

**Work**

Multimedia Auditorium Radio Dimensione Suono

owner

Private

Year

2007

Project

Entertainment Audio, Video, Data systems, Hi-Lighting system technology-Dali

Designer

Ing Andrea De Martino

Services and Systems Engineering Solutions & Partners

Supply, Installation, Programming and Testing:

Video communications systems, Electroacoustic system, Directed Audio Video, data center systems, CCTV system Digital, Data and Voice System Network

Architectural Design

Arch Andrea Iacovelli

Electric Project

Ing Mauro Tramontozzi

Lighting design

Prof. Cristina Aureli

Acoustic Project

Prof. Platone

Project Structure

Studio cocomello

Ing Luca Brancaccio

Analysis Systems and Services**Video communication system**

1 LCD 32 control room
1 Vista server PC director's booth
1 Galaxy server PC video graphic controller
1 command and control PC with touch screen
1 Fresnel lens 120" DNP Denmark
6 Christie Digital Roadrunner LX100 projectors

Command and control system

1 ISYS touch panel with 4" LCD
1 Crestron control system and PACK 2M implementers
7 Crestron 4-channel dimmers
2 Crestron control keyboards

Electroacoustic System

2 Biamp Audiaflex CM digital audio processors
6 modules for 2 Biamp AudiaEXPI/O-2 micro/line inputs
2 external units for management of 20 Biamp Logic Box in/out logic connections
2 modules for 2 Biamp AudiaEXPO/O-2 line outlets
4 Bittner Bitt8x200 multichannel amplifiers
1 Bimp Vs8 volume/select 8 volume/selector 8-channel control panel
70 i5AWW full-range Tannoy speakers
4 subwoofers installed in suspended ceiling at



110W

2 units for conversion on network systems

Biamp AudiaEXPI CobraNet

2 units for conversion on network systems

Biamp AudiaEXPO CobraNet

A Masterpiece of Engineering technology unique in its field, it is the first Auditorium in the world entirely made from steel. The Multimedia auditorium of RDS is made from a single aesthetic covering: a type of igloo which has faceted walls made from prototype panels of steel pierced to hide the audio diffusion equipment, air conditioning, heating, lighting and a projection screen. The holes, like those used in real Helmholtz traps, give the benefit of making a room lined with steel acoustically correct, resulting in a reverberation time of (t60) on average less than half a second compared to a second with a traditional wooden Auditorium. The Auditorium is for live performances but at the same time acts as an all-purpose space which lends itself to transformation into a theatre, lecture room, cinema and exhibition room thanks to hidden technology: a modular platform, removable seats and walls which can be used as a video projection surface. From the electric acoustic point of view, the room has 70 points of diffusion and some stations providing audio and video feedback. For video viewing, Christie Digital video projectors were installed, capable of 360° projection of one of which back projected with a Fresnel lens which is lowered with a mobile mechanism and is retractable. Hundred of LED lights with cold colour temperature, hidden behind the panels, were the choice for a solution providing soft, indirect illumination, while for live performances control based on bus DMX provides the lights for the show. Recently winner of the prize InAvate Award - Corporate Facility Category, at the International Ise fair in Amsterdam, the prestigious international recognition that the English magazine gives to the professionals and to the producers in this sector.

