

Streaming Bandwidth Requirements

VIDEO CONFERENCING APPLICATION REQUIREMENTS



FaceTime

- 128 kbit/s upstream/downstream



Microsoft Teams

- 30 kbps Peer-to-peer audio calling
- 130 kbps Peer-to-peer audio calling and screen sharing
- 500 kbps Peer-to-peer quality video calling 360p at 30fps
- 1.2 Mbps Peer-to-peer HD quality video calling with resolution of HD 720p at 30fps
- 1.5 Mbps Peer-to-peer HD quality video calling with resolution of HD 1080p at 30fps
- 500kbps/1Mbps Group Video calling
- 1Mbps/2Mbps HD Group video calling (540p videos on 1080p screen)



WiFi Calling

- 500 Kbps for a good quality call
- 1 Mbps for the best quality call



ZOOM

1:1 video calling:

- High-quality video: 600kbps (up/down)
- 720p HD video: 1.2Mbps (up/down)
- 1080p HD video: 3.8Mbps/3.0Mbps (up/down)

Group video calling:

- High-quality video: 1.0 Mbps/600kbps (up/down)
- 720p HD video: 2.6Mbps/1.8Mbps (up/down)
- 1080p HD video: 3.8Mbps/3.0Mbps (up/down)
- Gallery view receiving: 2.0Mbps (25 views), 4.0Mbps (49 views)

Screen sharing only (no video thumbnail): 50-75kbps

Screen sharing with video thumbnail: 50-150kbps

Audio VoIP: 60-80kbps

Zoom Phone: 60-100kbps



AVERAGE VIDEO USAGE AMOUNTS

Standard Definition (SD) video

averages 1GB of data per hour per device

High Definition (HD) video

averages 3GB of data per hour per device

CONNECT WITH US:

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VIDEO STREAMING ENTERTAINMENT APPLICATIONS



APPLE TV+

- 2.5 Mbps to stream 480p content
- 6 Mbps to stream 720p content
- 8 Mbps to stream 1080p content
- 15 Mbps to stream 4K UHD content



Amazon Prime

- 1 Mbps to stream 480p content
- 3.5 Mbps to stream 720p/1080p content
- 15 Mbps to stream 4K UHD video content



DirectTV Stream (Live Programming)

- 150Kbps to 2.5Mbps are ideal speeds for standard-definition streaming
- 2.5 to 7.5Mbps are best for high-definition quality up to 1080p



Disney+

- 5 Mbps minimum bandwidth
- 5 Mbps recommended bandwidth



ESPN+

- 5 Mbps minimum bandwidth
- 5 Mbps recommended bandwidth



Fubo (Live Programming)

- 480p 3+ Mb/s Smartphones and small tablets
- 720p 7+ Mb/s Larger tablets and connected devices (Roku, Apple TV, Web)
- 1080p 10+ Mb/s Some video on-demand using connected devices (Roku, Apple TV, etc)
- 4K 25+ Mb/s 4K devices*



HBO MAX

- 5 Mbps minimum bandwidth
- 5 Mbps recommended bandwidth



Hulu (Live Programming)

- 1.5 Mbps to stream SD content
- 3 Mbps to stream 720p content
- 6 Mbps to stream 1080p content
- 13 Mbps to stream 4K UHD content



iTunes Video

- 2.5 Mbps to stream 480p content
- 6 Mbps to stream 720p content
- 8 Mbps to stream 1080p content
- 25 Mbps to stream 4K UHD content



Netflix

- High definition (HD) 720p: 3 Mbps
- Full high definition (FHD) 1080p: 5 Mbps
- 4K/Ultra HD (UHD) 4K: 15 Mbps



NFL Sunday Ticket (Live Programming)

- 1 Mbps is the minimum recommended bandwidth
- 4 Mbps to stream HD content



Peacock

- 3 Mbps minimum bandwidth
- 8 Mbps recommended bandwidth



Paramount+

- 3 Mbps minimum bandwidth
- 3 Mbps recommended bandwidth



YouTube

- 2.5 Mbps stream 720p content
- 4 Mbps to stream 1080p content
- 15 Mbps to stream 4K UHD content

YouTube TV (Live Programming)

- Under 3 Mbps, YouTube TV may load slowly or buffer
- 3 Mbps to stream SD content
- 7 Mbps to stream HD content
- 13 Mbps to reliably stream HD content, even with other devices using the same network

Note: All stream devices (Roku, Apple TV, Firestick, etc.) should be set to a display resolution of 720p to provide the best overall experience. Some services allow additional bandwidth and resolution settings via their application, especially on mobile devices.

