

TECH SHEET – LUX ÆTERNA

lux æterna

Interactive Light Installation

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Patenteux.com

Physical characteristics

The installation consists of a projector casting a cone of light in a fog medium. Inside the cone is a LIDAR camera. When the interactor touches the light cone, it activates a MIDI virtual instrument to generate music. A small monitor away from the main installation is used to give cues on the functioning of the installation.

There are multiple configurations possible depending on the space – this can be discussed with the artist beforehand.

Required equipment

Provided by the artist:

- LIDAR sensor and its USB cabling (10 m)
- Stand for the LIDAR (optional – for floor mounting)
- Cloth covering for the stand (optional – for floor mounting)
- Windows computer (optional – for short venues)
- Small monitor to illustrate the functioning of the installation (wall mounted)
- Software to run the installation

Provided by the venue:

- **6000-lumen** (or more) projector with a 1.45:1 throw ratio (tested configuration Epson L610U)
- HDMI cabling from computer to projector
- 1200-2000-watt fog machine **with timer** (depending on space)
- Windows computer (for longer venues)
- Good quality stereo speakers with cabling (connection from the computer is a standard 3.5mm (1/8”) mini jack)
- Ceiling attachment for the LIDAR (optional – for ceiling mounting)
- Sandbags or weights for the stand (optional – for floor mounting)

Shipping requirements

The equipment carried by the artist is the LIDAR, stand and cover and the small monitor, which fit in standard luggage. See artist for shipping details.

Space requirements

In terms of space requirements, refer to the plans below along with these guidelines:

- The projector should be 320 cm (10') off the ground. Plan for a plinth or a ceiling mount
- The minimum distance between the projector and the opposite wall is 8m (26' 6"). A wall is not strictly required.
- The LIDAR sensor should be in the middle of the projection path. It can be on a plinth, a stand (with weights and cloth covering) or attached to the ceiling
- Position the fog machine near the projection path but away from the LIDAR – puffs of fog in the projection path are beautiful, but confuse the LIDAR. The tested configuration is at the base of the LIDAR.
- The small monitor should be wall mounted (if possible), near the installation but not too close in order not to create a distraction.
- Permission for the use of a fog machine must be obtained
- The room must be dark – no lights or windows – exit signs are fine

Electrical requirements

Plan for your projector, sound system and fog machine's power draw. The computer and monitor uses 300 watts maximum, 110-240 V, 50-60 Hz.

Mediation requirements

The installation is designed to function on its own and requires minimal supervision or maintenance. The only requirement is to turn the projector, speakers and fog machine on and off in the mornings and evenings. If the need arises, software issues can be handled remotely by the artist via a remote desktop connection (TeamViewer).

Other requirements

- A reasonable-speed internet connection is required (wired or wireless).
- It is advised to mark the active zone of the installation on the floor.



