Wearable devices allow hands free operation of tasks enabling the ability to digitize information from people, objects and environments.

The FUJITSU Head Mounted Display IOT001 is the perfect partner for augmented reality environments delivering hands free ease of use to enhance remote support, maintenance and training through the robust industry focussed design. It consists of an adjustable non-see-through display positioned in front of either eye, wearable keyboard, integrated camera and voice control/command. In addition, the device contains a variety of sensors to detect the users' environment and behavior.

Productivity and Ease of Use
- Auto adjust brightness judging luminance
- Use for both left and right eyes
- Attachable with safety helmets

Reliability and Robustness
- Water and Dust proof (IPX5/IPX7/IPX5X) MIL-810 standard
- Large capacity battery
- Exchangeable battery

Flexibly configurable remote communication tool
- Easy connection to the Internet and business systems
- Reduced integration time/costs
- Hands free and remote support
# Head Mounted Display IOT001

## Technical data

### Description
- **Processor:** Qualcomm® APQ8026
  - Quad Core 1.2GHz
- **Operating System:** Android® 4.4.4

### Wireless connection
- Bluetooth® Version 3.0 compatibility
  - Profiles: HFP v1.1 (HS only); HID v1.1
  - Bluetooth Class 2
- Wi-Fi Display: Miracast, HDCP 2.2
- Wi-Fi WEP, WPA/WPA 2, 802.1x EAP
- Wi-Fi protocol: IEEE802.11 a/b/g/n (2.4GHz, 5GHz)

### Audio
- Mono speaker
- Dual-Mic
- Headphone Jack: 3.5 mm, 4-conductor

### External storage
- **Form:** microSD, microSDHC, up to 32 GB
- **Bus interface:** High Speed UHS-I
- **File system:** FAT16, FAT32

### Chemical resistance
- Ethanol, IPA, sodium hypochlorite

### Dustproof
- IP5X

### Spillproof / Waterproof
- IPX5 / IPX7

### Resilience
- MIL-STD 810G

### Form
- Monocular, non see-through

### Sensors
- Ambient Light Sensor
- Gyroscope
- Accelerometer
- Magnetic Field Sensor

### Memory
- 2 GB

### Storage
- 8 GB

### Camera
- 8.1 M effective pixels, 8 M recording pixels

### Camera notes
- **Image resolution:**
  - VGA (640x480), FWVGA (854x480), HD (1280x720), FHD (1920x1080), 3M (2048x1536), 6M (3264x1840), 8M (3264x2448)
  - Only FWVGA, HD, FHD, 6M, 8M if synced with image
- **Image Format:** JPEG (extension: jpg)
- **Video resolution:**
  - VGA (640x480), FWVGA (854x480), HD (1280x720), FHD (1920x1080)
  - Only VGA if synced with GW
- **Video format:** MP4 (extension: mp4)
- **Video codec:** H.264
- **Audio codec:** AAC

### Interfaces
- **USB:**
  - micro USB (Type A/B)
  - USB 2.0 High Speed
  - MTP mode
  - USB Host (USB On-The-Go)

### Special features
- **Color depth:** 24 bit True Color
- **Contrast - typical:** 130:1
- **Viewing angle (h/v) - typical:** 26° diagonal ±5%
- **Brightness - typical:** 10 - 1,200 cd/m²
- **Diagonal Size:** 0.4-inch
- **Virtual size:** Equal to 15-inch screen in 81 cm from eye
- **Diopter:** +1 to -2D
### Eye relief
1.21 in. (30.8 mm)

### Resolution (interpolated)
854 x 480 (FWVGA)

### Compliance

<table>
<thead>
<tr>
<th>Region</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>CE CB</td>
</tr>
<tr>
<td>USA/Canada</td>
<td>FCC Class A UL/cUL</td>
</tr>
</tbody>
</table>

### Keyboard

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Wearable keyboard</td>
</tr>
<tr>
<td>Resilience</td>
<td>Waterproof: IPX5/IPX7</td>
</tr>
<tr>
<td></td>
<td>Dustproof: IP5X</td>
</tr>
<tr>
<td></td>
<td>Chemical resistance: Ethanol, IPA, sodium hypochlorite</td>
</tr>
<tr>
<td></td>
<td>MIL-STD 810G: Yes</td>
</tr>
<tr>
<td>Connection</td>
<td>Bluetooth Version 3.0 compatible</td>
</tr>
<tr>
<td>I/O</td>
<td>microUSB (Type B)</td>
</tr>
<tr>
<td>Battery info</td>
<td>2x AAA alkaline battery</td>
</tr>
<tr>
<td></td>
<td>Runtime: approx. 5 months typical (8h switched on per day)</td>
</tr>
<tr>
<td>Dimension (W x D x H)</td>
<td>5.31 x 2.68 x 0.79 in. (135 x 68 x 20 mm) (W x D x H)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 3.35 oz. (95 g) (wearable keyboard without fixing band) Approx. 0.91 oz. (26 g) (fixing band only)</td>
</tr>
</tbody>
</table>

### Battery Charger

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric supply</td>
<td>AC adapter (Input: 100-240V, Output: 12V, max. 900mA)</td>
</tr>
<tr>
<td></td>
<td>microUSB Type B (Output: DC5V, 500mA - max. 900mA)</td>
</tr>
<tr>
<td>Charging time</td>
<td>5.5 hours in case of charging with AC adapter above</td>
</tr>
<tr>
<td>Dimensions</td>
<td>2.95 x 3.94 x 1.86 in. (75 x 100 x 47.2 mm) (W x D x H) (excluding rubber parts)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 3.70 oz. (105 g)</td>
</tr>
</tbody>
</table>

### Dimensions / Weight / Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension details</td>
<td>15.75 x 13.78 x 1.46 in. (400 x 350 x 37 mm) (W x D x H) display arm extended 11.42 x 7.1 x 2.36 in. (290 x 180 x 60 mm) (W x D x H) display arm retracted</td>
</tr>
<tr>
<td>Weight</td>
<td>Main unit and battery: approx. 10.76 oz. (315 g)</td>
</tr>
<tr>
<td></td>
<td>Belts: approx. 0.275 oz. (78 g)</td>
</tr>
<tr>
<td></td>
<td>Helmet attachment clip: approx. 0.233 oz. (66 g)</td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>41 - 95°F (5 - 35 °C)</td>
</tr>
<tr>
<td>Operating relative humidity</td>
<td>20 - 80 % (relative humidity, non-condensing)</td>
</tr>
</tbody>
</table>

### Order information

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPCSK342AP</td>
<td>CP695448-01</td>
<td>Head Mounted Display</td>
</tr>
<tr>
<td>FPCBP478AP</td>
<td>CP693951-01</td>
<td>Battery Pack</td>
</tr>
<tr>
<td>FPCB041AP</td>
<td>CP693953-01</td>
<td>Battery Charger</td>
</tr>
<tr>
<td>FPCSK339AP</td>
<td>CP694522-01</td>
<td>Fitting Belt</td>
</tr>
<tr>
<td>FPCSK340AP</td>
<td>CP694524-01</td>
<td>Helmet Attachment</td>
</tr>
<tr>
<td>FPCSK338AP</td>
<td>CP694520-01</td>
<td>Wearable Keyboard</td>
</tr>
<tr>
<td>FPCSK341AP</td>
<td>CP694526-01</td>
<td>Mono Earphone</td>
</tr>
</tbody>
</table>
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Software

www.fujitsu.com/software/

More information

Learn more about FUJITSU UBIQUITOUSWARE Head Mounted Display IOT001, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

www.fujitsu.com/fts/accessories

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