

Moverio® BT-35E Smart Glasses

Accessories Included

- Interface Unit
- ANSI Shields (clear and shaded)
- Belt Clip
- Cable Retainer
- Semi-hard Carrying Case



Transparent wearable display supporting content from popular devices.

Seamlessly blend digital content into the outside world — binocular, highly transparent Si-OLED HD wearable display that gives users a second-screen experience

Compatible with popular devices — works with HDMI® 1.4 and USB Type-C output devices, including Android™ mobile devices¹

Simple, out-of-the-box setup — intuitive interface unit; easy plug-and-play operation

No external power source required (USB Type-C) — interface also supports external power packs, via micro USB port

Innovative design — flexible, hinge-based headset accommodates a wide range of head sizes; comfortable fit; durable enough for daily use

Dual (binocular) displays — each lens has its own display, in your field of vision, projected into your surroundings; ideal for stereoscopic 3D content

ANSI certified protective shield — ANSI Z87.1 safety-glass compliant

Supports HDCP 1.4 for copyright protection — enables access to protected content

Display

Display Device Type Si-OLED (Silicon - Organic Light-Emitting Diode)
Contrast 100,000:1
Transmittance
 Headset: 40 percent
 Shade: 2 percent
Display Size 0.43" wide panel (16:9)
Pixels 921,600 pixels (1280 x 720 x RGB)
Refresh Rate 30 Hz
Field of View 23 degree (D)
Screen Size (Projected Distance) 40" at 2.5 m; 320" at 20 m
Color Reproduction 24-bit color (16.77 million colors)

Sensors

Compass Yes
Gyroscope Yes
Accelerometer Yes
Ambient Light Sensor Yes
Data Transfer Method
 USB Protocol: USB 2.0
 Device Class for Sensor: HID sensor

Camera

Pixels 5M pixels
Resolution and Frame Rate 2592 x 1944 (5M) @ 15 Hz, 1920 x 1080 @ 30 Hz/15 Hz, 1280 x 720 @ 60 Hz/30 Hz/15 Hz, 640 x 480 @ 60 Hz
Focus Type Pan focus
Focal Length 60 cm to ∞
Data Transfer Method
 USB Protocol: USB 2.0
 Device Class for Audio: UAC
 Device Class for Video: UVC 1.1
Supported File Format Motion-JPEG

Video Input

HDMI Type A
 HDMI: Version 1.4
 Resolution: 1920 x 1080 @ 60 Hz/59.94 Hz, 1280 x 720 @ 60 Hz/59.94 Hz, 1280 x 720 @ 30Hz, 640 x 480 @ 60Hz
 HDCP: Version 1.4
 EDID: Supported
 Audio Codec: LPCM (32 kHz, 44.1 kHz, 48 kHz)

Video Input continued

USB Type-C
 Video I/F: DisplayPort Alternate Mode (DP Alt Mode)
 DisplayPort: Version 1.2
 Resolution: 1920 x 1080 @ 60 Hz/59.94 Hz, 1280 x 720 @ 60 Hz/59.94 Hz, 1280 x 720 @ 30Hz, 640 x 480 @ 60 Hz
 Audio Codec: LPCM (32 kHz, 44.1 kHz, 48 kHz)
 EDID: Supported
 HDCP: Version 1.3

Data Transfer

USB Type-C
 USB Protocol: USB 2.0
 Data Type: Sensor data, camera data, headset API control, firmware update

Sound Input/Output

Audio Jack 3.5 mm, 4 pole mini jack (Earphone with microphone CTIA standard compatible)
Supported Earphone
 Play Frequency Band: 20 Hz–20 kHz (recommended)
 Impedance: Over 16 Ω
 Output (Maximum Voltage): Under 27 mV
 Maximum input: 3.0 mW
Supported Mic
 Impedance: 2.2 kΩ @ 1 kHz
 Directionality: Omnidirectional

Other

Supported 3D Format Side-by-side format
LED Indicator Orange/Blue/White
OSD Function No Signal, Brightness Setting, Volume Setting, 2D/3Dmode Setting, Auto Brightness Setting, Mode Setting
Firmware Update Supported (Requires connecting to PC by USB Type-C)
Supported OS for Host Device (USB Type-C Connection) Windows® 10 (*Depends on supported status of USB Type-C on connected device); Android 7.0 or later (USB Type-C connection and custom SDK are necessary)

General

Operating Temperature 41°F to 95°F, 20–80% Humidity
Storage Temperature 14°F to 140°F, 10–90% Humidity
Power Supply Voltage I/F Unit
 USB Micro-B: 5.0 V, 1.5 A (DC input)
 USB Type-C: Current @ 1.5 A
Power Supply Voltage AC Adapter
 Input: 100–240 V AC +/- 10%, 50/60 Hz with micro USB cable
 Output: 5.0 V, 2 A
Power Consumption Max. 6.5 W(Standby 0.3 W)
Water Proof IP x 2 (Headset only)
Dimensions
 Headset: 193.5 x 176 x 30 mm (without shade)
 Interface Unit 85 x 52 x 15 mm
Weight
 Headset: Approx. 119 g (without shade)
 Interface Unit: Approx. 45 g (without belt clip and cable retainer)
What's in the Box Moverio BT-35E Headset, Interface Unit, AC Adapter (with attachment plug), USB Cable (for power supply only), ANSI Shields (clear and shaded), Belt Clip, Cable Retainer, Screw, Warranty, Semi-hard Carrying Case

Language

OSD English
Manual EN/JA/FR/ES/PT/DE/IT/NL/ZHT/KO/GB/DA/FI/NO/SV/CS/PL/HU/TR/RU/AR/HE/KK

Developer Resources

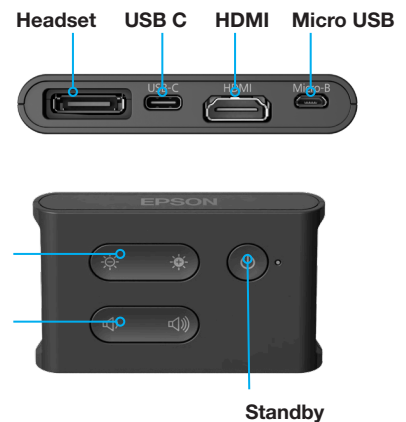
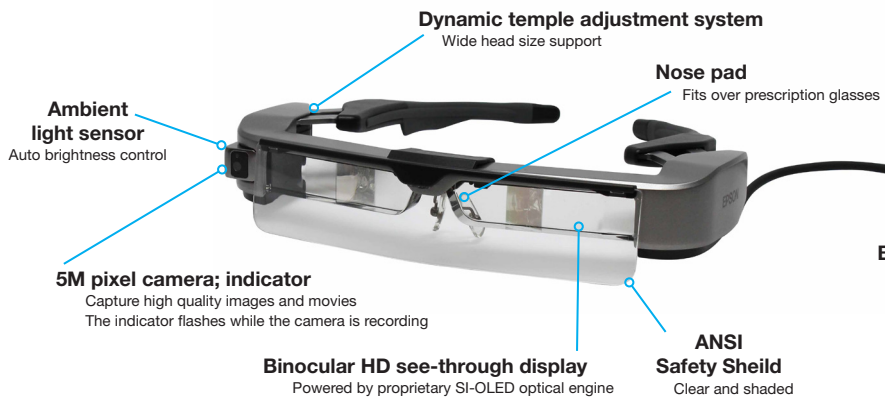
Developer Portal <https://tech.moverio.epson.com/en/>
Videos/Webinars www.youtube.com/moverio

Eco Features

RoHS compliant
 Recyclable product?
 Epson America, Inc. is a SmartWay® Transport Partner³

Ordering Information

Moverio BT-35E Smart Glasses	V11H935020
Moverio BT-35E UPC	0 10343 94306 3
Moverio BT-350 Temple Grip, Nose Pads, Neck Strap Combo Pack	V12H884W01
Moverio BT-350 Shade Unit Pack	V12H883W01



¹ Android mobile devices supporting DisplayPort Alt Mode over USB Type-C. See www.epson.com/moverio for a list of compatible Android devices. ² For convenient and reasonable recycling options, visit www.epson.com/recycle | ³ SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.

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