

High quality

Excellent sound reproduction, high quality images and bi-directional audio

Suitability, simplicity, completeness

Suitable for every medical monitoring requirement and adaptable to all patients' needs

Real time monitoring

Real time display of ECG plans, fixed images and vital parameter values



The ViTA™ system is a complete and exhaustive home care solution, that combines videocommunication, with electromedical equipment and patient data base management tools. It is the ideal cost saving solution for public and private health care service providers to help improve patients' quality of life.

Easy, user-friendly interface

The solution has been designed to keep remote monitoring of patients very simple and easy to perform. The system is composed of a control center (doctor's side) and the user terminals. The control center software displays the images received from the patient video terminal on the doctors PC monitor and enables him to manage a remote camera, record live video sequences, store photos, activate remote monitoring devices and visualize clinical data (ECG, blood pressure, heartbeat, etc.). All the commands are centralized on the doctors side so the patient does not require any special skills.

Data management

To keep track of the patients' health monitoring, data and test results from periodical remote monitoring sessions are stored in a local database, which the doctor can access at anytime. Photos, video sequences and medical data are also stored in the same database.

Access control

Two different levels of password access protection guarantee that only authorized personnel have access to the patient database.

Flexibility

ViTA can connect up to 4 electro-medical devices at the patient's site; by means of the M.A.R.T.A. multi serial hub. The medical devices may be chosen according to the patient's needs. A list of recommended electromedical equipment can be provided on request. Any other medical device able to send data over RS232 can also be connected following an Aethra compatibility check.

Technical Specifications

Supported Standards

- ITU-T H.320 ISDN
- ITU-T H.323 IP networks
- IETF-SIP (RFC3261) IP networks
- PPPoE
- Video H.261, H.263+, H.264, H.239
- Audio G.711, G.728, G.722, G.722.1
- Data T.120
- LDAP H.350
- MCU compatibility H.243

Transmission

- Bit rate 56 kbps ÷ 128 kbps over ISDN
64 kbps ÷ 384 kbps over IP (H323/SIP)

Video

- Frame rate 15 frames per second
- Video resolution FCIF 352 x 288 pixels
QCIF 176 x 144 pixels
4CIF 704 x 576 pixels for still images (Annex D o H263)
- Remote camera control H.281 (H.320 - H.323)

Audio

- | Audio | Band | Bit rate |
|---------|---------------|------------|
| G.711 | 300 ÷ 3400 Hz | 56 kbps |
| G.722 | 50 ÷ 7000 Hz | 48/56 kbps |
| G.722.1 | 50 ÷ 7000 Hz | 24/32 kbps |
| G.728 | 50 ÷ 3400 Hz | 16 kbps |
- Echo cancellation Full-duplex
 - Adaptive post filtering
 - Automatic Gain Control (AGC)
 - Automatic Noise Suppression

Built-in Camera

- Type Motorized pan, tilt and zoom
- Zoom 40x (10x optical + 4x digital)
- Sensor 1/4 " CCD
- Format PAL or NTSC
- Picture elements 752 x 582 pixels
- Resolution 460 TV lines
- Lens f=3.1 to 31
- Iris F=1.8 to 2.9
- Focus Auto
- White balance Automatic

Network Interfaces

- ISDN 1 BRI 1 RJ-45
- Ethernet 10/100 BASE-T full-duplex 1 RJ-45

Audio/Video Interfaces

- Video inputs

Main	CVBS PAL/NTSC (RCA)
Aux	CVBS PAL/NTSC (MINDIN 8P)
- Video outputs

Main	CVBS PAL/NTSC (RCA)
Aux	CVBS PAL/NTSC (MINDIN 8P)
- Audio inputs

Connection	Level	Connector
Mic.	Mic.	Stereo jack 3.5mm
Audio in	Line	RCA
- Audio outputs

Connection	Level	Connector
Main	Line	Stereo jack 3.5 mm (Stereo to 2 RCA Y-Cable included)
Aux	Line	RCA

Auxiliary Interfaces

- RS232 serial data 9-pin DB9
- Camera control MINDIN 8P supports Sony aux camera PTZ 8-pin Mini-DIN (VISCA-compatible with adapter cable)

Encryption

- AES encryption standard

Web Management

All configuration, call, diagnostics and management functions are accessible using the following web browsers: Microsoft® Internet Explorer™, Netscape Navigator™

Remote Diagnostics and Management

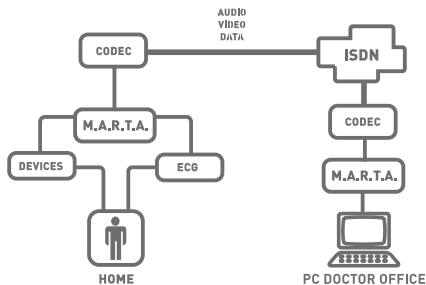
	Local	Web Browser	SNMP
Self test	Yes	Yes	Yes
Diagnostics	Yes	Yes	Yes
Configuration	Yes	Yes	Yes
Call	Yes	Yes	Yes
Error tracking	Yes	Yes	Yes

Power Supply

- 100-240 Vac 50-60 Hz 0.45 A Max

Management Software Kit

- M.A.R.T.A. multiseriial Hub control
- Vital parameters monitoring and display
- Remote electromedical device control
- Patient database management
- Call manager
- Remote camera manager (zoom and tilting)
- Picture and film recorder
- 2000/XP



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