



*case study*  
**visus** video

# PROJECT BABYCARE



## The Institution

Dr. Alfredo da Costa Maternity is an institution which was founded in 1932, where there were born more than 600,000 babies and is dedicated to providing care with a high level of differentiation, to children born in the institution or to all entrusted by other hospitals.





## The Challenge

The Pediatric Unit has 50 beds for special care and a team of medical professionals and nurses that provide 24 hour care on all newborns.

Each year the institution receives about four hundred premature babies, from many different parts of the country and spend on average ten days in the incubator room of intensive care and sometimes several months.

To enable parents a constant contact with their children has become a target of Maternity, as an addition to regular visits and allowing them to see their babies whenever they wanted to from the comfort of their homes.





## The Solution

The project Babycare, started in February 2000 with the provision of 12 video surveillance cameras installed in the intensive care room for newborns, linked to a ISDN video-codec which in turn is connected to a digital ISDN phone line.

There will be an ISDN line and a video communication equipment connected to a TV which is installed in the parents' house. The parents have only to dial a phone number to gain access to the Maternity which does not interfere with the normal operation of the phone and the cost of the video call is like a normal call.

This system will still be available to users who do not have a computer with internet access.





In June 2008, with the commissioning of a new care room in the maternity the number of video surveillance cameras increased to 30.

At the same time, there are installed video servers which allow access to the Internet and also to the existing ISDN line.

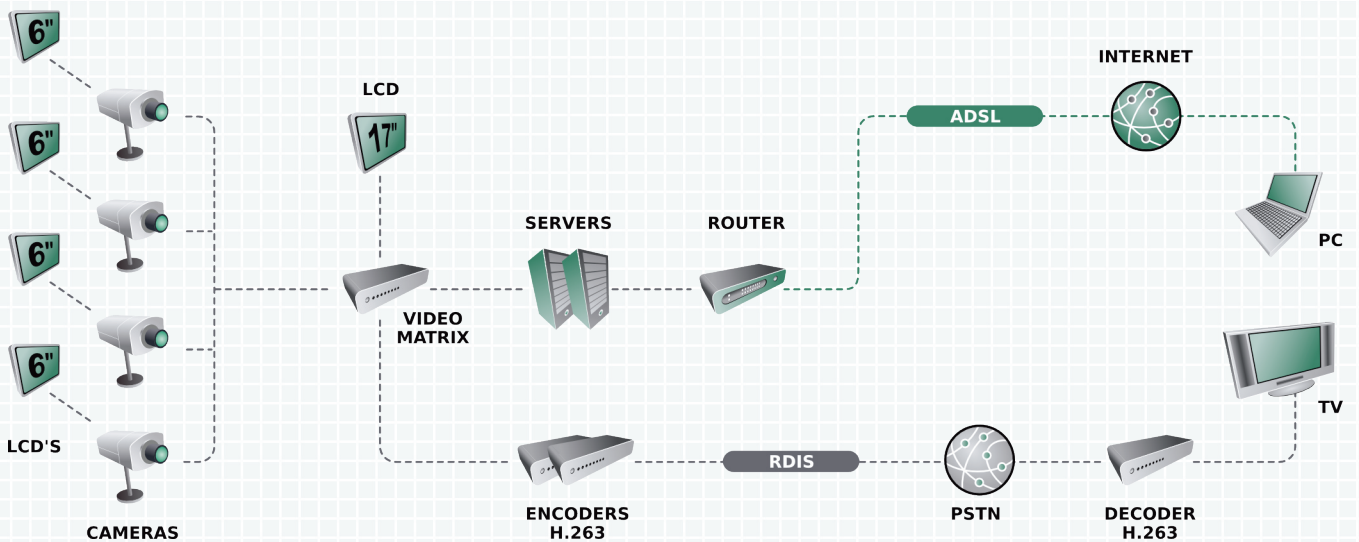
Thus parents are able to see their children by using a computer with Internet access and an internet browser wherever they are, 24 hours a day.

The real-time access is via ADSL, which allows faster access, better compression and superior quality of images obtained in the process.

A solution customized by Visus Video, was the creation of a gateway to the two servers and an user interface designed to provide protection exclusively to the parents of each baby who is assigned an authentication code and password associated with their incubator.

The whole system is connected to a central matrix of video that receives video signals from each of the chambers incubator, in which a small LCD display is installed for tuning the positioning and focus of the cameras.

A multiplexer and a monitor are placed with the nursing team to provide constant monitoring of each baby / incubator.



### INSTALLATION PROJECT

**VPON**



**DrayTek**



**Imprint**

### **VPON - VP400 SERIES**

Video Server with LINUX Multiplex Technology for high-performance Digital Video Recorder PC-based and Integrated Web Server.

The capture and video compression for a fast transmission is made to the computer via a 10/100Base-T Ethernet port with RJ45 connection, making use of the function of Streaming Video on the Web or the LAN through TCP-IP (Intranet) or the Remote Access (Internet) through the browser.

Supports up to 16 Video entries and one Audio with a processing speed of 400FPS and 100FPS Recording.

Records, plays, backs-up and allows viewing video simultaneously so users can write data to an external disk or backup to CD-RW.

[> Read more.](#)

### **DRAYTEK VIGOR 2820 SERIES**

The Vigor 2820Vn is a ADSL2 / 2 + router with the 2nd WAN port (10/100Mbps Ethernet Interface) for Cable / ADSL modem with Balancing Traffic, Auto fail-over, fail-back and Bandwidth on Demand.

It has IP-layer QoS, NAT Session Limitation, Bandwidth Borrowed, etc. to allow easy inspection, flexible and reliable access and management of bandwidth.

The SPI firewall (Stateful Packet Inspection) is object-oriented and allows block access to sites (SurfControl), cookies, downloads or blocking P2P (Peer to Peer) and IM (Instant Messenger).

It is built with the basic implementation of the VPN protocol, supporting up to 32 simultaneous tunnels using advanced protocols such as IPSec / PPTP / \* / L2TP/L2TP over IPSec with AES / DES / \* / 3DES for encryption and authentication for MD5/SHA-1.

[> Read more.](#)

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*Choosing OptiVisus as partner to implement the system's Internet access BabyCare, is due to the positive experience in various projects for video surveillance over the years, as well as their technical expertise and provision of equipment*

Turrion Leite (Enginner) from Portugal Telecom.

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Turrion Leite (Engineer) from Portugal Telecom and José Câmara (Business Manager) from Optivisus.



## About

The Visus Video (OptiVisus) is a company operating in the ICT market since 1989 which is dedicated in importing, distribution and servicing of CCTV systems, IP (transmission equipment for video over IP and digital recording), Telecommunications / Networking and equipment for ISDN / ADSL and Cable, the products and brands it represents, being for several years a major company in the National CCTV market.

The project Babycare, designed and implemented responsibility by Turrion Leite (Enginner) from Portugal Telecom is a pioneer project in the world, widely recognized in Portugal and abroad and is the result of a protocol between the Maternity Dr. Alfredo da Costa (MAC) and Portugal Telecom Foundation.

Functioning since 2000 in the MAC, it also be installed soon in the Júlio Dinis Maternity Hospital in Porto.



## More info

RTP News: <http://videos.sapo.pt/457bdWgJaELZILi2VN1c>

Dr. Alfredo da Costa Maternity: <http://www.mac.min-saude.pt>

Portugal Telecom: <http://www.telecom.pt>

Vpon: <http://www.vpon21.com>

Draytek: <http://www.visus.pt/draytek>



## Visus Vídeo

### OPTIVISUS

Av. 5 de Outubro , 122-B  
1050-061 Lisboa  
Portugal

<http://www.visus.pt>  
[optivisus@visus.pt](mailto:optivisus@visus.pt)

Tel. (+351) 21 791 07 87  
Fax. (+351) 21 796 81 68

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