

**BASICS**

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LAND is in its technical aspect a stereoscopic HD projection based on polarized light

All signals IMAGE + SOUND + MIDI-DMX come off one computer.

Computer and data components inclusive USB-MIDI-DMX transfer devices will be provided by artist.

In any case: a computer-screen usually in full HD 1920x1080 has always to be provided during set up!

All components run on 240 volt / 50 Hz. Secure of proper ground for the whole electric system.  
A faulty ground or no ground for any component may destroy the USB/MIDI/DMX interface-chain

A fully authorized local production assistant who speaks English is available upon arrival and later upon request. Phone and unrestricted internet access must be made available.

Equipment needs to be well ventilated, secure, and invisible to visitors during exhibition period.

**PROJECTOR**

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2 identical projectors,  
1920x1080 native resolution at 60/75 Hz, high contrast  
**IN CASE OF LIVE SHOW 1400x1050 or 1280x720/768 or 1280x1024 are acceptable.**  
**The exact resolution needs to be confirmed.**

Projectors that only accept full HD images but don't have a native full HD resolution are not acceptable.

Each projector has its own polarisation filter,  
Filters must be protected from overheating  
rotation of filters must be possible if needed. The final position must be fixed after

projectors need to be adjustable in position for fine tuning of their projection throw.  
they must allow for vertical shift.

lens shift	H + V remote controled
input	vga(rgb)
output	vga(rgb)
focus	remote controled

**Pay special attention to perfect video cables and line distribution: no ghosting and video hum !**

**SCREEN**

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projection appears as projected direct onto one whole side of the exhibition space

this wall has to be plain and well pre-treated since final 3D coating is expensive

paint : only "GOO Ultra Silver 3D" please follow instructions on website

a german seller/site at <http://www.goosystems.com/index.php?cont=screen>  
<http://www.screengoo.de>

**an approved 3D silver-screen may be another option especially for LIVE**

## LIGHT

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8 strobes Martin ATOMIC 3000

<http://www.martin.com/product/product.asp?product=atomic>

Strobes:	8 martin "atomic 3000"
For all eight strobes Light foils:	diffusion foil (usable for high temperatures i.e. "254 New Hampshire Frost" by lee filters).
For 4 strobes (1 of the two strobes per pair)	RED foil (usable for high temperatures i.e. by lee filters).
For 4 strobes (1 of the two strobes per pair)	Blue foil (usable for high temperatures i.e. "079 Just Blue" by lee filters).
	Metal black foil "cinefoil" to reduce light spill.
Light gaffer tape:	Matt black metal gaffer tape.
Cables:	1 long 5 pole DMX cable (15 – 20 m depending on room size) 7 short 5 pole DMX cables (5 m)

Since the strobes have cooling areas on either side, light spill is a crucial topic !  
the little light from the side can already overpower the blue masked strobes, resulting in light occurrences on the side walls and other disturbing light spots, that may ruin the work !

Flickering light that is not emitted as a first reflection from the screen is extremely disturbing, because polarization glasses reduce the overall brightness significantly.  
If any bright flashing light enters eye side from besides the glasses it will be a frustrating experience.

Thus a well covered area for the flash lights / strobes is crucial, a board that blocks out all together is ideal.

## AUDIO

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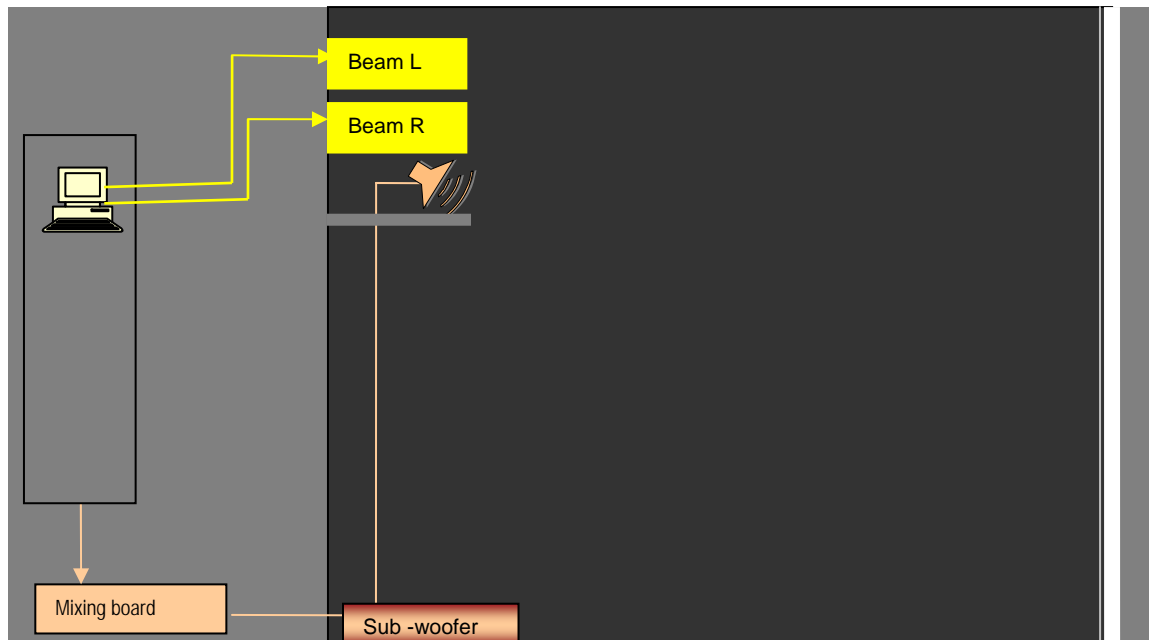
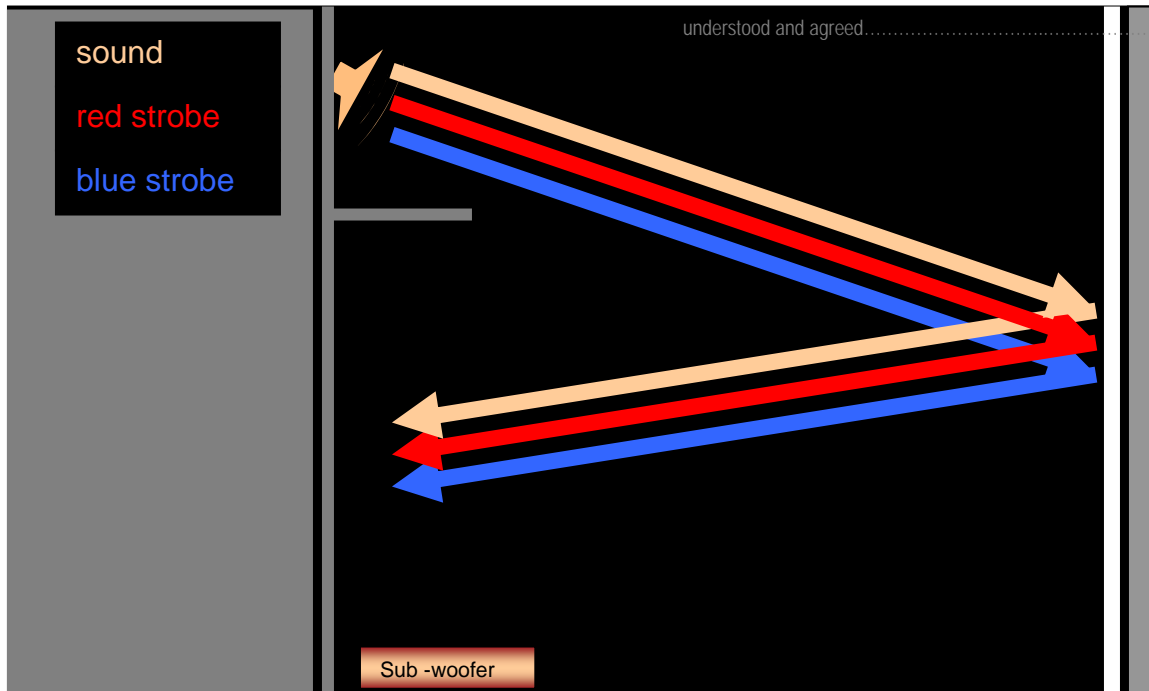
AUDIO out                    1 stereo audio stream of 1 computer audio output,  
DI boxes !

MIX                            Small mixing board incl. 6 independent outputs ( stereo/ sub groups/AUX )  
all cables, NO audio hum ( DI boxes),

SPEAKERS                    4 speakers flying invisibly and targeting the screen 50 watt sinus  
Spectators listen to the first reflection !

1 sub woofer with significant output for ultra low end 2000 watt sinus  
sound may interfere with other installations if silence is required right next to it.

**IN CASE OF LIVE SHOW THIS HAS TO BE STRONGER: live PA quadro + 6000watt SUB**



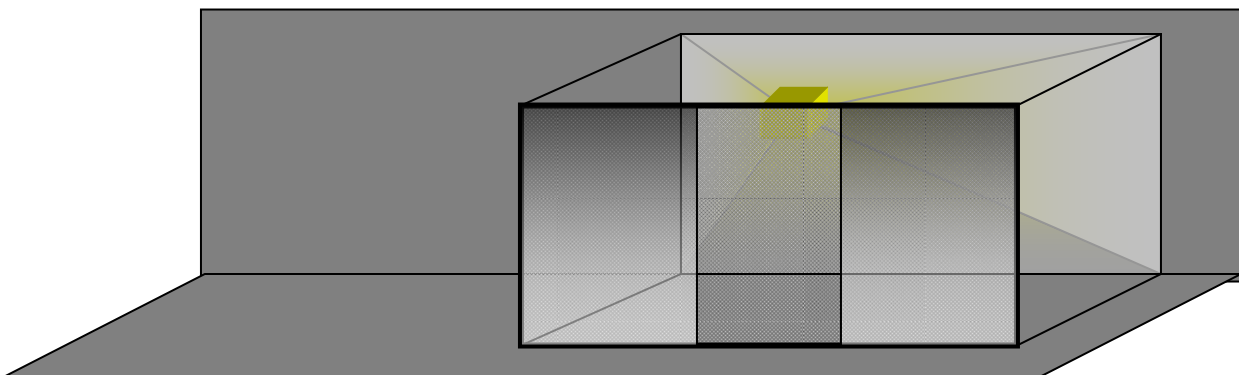
## SPACE

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INNER SPACE inner space ( projection area) and outer space ( spectators area)  
Is separated with a wall, only the central area allows for seeing the projection field

Ideally the dimensions of the projection wall in the installation space  
is ( made ) identical to the projection screen !

This way the projected image will not appear as a cinematic picture on a wall  
but as an open site towards another space.



the space appears pitch black, pure, empty, perfect  
( irrespective of the possibly congested situation at the strobe and beamer area)

walls + ceiling +floor painted in black (ROSCO TV black ) <http://www.rosco.com>,

black carpet ( not grayish )

All appliances are invisible

A black sofa/ chair in the centre

Oxygen and circulation of air and temperature may be an issue !

OUTSIDE The entrance situation provides security from light spill from outside

Suggestion: dim blue light, as little as possible

A warning sign concerning flickering strobe lights is advised

no sound interfering from other exhibition spaces