

# Video Conferencing

## 1. What is Videoconferencing?

Video Conferencing may be defined as a two way audio-video meeting in real time amongst people present at geographically dispersed locations.

**VC is useful for:**



### Business Meeting Room

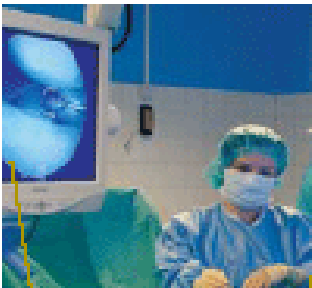
Video conference solutions help to enhance meetings with simple design and easy operation. You can focus on the issues at hand and not on the technology. Our intuitive control and flexible application options allow for seamless integration no matter what your specific usage might be.



### Education & Training

Teachers can deliver a lecture from a remote location, appearing on a plasma screen while images from the remote teacher's own PC are shared with students via a classroom projector. Another classroom-based teacher can use the electronic whiteboard to make notes that can be seen by the remote teacher in real time. As many as ten sites can be linked simultaneously to a multi-point

conference.



### Medical

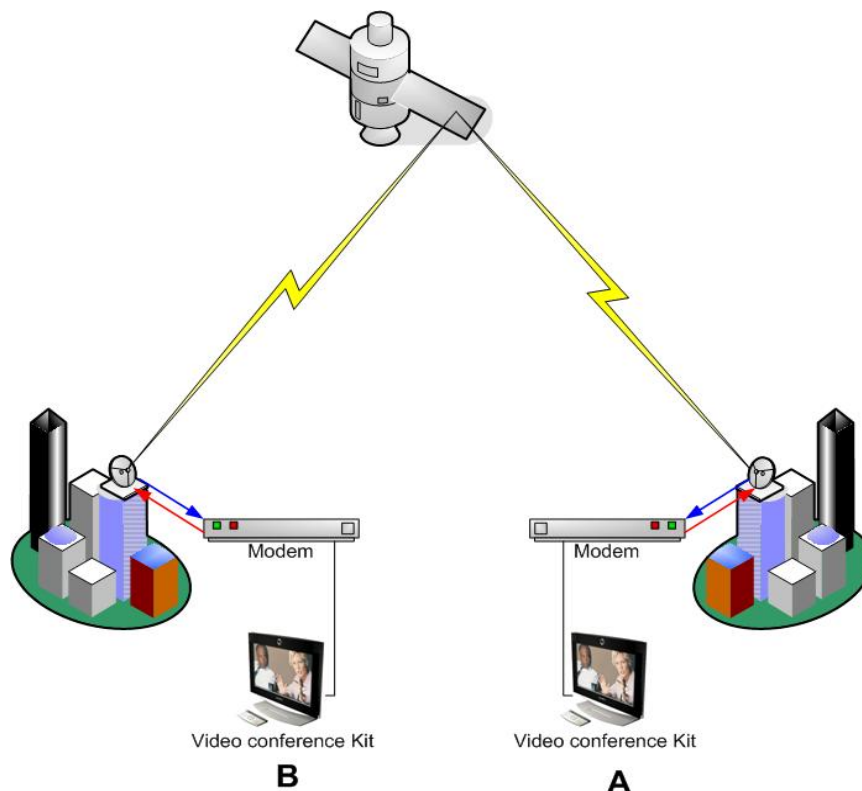
Surgeons in an operating theatre can share live audio and video links with doctors at remote locations. Surgeons in the theatre see the far-end doctor on a video monitor as well as the live endoscope images from the patient. The far-end doctor also sees the images from the patient, hears audio and views DICOM patient data - all in real time. He can thus give the surgeons a second opinion.



### Justice and Government

High quality videoconference links have enhanced several criminal justice systems in Europe. Security and safety can also be enhanced due to the reduced need for moving prisoners and witnesses. By replacing travel with videoconferencing, trials and interviews can be conducted from secure locations saving the government money while decreasing the risk of trauma for witnesses. The chance of the prisoner escaping is greatly reduced too.

## 2. Our Solution



We have two portable SCPC VSAT of 1.8 mt and 1.2 mt dish size, which can be easily carried to any destination by air cargo within few days. With this facility, videoconferencing and high-speed data access can be provided from any Location/City/Country in a short time. This service can be utilized to provide videoconferencing service for conferences, exhibitions and other important events.

Our multipoint video conferencing service can connect many sites can work in a 'Continuous Presence' mode. MCS supports voice activated switching which enables the loudest speaker to be seen by all the sites in a conference, or it has a 'director control mode' wherein any one site can become the chairman and control the multipoint conference from it's own location.

We continue to prove its strength in real time communications by providing desktop videoconferencing in a collaborative environment. In this process "**AI-Eajaz**" has contributed in bringing the state-of-art technology at affordable costs.

### 3. How does Video conferencing work?

The hardware used is a **video coding / decoding card (CODEC)** which is installed in a Pentium based computer along with a video camera, microphone and speakers. A dedicated bandwidth of **128 Kbps** or more is required over a wide area network for transporting audio and video information between the two **CODECs**. This network could be over a satellite based leased (Dedicated) line. CODEC compresses the audio and video and then sends it over the high-speed link. This sound and moving image is reproduced at the remote end by another CODEC. All video conferencing systems work in a full duplex mode i.e. encoding and decoding in both directions simultaneously.

### 4. More about Video conferencing Services and its capabilities?

By using this Video conferencing facility, Major Industries & Organizations will be able to share information with the best of talent available anywhere in the World regardless of distance. Our multipoint videoconferencing service enables several sites to participate in a live conference with audio, video and document sharing. Multipoint Conference Server (**MCS**) will work with all VC systems connected over different types of communication networks. For example, if a user in "London" with satellite connectivity wants to have a conference with one or more sites having V-SAT links, the MCS makes it possible. Each of the sites is connected in a star configuration to the MCS, and a multipoint conference can be started at a pre-defined time. MCS supports T.120 document sharing and multiple video conferencing session's up to 384 Kbps with different network types. The network used for Videoconferencing services is a **SCPC VSAT** link operating at 128 Kbps & more depends up on the requirement.