



# APPIA VIDEO COMMUNICATOR REQUIREMENTS

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## LAPTOPS AND DESKTOPS

### Processor:

- Sender video resolution of up to 1280x720 - Quad Core
  - CPU clock speed 2.0 GHz or higher
- Sender video resolution of up to 640x480 - Dual Core
  - CPU clock speed 2.0 GHz or higher

### Operating System

- Windows XP (SP 3 or higher)
- Vista (SP 1 or higher)

### Memory

- 1 GB or higher for XP
- 2 GB or higher for Vista

### Microsoft .NET Framework

- 2.0 or higher

### Audio card

- Physical or onboard

### Video card

- 256 MB with acceleration

Before you enter an Applause session, be sure to turn off any applications you will not need.

## NETWORK

If you are on a local area network (LAN), please see your network administrator to make sure these UDP ports are not blocked on your firewall:

- 5060
- Range 16384 - 65535
- 4000
- Set the MTU at 1,500 if possible; if not, at 1,420. (Lower MTUs increase overhead and therefore bandwidth requirements.)

### Home/SOHO Routers

The best practice is to bypass your router and connect your cable or DSL line directly to the computer you will be using with Applause. If you must use a router, choose the factory default settings.

On some routers, the following settings must be disabled:

- Any SIP settings, including a SIP application layer gateway (ALG)
- Stateful packet inspection (SPI) firewall

If you are having problems and if you are an advanced user: Please ensure that the following ports are neither blocked nor forwarded to a specific destination:

- 5060
- Range 16384 - 65535
- 4000

Do not use Applause over a home/SOHO wireless connection as it usually results in much degraded audio.

## CAMERAS

### Desktop Camera

- Logitech QuickCam Vision Pro or QuickCam Pro 9000

### Conference Room Camera

- Sony EVI-HD1 (HD) or EVI-D70 (SD), with Intensity Pro video capture card

Many participants, especially those who are traveling, use USB webcams. Although these cameras are adequate, if you use a Logitech camera, do not use the Right Light feature

Because of the limitations of USB, the higher the resolution you set your camera, the lower the frame rate. If you set the resolution at 1280x720 or higher, the actual frame rate drops to 2.5 frames per second, which is too slow for good quality video.

So it is best to set your camera at the lowest resolution possible consistent with the demands of your video session. Also, make sure that you reset the frame rate whether you move from a high resolution to a lower one or a low resolution to a higher one.

## AUDIO DEVICES

PC components vary considerably. **So it is best not to use the microphone and speakers in your computer or to use the microphone in your webcam.**

For the best experience, use a headset or a speakerphone, such as the ones recommended below. Also, make sure other audio devices are disabled.

### Desktop Audio

- Plantronics CS50-USB
- ClearOne Chat 50

### Conference Room Audio

- ClearOne Chat 150

These devices are USB and come with drivers. Once you have installed them:

1. Go to Start -> Control Panel
2. Open Sounds (Vista) or Sounds and Audio Devices (XP)
3. Under 'Playback' choose the device you have installed as 'Default'
4. Under 'Recording' choose the device you installed as 'Default'

### Audio with 64-bit Windows Operating Systems

If your computer uses a 64-bit version of either Vista or XP, you must choose the device and may not use the 'Default' option. See the AVC User Guide.