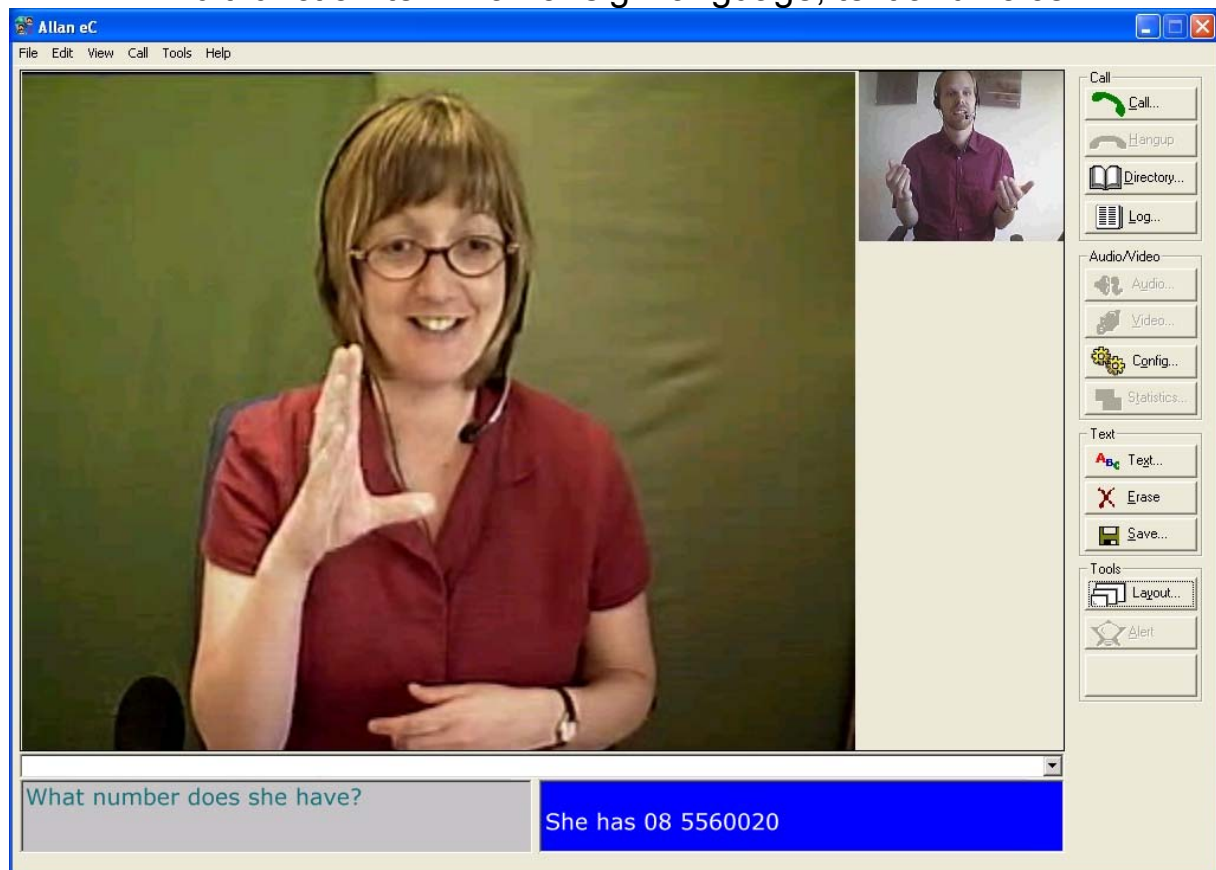


# Allan eC

## Multifunction-terminal for sign language, text and voice



Allan eC is a multifunction-terminal for sign language, text and voice, offering better telecommunications in many situations.

- Allan eC is a kit to be added to a computer. It contains a camera, a video capture board, headset, alerting system adapter, user manual and software.
- Allan eC is developed for communication in the Internet and other network using the IP protocols.
- Allan eC follows international standards for Total Conversation with simultaneous video, text and voice. These standards are created with accessibility in mind, but integrated with the existing multimedia communication standards.
- The computer, used for the Allan eC system can also be used for all general computer usage such as word processing, e-mail and Internet browsing.
- Allan eC can be used also by speech-impaired people. Voice can be used in one direction and written text as reply. Hearing-impaired people get the support by lip reading the counterpart in the video window.
- Deaf-blind and visually impaired people can also use Allan, when combined with a Braille display and speech synthesis that makes it possible to communicate with other visually impaired, hearing, hearing-impaired and deaf people.
- Hearing people can see each other and add typing while they talk through a headset.
- During the call, there is a possibility to have a real time text conversation. It can be used for example for avoid misunderstandings, or for making addresses and phone numbers easier to perceive correctly. This opportunity can also be used to carry the whole conversation in text, for example between deaf people and hearing people who do not know sign language.
- Allan eC can be equipped with a modem to perform text telephone calls (v.18).

Omnitor AB  
Renathvägen 2  
SE-121 37 Johanneshov  
Sweden  
[info@omnitor.se](mailto:info@omnitor.se)

  
<http://www.omnitor.se>

Phone: +46 8 55600203  
Text phone: +46 8 55600205  
Video (H.320): +46 8 55600205  
Video (SIP): [office@sip.omnitor.se](mailto:office@sip.omnitor.se)  
Fax: +46 8 55600206

## Functions:

- Video communication with good quality for sign language and lip reading
- Text conversation during video calls
- Voice communication
- Compatible with other SIP and H.323 Video conferencing systems
- Signal to external alerting systems on incoming calls
- Follows international standards for Total Conversation.
- Text telephony in the same user interface as the Total Conversation calls.

## Recommendations and standards supported by Allan eC:

- **IETF SIP** A new system for multimedia communication in IP
- **ITU-T H. 323 multimedia system** System for multimedia communication in IP.
- **ITU-T H. 263 video coding** Video compression. H. 263 is a method for sending and receiving moving images efficiently.
- **ITU-T G. 723, G.722 and G.711 voice coding** Voice compression. G. 723 uses reasonable 9 kbit/s.
- **ITU-T T. 140 text conversation** Real time text conversation with other videophones with text. Based on international standard character set ISO 10 646 -1.
- **ITU-T V.18 text telephony** Text telephony through an external modem.
- **CIF-resolution (352 x 288 pixels)** Standard for video resolution. CIF is needed to make details sharp enough for good sign language communication.

## System requirements:

### Computer

- At least PIII 800 MHz Pentium processor or corresponding.
- An empty PCI slot (for video capture)
- IP network connection with at least 256 kbit/s both ways.
- COM-port for connection of alerting adapter.
- COM-port and telephone network connection for text telephone modem if that function is selected.

### Audio

- Sound card.
- Loudspeaker (for ring signal for hearing people).

### Graphics

- Support for DirectX v. 8.0 or later.
- At least 65 535 colours.

### Operating system

- Windows® 98 , Windows Millenium, Windows 2000, Windows XP Home or Windows XP Professional.

## Contents of an Allan eC kit for a stationary computer:

- Camera
- PCI-card for video capture
- Alerting adapter for a COM port
- External modem for text telephony
- Headset
- Software
- User manual

Note: Allan eC can on request be delivered installed in a computer ready for operation or in other configurations.