**SmartXY | XINGYI Intelligent Technology**

Global AI + AR Smart Eyewear ODM/JDM Partner

Full-Stack Product Platforms · Engineered in China · Delivered Worldwide

# AI + AR Smart Eyewear Product Brochure 2026

A global ODM/JDM partner with proven platforms, deep engineering, mass-production readiness, and end-to-end delivery for next-generation AI + AR smart eyewear brands.

**Optics & Display** | **HW/SW Engineering** | **EVT → MP** | **Global Delivery**

| 23+ | 100K+ | 9 | 7+ | EVT→MP |
|---|---|---|---|---|
| Countries in Network | B-End Units Delivered | Product Portfolio Matrix | Years of ODM Experience | Full-Stack Platforms |

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# Why SmartXY ｜ Smart Eyewear Is a Lifestyle Category

SmartXY is a full-stack AI + AR smart eyewear ODM/JDM partner, combining validated B-end engineering, consumer-grade eyewear design, and mass-production delivery for global brands.

## Smart eyewear is not just a device — it is a lifestyle product.

01

### Design Philosophy

Start from the wearer — face shape, comfort, lifestyle, and fashion context — then engineer backwards. Not the other way around.

02

### Technical Architecture

Proprietary stack-up, custom optical engines, low-power system architecture, and hinge/weight optimization down to sub-40g for all-day wear.

03

### Commercialization Path

B-end validation feeds C-end scale. Every enterprise project strengthens the consumer platform — a compounding loop, not two separate tracks.

> *“ If your next smart eyewear product needs to feel like a fashion accessory, perform like a flagship device, and scale like a real business — that is the gap SmartXY exists to fill. ”*

# 2026 | The AI Eyewear Inflection Point

***The category has been validated. Now it's a brand race.***

Global tier-1 platforms have validated AI camera glasses, sports AI eyewear, and display-equipped AR eyewear. The category-existence debate is over. The next 18–24 months are the brand-entry window — the period in which branded SKUs, retail shelves, and channel partnerships are being locked across regions.

01

## Category Validated

Global tier-1 AI eyewear platforms have accelerated market validation across camera, sports, and display-AR formats. The category-existence question is closed; what remains is execution — product, channel, brand.

02

## The Real Moat is Composite

Winning is no longer about a chip, a model, or a demo video. It is the compound of Eyewear Industry × Consumer Electronics × AI Services × Channel & Brand — a four-layer stack that cannot be shortcut.

03

## The Brand-Entry Window

The next 18–24 months are when brand-led AI eyewear locks shelves, channels, and regional partnerships. Brands that begin platform development in 2026 ship branded SKUs in 2027. The window is real, and it is narrow.

***SmartXY exists for the brands that need to ship in this window — not the next one.***

# Product Portfolio Matrix *From B-End Validation to C-End Scale*

SmartXY is a full-stack AI + AR smart eyewear ODM/JDM partner, combining validated B-end engineering, consumer-grade eyewear design, and mass-production delivery for global brands.

| CATEGORY | PLATFORM / SKU | PRODUCT ROLE | SIGNATURE CAPABILITIES | BEST-FIT PARTNERS |
|---|---|---|---|---|
| AI Camera Glasses Platform | **K900** *Platform* | Lightweight AI camera glasses platform for global consumer brands and AI-agent wearables. | 13MP · Android · MTK + BES · 5-mic AI audio · Dual speakers · ~40g | *AI Agents Companies* |
| Lightweight AR Display Platform | **AR99** *Platform* | Ultra-light privacy-first AR display eyewear for everyday use. | 28g · VHG waveguide · Monocular display · No camera / no speaker | *Optical Brands · Education Tools · Lifestyle Wearables* |
| Fashion-Led AR Eyewear | **Mimosa AR99-MY** *Platform* | Women-first smart eyewear designed around styling, comfort, and CMF preferences. | Cat-eye · AR display · Microphone-based voice input · Fashion-led CMF | *Fashion Eyewear · DTC Brands · Premium Retail* |
| B+C AI + AR Flagship Platform | **C100** *Flagship Platform* | SmartXY's B+C flagship AI + AR platform for enterprise productivity and premium consumer-brand adaptation. | Dual-eye display · 21MP · Android · Hot-swap battery · 1400mAh case | *Enterprise Productivity · Developer Platforms · Premium CE Brands* |
| Medical Display Platform | **BB Medical** *Platform* | Healthcare-grade BirdBath display platform for clinical imaging and medical training scenarios. | 1080P · ≥55° FOV · 100g · Sony Micro-OLED · Diopter support | *Medical Devices · Surgical Training · Healthcare ODM/JDM* |
| AI Vision-Assist Platform | **AI Vision-Assist** *Platform* | Voice-first assistive AI glasses for visually impaired users and ESG/government procurement scenarios. | 13MP · Dual radar · OCR · Object AI · Voice navigation · Live video assist | *Government Procurement · Assistive-Tech* |
| Field Operation AR Platform | **Falcon 007 PRO** *Platform* | AR + AI field-operation platform for public safety, inspection, and command-center collaboration. | Array waveguide · 34° FOV · 100MP · Live streaming · Edge AI | *Public Safety · Energy Inspection · Industrial Field Service* |

**One platform logic, multiple market entries:** This brochure expands SmartXY's company-level product matrix into selected ODM/JDM-ready platforms across AI camera glasses, lightweight AR display eyewear, fashion-led AR, B+C AI+AR, medical display, accessibility, and field-operation scenarios.

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Six phases · Three engagement models

# ODM Capability Ladder | How We Work Together

One goal: getting your product to market faster, better, more competitively.

**OEM** **Build-to-Print**

Your design + your spec. We handle structural engineering, sourcing, MP.

**ODM** **Catalog Customization**

Pre-validated platform from our open-mold library + your branding, color, UI.

**JDM** **Joint Development**

Co-development from concept → MP. Shared IP framework. Strategic partners only.

| 01 | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| **ID Design** | **Mech Structure** | **HW + SW Dev** | **Prototyping** | **Test & Cert** | **Manufacturing** |
| Concept · 3D · CMF | Stack-up · IP · Hinge | Schematic · Driver · App | CNC · 3D print · Tooling | BQB · FCC · CE · SRRC | SMT · Assembly · QC |

## Delivery Governance

Each ODM/JDM project is managed through SmartXY's IPD + Agile mechanism — covering requirement freeze, ID/MD freeze, EVT/DVT/PVT gates, certification planning, and MP readiness review.

*Typical timeline: ODM 6–9 months · JDM 9–14 months*

**Concept → Mass Production**

# The Four-Layer Moat

Single-layer competitors lose to compound moats. SmartXY is built across all four — each layer with shipped, auditable proof points.

LAYER 01

## Eyewear Industry

- 23-country supply chain network
- TR90 / Ti / Mg-Li / liquid-metal hinges
- Sub-40g (K900) · 28g (AR99) frame engineering
- Modular Rx, 7+ years frame ID/CMF iteration

LAYER 02

## Consumer Electronics

- EVT → DVT → PVT → MP gated workflow
- Dual-chipset architecture (MTK + BES)
- Hot-swap battery · pogo-pin fast charging
- FDA · FCC · CE · SRRC · UN38.3 · BQB ready

LAYER 03

## AI Services

- LLM-agnostic stack · cloud + on-device dual-mode
- MWC 2026: Dimensity AI Omni co-demo platform
- Self-developed CV (Falcon Capture, Vision-Assist)
- OTA · SDK / API · 3rd-party model loadable

LAYER 04

## Channel & Brand Reach

- 100K+ B-end units delivered across 23 countries
- CDPF national endorsement (assistive-tech)
- 300+ Class III-A hospital deployments
- Public safety · Energy inspection · Field operation

***Eyewear Industry × Consumer Electronics × AI Services × Channel & Brand = Compound Moat***

# Supply Chain Moat & Global Reach

A 23-country supply chain network, tier-1 component partners, and certification-ready delivery pathways for global ODM/JDM programs.

### GEOGRAPHIC REACH

**23+** countries

Active supply chain network across East Asia, Southeast Asia, Europe, and North America — with multi-region redundancy to support tariff resilience and geopolitical risk mitigation.

### TIER-1 COMPONENTS

**Sony · Waveguide · Micro-LED** + premium acoustics

Sony imaging, Micro-LED light engines, waveguide optics, bone-conduction audio, ANC mic arrays, TR90, titanium, liquid-metal hinges, and custom high-density battery systems.

### GLOBAL COMPLIANCE

**FDA · FCC · CE · RoHS · SRRC · UN38.3 · BQB** certification-ready pathways

Certification planning is managed by SKU and target market, covering wireless, EMC, battery transport, safety, and regional compliance requirements. Medical and regulated-use certifications are handled through dedicated project pathways.

### MANUFACTURING READINESS

**EVT → DVT → PVT → MP** gated workflow

Concept-to-MP timelines typically range from 6–9 months for ODM and 9–14 months for JDM, depending on optics, certification scope, tooling complexity, and requirement changes.

**The takeaway:** SmartXY is a full-stack AI + AR smart eyewear ODM/JDM partner, combining validated B-end engineering, consumer-grade eyewear design, and mass-production delivery for global brands.

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AI Camera Glasses Platform · Lightweight AI

# K900 | AI Camera Glasses Platform

**~40g**

A lightweight, fully-loaded AI camera glasses platform designed for all-day, real-world use.

**01 Sub-40g Frame**
All-day wearability

**02 13MP Sony IMX258**
Flagship first-person POV · 1080p EIS · HDR

**03 5-Mic Array + Adaptive ANC**
AI noise reduction · cinematic call clarity

**04 Dual-Chipset AI Brain**
MTK MT6765 + BES2700H · LLM-agnostic

**05 Pogo-Pin Fast Charging**
10 min → 50% · 30 min → 95%

**06 Quad-Mode Interaction**
Voice · Touch · Button · Wear-Detect

**Positioning:** Similar Ray-Ban Meta-style AI camera eyewear, with ODM-customizable form factors, dual-chip architecture, fast charging, and privacy-first hardware design.

# K900 | Specification Sheet

**AI Glasses**

Android-based AI smart glasses with dual-chipset architecture, 13MP capture, 5-mic AI audio, and LLM-agnostic stack — ODM-ready, sub-40g.

*Sub-40g · ODM-Ready*

*Engineered in Shenzhen*

## PROCESSOR & MEMORY

| | |
|---|---|
| Android SoC | **MediaTek MT6765 · 12nm** |
| Audio / BT SoC | **Bestechnic BES2700H** |
| Memory | **2 GB RAM + 32 GB ROM** |
| Operating System | **Android 11** |

## IMAGING & AUDIO

| | |
|---|---|
| Camera sensor | **Sony IMX258 · 13 MP** |
| Video | **1080p @ 30fps · EIS · HDR** |
| Microphones | **5-Mic array** |
| Speakers | **Stereo dual · AAC 0820** |
| Privacy LED | **White, hardware-linked** |

## POWER & CONNECTIVITY

| | |
|---|---|
| Battery | **270 mAh Li-Polymer** |
| Music playback | **> 8 hours** |
| Video recording | **> 50 minutes** |
| Mixed-use | **7–8 hours typical** |
| Fast charge | **30 min → 95%** |
| Wi-Fi / BT | **Wi-Fi 2.4GHz · BT 5.4** |
| USB | **Type-C · pogo-pin** |

## PHYSICAL & COMPLIANCE

| | |
|---|---|
| Dimensions | **154 × 163 × 51 mm** |
| Weight | **≈ 40 g** |
| Frame material | **Acetate / TR90 / Ti** |
| Certifications | **CE · FCC · RoHS** |
| MP readiness | **EVT/DVT/PVT completed**<br>**MP-ready platform** |

**Positioning:** K900 is the camera glasses flagship of the SmartXY platform — Android-based, LLM-ready, dual-chipset powered. Open for ODM/JDM partners targeting AI agent wearables.

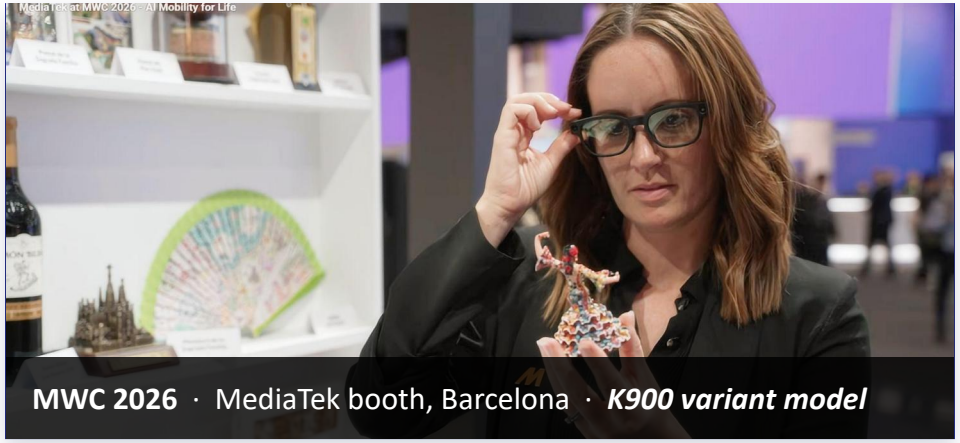
# K900

## Showcased at MediaTek's MWC 2026 Booth as the AI-Glasses Hardware Platform for the Dimensity AI Omni On-Device Demo

**Barcelona**
MWC 2026

**Phone + AI glasses collaborative compute:** Qwen3 Omni was demonstrated locally on the Dimensity AI Omni platform, with SmartXY AI glasses serving as the wearable capture, interaction, and real-world sensing hardware.

**PROOF** · *MTK Weibo*




**MWC 2026** · MediaTek booth, Barcelona · ***K900 variant model***

*Live demo: phone + AI glasses collaborative compute. Source: MediaTek official Weibo, MWC 2026.*

**01 MediaTek Booth Showcase Validation**
Showcased at MediaTek's MWC 2026 booth as the wearable hardware in the Dimensity AI Omni on-device AI demo.

**02 Dual-Chip AI Glasses Architecture**
MTK-based Android compute + BES audio / BT — balancing camera, audio, connectivity & wearable power efficiency.

**03 Collaborative Edge AI Path**
Phone + glasses split-compute: local AI on Dimensity AI Omni; SmartXY glasses as capture & interaction layer.

**04 Engineered in Shenzhen · ODM/JDM Ready**
Lightweight AI camera glasses for global brands — customizable ID/CMF, SDK/API, EVT-to-MP delivery.

*@MediaTek 联发科技*

## INDUSTRY SIGNAL · WHY THIS MATTERS IN 2026

As global tier-1 AI eyewear platforms mature into scale-and-operations mode, the wearable hardware layer becomes the strategic battleground for chipset ecosystems. SmartXY's MWC 2026 inclusion in MediaTek's Dimensity AI Omni on-device demo positions K900 as a reference platform for the next wave of phone-tethered, edge-AI wearable products — not just a showcase appearance, but a place inside the silicon roadmap conversation.

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# AR99 | Light AR for Everyday Life, Designed for daily wear.

C-End Accessible Tier · AR99

**28g**

Among the lightest AR eyewear ever shipped.
Most affordable display-equipped AI smart glasses on the market.

**01 Volume Holographic Optics**
Industry-leading light leakage suppression — content visible only to the wearer.

**02 All-Day Wearable**
28g aerospace Mg-Al alloy + Ti hinges + liquid metal — true forget-it's-there comfort.

**03 Modular Rx Lens System**
Card-style insertable prescription module — tool-free swap, frame-style flexibility.

**04 Phone-Tethered AI Suite**
Live translation · teleprompter · AR navigation · voice-to-text · LLM assistant.

# AR99 | Specification Sheet

**AI + AR**

Most affordable display built-in AI smart glasses — 28g, volume-holographic optics, modular Rx, MP-validated. Mimosa Brand Distribute/ODM/JDM-ready.

*Single-green monocular · Volume holographic*

## OPTICS & DISPLAY

| | |
|---|---|
| Light engine | **Micro-LED · 0.15 inch** |
| Waveguide | **Volume Holographic Waveguide** |
| Display config | **Monocular · single green · right eye** |
| Resolution | **640 × 480 @ 30 Hz** |
| FOV | **28°** |
| In-eye brightness | **2,000 nits** |

## COMPUTE & SOFTWARE

| | |
|---|---|
| Main platform | **ARM · ATS3089C** |
| Memory | **256 MB ROM / PSRAM 8 MB** |
| Operating system | **RTOS** |
| AI capabilities | **LLM Q&A · translate · navigate · prompt** |
| Voice features | **Speech-to-text · lyric display** |
| Wear Detection | **Supported** |
| OTA | **Supported** |

## AUDIO & INTERACTION

| | |
|---|---|
| Microphone | **1 × MIC** |
| Speaker / Camera | **None (privacy-by-design)** |
| Touch | **Front / back swipe** |
| Hardware button | **1 × power · double-click → AI** |

## POWER & CONNECTIVITY

| | |
|---|---|
| Battery | **100 mAh · Li-ion · 3.85 V** |
| Standby | **72 hours** |
| Active runtime | **3 hours continuous** |
| Charging | **USB Type-C · DC 5V / 200 mA** |
| Connectivity | **BT 5.3 dual-mode · FPC antenna · no Wi-Fi** |

## PHYSICAL & COMPLIANCE

| | |
|---|---|
| Dimensions | **151 × 156 × 47.8 mm** |
| Frame / Hinge | **TR90 + Mg-Li · Ti + liquid-metal hinge** |
| Nose pad / Rx | **Memory metal + air-cushion · Rx supported** |
| IP / Op temp | **IPX4 · -10 °C to 55 °C** |
| Certifications | **3C · FCC · CE · UN38.3 (battery)** |

*i* **Positioning:** AR99 — Micro-LED + volume holographic optics on ATS3089C, MP-validated. Open for ODM/JDM partners targeting consumer-accessible AI wearables.

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Real Users · Real Stories

# AR99 | A Day with AR99

*From unboxing to everyday wear — captured by users, not retouched by SmartXY. This is what AR99 actually looks and feels like in real life.*

01


## UNBOXING

***"Opened the Mimosa box this morning."***

Gift box · Rx lens insert · USB-C cable · cleaning cloth · soft case — everything fits in one hand.

02

## FIRST LOOK

***"Honestly forgot they were on."***

28g frames · cat-eye silhouette · pairs with anything from a cap to a blazer.

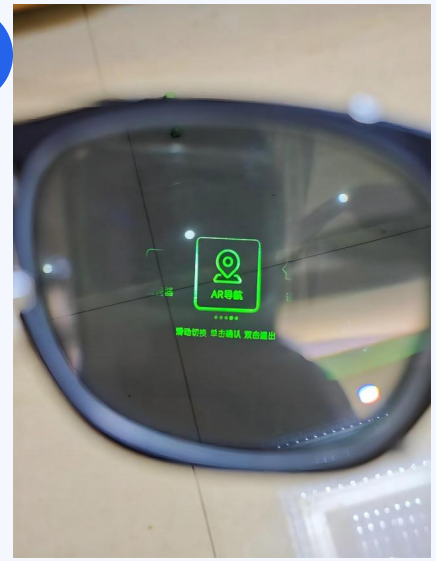
03

## ON THE GO

***"Walked across town, hands free."***

Live AR navigation in the lower field of view · lightweight daily-use battery profile.

04



## MY VIEW

***"This is what I actually see."***

Volume holographic optics · single-green AR overlay · 2,000 nits · readable indoors and out.

**Buyer Show** · Photos captured by real AR99 users — unedited, in real environments, wearing the actual product.
More frame variants optional · Classic · Mimosa · Heritage · Tortoise · Crystal · Sun.

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Cat-Eye

# Mimosa AR99-MY

*Smart Eyewear, Specially Designed for Women.*

# Mimosa AR99-MY | The world's first smart eyewear

***designed for women, by women.***

C-End Hero · mimosa

**~50%** of the global wearables market is women.
Less than 15% of current smart eyewear adopters are.

**01 Designed Around Real Lives**

Frames flatter facial contours and complement makeup

**02 Long-Wear Comfort**

Lighter weight + redistributed temple pressure

**03 Fashion-Led Materials**

Color palettes designed alongside fashion consultants

**04 SmartXY Wearable DNA**

Lightweight frame engineering, AR display integration, microphone-based voice input, and fashion-led CMF customization.

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# AR99 Series | Form, Fit & Function

**28g**

Aerospace Mg-Al alloy with titanium liquid-metal hinges — six frame archetypes built on one platform, designed for every face, every style, every day.

## DESIGNED FOR EVERY FACE

*Frame archetypes — same hardware, swap the look in seconds.*

## AR DISPLAY · IN-LENS

*Information, surfaced — never in your way.*

## AT-A-GLANCE · DAILY USE

- **Smart Notifications**
- **Live Translation**
- **AR Navigation**
- **Voice-to-Text**

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# C100 | B+C Flagship AI + AR Platform

**Swap System**

C100 is SmartXY's B+C flagship AI + AR platform — designed for enterprise productivity, developer customization, and premium consumer-brand adaptation.

**270mAh hot-swap · 25h standby · Never-out-of-power**

**01 Premium Material Build**

TR90 + magnesium-lithium frame, Ti liquid-metal hinges

**02 Micro-LED Light Engine**

0.15-inch engine, 1500 nits, FOV 26°, single-green dual-eye

**03 Onboard AI Brain**

MT6765 + Android, LLM-ready: translate / navigate / prompt

**04 21MP Capture Module**

First-person photo + video, 4-mic + bone-conduction audio

**05 Connectivity Stack**

Bluetooth 5.3 dual-mode + Wi-Fi 5 (2.4G/5G dual-band)

**06 Hot-Swap Power System**

270mAh per swap + 1400mAh case = uninterrupted use

**Why it matters:** B-end medical, government, and ESG validation feed C-end product DNA. C100 is what happens when industrial-grade engineering meets daily wearable design.

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B+C-End Flagship · AI + AR

# C100 | Specification Sheet

**AI + AR**

Android-based AI smart glasses with hot-swap battery, Micro-LED display, and 21MP capture — ODM/JDM-ready, MP-validated.

Hot-swap battery + 1400mAh charging case

## OPTICS & DISPLAY

| | |
|---|---|
| Light engine | **Micro-LED, 0.15 inch** |
| Waveguide | **Glass waveguide, single-green dual-eye** |
| Resolution | **640 × 480 @ 30 Hz** |
| Field of view | **26° (diagonal)** |
| In-eye brightness | **1,500 nits** |
| Color depth | **4-bit** |

## COMPUTE & AI

| | |
|---|---|
| Main SoC | **MediaTek MT6765** |
| Co-processor | **BS2700 + ATS3089C** |
| Memory | **32 GB ROM + 2 GB RAM** |
| Operating system | **Android** |
| AI capabilities | **Translate, navigate, teleprompt, capture** |
| LLM compatibility | **Cloud + local AI model loadable** |

## IMAGING & AUDIO

| | |
|---|---|
| Camera | **21 MP fixed-focus** |
| Video | **HD recording supported** |
| Speakers | **Dual 0.5W / 8Ω custom drivers** |
| Mic + audio | **4-mic + bone-conduction, active NR** |

## POWER & SWAP SYSTEM

| | |
|---|---|
| Battery | **270-300 mAh, hot-swappable** |
| Charging case | **1400 mAh built-in MiniBag** |
| Single-battery runtime | **2.5h general / 0.5h video** |
| Standby (with swap) | **Continuous, never-out-of-power** |

## PHYSICAL & COMPLIANCE

| | |
|---|---|
| Dimensions | **148 × 156 × 47.8 mm** |
| Frame material | **TR90 + magnesium-lithium alloy** |
| Hinges / nose pad | **Ti liquid-metal / memory steel** |
| Connectivity | **BT 5.3 dual-mode + Wi-Fi 5** |
| IP / op temp | **IPX4, -10 ~ 55°C** |
| Certifications | **3C / 38.3 / FDA / FCC / CE** |

**Positioning:** C100 is the B+C flagship of the SmartXY platform — built for enterprise productivity, developer customization, and premium consumer-brand adaptation.

# C100 | Engineered in Shenzhen — Real Hardware, Real Team

**C100**

Behind the product: a Shenzhen-based engineering team, in-house Swap System manufacturing, and mass-production-validated hardware — the foundation of every C100 unit shipped.

**01 Swap System Hardware**
In-house designed dual-battery + 1400mAh charging case, ready for mass production

**02 Founder-Led Engineering**
CEO-driven product DNA: hardware-first culture, hands-on team in Shenzhen

**03 MP-Validated Build**
Production-ready C100 + MiniBag system, EVT validation completed; DVT/PVT/MP readiness available by project scope.

**Positioning:** C100 is built by a real, hands-on team in Shenzhen — not white-labelled, not outsourced. ODM/JDM partners get direct access to engineering, mold ownership, and full BOM transparency.

# Medical Series | BB Medical | Healthcare-Grade Validation

Validated across China's top-tier (Class III Grade A) hospitals — where image fidelity, ergonomics, and latency are not features, but prerequisites.

**01**

### 1080P Clinical Imaging

Sony Micro-OLED 0.71/0.68—diagnostic-grade fidelity

**02**

### 55° Ultra-Wide FOV

Equivalent to 120-inch display @ 3m—full visual field

**03**

### 100g Headband Ergonomics

Cervical-neutral posture for 4h+ procedures, no fatigue

**04**

### Low-Latency Visual Pipeline

6-axis IMU stabilization—sub-frame visual response

**05**

### Universal Diopter Support

Built-in myopia adjustment—fits all surgeons

**06**

### Eye-Comfort Engineered

19mm relief, 15×9.5mm eyebox, >400 nits adaptive

**Why it matters:** In medical wearables, trust is earned procedure by procedure. A device validated by surgeons becomes a device trusted by consumers.*The same optical foundation can be extended into medical, training, and premium display eyewear programs.*

# BB Medical | Deployed / Referenced Across 300+ Domestic Hospital Scenarios

**100g**

A headband-form BirdBath optical headset delivering 1080P clinical-grade imaging in a100g cervical-neutral frame—built for surgeons, ready for consumers.

**Headband form factor**

**Self-developed BB optical solution**

## OPTICS & DISPLAY

| | |
|---|---|
| Light engine | **Sony Micro-OLED 0.71 / 0.68 inch** |
| Optical architecture | **Self-developed BirdBath (BB)** |
| Resolution (per eye) | **1920 × 1080 (Full HD)** |
| Field of view (FOV) | **≥ 55° (diagonal)** |
| Brightness | **> 400 nits, adaptive** |
| MTF / Aspect ratio | **> 0.65 @ 30 lp/mm / 16:9** |
| Eyebox / Eye relief | **15 × 9.5 mm / 19 mm** |
| Diopter adjustment | **Myopia adjustment supported** |

## SENSORS & CAPTURE

| | |
|---|---|
| IMU | **6-axis gyroscope + accelerometer** |
| Camera | **Optional, customizable per SKU** |
| Microphone | **Optional, beamforming available** |

## PHYSICAL & MECHANICAL

| | |
|---|---|
| Form factor | **Headband-style, over-the-head** |
| Weight | **100 g (front-balanced)** |
| Frame material | **Polymer + soft-touch padding** |
| Color | **White (Pantone-matchable)** |
| IPD adjustment | **Customizable per SKU** |

## POWER & CONNECTIVITY

| | |
|---|---|
| Power source | **USB-C bus-powered, no battery** |
| Cable | **Detachable USB-C, ~1.5 m** |
| Host compatibility | **DP Alt-Mode / HDMI (adapter)** |
| Wireless | **N/A (wired tethered design)** |

## ENVIRONMENTAL & COMPLIANCE

| | |
|---|---|
| Operating temp | **0°C ~ 40°C** |
| Certifications | **CE / FCC / RoHS (target)** |
| MP readiness | **EVT / DVT / PVT / MP ready** |

**Positioning:** BB Medical is a clinically-validated BirdBath platform, ready as a white-label ODM/JDM foundation. XINGYI brings: self-developed optics, MP-validated supply chain, firmware-to-frame customization.

# BB Medical | Self-developed BB Optical Module — Verified by 300+ China Hospitals

**100g**

Self-developed BB optical module — core R&D breakthrough, product innovation, and industrial-scale clinical deployment, in one hands-free 100g headset.

*Hands-free training mode — first-person clinical view for medical educators and trainees*

*Hands-free surgical mode — surgeon's vision stays on the field, not the monitor*

## SELF-DEVELOPED BB MODULE — FROM R&D TO INDUSTRIAL DEPLOYMENT

- CORE R&D · BB Optical Module
- PRODUCT · Hands-Free Headset Form
- DEPLOYMENT · 300+ Class III-A Hospitals
- SCENARIO · Surgical & Diagnostic
- SCENARIO · Medical Training & Education

● ODM/JDM Available

# Tech for Good | AI Vision-Assist Glasses

China-market deployment: endorsed / supported in China’s assistive-technology ecosystem, with mass-production experience.

**01 Vision Impairment AI Model**
Self-developed engine: environment description + voice

**02 Dual-Radar 360° Protection**
30—60° sensing, 1—5m obstacle range, distance alerts

**03 Live Video Companion**
13MP HD camera + WeChat-ready 1-on-1 video assist

**04 AI Face Recognition**
Names registered contacts; identifies stranger gender/age

**05 Universal OCR & Object AI**
Reads text + 100,000+ objects, currency, food items

**06 Blind-Friendly Navigation**
Tactile-aware maps + voice routes + deviation alerts

**National Endorsement** · Suitable for government procurement, CSR programs, assistive-tech distribution, and ESG-aligned deployment.

*i* **Why it matters:** Real-time CV, voice synthesis, dual-radar sensing, edge AI — the same technical stack that powers our consumer flagships. Social impact + technical depth + national endorsement.

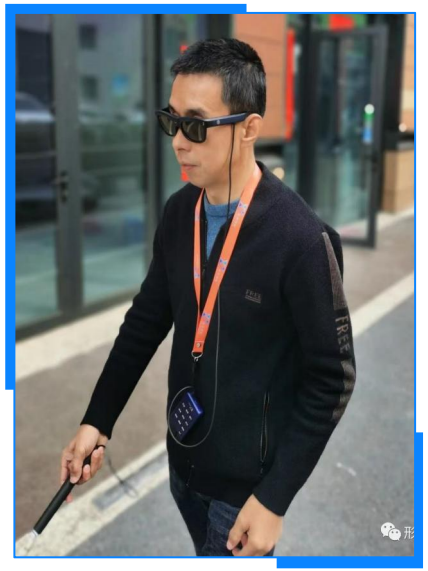
● ODM/JDM Available

AI-for-Good Assistive Platform

# AI Vision-Assist Glasses | Specification Sheet

**AI for Good**

Voice-first AI assistive glasses for the visually impaired — dual-radar sensing, edge-AI recognition, live video assistance. CDPF-endorsed.



**Lightweight glasses + handheld controller**

**Voice-first interaction, no display required**

## SENSORS & PERCEPTION

| | |
|---|---|
| Camera | **13 MP HD imaging module** |
| Obstacle radar | **Dual radar, 30—60° sensing arc** |
| Detection range | **1 — 5 m obstacle distance with alerts** |
| Microphone | **Built-in mic array (voice command)** |
| Audio output | **Bone conduction / earbud (voice-first)** |

## AI & RECOGNITION

| | |
|---|---|
| Vision Impairment AI | **Self-developed environmental model** |
| Object recognition | **100,000+ objects/scenes (currency, food)** |
| Face recognition | **Named contacts + gender/age detection** |
| OCR text-to-speech | **Books, newspapers, manuals, signage** |
| Inference mode | **Online + offline (edge AI)** |

## NAVIGATION & MOBILITY

| | |
|---|---|
| Map engine | **Blind-friendly tactile-aware routing** |
| Voice navigation | **Personalized turn-by-turn guidance** |
| Deviation alert | **Auto re-routing on path deviation** |
| Use case fit | **Independent travel, indoor & outdoor** |

## COMMUNICATION & FORM

| | |
|---|---|
| Live video assist | **1-on-1 with family/volunteers, WeChat-ready** |
| Form factor | **Sunglass-style frame + handheld controller** |
| Connectivity | **Wi-Fi / 4G via paired device** |
| Battery | **Built-in pack, all-day daily duty (TBD spec)** |

## DEPLOYMENT & ENDORSEMENT

| | |
|---|---|
| National endorsement | **CDPF (China Disabled Persons' Fed.)** |
| Procurement channel | **Civil affairs / disability assistive-tech** |
| ESG alignment | **UN SDG 10 (reduced inequalities)** |
| MP readiness | **EVT / DVT / PVT / MP ready** |

**Positioning:** AI Vision-Assist Glasses is a CDPF-endorsed, ESG-ready, AI-for-Good platform — open for ODM/JDM partners targeting government procurement, CSR programs, and disability-tech distribution.

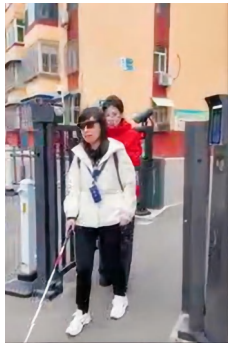
Note: Designed for assistive navigation and daily independence; not a substitute for certified medical diagnosis or emergency rescue systems.

# Real-Life Stories | A Day in the Life

AI Vision-Assist Glasses — field-deployed across mobility, social interaction, reading, and shopping. Real users. Real independence.

## OUTDOOR MOBILITY

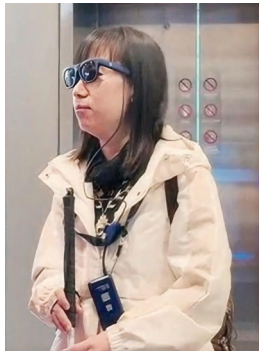
*Independent walking · street navigation · Didi orientation*

## DAILY INDEPENDENCE

*Public transit · social presence · reading · shopping · cultural participation*





**Tech for Good ·**

**Why it matters:** *Specs and certifications matter. But what matters more is whether this technology actually changes a life. These photos are not staged — they are deployment evidence.*

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● ODM/JDM Available

# Field Operation Series | Falcon 007 PRO | Industrial-Grade AR Delivery

Self-developed array-waveguide AR glasses for field inspection, remote expert assistance, evidence capture, and command-center collaboration.

**01 Falcon Capture System**
Self-developed engine—≥20 facial captures/sec

**02 On-Edge AI Recognition**
3—5 face IDs in 1 sec, online & offline modes

**03 Array Waveguide Optics**
FOV 34°, 83% see-through transparency

**04 100MP Imaging Module**
High-res capture for evidence and recognition

**05 Multi-Party Live Comms**
Real-time HD video + voice command-center sync

**06 All-Shift Endurance**
10000 mAh external pack—4—6h continuous duty

**Regional Config** · EU/US SKUs ship with body-cam, evidence capture, and night vision as core capabilities. Biometric modules (face / license-plate recognition) are architecturally decoupled and offered as region-gated optional SKUs, disabled by default to align with GDPR and the EU AI Act.

*i* **Why it matters:** If we can deliver to government procurement, we can deliver to anyone. Industrial-grade reliability is in our DNA.

E: vanda@topaiglasses.com



● ODM/JDM Available

# Falcon 007 PRO | Specification Sheet

**AR + AI**

Self-developed array-waveguide AR glasses with on-edge AI recognition — field-validated in law enforcement, power-grid inspection, and command-center operations.

See-through array-waveguide design

Detachable compute / battery pack

## OPTICS & DISPLAY

| | |
|---|---|
| Optical architecture | **Self-developed Array Waveguide** |
| Field of view (FOV) | **34° (diagonal)** |
| See-through transmittance | **83%** |
| Form factor | **See-through AR glasses + tethered pack** |

## IMAGING & ON-EDGE AI

| | |
|---|---|
| Camera sensor | **100 MP imaging module** |
| Falcon Capture System | **≥ 20 facial captures / sec** |
| Face recognition speed | **3—5 IDs / sec (≤ 1 s)** |
| AI mode | **Online + offline (edge inference)** |
| AI capabilities | **Face / plate / object recognition*** |
| Custom algorithm | **3rd-party AI model loadable** |

## CONNECTIVITY & COMMS

| | |
|---|---|
| Live streaming | **HD video + HiFi voice, multi-party** |
| Latency profile | **Low-latency real-time uplink** |
| Wireless | **Wi-Fi / 4G or 5G (via paired host)** |
| Command-center sync | **Live POV streaming supported** |

## POWER & ENDURANCE

| | |
|---|---|
| Battery | **10,000 mAh external pack** |
| Power host options | **Pack / phone / power-bank, USB-C** |
| Continuous runtime | **4 — 6 h full-load duty** |
| Hot-swap | **Supported via detachable pack** |

## DEPLOYMENT & COMPLIANCE

| | |
|---|---|
| Region SKU | **CN / EU-US (biometric decoupled)** |
| Compliance target | **GDPR / EU AI Act / FCC / CE** |
| MP readiness | **EVT / DVT / PVT / MP ready** |

**Positioning:** Falcon 007 PRO is a self-developed AR + AI platform, ready as ODM/JDM foundation for public safety, energy inspection, and field operations. *Biometric modules decoupled as optional regional SKUs.

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# From B-End Trenches to C-End Hero

We didn't start in consumer. We built engineering muscle in the hardest verticals on Earth — now we translate it.

01 **Fashion**

Multiple silhouettes, premium colorways. Frames designed alongside fashion consultants — not engineers.

02 **Technology**

AI and AR features that feel native, not bolted-on. Disappears into the experience.

03 **Lifestyle**

Eyewear that fits how people actually live, work, and express themselves — not just early adopters.

## THE B → C TRANSITION IS A COMPOUNDING LOOP

**B-end vertical builds**
**(Medical · Safety · AI Assist)**

→

**C-end hero products**
**(mimosa · C100 · K900)**

↻

**Brand insight**
**+ scale economics**

# Why Now | The Brand-Led AI Eyewear Window

The first chapter of AI eyewear was written by tech giants. The second chapter — the one that decides who owns shelves, faces, and lifestyles — will be written by brands. Eyewear brands. Fashion brands. Optical retailers. DTC players. Vertical-AI companies. Regional champions. The shape of this chapter is being decided now.

2024 — 2025

CHAPTER 1

## Category Validation

Tier-1 platforms validate the category. Distribution pilots run. Consumer education completes — paid for by others.

2026 — 2027

CHAPTER 2 · NOW

## Brand Land-Grab

If brands start in 2026, they ship branded SKUs in 2027. Shelf space, retail partnerships, and regional channel rights are being locked in this window.

2028+

CHAPTER 3

## Saturated Shelf

First-wave brands hold shelf, retail, and mindshare. Late entrants compete on traffic and discount, not category position.

THE NEXT STEP

Brands don’t need to build silicon, optical engines, or 23-country supply chains from zero. They need a partner who already did — and who can translate that engineering into their brand, their face, their channel.

- Sample Demo
- Platform Adaptation Workshop
- Joint Development Roadmap

# Product Roadmap | From B-End Engineering Validation To C-End Platform Scale

Every 2026 C-end SKU is built on top of B-end engineering muscle accumulated since 2019. One continuous trajectory — not two separate businesses.


**2019 — Founded**

**Company Established**

AI/AR exploration begins in Shenzhen.

**2020 — Mass Production**

**AI Smart Glasses with eSIM**

First full-stack MP product line.

**2021 — Government Catalog**

**Vision-Assist Glasses**

Included in national procurement catalog.

**2022 — Optical R&D**

**Core AR Tech Paths**

BirdBath · array waveguid e · diffractive waveguide.

**2023 – 2024 — B-End Anchor**

**Medical + Public Safety**

Mass production. Top-tier hospitals + municipal-level law enforcement deployments.

**2024 Q4 → 2025 — C-End Debut**

**K900**

Lightweight AI smart glasses — strategic offline channel rollout.

**2025 — AR Flagship**

**AR99**

Flagship AR consumer platform launch.

**2026 — Portfolio Expansion**

**AR99 Family + C100 + More**

1. AR99 Cat-Eye Edition
2. AR99 Pro Swappable-Battery Edition
3. Edition · Audio & Swappable-Battery
4. Edition · Sport Camera
3. Edition · Sport Camera + HUD
4. Edition · C100 AI+AR Enterprise Platform
5. Pre-research: Egocentric data collection

From founding (2019) → B-end mass production (2020-2024) → C-end debut (2024 Q4) → AR flagship (2025) → 2026 portfolio scale-out. One continuous engineering trajectory, fully self-developed.

Closing · Let's connect

PARTNERSHIP · 2026

# Thank You.

## Let's build what's next, together.

Wearable AI meets fashion design — turning smart glasses from niche gadgets into everyday essentials.

WeChat

WhatsApp

### PARTNERSHIPS
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  VandaGeek · Co-founder
- **Shenzhen AR Industry Assoc.**
  Vice President

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**The next step:** Sample demo, pilot project, or product roadmap discussion — let's set up a working session.

*Designing the Future You Wear.*