

ZEISS UNIVIEW™ Open Dome

In Real-time on your Dome



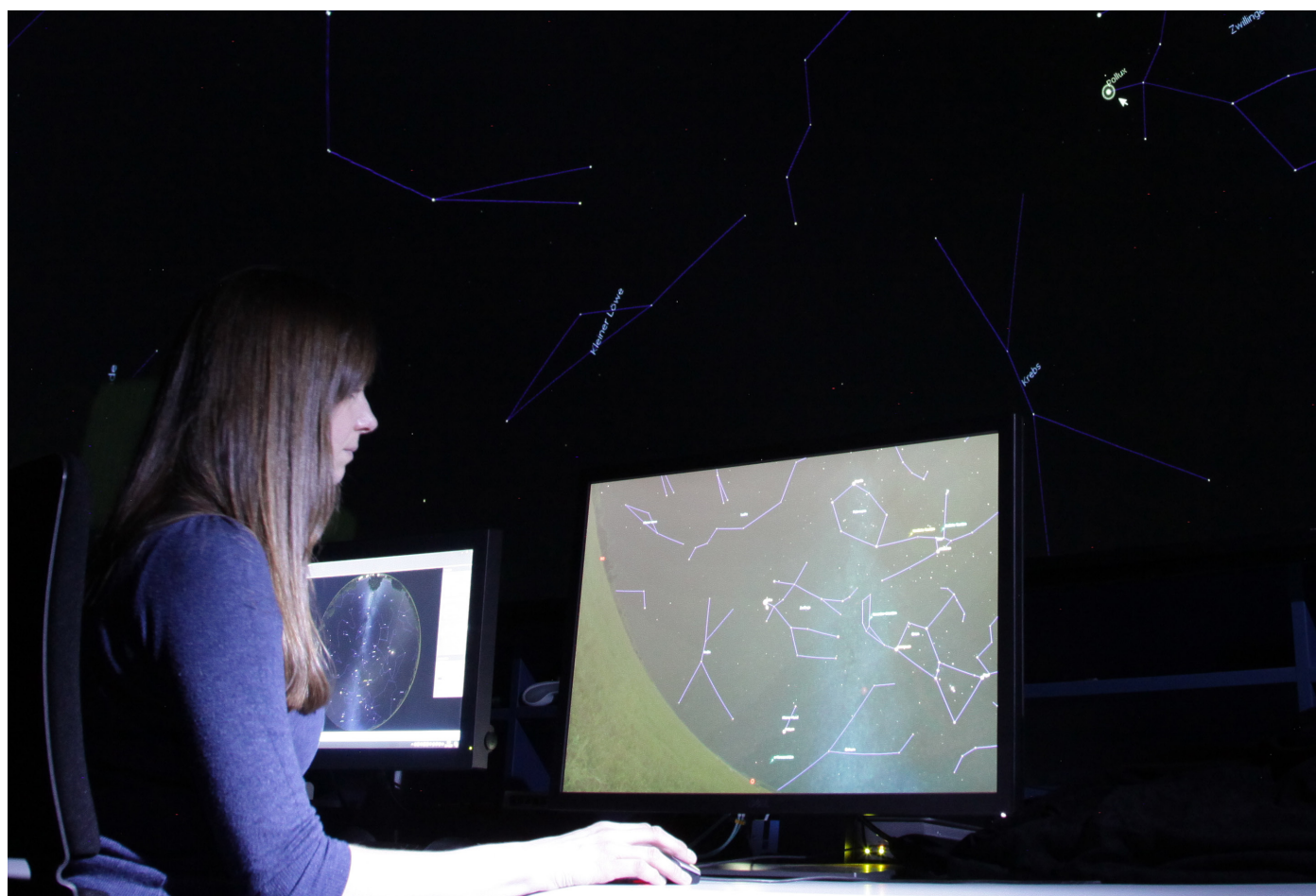
Seeing beyond

Imagine your dome as a giant monitor. Use this monitor for all kinds of presentations. Until now, presentations in a planetarium have been limited to the specific content that an opto-mechanical planetarium projector and the respective fulldome software can provide. With UNIVIEW Open Dome it is now possible to bring the full range of software applications directly into your dome without any conversion effort, preferably those with fisheye format outputs, but also for classic image formats.

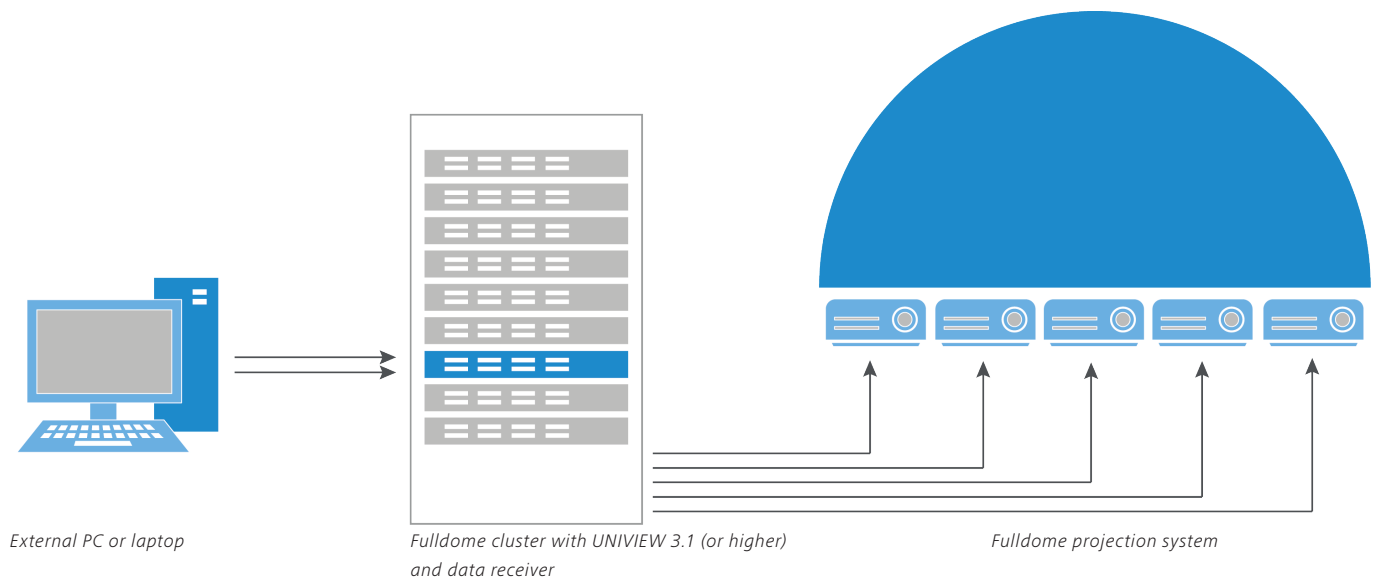
UNIVIEW Open Dome builds a bridge from any computer application to dome projection, in real time, in highest resolution and with an absolutely consistent frame rate. You do not have to worry about channel splitting, warping and blending, and you do not have to render the images in advance. Whether you want to use popular astronomical programs such as Stellarium, real time music visualization software (VJ), or a guest speaker's Powerpoint presentation onto the dome, UNIVIEW Open Dome provides the solution. If you develop your own visualizations, you can view them directly on the dome without prior rendering and conversion.

Connect a computer such as your guest speaker's laptop or a workstation to the ZEISS fulldome system via the graphics output, start Open Dome within UNIVIEW Software Suite and the dome is your 360-degree monitor. Open Dome creates a separate layer in UNIVIEW which can be smoothly faded in and out and, of course, crossfaded with UNIVIEW content. If you select the fulldome output, Open Dome uses a circular section of the graphic output of the computer as the fulldome image and displays it as usual on the dome. If you select the rectangular output, however, Open Dome displays it as an undistorted "floating" rectangle.

Other solutions cannot compete with the performance of UNIVIEW Open Dome. Blurred and jerky visualization often leads to a loss of interest among the audience. But UNIVIEW Open Dome convinces with uncompromising 4kx4k image resolution at a full 60 Hz refresh rate and lossless, uncompressed transmission of image data. Pleasant for the eyes and indistinguishable from your cluster-based fulldome projection.



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Software

Basis (required)	UNIVIEW 3.1 Theater or higher versions
Feature	Open Dome

Hardware

Receiver	3 U High-performance 19" industrial PC or equivalent technologies
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Interface

Video input	2x Display Port 1.2 inputs
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Performance

Data processing	real-time, uncompressed
Resolution	up to fulldome 4k (4096 x 4096 pixels)
Display refresh rate	60 Hz

External Data Input Software (Examples)

Astronomical applications	Stellarium World Wide Telescope Open Space
Media applications	Resolume VLC Player Youtube
Presentation	Powerpoint Open Office
Video conference software	Skype MS Teams Zoom
Others	Webbrowser

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