GIXEL-Viewer Manual

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Document Information

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Installation

1. Download:
Download GIXEL Panorama Viewer

2. Unzip:
Unzip *GIXEL_Viewer.zip*

3. External Package:
The Microsoft Visual C++ 2010 Redistributable Package (x86) is needed to run the viewer. Please download it via:
http://www.microsoft.com/en-us/download/details.aspx?id=5555

Generate Sound Field Analysis Data

1. SOFiA make visualisation matrix:
Generate a visualisation matrix using the *sofia_makeMTX* function of the SOFiA-Toolbox. Link: *http://code.google.com/p/sofia-toolbox/*

2. Visualisation matrix to GIXEL:
Use the function *sofia_mtxToGIXEL* to transform mtxData into .csv-Data.

Using the viewer

Starting: Double click on *GIXEL.exe*

1. Choose XML-File:
File → open XML

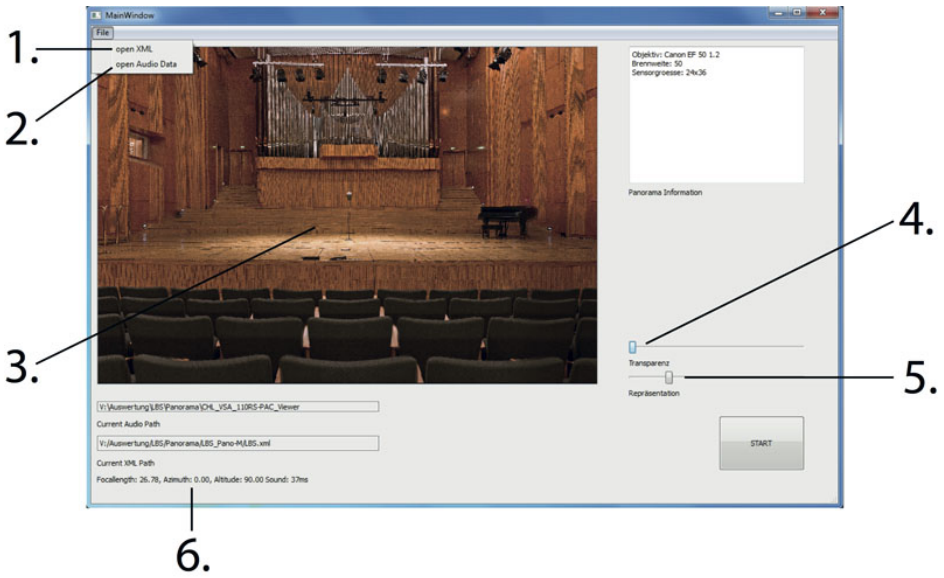
2. Choose folder with SFA data:
File → open Audio Data
The folder contains one .csv-File for each timeslice.

3. Navigate:
Click and hold left mouse button inside the panorama window. Change viewing direction via mouse movements, change angle of view using scroll wheel.

4. Transparency:
Change transparency of the SFA data with slider *Transparenz*.

5. Time:
Change timesclice with slider *Repräsentation*.

6. Information:
Get information of focal length, viewing direction and timeslice.



Examples

Note: These images are screenshoots of the panorama window of the GIXEL-Viewer.

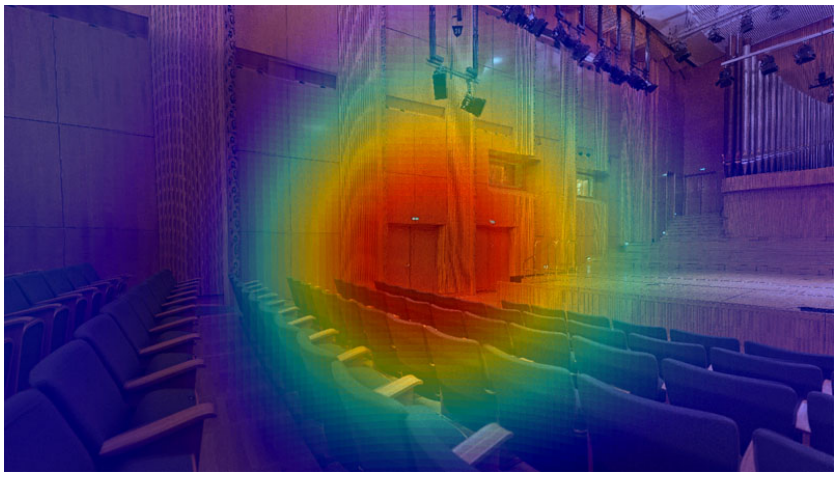


Figure 1: Sidewall reflection in Large Broadcast Studio. ($f = 2062.5\,\mathrm{Hz}$, $t = 26\,\mathrm{ms}$)

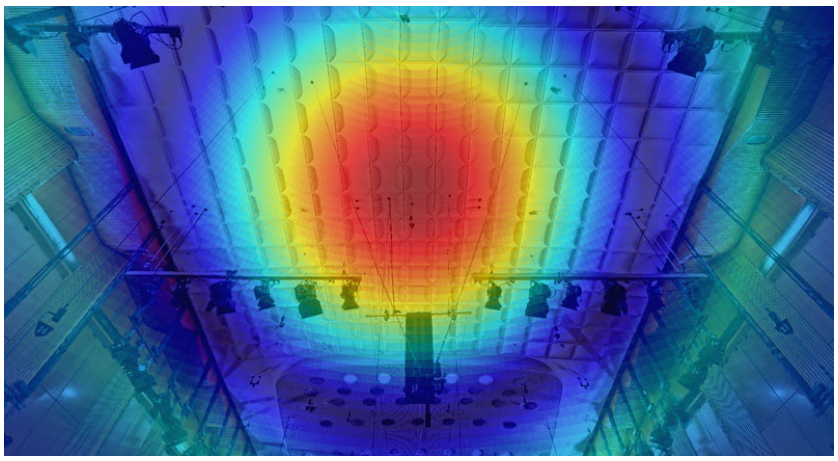


Figure 2: Ceiling reflection in Large Broadcast Studio. ($f = 2062.5\,\mathrm{Hz}$, $t = 35\,\mathrm{ms}$)