
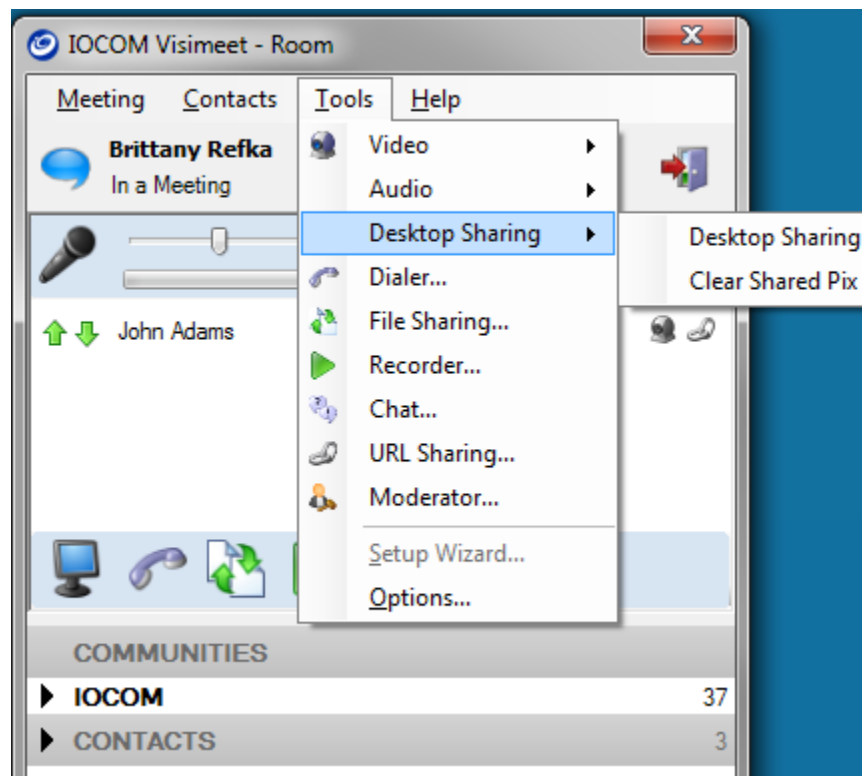


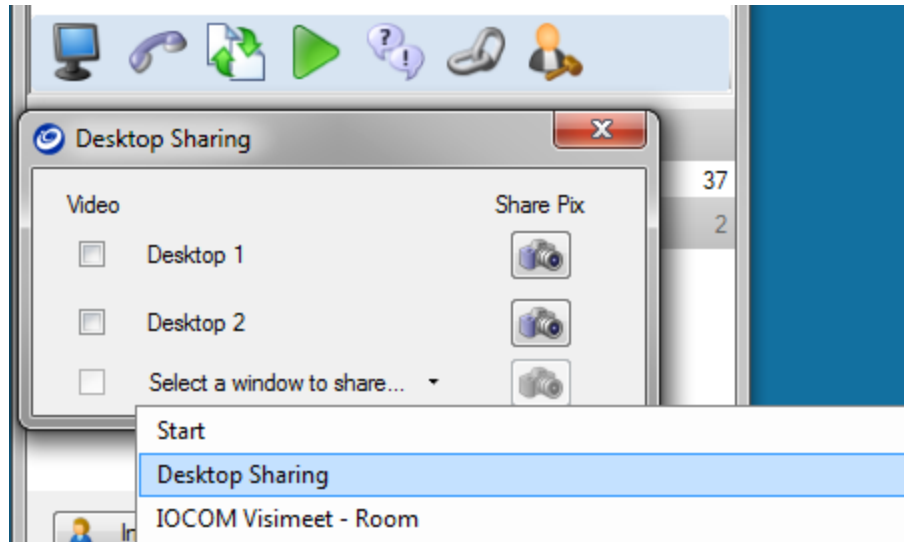
## Visimeet Desktop Sharing

A very popular and powerful feature within Visimeet is the ability to share any data that is viewable on the PC or MAC with any other meeting participant through the Desktop Sharing tool. Every user has the option of sending live video or still snapshots of any open application or entire screens into a meeting so that others can view these images. This provides the users with a truly collaborative environment in order to work on complex problems while being geographically remote.

The desktop sharing tool is accessed from the Tools menu option, either at the top or from the  icon in the middle, of the Visimeet control panel.



This will bring up the sub menu that controls the selection for images sent into the meeting. The tick boxes next to each of the desktop names will send that entire desktop as a video. The camera icon to the right of the name will send a single snapshot of the desktop. The pull down menu below the desktops is used to select a particular application to send as a video or single snapshot.



Simply select the desired desktop or application and check the video or send a single snapshot for any data to be shared. Multiple items can be shared simultaneously depending on computer and network capacity.

## Desktop Video

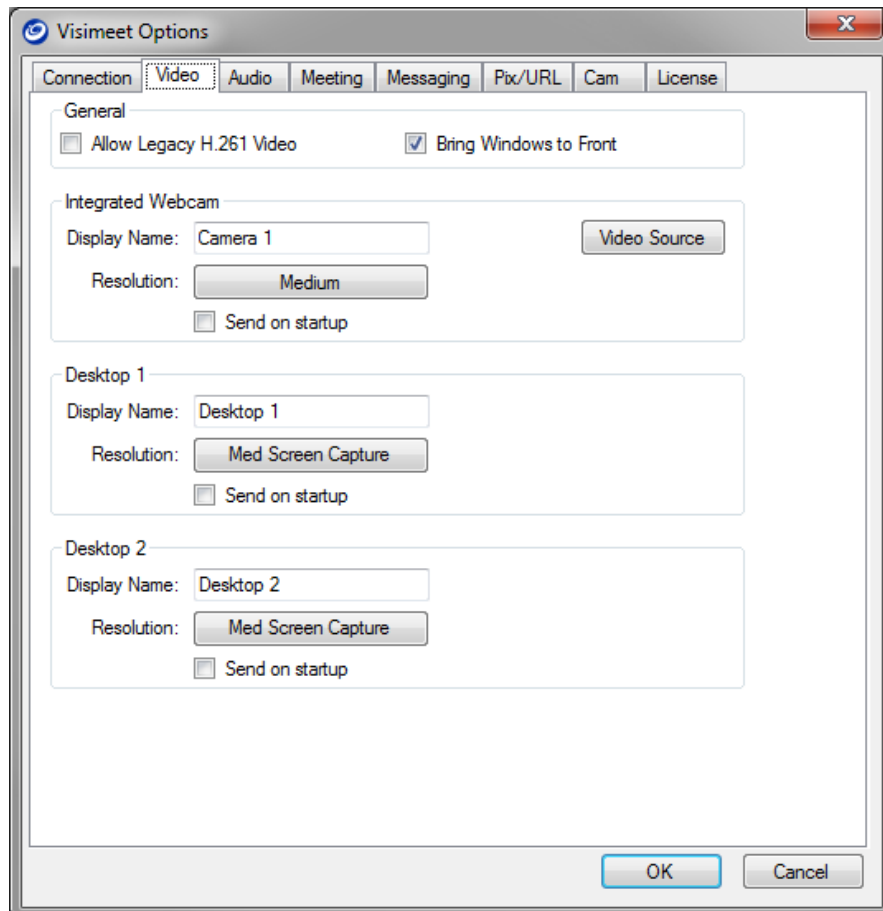
Desktop video streams are the same as any other video stream in a Visimeet meeting except the image source is of a desktop or computer feed rather than a camera input. The video can be turned on or off, enlarged and recorded like any other image. Like regular video, this capability resides in the software and is available to any meeting participant.

The video images of the data that are sent by Visimeet are delivered in the native resolution and color depth of the originating image source. This ensures that the images seen by the remote participants are the same as the images seen on the sending side. This compares to most data sharing service from IOCOM competitors that send the images as High Definition (HD) video. As HD video is restricted to 720 or 1080 formatting, the original image needs to be changed by scaling it into that image size so that it can be sent. This is much the same as watching a standard TV channel on your High Definition TV where the image is stretched to fit. This changes the actual originating image by adding or removing pixels to fit the HD size rather than sending the image in the original format. The ability to send data in the native resolution is a powerful tool that allows for true recreation of the original image which is important in medical, educational and scientific research as collaboration takes place over distance.

Another popular application of the data share is to send images from an electronic whiteboard to provide an electronic whiteboard space to simulate a classroom or research environment. The drawings or changes made on the whiteboard are shared by the video data share so that all the participants of the meeting can see the changes, just as if they were in the same room. This is a great way to emulate a classroom environment with the teacher writing lessons on a blackboard or engineers looking over a technical drawing and making changes as a group.

As Visimeet sends the image in the resolution of the desktop or application that has been selected, it means that it supports all resolutions that are available to the supporting computer. This can range from a very basic 640x480 desktop to extremely high end graphics above 1600 x 1200. When sending an individual application, the sending resolution will be whatever the size of the application is at the time it is sent. This ability to take any resolution and deliver it provides a simple yet highly effective way of sharing data.

The frame rate or speed of update for the shared video data is set by the sending party. There are options for 1 fps, 2 fps, 10 fps or best. The resolution or size of the item being sent as well as the frame rate greatly affects the CPU resources on the sending computer. The larger the size and the higher frame rate, the more encoding that is needed and the more the CPU is tasked. This ability to adjust the frame rate allows the user to balance the capacity of the computer with the need for response in changes at the receiving end. The frame rate is set in the Tool>Options panel of the Visimeet software under the video tab. Here the frame rate is set as the default when a data image is set to transmit into a meeting.



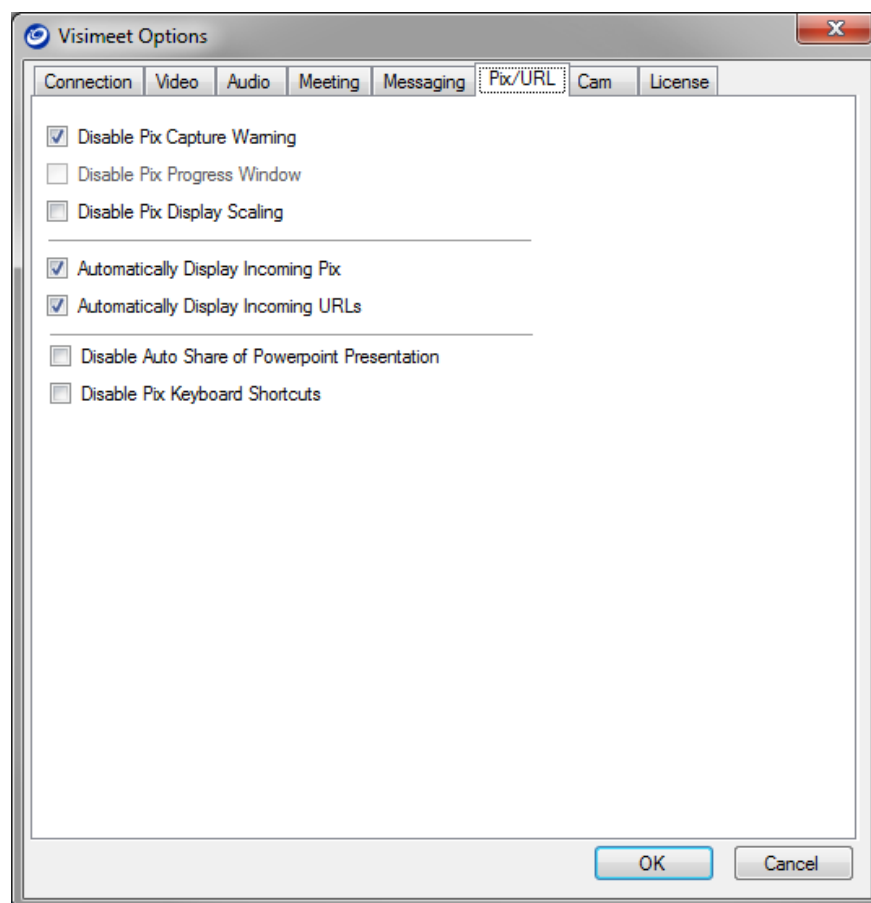
The default setting is 2 fps which is a good balance of speed of update for standard desktop changes and drain on computer resources. High capacity system can be set to 10 fps and lower speed units to 1 fps

to help conserve CPU power. The “best” option will utilize all available CPU capacity to send the images in as high a frame rate as the computer will support. Since this can impact the performance of the computer, it is typically set after joining a meeting to allow sharing of full motion on a particular application. However, there are users with purpose built, powerful computer workstations, which use “best” as the default option and have designed the systems to support this.

## Desktop Capture

Along with the option of sending the data as a video stream, Visimeet also offers the user the option of sending data as a single pushed capture. This feature, previously known as IGPix in the IG software suite, allows the user to send the images as a single captured frame via a HTML output. This can be used to send a single, quick snapshot of data rather than a continuous stream.

Along with a push option by the user, there is also an automated feature that sends a Power Point Presentation to all meeting participants. This feature sends any changes to the Power point Presentation as they happen without prompting the user. This is a great way to share a Power Point among colleagues without needing to adjust presentation style. The feature is turned on by default so that any advancement in slides made will automatically be sent to the meeting participants. This can be deactivated in the Tools>Option panel if a video transmit is preferred.

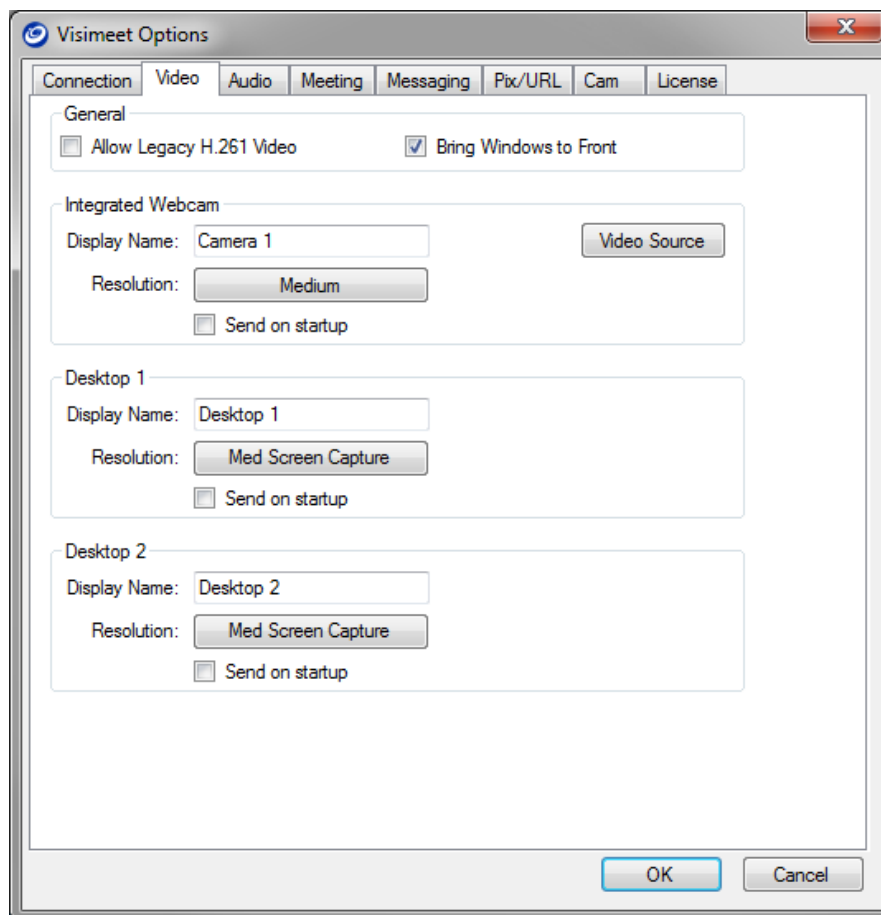


## External Display Capture

When the Visimeet software is installed on a workstation system, a video capture board can be utilized that captures VGA/DVI/HDMI inputs from an external device. Like the desktop capture feature, the images are sent in the original display format that is set between the capture card and external computer. External data such as medical imaging, seismic topology, or any other output from a high end graphics station can be input into a Visimeet session. This provides access to a limited or restricted resource to all participants of the meeting without the need to procure a dedicated device for all members.

External display capture is accomplished by installing a computer graphics capture card, typically a Datapath Vision series unit, with VGA/DVI/HDMI input ports is installed into a workstation computer. The Datapath card has two input ports to allow for the capture of independent signals. Two cards can be installed into a single workstation allowing up to four devices to be installed into a single computer.

The inputs are then treated like any other video source, such as a camera input, by Visimeet. Options such as FPS and “send on startup” are set under the options panel and can be changed during the meeting as needed. The images can be recorded as well.



## Summary

Visimeet's Desktop Sharing options are a powerful tool that moves the system from a videoconferencing application to a collaborative tool. Users quickly and easily share content from their desktops to any participant, making them more productive, reducing the time needed to make decisions, and making meeting more effective. This translates to improved productivity and a reduction of company costs.