GDTFXMVR

GENERAL DEVICE TYPE FORMAT MY VIRTUAL RIG

GDTF & MVR WORKFLOW

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GDTF www.gdtf-share.com

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Robe is among the world's leading moving light manufacturers, recognised for its innovation, quality engineering and dedication to the very highest production values.

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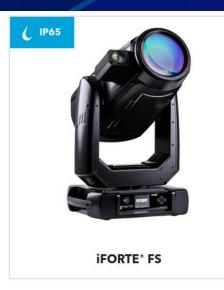
Company Employees

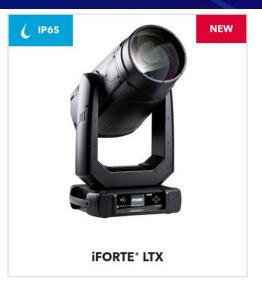
Square metre facility

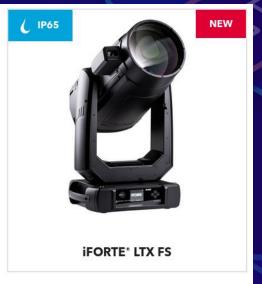
Export countries













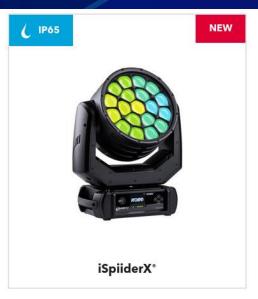


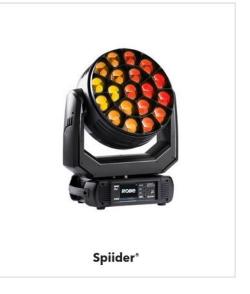


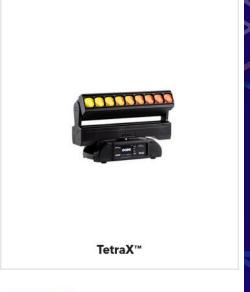


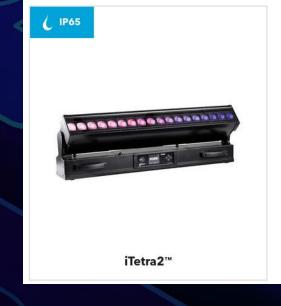




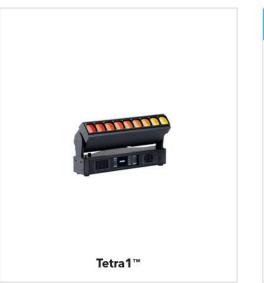


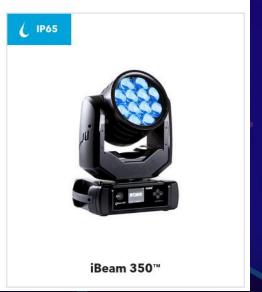












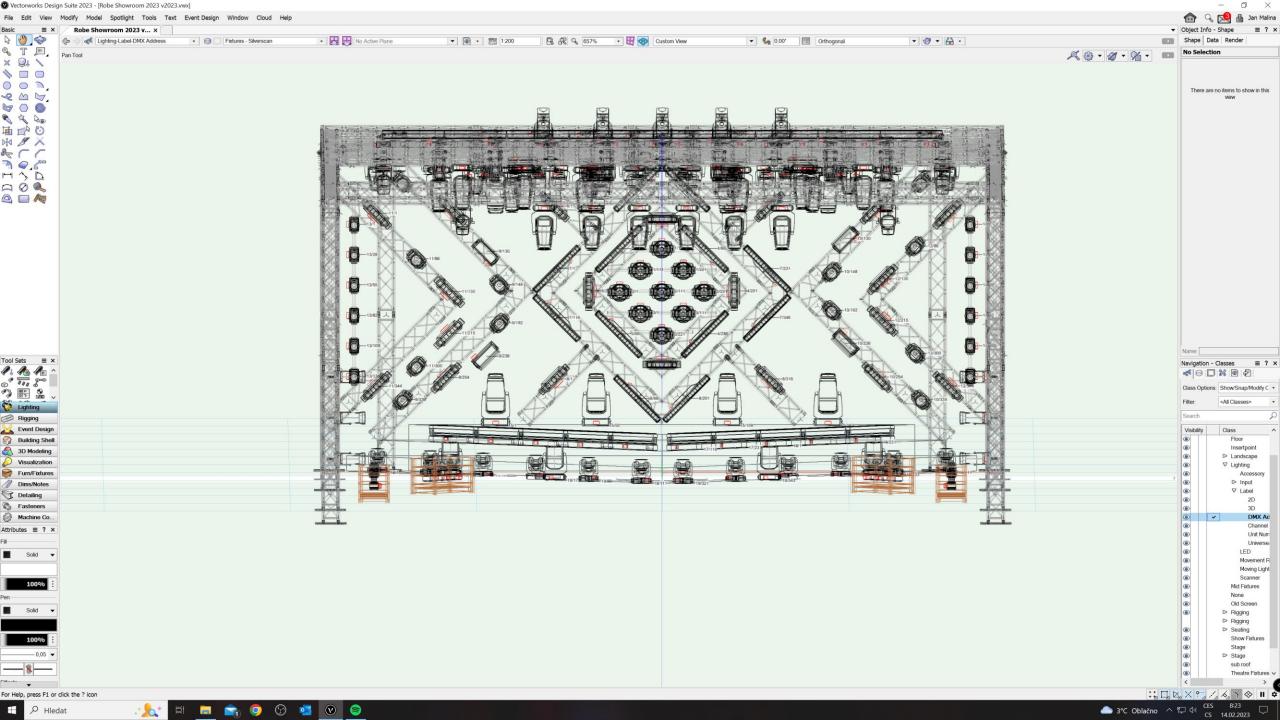


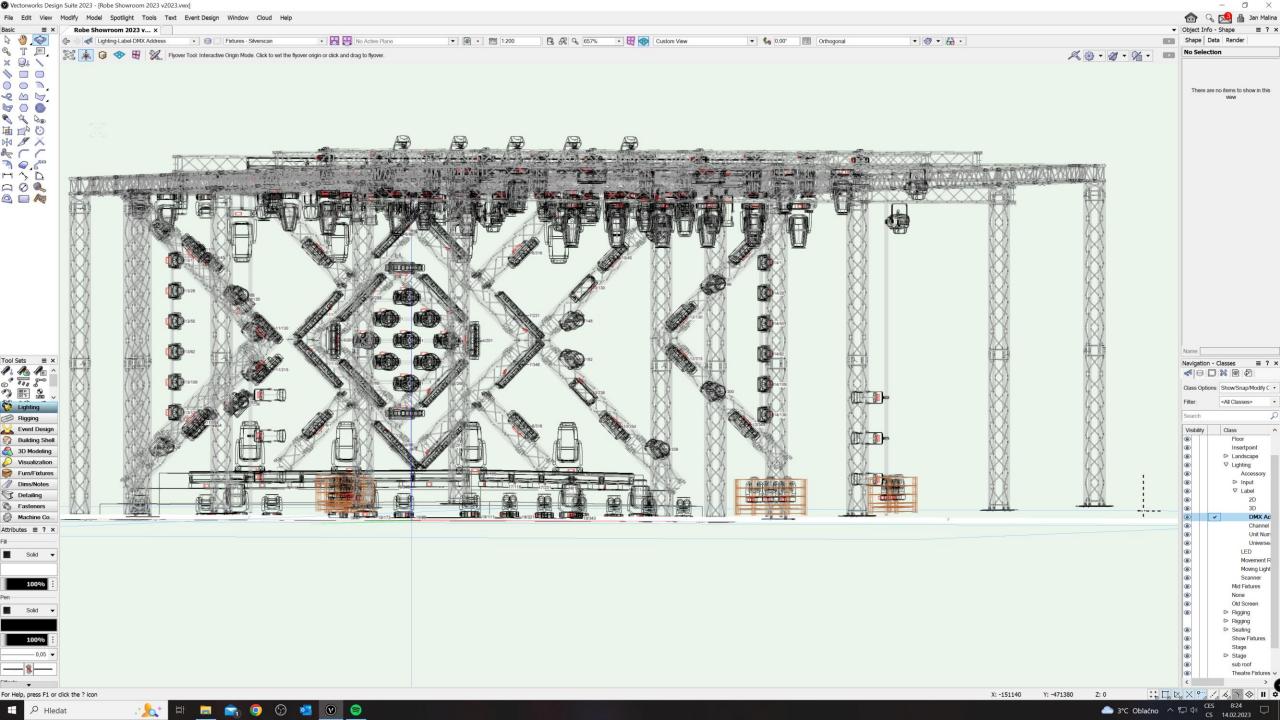




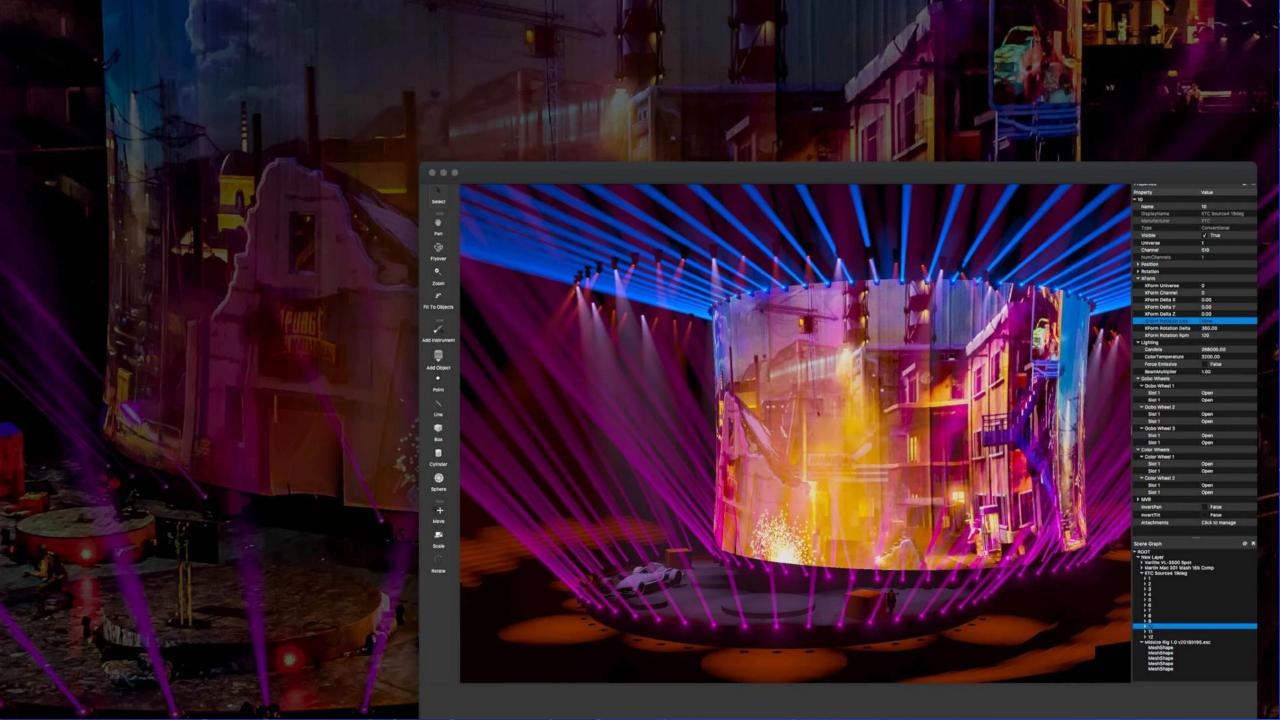












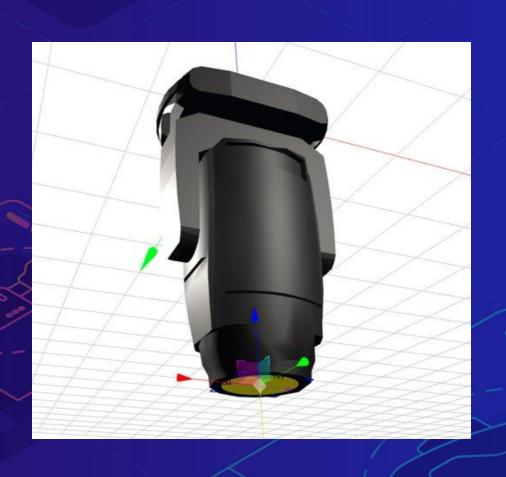
 Non-existent open and comprehensive format for device description (digital twins).

 Data exchange based on complex export/imports of non-comprehensive formats

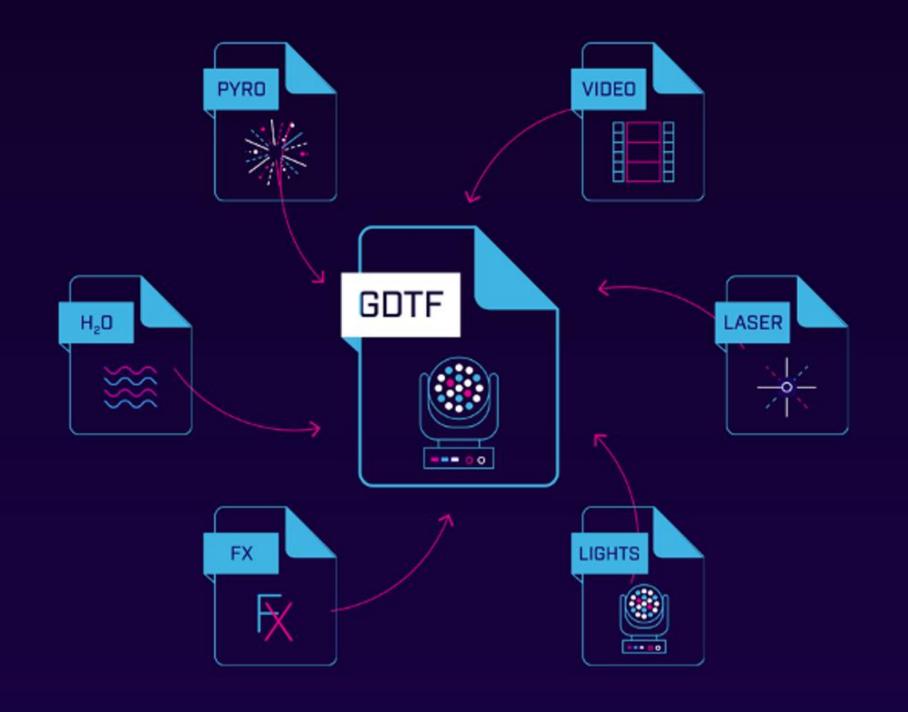
Non-existent consistent, functional workflow

GDTFXMVR

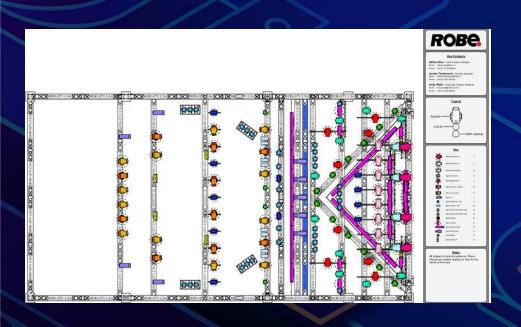
GENERAL DEVICE TYPE FORMAT



The GDTF is a file format that is used to describe devices of the entertainment industry.

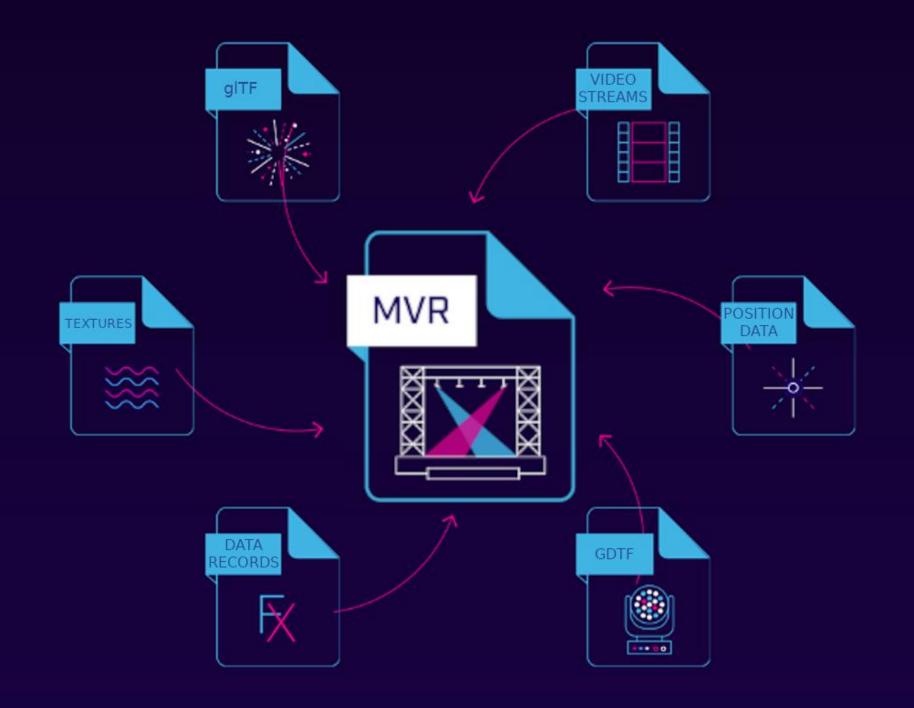


MY VIRTUAL RIG

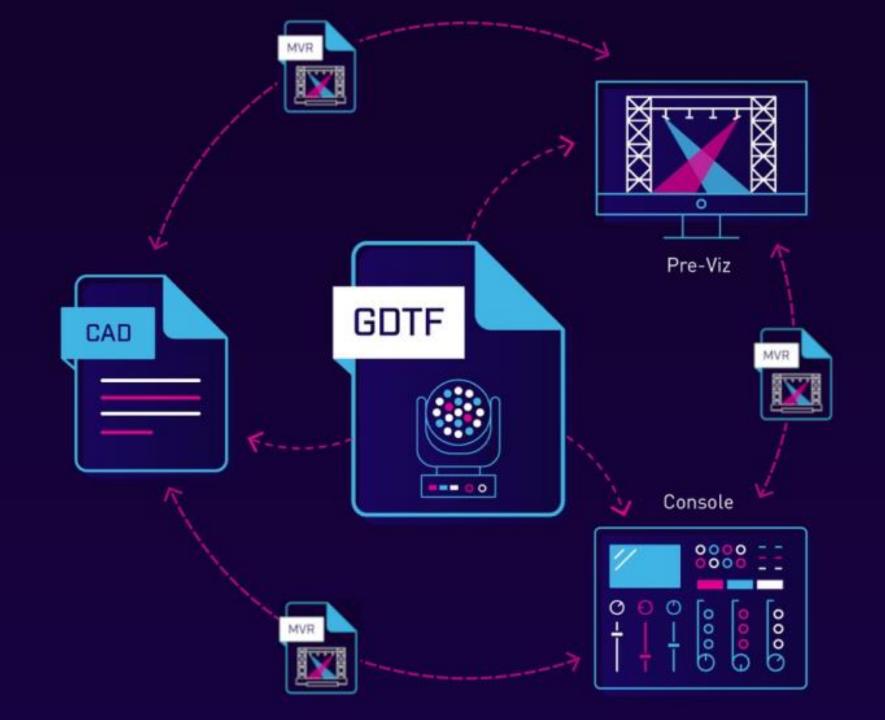


MVR file format uses GDTF as building blocks and describes the scene of the entertainment stage.









GDTF MVR

https://gdtf-share.com







GDTF & MVR

originally conceived and jointly developed by MA Lighting, ROBE Lighting and Vectorworks.

https://gdtf-share.com

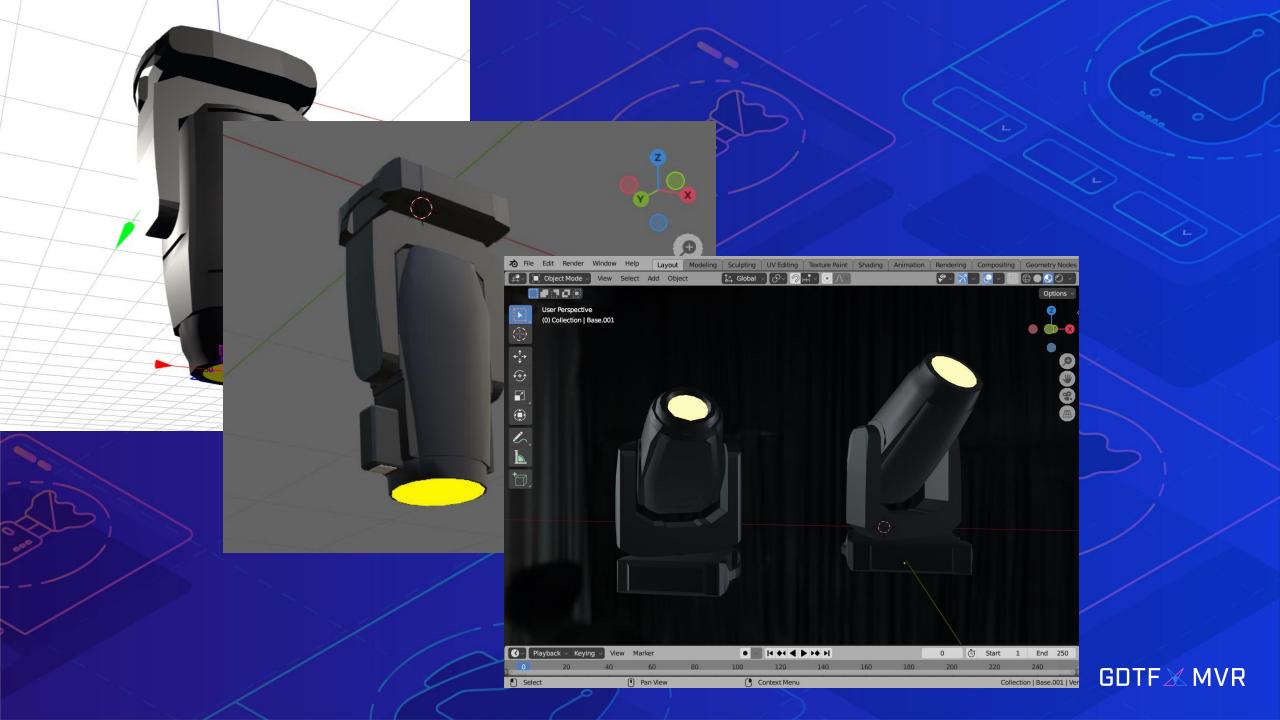
GDTF & MVR

Royalty free, open-source formats for describing devices of the entertainment industry

Creating a unified definition for the exchange of data for the operation of entertainment devices

Connecting the whole workflow from design and planning through control







HISTORY

- Development started in 2017
- GDTF announced at a major industry exhibition in 2018
 - v1.0 released in 2019
 - v1.1 released in June 2020 as a DIN SPEC 15800
 - v1.2 February 2022 as a DIN SPEC 15800:2021
- MVR
 - v1.6 December 2023 as DIN SPEC 15801:2023-12



CONTENT - GDTF

Comprehensive description to plan, visualize, control

- Lighting fixtures (static, architectural or moving heads)
- Trusses and Stage components
- Lasers
- Media servers
- Projectors and Video screens
- Electrical and Data distribution...
- Audio devices work in progress



CONTENT - MVR

- Scene description
 - Device addressing
 - Focus points
 - Electrical and Data wiring
 - 3D Scene elements
 - Sources for screens (NDI, CITP, File, CaptureDevice)
 - Textures
 - Symbol reuse
 - Layering and Classing
- MVR-xchange protocol



INFRASTRUCTURE

- Released as DIN SPECs
- GDTF Builder (en, cz, fr, zh-cn)
- GDTF Share
- Online hosting by VPLT
- libMVRgdtf C++ library
- GDTF Share API
- Error checking in GDTF Builder and in GDTF Share



COOPERATION

- GitHub public repositories
 - code, specs and proposals
- Established working groups
- Monthly online technical meetings for manufacturers
 - Feedback
 - Proposals
 - Education
- Helpdesk system



MEDIA AND SOCIAL

- Landing page gdtf-share.com
- Marketing videos
- YouTube GDTF & MVR channel
- Facebook
- Press meetings and PRs
- Dedicated booth at major exhibitions
 - Unify the Industry





TRAINING RESOURCES

- YouTube GDTF & MVR channel
- Training videos
- Webinars
- Manuals
- Forum



ONGOING WORK

- Support for audio devices
- Support for complex device macro animations







Post

personalities. You can see the complete Release notes here.

Posted March 21, 2024 - Categories: GDTF, Robe Lighting



Moment Factory releases v1.0 of Omniverse-MVR-GDTF-converter with native OpenUSD FileFormat plugin

Moment Factory (a multimedia studio) has released a version 1.0 of their open-source Omniverse MVR-GDTF plugin. To ensure seamless conversion of MVR and GDTF to OpenUSD, native OpenUSD FileFormat plugin API has been used, allowing non-destructive data availability in any OpenUSD compatible software, including Unreal Engine and Blender.

Posted February 6, 2024 - Categories: MVR, GDTF, OpenUSD

GDTF MVR

https://gdtf-share.com



FORMATS

- ZIP archives
- XML description file
- Open Formats (glb, svg, png, ies, ldt)
- Object UUIDs

CONTENT - GDTF

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DEVICE SPECIFIC DESCRIPTION

- 2D/3D models with textures (svg, glb)
 - Kinematic chain, dedicated geometries (wiring, beam)
- Physical properties
 - · Speed, Angles, Acceleration, Dimensions, ...
- Rich metadata
 - Names, descriptions, UUIDs, RDM UIDs...

DEVICE SPECIFIC DESCRIPTION

- Control protocols
 - DMX, OSC, Protocol Agnostic
- Content media (gobos)
- Color spectral data
 - Spectral power distribution, subtractive filters measurements
- Photometric data
 - IES, LDT

CONTENT SOLUTIONS - MVR

- MVR-xchange protocol
 - Network based workflow for data exchange

Fixture data in the GDTF Fixture Builder

https://gdtf-share.com

GDTF MVF







Click to create a new GDTF file

Fixture



Conventional

Load a default Conventional Fixture.



LED PAR

Load a default LED PAR.



Moving Head

Load a default Moving Head.



Empty



Load an empty GDTF.

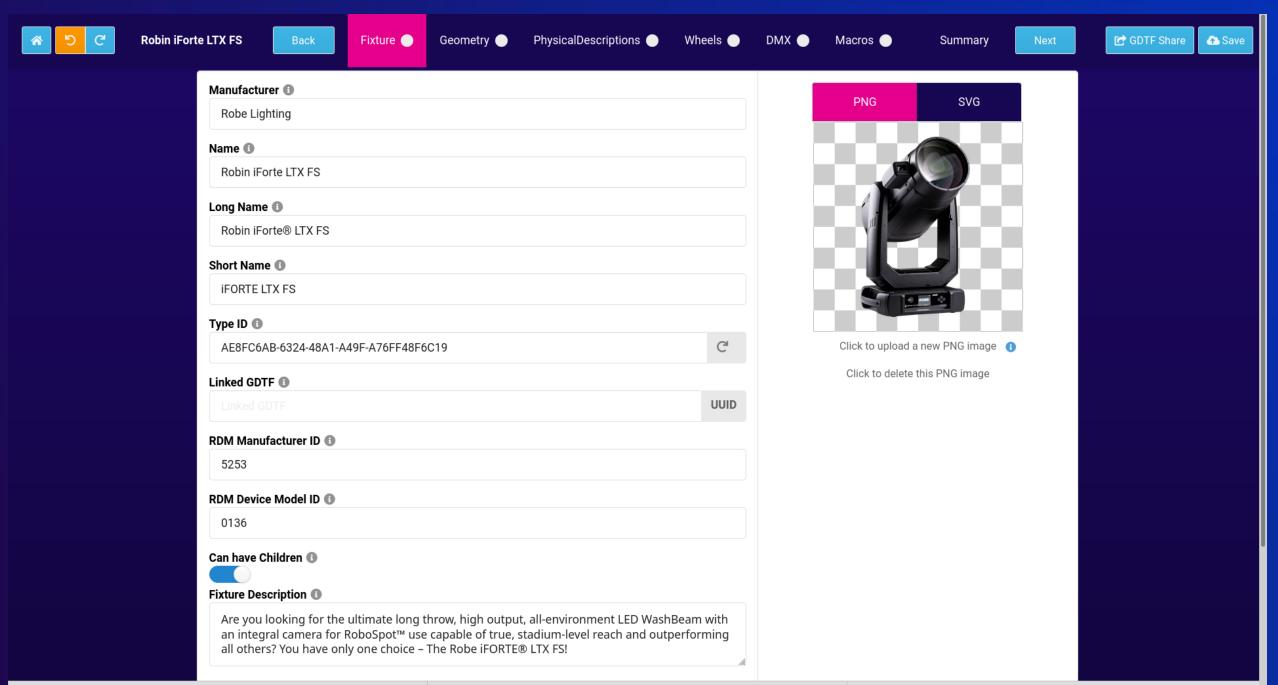
Restore Last Session

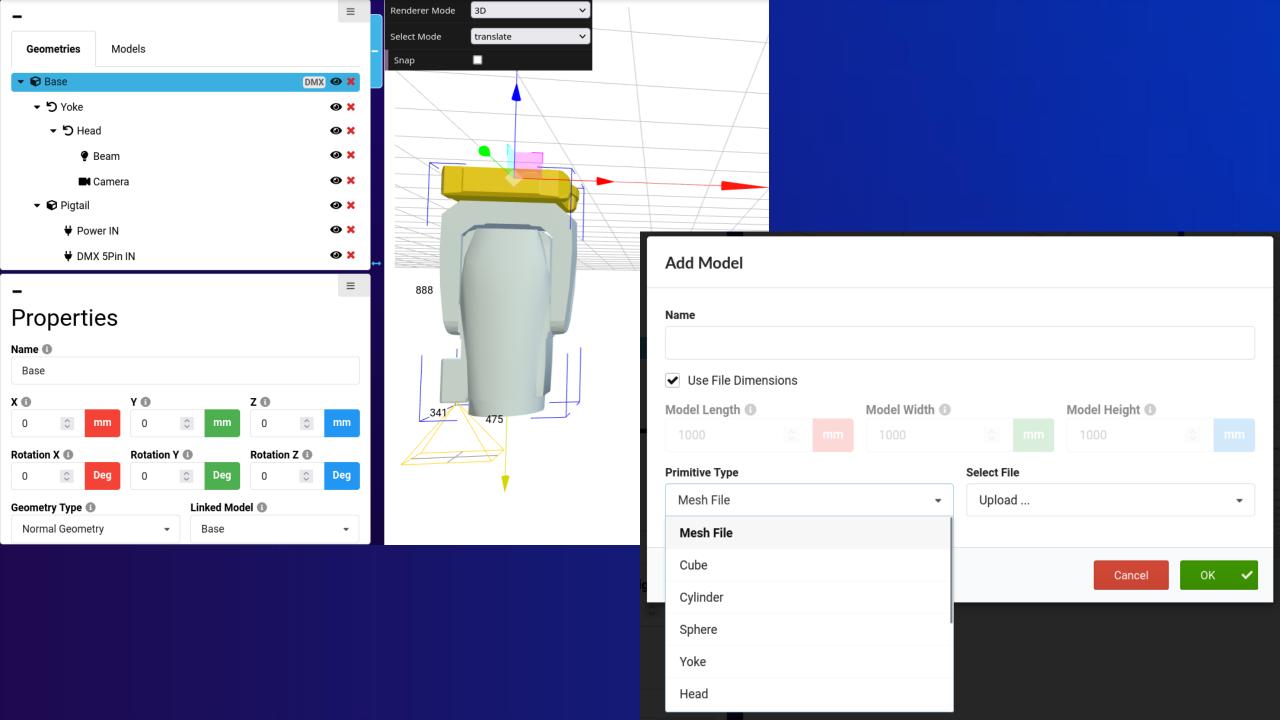
Customize an existing file

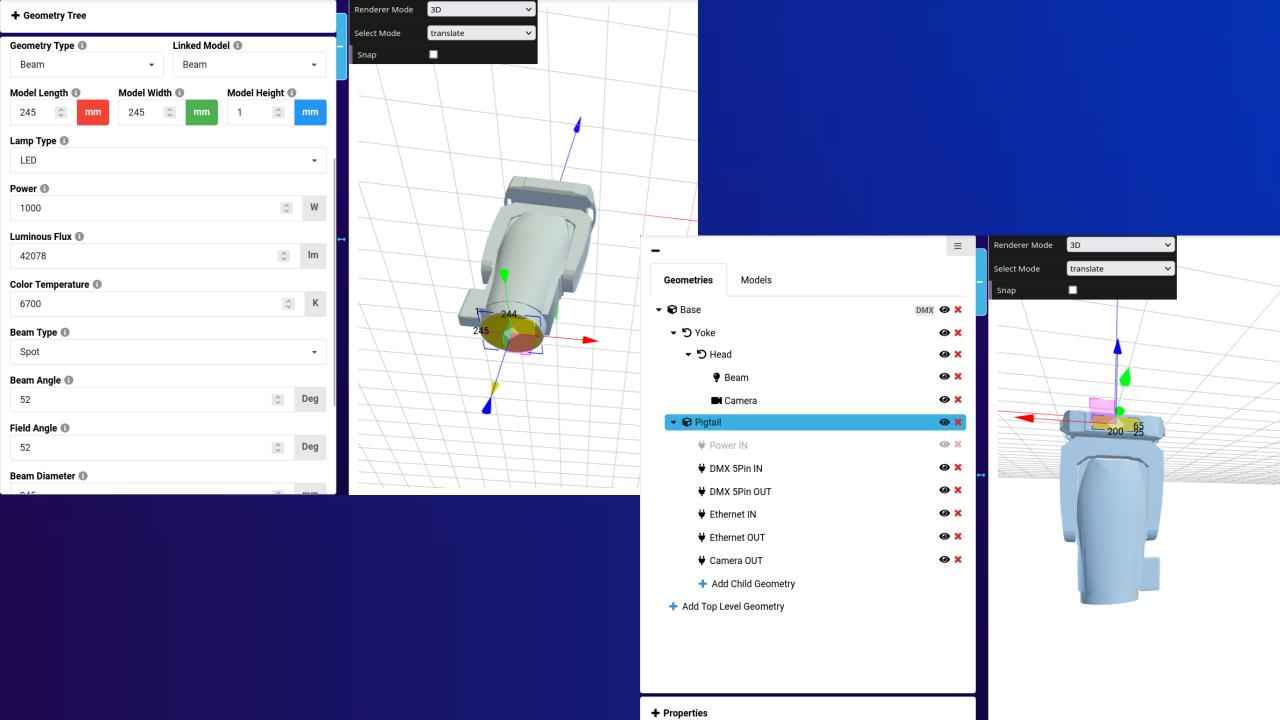


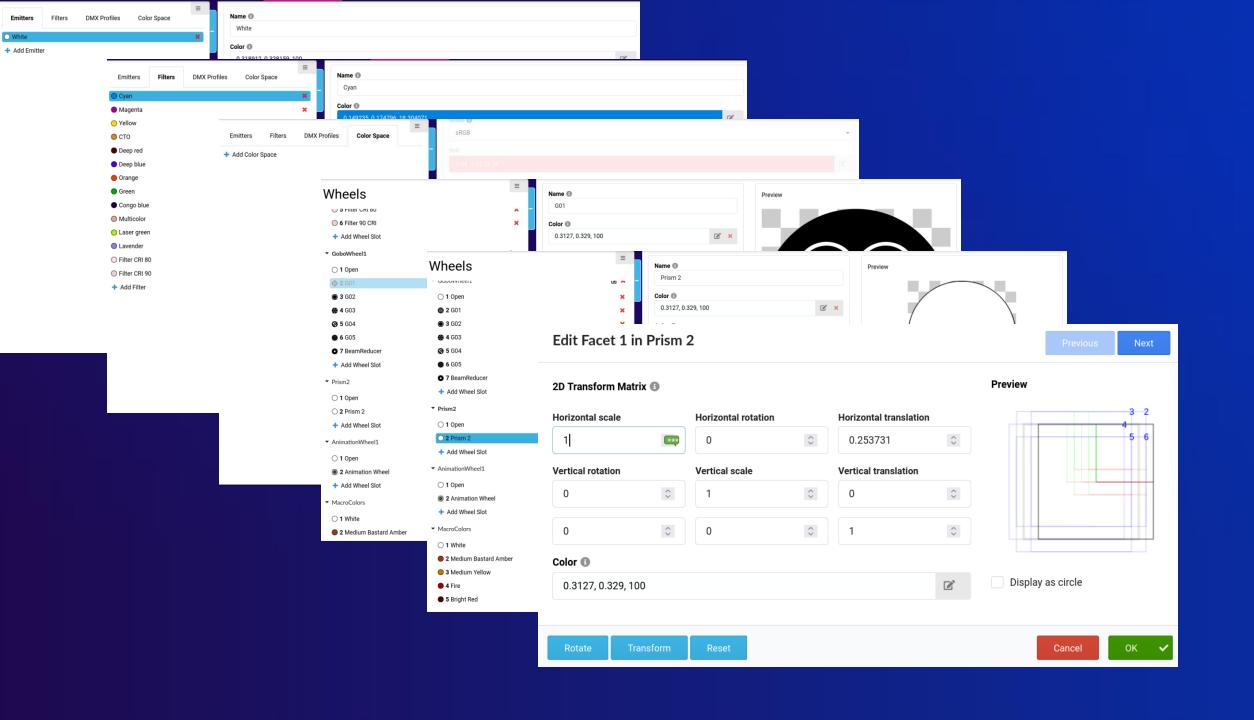
Drag and drop an existing file or click to select a file on your hard drive

☑ GDTF Share

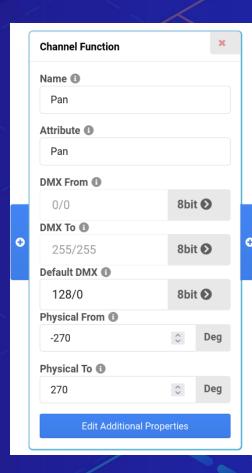


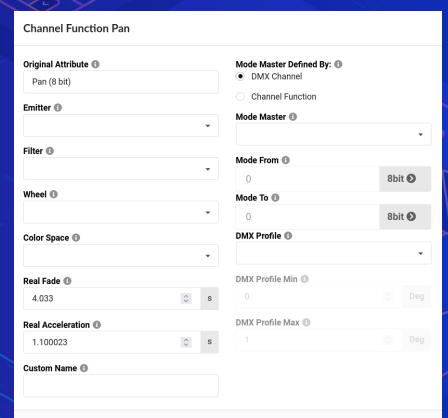
















Thank you

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