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Moverio® BT-40S Smart Glasses with Intelligent Touch Controller

See-through, AR glasses with smart touchscreen controller.

Outstanding image quality — Epson's Si-OLED technology delivers excellent color reproductions; Full HD 1080p resolution enhances every detail; wide 34-degree field-of-view gives users the experience of viewing a 120" screen from 16' away

Fully transparent, dual (binocular) displays — keep an eye on your surroundings, even while viewing content from your glasses

Simple user interface — includes a highly intuitive Google Mobile Services (GMS) certified touch controller equipped with the latest Android OS, a high-resolution 13 MP camera, flashlight and sensors to support a wide variety of applications

Durable, flexible and comfortable design — easy to wear, even for extended periods, due to durable soft temple design ensures glasses fit a wide range of head sizes and over prescription eyewear

Works both indoors and outdoors —attachable magnetic shade; ambient light sensor detects the surrounding brightness and automatically adjusts the display brightness to the optimum settings

Excellent out-of-the-box functionality — simple interface; preloaded with useful productivity apps such as Chrome, Gmail, Google Drive and a QR code reader, along with the Moverio Link Pro app to control Epson Moverio smart glasses

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

Developer-friendly platform — familiar and open development environment that makes it easy to build and maintain applications for Moverio smart glasses

Packed with sensors — GPS, gyroscope, accelerometer and ambient light sensors to enable location tracking, head tracking and motion tracking

Display

Headset
Display Device Type Si-OLED (Silicon-Organic Light-Emitting Diode)
Brightness 1000 cd/m² (MAX)
Contrast 500,000: 1
Transmittance
Headset 40%
Shade 2%
Display Size 0.453"-wide panel
Pixel Number 2,073,600 pixels (1920x1080xRGB)
Refresh Rate 60 Hz
Field of View 34 degrees (diagonal)
Screen Size (Projected Distance) 120" at 5 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 4GB
Storage 64GB
External Memory microSD (2 GB maximum), microSDHC* (32 GB maximum), microSDXC (2 TB maximum)

Sensors

Camera 13MP Auto Focus, in Controller
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

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 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 Formats

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: 1080p FHD/60 Hz
EDID: Supported
HDCP: Supported

Data Transfer

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

Sound Input/Output

Headset
Audio 3.5 mm audio jack (CTIA standard earphones with microphone compatible)
Audio Output
Impedance: Over 16Ω
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)
LED Indicator Yes
Firmware Update Supported (requires connecting to PC by USB Type-C)
Supported OS for Host Device (USB Type Connection) Windows 10® (depends on supported status of USB Type-C on connected device), Android 8.0 or later
Global Navigation Satellite System GPS/GLONASS/Galileo/QZSS/BDS
Firmware Update Supports (OTA)

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) 10% to 90%
USB Power Delivery
Headset
Rev 3.0
Input [5.0] V [0.9]A
Controller
Rev 2.0
Input [5.0]V [2]A
Output Yes
Headset Dimensions (W x D x H)
194 mm x 164 mm x 41 mm (without shade)
Controller Dimensions (W x D x H)
55 mm x 110 mm x 23 mm
Headset Weight Approx. 3.4 oz
Controller Weight Approx. 6.5 oz
Battery 3,400 mAh
Battery Type Lithium Polymer
Waterproof IPx2 (except for USB port)

What's in the Box

Dark Shade, Headset User Guide, Controller User Guide, Safety Instructions, USB Cable, SD Card Slot Pin

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 product[2]
Epson America, Inc. is a SmartWay® Transport Partner[3]

Ordering Information

Moverio BT-40S Smart Glasses	V11H969120
Moverio BT-40 3 Nose pad pack	V12HA51W01
1 OTG nose pad pack	V12HA50W01
Moverio BT-40 3 Shade Pack	V12HA49W01
Moverio BO-IC400 Intelligent Controller	V12HA24020

1 For convenient and reasonable recycling options, visit www.epson.com/recycle | **2** SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency.

*SDHC card not included

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ENERGY STAR

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