

Press release

Light and Building Fair
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8Dimension® luminous window by Windauga® The ultimate solution to light windowless spaces

Windauga® introduces an innovative lighting solution to improve the luminous quality of spaces deprived from view to the outside. Called « 8Dimension® Window », it is a luminous device combining the various aspects of a real window :

- 1) It provides view, through the display of a 3D image of an outdoor scene, with a patented system to increase the perception of depth. These are the first 3 dimensions of the 8Dimension® Window.
- 2) It provides a high quality of light, very close to daylight. This is obtained through the mixing of 4 channels of light, each of them with a different colour. These are the next 4 dimensions of the 8Dimension® Window.
- 3) It includes a control system, designed to simulate variations of daylight colours and intensities, with a short time step. This is the final dimension – time - of the 8Dimension® Window

All these features are assembled inside a thin window structure, to have the device appear like a real window. It can be inserted in partitions or fixed to walls. A model is also proposed to be fixed in ceilings with views of sky (blue sky and clouds).

Background :

Building occupants clearly prefer to live next to windows for their general activities (work, leisure, etc.) Windauga believes that you cannot match a window for lighting, for the following reasons :

- The view from a window contributes to the psychologic well-being of the occupants.
- Windows give a feeling of space, making the occupants feel they are in contact with the outside world.
- Daylight supplied by windows can vary over time in intensity and colour, which gives essential information on the climate and the time of the day.
- Windows bring us light with the most adapted spectrum, which contributes to our health

On the other hand, Windauga has investigated the importance of windowless spaces, which unfortunately, are found in many locations. Windauga believes that windowless spaces should only be used for storage, corridors, washrooms and not for permanent occupation. We also have found that some places, due to various constraints, have limited access to outside views and daylight. This could include work places, meeting rooms, waiting rooms or reception desks. For economical reasons developers do not always equip their buildings with as many

windows as needed. Furthermore, facade windows are often considered as sources of higher maintenance costs (cleaning) and discomfort (glare,overheating).

Products and services.

Windauga® proposes various solutions :

- Made to measure windows, for walls and ceilings, with adapted dimensions, colours, images, and luminous scenarios.
- Clip-on 3D visual images with inner filters for suspended ceilings to boost 3D effects, showing sky and (or) vegetation scenes.
- Standard windows and images, using combinations of 600 x 600 mm luminous panels.
- Project engineering in 8Dimension® Window technology : walls, ceilings, stairs, partitions, transport, illuminated floors ; ability to match lighting specifications...

The company

Windauga® belongs to LENOIR GROUP (turn over 30 M€/yr, staff 250) ,based in Lyon, France ,which is has 2 subsidiaries :one is a metal joinery specialized in aluminium window frames ,curtain walls and glass roofs, the other one is a manufacturer and installer of displays and lighting (based on LEDs and fluorescent technology). To develop the 8DWindow® concept, it has teamed up with SERVODAN (Sønderborg, Danmark) which is specialized in lighting control, and more recently in wireless control of LED luminaries.

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