

Tech Rider

Nano Steps - a Particle Performance

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A contemporary puppet/object-theatre show with two performers, microscopic particles, scientific and musical equipment and a big projection.

A video recording of the show from premiering venue (Helsinki City Theatre, Studio Pasila):
<https://youtu.be/WjHkTGM6ELg>

Touring

2 performers

1 light-designer / operator

Scientific equipment, costume & props may travel by cargo or Trial & Theatre van. If using the artist van, a parking space close to the venue will be needed. If using third party delivery, the venue must be able to receive and store the cargo minimum 2 days prior to the set-up. When packed, the set requires approx. 2,5 m² of storage space.

Performance space

Suitable for mid to big size black box theatres. Another show, *Nano Steps - Into the Lab* is offered for unconventional and small stages or performance spaces.

Stage space minimum 12m x 8m x 4m (WxDxH), ideal 16m x 10 x 6m (WxDxH) The stage area must be free of any obstructions e.g., large set pieces, orchestra/choral shells, and pianos. Theatrical conditions are required.

Performance will feature two microscope cameras displaying live feed live on stage. The stage should be free of external vibrations. Subwoofers are ideally flown or installed a sufficient distance away from stage structures. In case of inability to pre-empt external vibrations, e.g. tram line next to theatre or theatre infrastructure inflexible, it can be possible to dampen the tables by placing concrete slabs or similar under the legs. Please consult with the tech manager in case of possible vibration issues.

Set up & Strike down

6-18 hours depending on venue, pre-work, equipment and available staff on site. Schedule outlined as a suggestion, please consult the actual timeline with the touring group.

Proposed Schedule:

GET IN DAY:

10.00–11.00 Load in, local Stage manager/ technician introducing the venue
11.00 -13.00 Stage, lights and sound setup
13.00-14.00 Lunch break
14.00- 18.00 Stage, lights and sound setup
18.00 - 20.00 Focusing and programming lights and scientific instruments

SHOW DAY:

10.00-13.00 Focusing/Programming lights/Sound check/Instrument check
13.00-14.00 Lunch
14.00 - 16.00 Rehearsal on stage
17.00-19.00 Artists warm up on stage
19.00-20.00 Performance
20.00-23.00 Strike down, load out and cleaning

Crew

We will need minimum 1 venue technician to assist during load-in, setup and strikdown.
We will need 1 venue technician / stage manager to introduce the venue upon arrival.

Show duration

The performance is approx. 1 hour long with no intermission

Strike down Duration

2-6 hours depending on venue, pre-work, equipment and available staff on site.

Other things needed

- possibility to fix novel cables (soldering station)

Detailed technical description

Stage

The venue shall provide:

- Two large, relatively sturdy tables. Original dimensions 100x200 cm
Motor adjustable tables preferred. A strong office table or a Nivtec podesta with high legs will also do perfectly well, for example. Light neutral color preferred.
- One medium size, relatively sturdy table. Original dimensions 75x120 cm
A sturdy office table or a smaller Nivtec podesta with tall legs can work well for instance. Light neutral color preferred.
 - NOTE: all tables will need to receive an attached table-lamp (artist-provided) by either clamping or screwing.
- A self-standing coat rack. One legged model preferred. A neutral non-black color is preferred.
- Two rolling saddle chairs
- 220V outlets in two phases:
 - Phase 1 for sound and video equipment. All three tables.
 - Phase 2 for interference and clicks generating lab equipment. Table 2.

Projection:

The venue shall provide:

- Large format projection screen. Screen to be mounted centre-stage allowing passage both front and behind. Original dimensions 488x305 cm. Screen should appear large on stage. Rear projection preferred.
- Video-projector with enough brightness to throw a clear image on screen on a fully lit stage. Minimum 10 000 lumens. The picture should fit the screen.
- Ability to dynamically set a vignette on the projection, for example video processing with a vignette possibility e.g. with a Qlab computer at FOH
- Ability to dynamically adjust projection brightness and shutter (to perform projector fade out and black out cues), e.g. with a Qlab computer at FOH or Art-Net controllable projector patched in the lighting console
- Video-infrastructure to reliably run video signal from on-stage video mixer (provided by artist) to projection. Output from artist provided video mixer (on stage) 1920x1080 60fps (1080i 60hz) **HDMI**.

The artist shall provide:

- A two channel video mixer. Output from video mixer 1920x1080 60fps (1080i 60hz)

- Remote-control pedal for video mixer.
- Two HDMI-microscope cameras
- Cables for signal between HDMI-microscope cameras and the video mixer, as well as for power of artist provided equipment.
 - NOTE: All artist provided equipment will be set up on stage.

Lighting:

The venue shall provide:

- Colour top lighting wash covering the whole performance area (RGBW or CMY mixing possibility preferred). Moving heads preferred.
- Focusable front lights line covering the whole performance area. Moving head spots (theatrical quality) preferred.
- One or optimally two shutter-blade, iris, zoom and focus equipped moving heads with colour mixing functionality for a special effect light. If unavailable, please consult the technical manager about a replacement strategy.
- Focusable high side lights, both sides of stage, covering the whole performance area.
- Additionally any amount of moving-head spots, preferably with shutter-blades, above the stage, will improve the performance visuality.
- Three dimmer-lines on stage for table lamps (artist provides lamps).
- One DMX-controllable relay/switchpack channel for remote on & off switching of microscope (artist provides microscopes)
- Lighting console: Chamsys MagicQ line. If such console is unavailable or type not according to spec, please consult the technical manager about a hiring replacement desk. It's possible for the touring group to bring their own console upon negotiation. Please note that the performance will use sound input (main stereo signal) to the lighting console for special light effect cues.
- Standard lighting infrastructure: dimmers, DMX and electricity.
- Lighting plot and DMX patch documents delivered well in advance - if the venue uses **Capture vis software**, a Capture 2023 suitable file (.c2p) is the most optimal, hassle-free way of working.

If any of the lighting equipment asked for is unavailable or not according to designation, please consult with the technical manager about alternative solutions.

The artist shall provide:

- Three goose-neck table lamps.
- Microscope lighting.

Sound:

The venue shall provide:

- PA-system with main Left/Right stereo with a subwoofer, and rear surround Left/Right stereo output capabilities on discrete channels (4.1 system)
- Sufficient cabling to run audio from on-stage musician post to the system. The artist equipment features Balanced XLR output for Main stereo including subwoofer, Balanced Jack TRS for surround.
- Sufficient cabling to connect on stage microphones (3 pcs, artist provided) to the on stage mixing console (artist provided). Sufficient cabling to connect main stereo signal to lighting console sound-input. Cable run length according to house dimensions. All equipment on XLR connectors.
- 220V sound-power sockets on stage for the sound equipment (minimum 6 sockets needed)
- 3 mic stands
 - 2 medium (singer) height
 - 1 low (drum) height

The artist shall provide:

- All sound-producing equipment including 3 microphones, modular synthesiser, scientific signal generators, mixing desk, sampler, Macbook pro with Qlab 5 and Max/MSP, and other gear. All to be set up on stage.
- All signal carrying cables between artist provided equipment, *3 on stage microphone signal cables notwithstanding*
- All power adapters for artist provided equipment
- Stands for on stage equipment, *3 on stage microphone-stands notwithstanding*

Scientific instruments:

The artist shall provide:

- Two microscopes
- A programmable voltage generator
- A programmable function generator
- A programmable pulse generator
- A number of other scientific instruments, samples and containers. E.g. pipettes, vials, petri dishes, hexadecane, micro-silica, chinchilla bathing sand, conductive glass sheets and so on. All matter in the samples is inorganic. Most of the samples are sensitive to vibrations, electricity, light and/or physical shock etc. No rough handling.

REFERENCES

Stage elements requested (Pics for reference only - actual look and feel of tables & such is not set in stone. In case of questions contact Valtteri, the tech manager)



Motor equipped office table, sturdy



Rolling saddle chair



Self-standing coat rack

Stage Plot to be added

NOTES

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