

Choose a platform. Define the delivery.

AI + AR smart eyewear | OEM / ODM / JDM

Current reference edition: 20 September 2026. This guide distinguishes standard platforms, engineering prototypes and historical project references. It replaces earlier editions of the product brochure.

Start with the task, software responsibilities and commercial stage. Confirm the exact hardware, firmware, SDK and delivery configuration before evaluating or ordering.

Standard SDK	Request the available standard package; C100 Android SDK / Demo is free and unchanged.
Paid sample evaluation	Confirm configuration, availability, hardware cost and a written evaluation plan.
Standard-platform branding	Choose a model and scope branding, packaging and procurement.
Custom development	Define interfaces, technical contacts, development budget and acceptance criteria.

Compare current products at topaiglasses.com/products

Project intake and SDK requests: topaiglasses.com/contact

vanda@topaiglasses.com

Company and delivery boundaries

SmartXY | Shenzhen Xingyi Intelligent Technology Co., Ltd.

Founded 18 October 2019. The Shenzhen R&D office coordinates product, engineering and project intake. Manufacturing-site figures below are owner-confirmed reference information, not an independent facility audit.

R&D office	Room 905, Building 1, Xinyi Lingyu R&D Center, No. 30 Honglang North 2nd Road, Zone 69, Xingdong Community, Xin'an Subdistrict, Bao'an District, Shenzhen, Guangdong 518100, China
Manufacturing site	Floor 2, Building A4, Tuofu Songshan Lake 2025 Technology Park, Songshan Lake High-tech Industrial Development Zone, Dongguan, Guangdong, China
Clean-room area	4,800 m²; Class 10,000
Production planning	8 lines; annual capacity 400,000 units. Capacity is not actual output, shipments or a reserved production slot.
Traceability	Agree records, retention, access and any ERP/MES integration per project; no universal deployed-system claim is made.

Choose the engagement

Standard-platform branding uses a selected SmartXY model with agreed branding, packaging and configuration. Build-to-print OEM is a separate engagement based on customer-controlled drawings, BOM, design rights and acceptance requirements, subject to feasibility review. ODM adds scoped platform changes. JDM scopes deeper joint engineering. Each proposal identifies deliverables and rights.

Evidence and rights

Product certifications must identify the model, revision, destination market, holder and applicable report. Patent publication, grant notice, grant and current legal status are distinct. A component choice, NDA, visit or discussion does not establish a customer endorsement or order.

[Review the documented patent records and their evidence scope](#)

Platform selection index

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Mass production since late 2024

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Mass production

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Mass production

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EVT3; functional CNC prototypes; customizable industrial design for mass-production projects

C100

EVT3; functional CNC prototypes; customizable industrial design for mass-production projects

Confidant

Historical custom project developed in 2021 for a disabled persons' federation in China, for mainland-China use

Falcon 007 Pro

Historical customized-project reference

Audio 01

ODM project orders only

Nudge

Availability and delivery configuration require project confirmation.

BB Medical

Availability and delivery configuration require project confirmation.

Missing values are not evidence of support. Historical projects are not available as original sample systems. Engineering prototypes are not mass-production releases.

K900

K900 camera-and-audio reference platform; customer-specific ODM derivatives have separate software and firmware scopes.

Suitable task	First-person photos, recorded video and open-ear audio; partner-configured live workflows.
Software dependency	Companion or partner app and the selected AI / streaming service; glasses provide capture, audio and connectivity.
Key limitation	No AR display. Partner livestreaming does not establish continuous-stream access in the standard SDK.
Evaluation path	Request the SDK scope or a paid sample review; current shipments mainly serve customer-specific ODM orders.

Reference specification

Display	No AR display
Camera	Sony 13MP
Weight	39 g
Battery	8-10 h music playback; 55 min continuous video recording
Commercial stage	Mass production since late 2024
Engagement scope	K900 is an earlier-generation model that entered mass production in 2024. Current shipments mainly fulfill customer-specific ODM orders. For project customers with an allocated business budget and ODM customization requirements, we recommend arranging an in-person meeting at our Shenzhen office to discuss the ODM implementation plan.
Sun lenses	Clip-on or magnetic attachment, depending on the model and configuration; AI smart glasses and sunglasses for everyday outdoor wear.

[Current product page and detailed technical scope](#)

K900 | functions & software

Content reviewed 2026-09-20. Exact hardware revision, firmware build and SDK release: confirm with the evaluation package. Content review is not a release or laboratory test date.

Still photography | Available in stated reference configuration

Photo capture on the reference K900; app control and SDK access depend on the supplied build.

Processing: Glasses capture; companion app handles the agreed workflow.

File transfer | Requires evaluation

Confirm file formats, transfer path, permissions and error recovery in the supplied SDK / app.

Processing: Glasses storage and the companion app; transport to confirm.

Local video recording | Available in stated reference configuration

Recorded 1080p video at 30 fps is described for the reference product; this is separate from live streaming.

Processing: Glasses capture and record; app handling is configuration-specific.

Live preview | Requires evaluation

A preview interface and supported rate are not confirmed for the standard SDK.

Processing: Glasses camera plus selected receiving application, if agreed.

Continuous camera stream | Requires evaluation

Continuous stream access, transport and runtime need interface evidence from the selected build.

Processing: Glasses capture; application / service pipeline to evaluate.

Third-party livestreaming | Specified custom configuration

Partner-configured real-time video and audio workflows; service, app, network and firmware scope must be confirmed. Do not infer a standard SDK stream API.

Processing: Glasses provide media; partner app / connected service delivers it to viewers.

Text / icon display | Not provided

K900 has no AR display.

Processing: No glasses display output.

Arbitrary display canvas | Not provided

K900 has no AR display.

Processing: No glasses display output.

Software delivery

Supported phone operating systems and minimum versions require confirmation for the supplied K900 app / SDK.

Request the available K900 SDK, app and integration documentation for the selected configuration. A public SDK release number, package manifest and standard streaming interface have not been confirmed.

The customer defines the companion application, service account, consent and acceptance workflow. Changes to SDK, firmware or app behavior and any source-code license require a separate agreed scope.

[Request and verify the evaluation package](#)

AR99

AR99 camera-free monocular display reference platform; AR99-MY is a separate frame product and AR99 Pro has a different optical configuration.

Suitable task	Phone-assisted glanceable text, prompts, translation and navigation displays.
Software dependency	Bluetooth with a paired phone and companion or partner app; AI and service functions run on the phone or connected service.
Key limitation	No camera. Arbitrary-canvas rendering and application interfaces need package evidence; optical resolution alone is not an API.
Evaluation path	Request software scope or paid sample evaluation; logo-branded pilots on existing frames start at 200 units.

Reference specification

Display	0.12 cc Micro-LED optical-engine volume; Volume holographic grating (VHG) waveguide; 30° FOV; 640×480 @ 30Hz; right-eye monocular single-green; up to 2,000 nits in-eye brightness under reference conditions
Camera	None
Weight	Approx. 28 g bare device, excluding prescription lenses
Battery	100 mAh fixed reference battery; approx. 1-3 h feature use and 72+ h standby under reference conditions; actual runtime varies with function, brightness, Bluetooth/app use, network, environment and battery condition
Materials	Magnesium-lithium alloy + TR90 + titanium-alloy hinge
Interaction	Physical key and temple touch area; smart ring integration is complete; interaction mappings depend on firmware and app; ring configuration and package contents are confirmed in the project quotation
Connectivity	Bluetooth with a paired phone and companion or partner application
Software	Mentra OS support; paired phone with companion or partner application; software integration, localization and service scope are confirmed per project
Commercial stage	Mass production
Engagement scope	OEM / ODM / JDM and white-label projects; logo-branded pilots on existing frames from 200 units; deeper customization, pricing and NRE are scoped at RFQ
Sun lenses	Clip-on or magnetic attachment, depending on the model and configuration; AI smart glasses and sunglasses for everyday outdoor wear.

[Current product page and detailed technical scope](#)

AR99 | functions & software

Content reviewed 2026-09-20. Exact hardware revision, firmware build and SDK release: confirm with the evaluation package. Content review is not a release or laboratory test date.

Still photography | Not provided

The AR99 reference product has no camera.

Processing: No glasses camera capture.

File transfer | Requires evaluation

Confirm application content transfer and any file interface; camera-media transfer is not an AR99 function.

Processing: Phone / app to glasses over Bluetooth, with interface scope to confirm.

Local video recording | Not provided

The AR99 reference product has no camera.

Processing: No glasses camera capture.

Live preview | Not provided

No on-glasses camera preview; AR display content is a separate workflow.

Processing: Phone / app supplies display content.

Continuous camera stream | Not provided

No on-glasses camera stream.

Processing: No glasses camera capture.

Third-party livestreaming | Not provided

No wearable camera livestream from AR99; receiving or displaying third-party service content requires separate evaluation.

Processing: Any service content is handled by the paired phone / app.

Text / icon display | Available in stated reference configuration

Single-green information display in the right eye; text, prompts and icon behavior depend on the supplied app and firmware.

Processing: Glasses display; phone / app / connected service prepares content.

Arbitrary display canvas | Requires evaluation

An arbitrary display canvas is not confirmed by the 640 ? 480 optical specification; request rendering-interface evidence.

Processing: Phone / app and glasses display interface, subject to review.

Software delivery

Paired-phone companion or partner application; supported Android / iOS versions depend on the supplied software and require confirmation.

AR99 supports Mentra OS. The applicable application, integration scope, license, SDK availability and compatible phone versions are confirmed per project; no public SDK version or package download is published.

The customer or integration partner defines content, service accounts, localization and acceptance criteria. SDK access, finished phone-app delivery, firmware changes and source-code rights must be agreed separately.

[Request and verify the evaluation package](#)

AR99-MY

Reference facts below retain their stated configuration and historical or project boundaries. Confirm any unlisted function, software interface or delivery condition before procurement.

Platform	AR99
Brand	Mimosa
Display	0.12 cc Micro-LED optical-engine volume; Volume holographic grating (VHG) waveguide; 30° FOV; 640×480 @ 30Hz; right-eye monocular single-green; up to 2,000 nits in-eye brightness under reference conditions
Camera	None
Weight	Approx. 29 g bare device, excluding prescription lenses
Dimensions	Approx. 151 × 156 × 47.8 mm
Battery	100 mAh fixed reference battery; approx. 1-3 h feature use and 72+ h standby under reference conditions; actual runtime varies with function, brightness, Bluetooth/app use, network, environment and battery condition
Materials	Magnesium-lithium alloy + TR90; memory-metal air-cushion nose pads; titanium and liquid-metal elastic hinge
Interaction	Physical key and temple touch area; smart ring integration is complete; interaction mappings depend on firmware and app; ring configuration and package contents are confirmed in the project quotation
Connectivity	Bluetooth with a paired phone and companion or partner application
Software	Mentra OS support; paired phone with companion or partner application; software integration, localization and service scope are confirmed per project
Commercial stage	Mass production
Engagement scope	OEM / ODM / JDM and white-label projects; logo-branded pilots on existing frames from 200 units; deeper customization, pricing and NRE are scoped at RFQ
Sun lenses	Clip-on or magnetic attachment, depending on the model and configuration; AI smart glasses and sunglasses for everyday outdoor wear.

[Current product page and detailed technical scope](#)

AR99 Pro

Reference facts below retain their stated configuration and historical or project boundaries. Confirm any unlisted function, software interface or delivery condition before procurement.

Display	Surface relief grating (SRG) waveguide; single-green display; 25° FOV; 1,800 nits in-eye brightness
Camera	None
Weight	25 g
Battery	2 × 40 mAh user-swappable batteries; battery replacement does not interrupt operation
Materials	Carbon fiber
Interaction	Physical key and temple touch; a paired ring controller is required and supplied with every unit
Commercial stage	EVT3; functional CNC prototypes; customizable industrial design for mass-production projects
Sun lenses	Clip-on or magnetic attachment, depending on the model and configuration; AI smart glasses and sunglasses for everyday outdoor wear.

[Current product page and detailed technical scope](#)

C100

C100 ATS6095 + MTK8766 reference architecture at EVT3, with functional CNC prototypes; not a released mass-production build.

Suitable task	Prototype an Android camera-and-display workflow for a customer AI service.
Software dependency	Android 11 app on glasses over direct Wi-Fi, or BLE through a phone app. VLM / LLM inference runs off-device.
Key limitation	Camera Stream Access is planned. Prototype demonstrations and chip-level NPU specifications do not confirm released SDK interfaces.
Evaluation path	Get the free unchanged Android SDK / Demo, or request a paid CNC prototype; modifications are a separate paid development scope.

Reference specification

Display	0.08-inch single-green binocular Micro-LED; 25° FOV; 640 × 480 per eye
Camera	Sony IMX681 (12MP)
Weight	45 g
Battery	Removable battery with external charging case; capacity and case configuration confirmed per project
Commercial stage	EVT3; functional CNC prototypes; customizable industrial design for mass-production projects
Sun lenses	Clip-on or magnetic attachment, depending on the model and configuration; AI smart glasses and sunglasses for everyday outdoor wear.

[Current product page and detailed technical scope](#)

C100 | functions & software

Content reviewed 2026-09-20. Exact hardware revision, firmware build and SDK release: confirm with the evaluation package. Content review is not a release or laboratory test date.

Still photography | Available in stated reference configuration

Camera capture is part of the EVT3 reference hardware; app permissions, image formats and SDK entry points require package review.

Processing: Camera on glasses; selected Android / phone app handles captured data.

File transfer | Requires evaluation

Agree stored-file formats, transfer path, permissions and recovery for the selected application.

Processing: Glasses / phone app; transport and storage scope to confirm.

Local video recording | Requires evaluation

The 1080p at 30 fps camera/encode specification and stream demo do not define a delivered local-recording SDK workflow.

Processing: Glasses camera and Android app, subject to interface validation.

Live preview | Requires evaluation

Confirm a preview interface, rendering target and workload in the supplied package.

Processing: Glasses Android app or selected receiving application.

Continuous camera stream | Planned feature

Camera Stream Access for customer-developed local Android apps is a planned release; the development demo does not establish a released API.

Processing: Glasses capture; Android app consumes frames after the interface is released and verified.

Third-party livestreaming | Requires evaluation

No standard third-party livestream service integration is published; scope app, transport, service and thermal validation per project.

Processing: Glasses and selected app / cloud service pipeline.

Text / icon display | Available in stated reference configuration

Single-green binocular display hardware at EVT3; supported text and icon rendering interfaces require package review.

Processing: Glasses render; app / phone / connected service supplies content.

Arbitrary display canvas | Requires evaluation

Display resolution does not establish an arbitrary-canvas SDK; confirm render API, formats, update rate and readability.

Processing: Glasses render through the agreed Android application.

Software delivery

Android 11 is the glasses reference OS. Standard Android SDK / Demo only; no iOS SDK / Demo. Confirm supported phone OS and development-tool versions with the package.

The standard C100 Android SDK and Demo are free for evaluation and customer-led development. Glasses-side and Android phone-side SDKs can be provided. Exact SDK version, package format, named interfaces and compatibility list await package review.

Customers develop their own applications using the unchanged standard package. SDK modifications, feature changes or special requests require prepaid NRE starting at USD 3,000; final quotation depends on scope. This is a development service fee, separate from prototype hardware, app/cloud service, firmware and source-license terms.

[Request and verify the evaluation package](#)

Confidant

Reference facts below retain their stated configuration and historical or project boundaries. Confirm any unlisted function, software interface or delivery condition before procurement.

Category	Historical custom AI assistive-glasses project for mainland China (2021)
Camera	Historical reference: front camera
Sensors	Historical reference: two front-facing obstacle sensors
Navigation	Historical reference: GPS module/antenna shown; map-based spoken route and deviation prompts were subject to map coverage, positioning and connectivity in mainland China
Controller	Historical reference: handheld controller
OCR / scope	Historical optical character recognition (OCR) and obstacle-detection solution for the mainland-China project; not a portable K900 plug-in SDK. Languages, deployment and software integration for a new ODM project require separate development and validation.
AI processing / scope	Historical mainland-China assistive workflows included printed-text OCR with spoken output, scene descriptions and spoken Q&A, common-object and selected-currency recognition under suitable conditions; enrolled-contact recognition requires consent and privacy controls. The original OCR and obstacle-detection solution is not a portable K900 plug-in SDK.
Commercial stage	Historical custom project developed in 2021 for a disabled persons' federation in China, for mainland-China use
Engagement scope	Historical customized-project reference; not an overseas-ready product. Original systems are not available for sample dispatch or testing. Similar applications require a new ODM project with NRE (non-recurring engineering), development time and project budget; scope, fees and schedule are agreed per project.
Sample availability	Original systems are not available for sample dispatch or testing

[Current product page and detailed technical scope](#)

Falcon 007 Pro

Reference facts below retain their stated configuration and historical or project boundaries. Confirm any unlisted function, software interface or delivery condition before procurement.

Category	Historical custom field-operation project reference
Display	Historical reference: 1280×720 HD display; 34° FOV
Camera	1.3MP historical reference camera
Weight	58 g historical reference
Battery	Historical reference: external 5000mAh power source; more than 4 hours of full-function runtime under supplier-sheet reference conditions; actual runtime varied by connected device, feature mix, network, environment and power-source condition
AI processing / scope	Historical custom development included face-recognition and vehicle-traffic-recognition scenarios and first-person audio/video workflows; new overseas applications require a separately scoped ODM project and appropriate intended-use, consent and privacy review.
Commercial stage	Historical customized-project reference
Engagement scope	Historical customized-project reference; not an overseas-ready product. Original systems are not available for sample dispatch or testing. Similar applications require a new ODM project with NRE (non-recurring engineering), development time and project budget; scope, fees and schedule are agreed per project.
Sample availability	Original systems are not available for sample dispatch or testing

[Current product page and detailed technical scope](#)

Further platform directions

Confirm unlisted specifications, software interfaces, commercial stage and the exact delivery configuration. The facts below do not establish medical authorization or a completed pilot.

Audio 01

Display	No display
Camera	None
Engagement scope	ODM project orders only

[Current product page and project boundaries](#)

Nudge

Display	Peripheral visual cue module
Camera	None
Weight	Approx. 30 g

[Current product page and project boundaries](#)

BB Medical

Display	Binocular Micro-OLED; 1920 × 1080 @ 60 Hz; 55° FOV
Weight	205 g excluding data cable
Battery	External DC 5V/2A power

[Current product page and project boundaries](#)

C100 | detailed hardware reference

C100 uses an ATS6095 + MTK8766 dual-chip system. MediaTek MTK8766 is the main controller and Android 11 application host; ATS6095 handles audio and Bluetooth.

User-provided reference parameters, not independent laboratory measurements or certifications. Lumens at the specified APL and power must not be converted into an in-eye nits claim. ATS6095 NPU details do not establish on-device VLM/LLM support or delivered SDK interfaces.

Optics

Panel size	0.08 inch
Display type	Micro-LED, single green, binocular
Resolution	640 (H) × 480 (V) × 2 displays
Field of view	25°
MTF	≥0.6 at 104 lp/mm, 0.8 field
Optical brightness	1.0 lm at APL 25%, 280 mW
Distortion	<1%
Contrast	>100:1
Uniformity	>80% at 9 PointChart
IPD accommodation	55 mm

Bluetooth audio SoC

SoC	ATS6095 — Actions Technology's next-generation flagship wearable audio controller with an in-house CIM (compute-in-memory) NPU. The reference sheet describes ultra-low-power continuous local AI processing for lightweight wearables with small batteries.
MCU	264 MHz STAR
DSP / NPU	DSP: 504 MHz Cadence Tensilica HiFi5 DSP; NPU: MMSCIM, 100 GOPS
SoC RAM / ROM	Internal SRAM: 2.88 MB; ROM: 8 MB; external RAM / ROM supported
Bluetooth / BLE	Dual-mode Bluetooth 6.0
SoC operating system	RTOS (real-time operating system)

C100 | hardware reference continued

Android imaging SoC

Chipset	MediaTek MTK8766 main controller / Android SoC
CPU	Quad-core ARM, 2.0 GHz
Operating system	Android 11

Storage and memory

Storage / RAM	32 GB ROM + 2 GB RAM
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Wi-Fi

Wireless network	Wi-Fi 5, 2.4 GHz / 5 GHz dual-band
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Camera

Camera sensor	RGB camera, Sony IMX681 (12MP)
Video recording	1080p at 30 fps

Sensors and interaction

IMU	6-axis IMU (gyroscope + G-sensor)
Touch gestures	Supported: forward and backward slide gestures
Wear detection	Supported

Audio

Microphone array	5 digital microphone array
Speakers	Left and right stereo speakers
Voice recognition	Supported

Environmental specifications

Protection grade	IP44
Temperature range	Operating: -10°C to 55°C; storage: -20°C to 65°C

Construction and power

Physical keys	2 keys: power on / off and photo capture
Materials	Hinges: titanium alloy + liquid-metal spring plates; shell: TR90 + magnesium alloy
Device weight	45 g
Myopia adaptation	Full Lamination Mount
Battery system	Removable battery + external charging case

Evaluate software before integration

Package identity	Confirm selected model/configuration, hardware revision, firmware build, SDK version, release notes and compatible OS/toolchain.
Access and license	Confirm authorized recipient, permitted use, binary/source components and redistribution restrictions. An NDA alone grants no source rights.
First run	Follow the supplied installation steps; pair/connect the approved hardware; run the supplied example; record actual input/output and compare with the agreed acceptance target.
Failure report	Record model and versions, OS/toolchain, steps to reproduce, expected/actual result and sanitized logs. Send through the agreed support channel; exclude personal and customer data.
Support	Agree support contact, response scope and issue tracking before the pilot. If access fails, email vanda@topaiglasses.com with the requested package/model.
Separate deliverables	SDK, phone app, glasses firmware, PC/IoT integration, cloud services and source-code licensing are separately scoped. No API or compatibility is implied by a hardware specification.

C100 SDK policy

The unchanged standard Android SDK / Demo is free for evaluation and customer-led development. No iOS SDK or Demo is provided, including as paid customization. SDK or feature modifications require prepaid NRE starting at USD 3,000; final quotation depends on scope. This service fee is not the hardware sample price. Camera Stream Access remains planned until the named interface is released and verified.

Cost and ownership checklist

Separate hardware samples, engineering NRE, tooling/fixtures, certification, third-party licensing, phone apps/cloud services, production units and logistics/taxes. Confirm payer, deliverable, acceptance, rights, recurring fees and exclusions for each line. An inquiry is not an accepted order, quotation or delivery commitment.

Pilot and stage acceptance template

Blank planning template. This is not a completed test report or customer acceptance record. Use separate states for received, implemented, tested and customer accepted.

Configuration baseline	Model: _____ Hardware: _____ Firmware: _____ SDK: _____ Owner/date: _____
Change record	Request: _____ Decision: _____ Implementation evidence: _____
EVT / DVT / PVT	Stage: _____ Test plan/revision: _____ Test summary: _____
Defect closure	Issue: _____ Severity: _____ Retest evidence: _____ Status: _____
Acceptance	Measurable criterion: _____ Result: _____ Customer sign-off/date: _____
Shipping configuration	Packaging: _____ Accessories: _____ Firmware image: _____ Market documents: _____
Pilot review	User task/comfort: _____ Network/software: _____ Support/spares: _____ Cost and next decision: _____

Keep the follow-up grounded

Agree the intended workflow, required interfaces, customer software responsibilities, measurable acceptance criteria and stop/go decision before a pilot. Captions, medical or industrial scenarios require their own intended-use and validation review; a historical ODM project is not a standard current feature.

[Delivery stages, cost boundaries and project planning](#)

[Start the appropriate request](#)