

Moverio BT-45CS



The Moverio BT-45CS Si-OLED binocular smart glasses with Intelligent Controller set a new standard of usability in industrial applications.

Based on Epson's revolutionary Si-OLED technology, the all-new BT-45CS smart glasses seamlessly blend digital content into a real-world environment. Featuring a headband-style headset for outstanding comfort, plus helmet clip attachment, they are compliant with international safety and durability standards, making them ideal for remote assistance, workflow guidance and training applications.

Revolutionise industrial workflows

Empower your workforce with enhanced knowledge sharing using the BT-45CS. With a hands-free display, a centred HD camera and integrated audio, two-way communication is stunningly clear and can be used to complete complex tasks with exceptional speed and efficiency.

Advanced optics

The Full HD display provides excellent colour reproduction and high transparency, ideal for step-by-step guidance and overlaying instructions.

Ergonomic and durable

The BT-45CS is compliant with MIL-STD-810H drop test¹ and IP52 standards, combining a robust construction with an ergonomic and comfortable design.

Moverio Intelligent Controller

Features an integrated touchscreen and provides the perfect platform for a range of applications. It includes flexible connectivity with Wi-Fi, Bluetooth, USB-C² and 2TB expandable storage, plus a built-in camera and flashlight.

DATASHEET / BROCHURE



KEY FEATURES

- **High visual and audio quality**
Centred HD 8MP front-facing camera with autofocus and built-in audio
- **Hands-free, wearable display**
With flip-up design for when the display is not in use
- **Rugged but comfortable**
A highly robust yet comfortable design with over-the-glasses support
- **Simple and flexible connectivity**
Connects to compatible USB Type-C² devices with a single cable
- **Proven durability and safety**
MIL-STD-810H drop test¹, IP52 and ANSI Z87.1 compliant

PRODUCT SPECIFICATIONS

OPTICAL

Model Type	See-through binocular OTG (Over the Glasses)
Optical technology	Si-OLED (Silicon - Organic Light-Emitting Diode)
Panel size	0.45 inch wide panel (16:9)
Pixel Number	2,073,600 pixels (1,920x 1,080) x RGB
Field of View	Approx. 34 °
Screen Size (Projected Distance)	120 inches at 5 m
Colour Reproduction	24-bit colour (16.77 million colours)
Refresh rate	60 Hz
3D support	Side By side
Contrast ratio	500,000 : 1

HEADSET SENSORS

Camera	8 million pixels
Camera Autofocus	Yes
Compass	Yes
Gyroscope	Yes
Accelerometer	Yes
Ambient Light Sensor	Yes

HEADSET CONNECTIVITY

Connection type	USB Type-C
Video Interface	Display Port Alternate Mode
Display Port Version	1.2
Audio Interface	3.5mm audio jack

CONTROLLER OPERATING SYSTEM

OS Type	Android 10
OS Update	OTA (over-the-air)

CONTROLLER CPU AND MEMORY

CPU	Snapdragon XR1 2.52GHz Octa Core
RAM	4 GB
Internal memory	64 GB
External Memory	Micro SD (2GB max.), MicroSDHC (32GB max.), MicroSDXC (2TB max.)

CONTROLLER DISPLAY

Display type	IPS LCD
Panel size	2.95 inch wide panel
Pixel Number	409,920 (480 x 854)
Contrast ratio	800 : 1
Colour Reproduction	24 bit-color (16.77 million colors)
Refresh Rate	60 Hz

CONTROLLER SENSORS

Camera	13 million pixels
Camera Auto focus	Yes
Microphone	Yes
Global Navigation Satellite System	GPS, GLONASS, Galileo, QZSS, BDS
Compass	Yes
Gyroscope	Yes
Accelerometer	Yes
Proximity sensor	Yes
Ambient Light Sensor	Yes

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WHAT'S IN THE BOX

- Headset
- Quick Start Guide
- Screw Set
- Shade
- Safety and support guide
- Carrying Case

PRODUCT SPECIFICATIONS

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CONTROLLER CONNECTIVITY

Connector ports	microSD card slot, USB Type-C (DisplayPort Alt, USB 2.0, USB 3.0), USB Type-C (USB 2.0), 3.5mm audio jack (CTIA with microphone)
Video Interface	Display Port Alternate Mode
Display Port Version	1.2
Wireless LAN	IEEE 802.11 a/b/g/n/ac, 2x2 Dual Band
Bluetooth	5
Built-in Speaker	Yes
Built-in Microphone	Yes
Built-in Earpiece	Yes

USER INTERFACE

Touchscreen	Yes
Function key	HOME, BACK, Volume (+/-), Power, Recent button, Function button

SUPPORTED FILE FORMATS

Video	MPEG4, H.264, MPEG2 (H.264+AAC)
Audio	AAC, MP3, WAV

SOUND OUTPUT

Sensitivity level	80 dB/mW
Impedance	16 ohm

GENERAL

Controller IP Rating	IPX2
Operating Temperature	5 °C - 35 °C, 20 % - 80 % Humidity
Battery Type	Li-Polymer 3,400 mAh
Dimensions: Headset	290 mm x 200 mm x 57 mm (D x W x H) (without light shielding) (without headband)
Dimensions: Controller	110 mm x 55 mm x 23 mm (D x W x H)
Weight Headset	550 g
Storage Temperature	-10 °C- 60 °C / 10 %- 90 % (no condensation)
Power Supply Voltage	5 V, 2 A
Controller	
Weight Controller	183 g

OTHER

Warranty	24 months Carry in
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OPTIONAL ACCESSORIES

- Moverio Controller Holder - BO-CH400
V12HA59W01

LOGISTICS INFORMATION

SKU	V11H970140
EAN code	8715946710532
Country of Origin	China



* Warranty offers are not available for all countries. Please contact your local Epson representative.

For further information please contact your local Epson office or visit www.epson-europe.com
Austria 01 253 49 78 333 Belgium +32 (0)2 792 04 47 Czech 800/142 052 Denmark 44 50 85 85 Finland 0201 552 091 France 09 74 75 04 04
(Cost of local call, operator charges may apply) Germany +49 (0) 2159/92 79 500 Greece +30 211 198 62 12 Hungary 06800 147 83 Ireland 01 436 7742
Italy 02-660321 10 (0,12 /min) Luxembourg +352 27860692 Middle East +9714 8872172 Netherlands +31 (0)20 708 5099 Norway +47 67 11 37 00
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1. MIL-STD-810H drop test applies to the BT-45C/BT-45CS headset and measures drops from 122cm in 26 directions. It measures compliance in the test environment and does not guarantee there will be no damage or failure.
2. The Moverio BT-45C/BT-45CS supports video output via USB Type-C with devices that support DisplayPort Alternate Mode. Please check your device specifications, visit Epson's FAQ pages or contact an Epson representative for device compatibility details.

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