

# Multipoint Interactive Audiovisual System (MIAS)

ESPRIT 2684



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## A desktop multimedia conference system based on ISDN connection

The introduction of Integrated Services Digital Network (ISDN) will provide a variety of services such as video, text, data and speech over a single network. A multimedia terminal integrates the various types of peripheral equipment used for each individual service.

PTT Research has developed a new conference system in cooperation with other European partners within the ESPRIT 2684 project - MIAS. The system enables multipoint connections between several desktop multimedia terminals. These are interconnected via one or more so-called Multipoint Control Units (MCUs). ISDN may be used to connect terminals and MCUs although this is not essential. For example, leased circuits can be used as an alternative to ISDN.

MIAS gives users

- high quality speech (CCITT rec. G.722)
- moving video (CCITT rec. H.261)
- file transfer
- facsimile
- photo videotex with pointer
- local and group editing
- message transfer
- chairman supporting facilities

The available chain capacity is allocated dynamically to the various services, depending on the needs at a given moment in time. A protocol infrastructure has been developed to integrate the various facilities and to allow interworking with other terminals. Compatibility with other types of terminals, such as videophones, is ensured.

MIAS can be used in many situations, for example:

MIAS is very useful for geographically dispersed companies. Specific conference studios are not required: conferencing from the office. Documents can be exchanged during the conference.

MIAS gives home workers the means of teleconsulting.

Tele-education is another possibility.

### For more information please contact:

PTT Research  
P.O. Box 421  
2260 AK Leidschendam  
The Netherlands  
telephone: +31 70 3325602  
telefax: +31 70 3326477

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PTT Research (NL)  
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