

Moverio[®] BT-35ES Smart Glasses

Smart Glasses



Moverio smart glasses with intelligent controller for remote collaboration.

HD image quality — high-quality video streaming via Epson's advanced Si-OLED micro-projection technology, 720p resolution, high brightness and a 23° wide field of view

Fully transparent, dual (binocular) displays — see-through display, in your field of vision, projected into your surroundings; view high-quality content while still focusing on the task at hand

Ideal for remote collaboration — sophisticated 5 MP camera makes it seamless; get service and support via a hands-free, see-what-I-see experience over an active Internet connection

Simple user interface — intuitive Google-certified touch controller with the latest Android OS, a high-resolution camera, flashlight and sensors to facilitate remote collaboration

Durable, flexible design — fits a wide range of head sizes and over prescription eyewear

Works both indoors and outdoors — ambient light sensor detects the surrounding brightness and automatically adjusts the display brightness to the optimum settings; built-in flip-up shade

Simple out-of-the-box experience — preloaded with productivity apps such as Chrome, Gmail, Google Drive™ and a QR code reader, plus Epson's pre-installed Moverio Link Pro app to control the Moverio smart glasses

Built-in audio — speaker, mini jack and noise-cancelling microphone in controller to support voice recognition capability

Enhanced connectivity — dual-band Wi-Fi and Bluetooth connectivity provide a fast, stable connection with a wide range of peripheral devices

Convenient portability — rechargeable battery in controller offers up to 5 hours of battery life¹; 64GB built-in memory (expandable to 2TB)

Safety-glass certified — comes with an attachable ANSI Z87.1 safety-glass compliant shield to ensure maximum eye-protection

Display

Headset
Display Device Type Si-OLED (Silicon-Organic Light-Emitting Diode)
Contrast 100,000:1
Transmittance
 Headset 40%
 Shade 2%
Display Size 0.43"-wide panel (16:9)
Pixel Number 921,600 pixels (1280 x 720 x RGB)
Refresh Rate 30Hz
Field of View 23 degrees (diagonal)
Screen Size (Projected Distance) 40 inch at 2.5 m; 320" at 20 m
Color Reproduction 24-bit color (16.77 million colors)
Controller
Display Device Type IPS LCD
Brightness 330 cd/m² (MAX)
Contrast 800:1
Display Size 2.95"-wide panel
Pixel Number 409,920 pixels (480x854xRGB)
Refresh Rate 60 Hz
Color Reproduction 24-bit color (16.77 million colors)

Platform

OS Version Android™ 9

CPU and Memory

CPU Qualcomm SXR1130
Memory 4 GB
Storage 64 GB
External Memory microSD (2 GB maximum), microSDHC (32 GB maximum), microSDXC (2 TB maximum)

Sensors

GPS Yes, in Controller
Compass Yes, 9-axis in both Headset and Controller
Gyroscope Yes, 9-axis in both Headset and Controller
Accelerometer Yes, 9-axis in both Headset and Controller
Ambient Light Sensor Yes, in both Headset and Controller
Proximity Sensor Yes, in Controller
Data Transfer Method
USB Protocol: USB 2.0
Device Class for Sensor: HID sensor

Camera

Pixels 5MP
Resolution and Frame Rate 2592 x 1944 (5M) @ 15 Hz, 1920 x 1080 @ 30Hz/15Hz, 1280 x 720 @ 60 Hz/30 Hz/15 Hz, 640 x 480 @ 60Hz
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 Audio: UVC 1.1
Supported File Format: Motion JPEG

Connectivity

Wireless LAN IEEE 802.11 a/b/g/n/ac, 2x2 Dual Band
Bluetooth
 Version: 5.0
 Profile: Bluetooth Classic (A2DP 1.3/AVRCP 1.3/HSP 1.2/HID 1.0/PAN PANU/PAN NAP/OPP1.2.1/SPP), Bluetooth LE (SCPP/HOGP)
USB
 Bottom Port: USB Type-C DP Alt, USB 2.0, USB 3.0
 Side port: USB Type-C USB 2.0
Audio 3.5 mm audio jack (CTIA standard earphones with microphone compatible)

User Interface

Touch panel
Operation Keys Power button, Volume keys, BACK key, HOME key, History key, Function key

Supported File Format

Video MPEG-2, MPEG-4, H.263, H.264, H.265 (HEVC), VP8, VP9
Audio AAC, HE-AAC, AMR, FLAC, MP3 (8 to 320 kbps) CBR/VBR, Vorbis, WAV, Opus

Video Input

USB Type-C
 Video I/F: DisplayPort Alternate Mode (DP Alt Mode)
 DisplayPort: Version 1.2
 Resolution: 1920x1080@60Hz/59.94Hz, 1280x720@60Hz/59.94Hz, 1280x720@30Hz, 640x480@60Hz
 Audio Codec: LPCM (32 kHz, 44.1 kHz, 48 kHz)
 EDID: Supported
 HDCP: Version 1.3
HDMI Type A
 HDMI: Version 1.4
 Resolution: 1920x1080@60Hz/59.94Hz, 1280x720@60Hz/59.94Hz, 1280x720@30Hz, 640x480@60Hz
 Audio Codec: LPCM (32 kHz, 44.1 kHz, 48 kHz)
 EDID: Supported

Data Transfer

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

Sound Input / Output

Headset
Audio Jack 3.5 mm, 4 pole mini jack (CTIA standard earphones with microphone compatible)
Supported Earphone
 Play Frequency Band: 20 Hz-20 kHz (recommended)
 Impedance: Over 16Ω
 Output (Maximum Voltage): Under 27 mV
 Maximum input: 3.0 mW
Supported Mic
 Impedance: 2.2 kΩ @ 1kHz
 Directionality: Omnidirectional
Controller
Audio Microphone, receiver, speaker (0.5 W), 3.5 mm audio jack (CTIA standard earphones with microphone compatible)

Other

Supported 3D Format Side by Side format (using the Utility application software)
Headset IF box LED Indicator Orange/Blue/White
Headset IF box OSD Function No signal, Brightness Setting, Volume Setting, 2D/3D mode Setting, Auto Brightness Setting, Mode Setting
Firmware Update Supported (Requires connecting to PC by USB Type-C)
Supported the OS for host device (USB Type Connection) Windows10 (* Depends on supported status of USB Type-C on connected device)
Global Navigation Satellite System GPS/GLONASS/Galileo/QZSS/BDS

General

Operating 41 °F to 95 °F (5 °C to 35 °C)
Humidity (Operating) 20% to 80%
Temperature (Storage) 14 °F to 140 °F (-10 °C to 60 °C)
Humidity (Storage, Unfrozen)
 Headset = 20% to 80%
 Controller = 10% to 90%
Power Supply Voltage I/F Unit
 USB Micro-B: 5.0 V, 1.5A (DC input)
 USB Type-C: Current @ 1.5 A
Power Supply Voltage AC Adapter
 Input: 100-240V AC +/- 10%, 50/60 Hz with micro USB cable
 Output: 5.0 V, 2 A
 Power Consumption Max. 6.5W (Standby 0.3W)
Headset Dimensions (W x D x H) W193.5 mm x D176 mm x H30 mm (without shade)
Controller Dimensions (W x D x H) W55 mm x D110 mm x H23 mm
Headset Weight Approx. 4.2 oz (without shade)
Interface Weight Approx. 1.6 oz (without Belt clip and Cable retainer)
Controller Weight Approx. 6.5 oz
Battery 3400mAh
Battery Type lithium polymer
Water Proof IPx2 (except for USB port)

Language

OSD English
Language EN/JA/FR/ES/PT/DE/IT/NL/ZHT/UK/DA/FI/NO/SV/CS/PL/HU/TR/RU/AR/KK

Developer Resources

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

Eco Features

RoHS compliant
 Recyclable product²
 Epson America, Inc. is a SmartWay® Transport Partner³

Ordering Information

Moverio BT-35ES Smart Glasses	V11H935020AL
Moverio BT-35E Temple Grip, Nose Pads, Neck Strap Combo Pack	V12H884W01
BT-35E Shade Unit Pack	V12H883W01

1 Battery life will vary depending on usage. 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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