

# ZOOM

## System requirements

- An internet connection – broadband wired or wireless (3G or 4G/LTE)
- Speakers and a microphone – built-in or USB plug-in or wireless Bluetooth
- A webcam or HD webcam – built-in or USB plug-in
- Or, a HD cam or HD camcorder with video capture card

## Supported operating systems

- macOS X with macOS 10.7 or later
- Windows 10
- Windows 8 or 8.1
- Windows 7
- Windows Vista with SP1 or later
- Windows XP with SP3 or later
- Ubuntu 12.04 or higher
- Mint 17.1 or higher
- Red Hat Enterprise Linux 6.4 or higher
- Oracle Linux 6.4 or higher
- CentOS 6.4 or higher
- Fedora 21 or higher
- OpenSUSE 13.2 or higher
- ArchLinux (64-bit only)

## Supported tablet and mobile devices

- [Surface PRO 2 running Win 8.1](#)
- [Surface PRO 3 running Win 10](#)
- [iOS and Android devices](#)
- Blackberry devices

## Supported browsers

- Windows: IE 11+, Edge 12+, Firefox 27+, Chrome 30+
- Mac: Safari 7+, Firefox 27+, Chrome 30+
- Linux: Firefox 27+, Chrome 30+

## Processor and RAM requirements

	Minimum	Recommended
Processor	Single Core 1Ghz or Higher	Dual Core 2Ghz or Higher (i3/i5/i7 or AMD equivalent)
RAM	N/A	4Gb

### Notes:

- Dual and single core laptops have a reduced frame rate when screen sharing (around 5 frames per second). For optimum screen sharing performance on laptops we recommend a quad core processor or higher.
- Linux requires a processor or graphics card that can support [OpenGL 2.0](#) or higher.

## High DPI support

- High DPI displays are supported in Zoom version 3.5 or higher

## Bandwidth requirements

The bandwidth used by Zoom will be optimized for the best experience based on the participants' network. It will automatically adjust for 3G, WiFi or Wired environments.

Recommended bandwidth for meetings and webinar panelists:

- For 1:1 video calling:
  - 600kbps (up/down) for high quality video
  - 1.2 Mbps (up/down) for 720p HD video
  - Receiving 1080p HD video requires 1.8 Mbps (up/down)
  - Sending 1080p HD video requires 1.8 Mbps (up/down)
- For group video calling:
  - 800kbps/1.0Mbps (up/down) for high quality video
  - For gallery view and/or 720p HD video: 1.5Mbps/1.5Mbps (up/down)
  - Receiving 1080p HD video requires 2.5mbps (up/down)
  - Sending 1080p HD video requires 3.0 Mbps (up/down)
- For screen sharing only (no video thumbnail): 50–75kbps
- For screen sharing with video thumbnail: 50–150kbps
- For audio VoIP: 60–80kbps
- For Zoom Phone: 60–100kbps

Recommended bandwidth for webinar attendees:

- For 1:1 video calling: 600kbps (down) for high quality video and 1.2 Mbps (down) for HD video

- For screen sharing only (no video thumbnail): 50–75kbps (down)
- For screen sharing with video thumbnail: 50–150kbps (down)
- For audio VoIP: 60–80kbps (down)

## HD camera suggestions

- [Aver CAM340](#), [Aver CAM520](#)
- [Logitech C930e](#), [Logitech Brio](#), [Logitech PTZ Pro](#)
- [Huddly](#)
- [VDO360 PTZ HD Camera](#)
- [VTEL HD4000PTZ Camera](#)
- [Vaddio Clearview USB](#)
- [Microsoft HD Webcams](#)
- [Hovercam Solo 5 Document and Webcam](#)
- [Apple?](#)

# ZOOM

## System Requirements for iOS, iPadOS, and Android

### Equipment

- An Internet connection – WiFi (a/g/n/ac) or wireless (3G or 4G/LTE)
- (Optional) Bluetooth wireless speakers and microphone

### Supported Operating Systems

- iOS 7.0 or later:
  - Send and receive video using front or rear camera
  - iPhone 4 or later, iPad Pro, iPad Mini, iPad 2 or later, iPod touch 4th Generation, iPhone 3GS (no front facing camera)
- iPadOS 13 or later
- Android 4.0x or later
- Kindle Fire HD

### Supported Browsers for Web Start

- iOS/iPadOS: Safari5+, Chrome
- Android: Webkit (default), Chrome

### Processor Requirement

- Any 1 Ghz single core processor or better (non-Intel)

### Bandwidth Recommendations

The bandwidth used by Zoom will be optimized for the best experience based on the participants' network. It will automatically adjust for 3G or WiFi

Recommended bandwidth over WiFi:

- For 1:1 video calling: 600kbps (up/down) for high quality video and 1.2 Mbps (up/down) for HD video

- For group video calling: 600kbps/1.2Mbps (up/down) for high quality video. For gallery view: 1.5Mbps/1.5Mbps (up/down).

## Bluetooth Speakerphones and Microphones

- [Jabra Speak 510](#)
- [Logitech P710e](#)
- [Plantronics Calisto 620](#)