

WatchWord Closed Caption Cinema Accessibility Solution



WatchWord is a cinema accessibility packaged solution that is easy for exhibitors to install and maintain, and simple for customers to use. The WatchWord Accessibility solution integrates closed captions (CC) in real time, allowing exhibitors to make their rooms available to D/deaf, deafened and hard of hearing customers.

The WatchWord system comprises a Server and multiple sets of Controllers and Glasses. The server connects to your digital cinema server(s) and WiFi infrastructure, providing coverage for the smart glasses to be used in any seat in any auditorium.

When a Digital Cinema Package (DCP) with a CC track is played, the WatchWord server connects to the projection system and streams the CC track direct over WiFi to audience members wearing WatchWord smart glasses. No captions are pre-loaded onto the glasses or retained; captions are sourced direct from the playing DCP.

The WatchWord app is installed within the Controllers, allowing customers to personalise their experience; choosing the colour, size, position, depth of field and brightness of the captions and enabling them to change these settings as frequently as they choose throughout a screening.

Key Features

- Cinema owned or leased Epson Moverio BT-40 smart glasses
- Touchscreen display with minimal light bleed avoiding distraction to other customers (automatically dims after a few seconds)
- Customers can select the colour, brightness, size, position, and the depth of field of the captions, providing a comfortable and personalised experience
- Compatible with most digital cinema servers
- Supports content from SMPTE and Interop DCPs
- 4-hour battery life - fully rechargeable in 3 hours

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Specifications

EPSON® BO-IC400N Controller

I/O

1 x microSD card slot
1 x USB Type-C (DisplayPort Alt, USB 2.0, USB 3.0)
1 x USB Type-C (USB 2.0)
1 x 3.5mm audio jack (CTIA with microphone)

Connectivity

Wireless LAN IEEE 802.11 a/b/g/n/ac, 2x2 Dual Band

Control

OS Type: Android 10

Dimensions and weight

Dimensions: 110mm x 55mm x 23mm
Weight: 183g

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
Refresh Rate: 60Hz

Power

Battery Type: Li-Polymer 3,400 mAh
Power Supply Voltage: 5 V, 2 A
Battery Life: 4 hours

Certifications

IP Rating: IPX2

Operating conditions

Operating Temperature:
5 ° C - 35 ° C, 20 % - 80 % Humidity
Storage Temperature:
-10 °C- 60 °C / 10 %- 90 % (no condensation)

EPSON® Moverio BT40 Headset

I/O

1 x USB Type-C (DisplayPort Alt, USB 2.0, USB 3.0)
1 x 3.5mm audio jack

Dimensions and weight

Dimensions: 164mm x 194mm x 41mm
Weight: 95g

Display

Model Type: See-through binocular
Optical technology: Si-OLED
Panel size: 0.45 inch wide panel (16:9)
Pixel Number: 2,073,600 pixels (1920x 1080)
Full Field of View: Approx. 34 °
Screen Size (Projected Distance): 120 inches at 5m
Colour Reproduction: 24-bit colour
Refresh rate: 60 Hz
3D support: Side by side
Contrast ratio: 500,000 : 1

Certifications

IP Rating: IPX2

Operating conditions

Operating Temperature:
5 ° C - 35 ° C, 20 % - 80 % Humidity
Storage Temperature:
-10 °C- 60 °C / 10 %- 90 % (no condensation)

WatchWord WWS-1 Server

Form Factor

19 inch rack mount, 1U height

I/O's

2 x USB3.0
2 x USB2.0
2 x USB3.2

Power

250W 100-240VAC 60-50Hz

Dimensions and weight

Dimensions: 211mm x 436mm x 44.4mm
Weight: 6kg