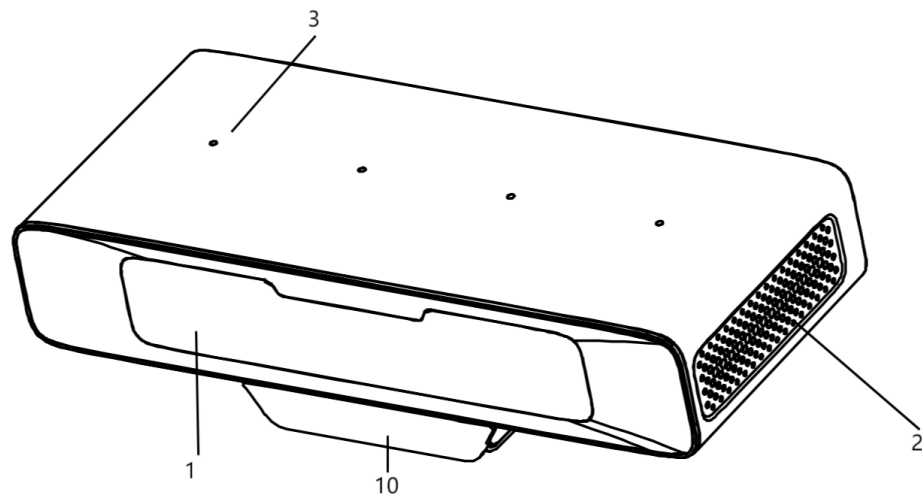# Chapter 2: Appearance diagram

2.1 Front View

2.2 Top View

2.3 Rear View

AUDIO   DC IN   LAN   HDMI   USB   TYPE-C   TF CARD

Chapter 3: Persee+ Interface description

5.1 Interface description

1	RGB-D lens and lens cover
2	Air inlet and outlet
3	Microphone array
4	3.5mm audio output (with update buttons)
5	DC-IN (12V input)
6	Gigabit Ethernet
7	HDMI out
8	USB 3.0
9	USB 2.0 Type C （Debug and burning firmware function）
10	Removable deformable support
11	Micro sd expansion card slot

5.2 Dimension drawing

178±0.3
34±0.3
45.7±0.4
56±0.2
67.4±0.3

75±0.3
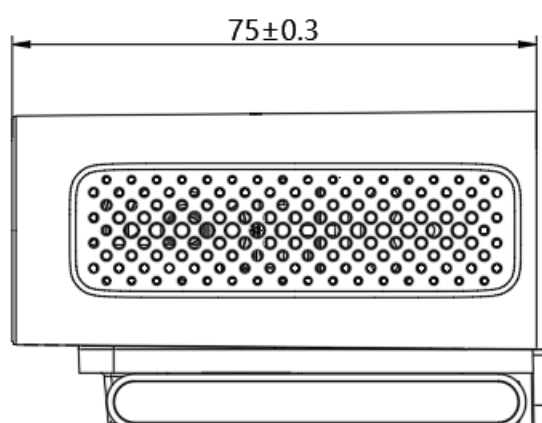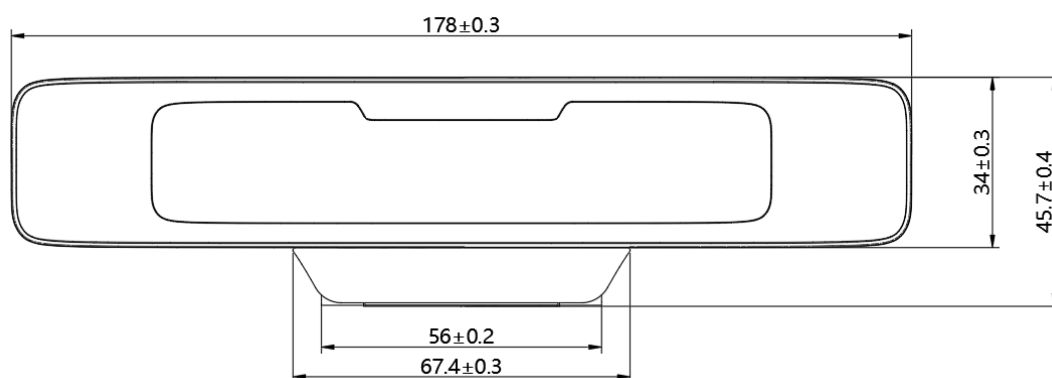
Chapter 4: Product certification information

Certification project	Whether the certification is supported or not	
3C certification	YES	
SRRC certification	YES	
FCC ID certification	YES	
TELEC certification	YES	
CE certification	YES	
ROHS certification	YES	
Laser safety certification	YES	class 1
KCC certification	NO	

FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any inte rference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

•Increase the separation between the equipment and receiver.

•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

•Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.