

PRODUCT CATALOG 2021-2022



What

ScanViS team consists of well-experienced specialists from product development (hardware and software), R&D, technical support, and sales and marketing. Designing and implementing end-to-end solutions with facial recognition technology in access control, events and conferencing, customer analytics, and public security are our core strengths.

ScanViS expedites the use of top-notch, future-proofing facial recognition technology for safe, accurate authentication process to enhance operation efficiency and team performance in both private and public sectors. We aim to make ID verification processes more smart, efficient, reliable, and convenient, and to make internal and external services more personalized.

How

We have currently reached out to enterprises and public organizations who need enhanced private security for their offices, facilities, commercial centers and events in Asia, Europe and South America. Our global distribution networks will continue to expand through strategic partnerships.



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ACCESS CONTROL SOLUTION



GateGuard Series

delivers lightening face detection speed of less than one second. Regardless of partial occlusions, different forms of face expressions, and tilt angles, its powerful hardware speeds up facial feature extraction, compares up to 30K databases, and can work with photos up to 10 years ago.

Robust and Reliable



Fast Face Recognition < 1 second



Liveness Detection Differentiate live person from photos/videos



Minimal investment Integration with existing access management systems



High Accuracy False match rate < 0.001%

Applications





GateGuard Series

Scan for more info







Performance

GateGuard TH+ GateGuard TH

0.3 - 2m
50,000 faces + 50,000 cards
~0.3s typically
Support
_

Thermal Detection Performance

-	Resolution:	Response Time:
	32x32 pixel for thermal imaging	500ms
Detection distance	0.6 - 2m	0.3 - 0.6m
Measurement range	35°C - 42°C with 0.1°C resolution	32°C - 43°C with 0.1°C resolution
Accuracy	≤0.5°C	≤0.3°C
Operation temperature	8°C- 35°C	16°C- 35°C

Hardware

CPU	Dual-core A	72 and Quad-core A53
GPU		Mali-T860
RAM / ROM		2GB / 8GB
Camera resolution	1	920 x 1080
Screen size		7 inches
Touch screen		Support
MiFare card standard	EM4100, ISO14	443A, MiFare (13.56MHz)
Door control	Wiegand 26/32	/34 or dry contact output
Authentication factor	Face, QR code	e, MiFare card, passcode
Network	Ethernet/ WiFi (optional)	
Input voltage	12V DC (100-240V AC adapter), 802.3at PoE	
Power consumption		< 24W
Wide dynamic range		100dB
Operating temperature	1	6oC ~ 35oC
Operating humidity	5-90%	
Ingress protection	IP30	
Dimension (device only)	255 x 125 x 25 mm	267 x 125 x 89 mm
Weight	0.8 Kg	0.83 Kg
Installation	Wall mount, speed gate integration	Wall mount, speed gate integration

Window-based Management

Password protected local management	Yes	Yes
ScanViS Cloud Management	Yes	Yes
RESTful API	Yes	Yes
Public/Private Linux Cloud Platform	_	_











ID management

Group and schedule setting

Analysis dashboard

message





GateGuard PRO with Wrist Temperature Detector (WTD) GateGuard Lite Performance

Face detection distance	0.3 - 2m	0.5 - 2m	
Capacity	50,000 faces + 50,000 cards	1,500 faces	
Access log capacity	-	20,000	
Speed	~0.3s typically	~2s typically	
Liveness detection	Support	Support	
Mask detection	Support	-	

Thermal Detection Performance

Detection distance	<5cm	-	
Measurement range	33°C - 43°C with 0.1°C resolution	-	
Accuracy	0.2°C	-	
Operation temperature	0°C- 40°C	-	

Hardware

CPU	Dual-core A72 and Quad-core A53	Quad-core A17
GPU	Mali-T860	Mali-T764
RAM / ROM	2GB / 8GB	2GB / 8GB
Camera resolution	1920 x 1080	1280 x 800
Screen size	7 inches	8 inches
Touch screen	Support	-
MiFare card standard	EM4100, ISO14443A, MiFare (13.56MHz)	-
Door control	Wiegand 26/32/34 or dry contact output	Wiegand or dry contact output
Authentication factor	Face, QR code, MiFare card, passcode	Face
Network	Ethernet/ WiFi (optional)	Ethernet/ WiFi (optional)
Input voltage	12V DC (100-240V AC adapter),	12V DC (100-240V AC adapter)
	802.3at PoE; (WTD: 5V vis USB)	
Power consumption	< 24W	< 24W
Wide dynamic range	100dB	-
Operating temperature	0°C ~ 40°C	0°C ~ 60°C
Operating humidity	5-90%	5-90%
Ingress protection	IP32	-
Dimension (device only)	235 x 126 x 26 mm; (WTD: 88 x 30 x 25 mm)	240 x 128 x 20.5 mm
Weight	0.72 Kg	0.83 Kg
Installation	Wall mount,	Wall mount,
	speed gate integration	speed gate integration

Window-based Management

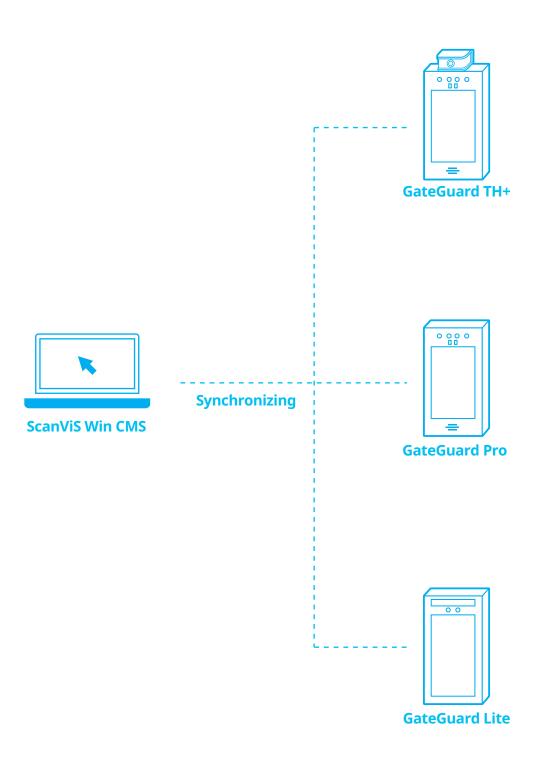
Password protected local management	Yes	Yes
ScanViS Cloud Management	Yes	-
RESTful API	Yes	Yes
Public/Private Linux Cloud Platform	Yes	-



ScanViS Win CMS

Centralized platform for efficient device management

ScanViS Win CMS can be installed in any standard PC and notebook computer. It can centralize device management of the whole GateGuard series namely GateGuard, GateGuard PRO, GateGuard TH, and GateGuard Lite. The platform supports user group management to control access right and access time.













Scan for more info





ScanViS Win CMS

Minimum Installation Rquirement

CPU	I3 or above
RAM	4GB
Harddisk free space	10GB
Operatiing system	Win10

Software Feature

GateGuard discovery	Auto-discovery or add IP address manaully	
GateGaurd monitoring	Online / offline status	
User addition	Individual via GUI or batch upload	
User group	Allowable access GateGuards	
	Allowable access time	
	Holiday setting	
Access log	View on GUI or download to files	
	Configurable store duration	
	Auto detele when hard disk is full	

Capacity

Device	50 GateGuards
User database	30,000

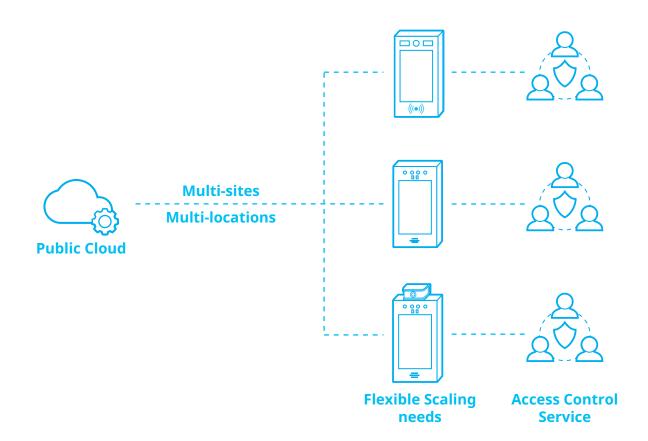


ScanViS Cloud CMS

Centralized platform for efficient device management on cloud

ScanVis Cloud CMS offers a low-cost and easy-to-deploy management system to all GateGuard devices. At the same time, it can be scaled up to unlimited devices or scale down anytime, anywhere as needed. There is no extra fixed maintenance cost to run the system, leaving the running cost transparent and easy to manage.

Access Control as a Service (ACaaS)





Low Setup Cost



multi-locations







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ScanViS Cloud CMS

Software Feature

Visitor management	Visitor Record, Visitor Settings
Member management	Member create/ edit/ delete
Watchlist	Alert when the person in watchlist shows up
Access Record	Real-time access record and filtering
Access analytics	Statistical dashboard to see the data distribution
Permission management	Flexible to configure the permission time and device
Admin	Company information, device management, account management
Task center	Data batch upload/ download, data backup
System log	Operating time, account type, operator, operation type, object,
	specific contents
Attendance	View/ export Individual member monthly attendance report

Capacity

Device	Unlimited
User database	Unlimited faces can be uploaded to the Cloud CMS, but up to 30k
	faces per single GateGuard device assignment.

Public Cloud

Cloud host	AWS
GDPR	Complied

OP RETAIL SOLUTION



Retaik Solution

offers an interactive source to collect and deliver information through customer engagement. It helps boost store experience with intelligent signage and retail analytics. With indoor and outdoor displays, video walls, and stretched panels, business owners have a variety of product options that allow for creating custom digital installations to cater to their business needs.

Easy and manageable



Interactive display with build-in camera



Recognize re-visiting customer with notification alert



Analyze the age, gender and combination of audience



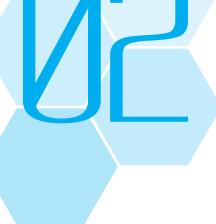
Flexible and easy deployment

Applications



Retail advertisement





ScanViS Display

An interactive retail solution for customer engagement

ScanViS Display is an end-to-end intelligent signage solution for targeted advertising in retail or event environment. It contains a front-end device, either an all-in-one ScanViS intelligent signage is structured with 40" screen display, embedded camera and ScanViS processor, or a ScanViS Processor box with external USB camera and HDMI display. It controls the content and data through a cloud-based content management system (CMS) and a facial recognition (FR) engine respectively.



Target advertisement



VIP and revisiting customer recognition

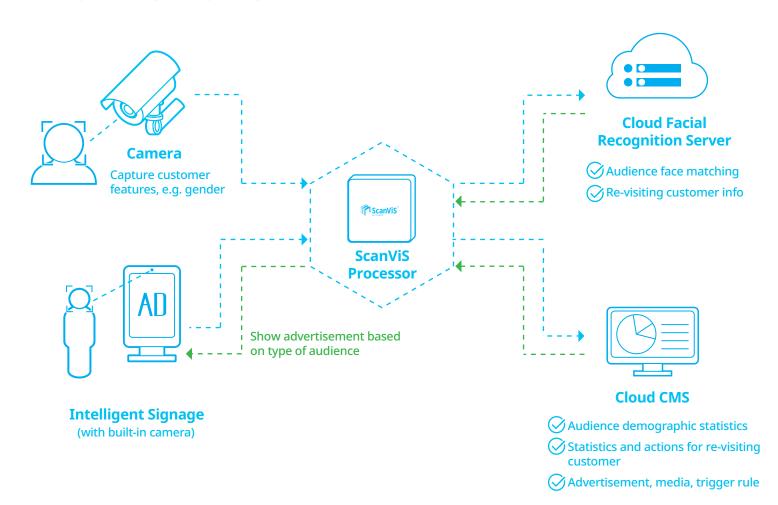


Visitor analysis



Cloud CMS

How Its Works



Through Cloud CMS, user can manage:



Targeted advertisement rule setting



Viewing time of each advertisement



Visitor number and demographic analysis

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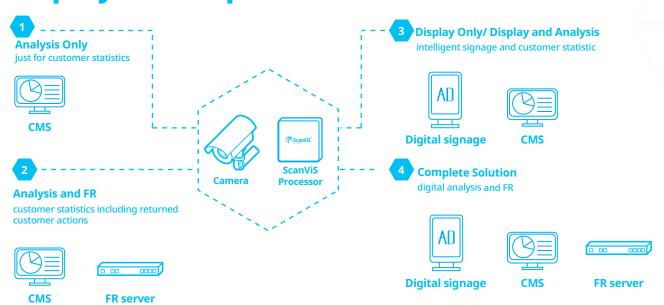


ScanViS Display

Minimum Installation Rquirement

CPU	Quad-core ARM Cortex-A53	
GPU	Penta-core Nall-450	
RAM	1GB	
ROM	8GB	
Interface	HDMI 2.0	
	USB 2.0 * 2	
	AV output x 1	
Network	RJ45 Ethernet	
	802.11 b/g/n	
Dimension (mm)	115 x 115 x 20	
Weight	130 g	
Power	12V DC / 1 A	
	With AC power adapter	

Deployment Options



OS EVENT SOLUTION



helps event organizers promote seamless event registration and check-in process through speeding up entry time, enhancing security, and personalizing the experience throughout the event period. It can simplify or integrate into existing check-in systems with minimal hardware investment.

Accurate and Scalable



by >30%



Blacklist alarm for appropriate action



Enable integration with existing building access management system



Enhances security with instant monitoring

Applications



Event registration

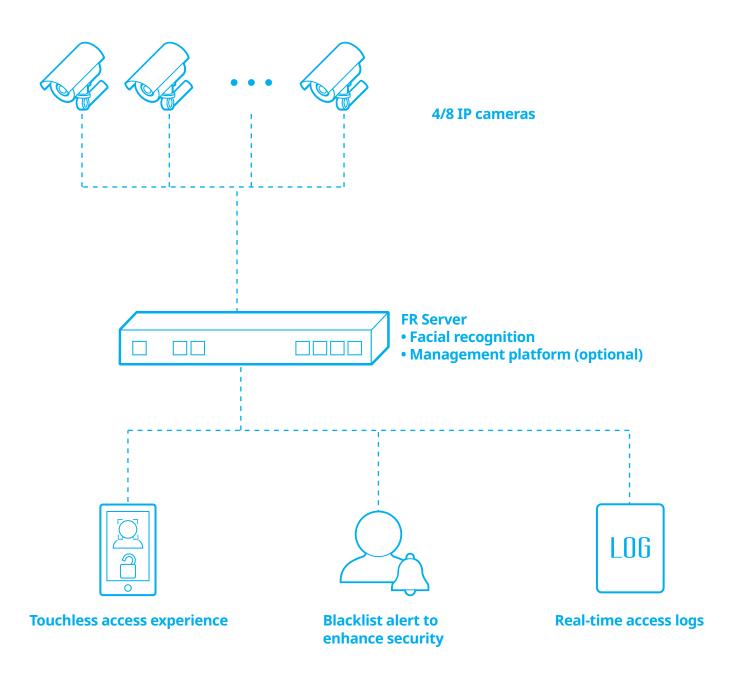




ScanViS CamGuard

Fast and scalable registration and check-in solution for events

ScanViS CamGuard delivers event solution embracing facial recognition server that works with IP cameras. Its management platform can operate alone or in a dedicated server for large deployment with multiple CamGuard servers.





Registered users up to 100k faces with recognition time <1s



Real-time access log



ID group management on web GUI



3rd party management system

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IP camera + server

Performance

Supported cameras	4 IP cameras	
Minimum size of detected face	50 x 50 pixel	
Capacity	100,000 faces	
Speed	~1s typically	
Maximum faces recognized per frame	20	
Recognizable angle	Yaw/ pitch/ roll= -30° ~ +30°	
Captured photo size	Single capture photo is less than 200kb	
Liveness detection	Support	

Hardware

CPU	E3-1220v6 (Quad Core 3.0GHz)
RAM / ROM	32GB DDR4
Hard Disk	2TB
Operating system	Ubuntu Linux 18.04
Network	Ethernet
Input voltage	100-240V AC
Power consumption	~290W
Operating temperature	0°C ~ 40°C
Dimension	1U
Weight	1kg
Installation	Rack Server

74 PUBLIC SECURITY SOLUTION



Public Security Solution

is powered by the world-leading facial recognition algorithm that runs with multiple cameras to easily track and locate individuals, like suspected criminals, persons of interest, or members of terrorist groups. Together with automatic alert system, the solution supports cross-platform portrait sharing including face-capturing cameras, smart glasses and bodycams.

Fast and safe



Static Face Imag Search Up to 1 Bn face database



Watchlist capacity Up to 1 million face images



Minimal investment Less hardware requirement



Mobile terminal real-time query Support up to 30k mobile terminals

Applications





Security Surveillance Series

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Performance FacePack

Supported cameras	4 IP cameras	
Input video stream	1080P 25bps	
Minimum size of detected face	60 x 60 pixels	
Capacity	3,000,000 faces	
Face comparison	1:1 Identity Verification	
	1:N comparison (support	
	database of 300,000 faces)	
	n:N Database Comparison	
Accuracy / matching ratio	97% @ 0.00001% False Match Ratio	
	94% @ 0.0000001% False Match Ratio	
Maximum faces recognized per	20	
frame		
Real time surveillance and alarm	<3s (max 300k face database)	
delay		
Storage and retrieval of passers-by	15 days	
Face structural data support	Age, gender, glasses, mask	

Hardware

CPU	Intel Xeon E5-2696V4 x 1	
RAM / ROM	128GB DDR4	
Hard disk	2TB SSD HDD	
Operating system	Embedded real time Linux	
Display	17.3" LCD, 1920x1080 resolution	
Network	4 x PoE	
WiFi	2.4GHz/5GHz 2x2 MIMO,	
	WiFi Hotspot	
	30 mobile terminal connections	
USB	USB3.0	
	FAT/ exFAT/ NTFS	
Input voltage	100-240V	
Power consumption	600W	
Operating temperature	-10-°C ~ 50°C	
Operating humidity	10% ~ 90%	
Dimension (mm) (H x W x D)	352 x 418 x 186	
Weight (including suitcase)	9 kg	





person of interest



Rapid deployment with one click



Offline Video Analysis

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Supported IP cameras (video streams)

Query per second (image stream QPS)



Performance

Face-In-One (4 GPU cards)

50 80 150

(8 GPU cards) 100 160 300

Face-In-One

No. of face capture Input video stream 1080p (1920 x 1080) 25fps Minimum size of detected face 60 x 60 pixels Capacity 1,000,000,000 faces Face comparison 1:1 Identity Verification

1:N comparison (support repository size of 1,000,000 faces)

n:N face comparison of 2 databases

Face capture ratio 99% Accuracy / matching ratio 97% @ 0.00001% False Match Ratio 94% @ 0.0000001% False Match Ratio Maximum faces recognized per frame 20 Real time surveillance and alarm delay <2s Storage and retrieval of passers-by 15 days or more Search passers-by with images Yes

Hardware

CPU	Intel E5 2680 V4*2 / Xeon6126*2 / Xeon6130*2	
GPU	4 * P4 8*P4	
RAM / ROM	128/ 256/ 512 GB	
Hard disk	480GB SSD System Disk plus 1T*12 SSD (raid6) / 1.9T*9 SSD (raid6)/	
	2T*8 HDD (raid5)/ other	
Operating system	Linux	
Network	2* 10GB Ethernet	
Input voltage	100-240V AC	
Power consumption	1600W redundancy power module	

Ethernet







City-wide private network

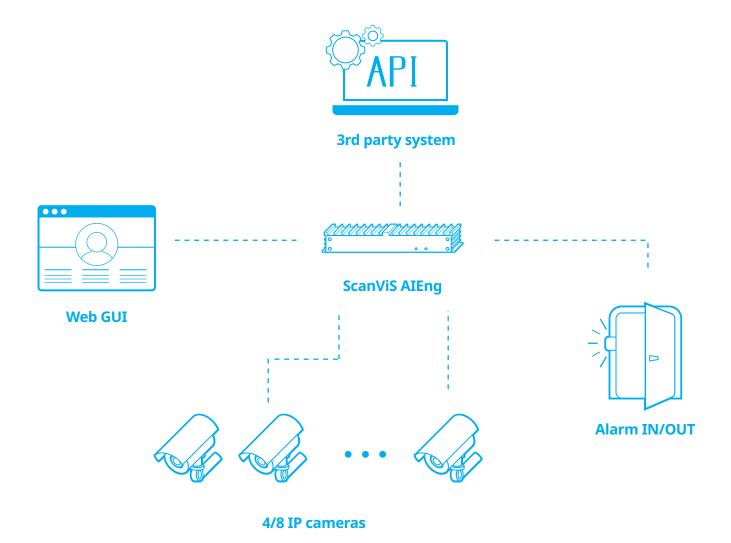


Face-In-One facial recognition platform

ScanViS AlEng

Enterprise-grade facial recognition server for corporate security in premises

ScanViS AIEng is a facial recognition lite server that detects individual faces, extracts attributes, and matches the captured face with a database of 1 million faces. It offers ID management, blacklist alerts, multi-channel facial image analysis, and camera management. With the built-in security and facial recognition system, this lite server enables data management at anywhere, and allows customization to fit applications and scenarios in an optimal way.







Support > 1,000 people flow per minutes





faces in one scene

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Performance

AIEng

	O
Supported cameras	4/8 IP cameras
Input video stream	1080P (1920x1080) 25fps
Minimum size of detected face	60 x 60 pixels
Database capacity	1,000,000 faces
Facial recognition repository size	300,000 faces
Accuracy / matching ratio	97% @ 0.00001% False Match Ratio
	94% @ 0.0000001% False Match Ratio
Maximum faces recognized per frame	20
End to end facial recognition speed*	<3s
Face capture ratio	99%
Captured photo size	~50KB
Face attributes support	Age, gender, glasses, hat, sunglasses, mask, mustache,
	hair style, shirt color and style

Hardware

CPU	AI Chipset for facial recognition
Memory	16GB
Hard disk	64GB
Network	Ethernet RJ45
Interface	RS485/ HDMI/ USB/ Audio/ Alarm In-Out
Input voltage	DC12V/2A
Power consumption	<10W
Operating temperature	-20-°C ~ +65°C
Operating humidity	10% ~ 90% (RH)
Dimension (mm)	233 x 146 x 52
Weight	1.8 kg



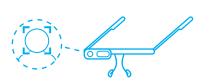
ScanViS Smart Glasses

Highly adaptable device to complete security services

ScanViS Smart Glasses is an intelligent wearable gadget with three significant functions including face search, giving command and data distribution. It is structured with screen display, camera, anti-noise microphone and speaker, ensuring compatibility and efficient communication with other devices to serve high performance surveillance purposes.



Zooming function for on-site face search



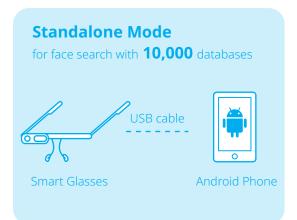
Built-in screen display to show face data

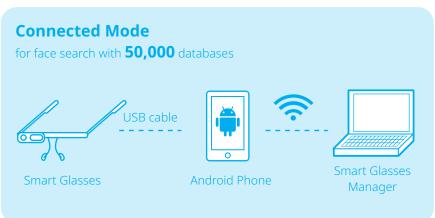


Offline operation with mobile phone



Support online operation with 3rd party face platform









Capture up to 5 faces in 1 scene (connected mode)



Long capture distance up to 4 meters



Real-time alert updates



Low power consumption

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Smart Glasses

Performance

Maximum faces recognized in one scene	5 faces (mobility)
-	20 faces (static)
Database capacity	1 Billion faces (with Smart Phone + Face-in-one)
	50,000 faces (Smart Phone + Smart Glasses Manager)
	10,000 faces (standalone with Smart Phone)
Watchlist capacity	100,000 faces (with Smart Phone + FacePack Lite)
	10,000 faces (standalone with Smart Phone)
Face comparison	1:N comparison
Accuracy / matching ratio	97% @ 0.00001% False Match Ratio
	94% @ 0.0000001% False Match Ratio

Hardware

CPU	Intel Movidius Myria	
Display	Resolution: 640 x400	7
	Field of view (FOV): 20°(diagonal)	
Camera	1080P HD video	
Interface	USB Type-C 2.0	
Control	Customized button	
	Mobile client	
Audio	Input: anti-noise dual mic	
	Output: single speaker	
Size (mm)	159 x 180 x 34	
Weight	45g (contains glasses frame)	





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