

LORDS OF LIGHTNING LTD

“FREQUENCY RIDER” - TECHNICAL RIDER



Fusing jaw-dropping science with mesmerising spectacle, the Frequency Rider harnesses 2 million volts of electricity into a spellbinding storm of lightning.

Shooting lightning bolts at different sonic frequencies from hands, head, legs and metal staff alike, the show is an extraordinary union of fluid human movement, the physics of music and the volatile power of white-hot electricity. As the lightning fires musical notes, an electric symphony begins to build.

Drawing on elements of modern dance, martial arts and Tesla electricity, the Frequency Rider explores the rhythm and tone of lightning as sizzling arcs of pure energy are channelled into a truly unique performance...

The Lords of Lightning have been performing shows with the use of Tesla technology since 2001. We have safely performed all over the world providing entertainment and special effects at music festivals, corporate events, movie premieres and in TV & film.

SHOW DURATION

Our show lasts for 5 minutes and has been specially choreographed to our own soundtrack. (Please contact us if you require an mp3 for review).

Where possible, the show can be tailored to suit various time slots or worked into your own show/music. Additional time for choreography and rehearsals may be required.

To allow the machines workings to cool down the Tesla machine can be run for a **maximum of 8 minutes within any 1 hour**. To avoid any danger from performer fatigue, the Lords of Lightning can perform a maximum of 3 shows per day.

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In order to get the full effects of the lightning, the show is best performed in darkness. Visibility of the lightning is likely to be poor in daylight.

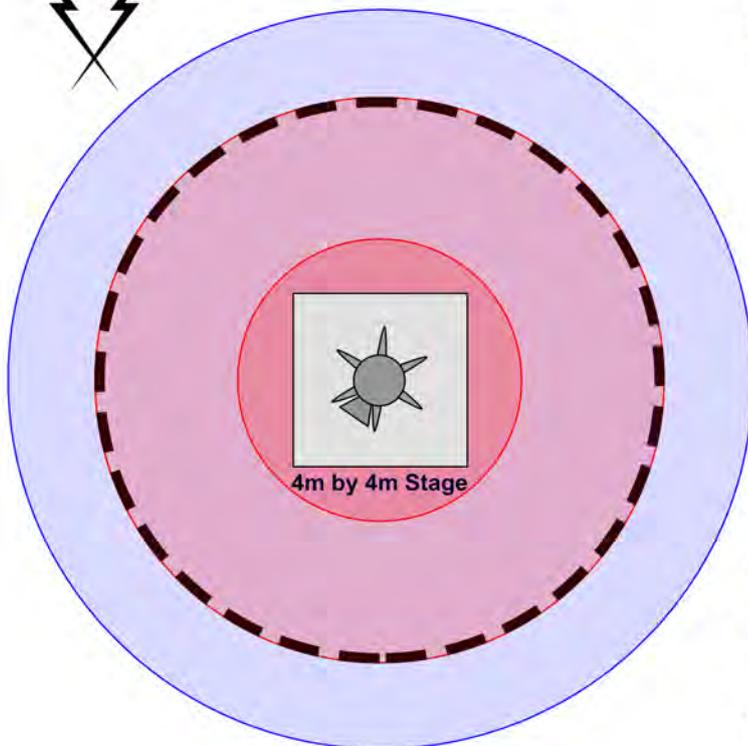
PHYSICAL SPECS

The tesla tower stands 2.2m tall, with a base span of 2m. The lightning arcs strike out maximum 3m from the coil.

A 12ft x 12ft (4m x 4m) stage area is to be provided by the Promoter. The total weight of equipment and performers does not exceed 500kg. The stage needs to be level, but does not need to be high; we suggest that the stage is as low as possible.

A minimum safe clearance of 6m from the coil is required for the audience, and 8m for electrical equipment.

We therefore require a 12m x 12m fenced and secure area.



Lords Of Lightning Ltd
Solo Musical Coil “Frequency Rider”
Plan View of Stage & Exclusion Zones

3m Radius Lightning Strike Zone

Crowd Fencing At 6m Radius
(MET Barrier)

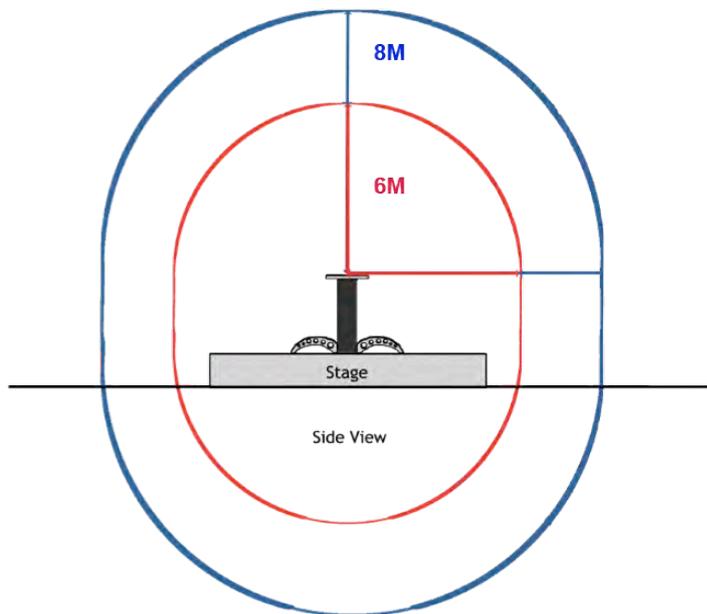
6m Radius Crowd Safety Perimeter

8m Radius Electrical Equipment Safety Peimeter

It is the responsibility of the Promoter to provide fencing and adequate security staff to prevent the public/foreign objects from breaching the safety fencing.

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Please let us know in advance if there is any electrical/lighting equipment within 8m of the coils (including above/below), as the Tesla coils can cause interference and damage to electrical equipment within this distance.

For an indoor show, a minimum ceiling height of 8.2m is required, with no electrical equipment within the 8m safe clearance zone.

Please let us know in advance if the show will be performed indoors, so our Technical Manager can ensure a show is possible within the space.

See plans for stage and safe clearance distances and contact us in advance to discuss any possible exceptions to these.



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ON ARRIVAL

Our usual show consists of 3 x crew:

- Performer
- Technical Manager
- Technical Assistant

Dependent on location, it is the responsibility of the Promoter to provide travel, accommodation and meals for our crew. Exact requirements vary for each contract. Please refer to our hospitality rider and contact us to discuss this in advance.

Once we arrive at the venue, we may need access for a vehicle and parking/storage where appropriate. It usually takes us 2 hours to unload and set up equipment. We must then carry out a brief test to ensure equipment is functioning correctly and ready for performance. Once set up and testing is complete, security may be required in the area to ensure the stage area remains sterile.

Before performance, our crew may need up to 1 hour to get into costume and prepare for the show. Access to an appropriate dressing room is required near to the performance area.

WET WEATHER

In the event of wet weather, its severity will decide whether a performance can go ahead. We are able to cover our equipment to protect from rain when not in use. In order for the show to happen at the scheduled time, we require no rain for at least 10 minutes prior to performance, to remove covers and dry equipment. We are able to perform in mist or drizzle; light rain at this point will not stop a show from going ahead.

Unfortunately, heavy rain is a showstopper. Where possible we are able to reschedule show times, and in this event we ask that the Promoter can be flexible with timings if necessary. Our Technical Manager will have the final say on whether conditions are safe for our crew to perform.

AFTER THE SHOW

By prior arrangement, our crew can be available for interviews, photographs and to answer questions. We ask that any photography or video footage is to be signed off by Lords of Lightning management before publishing.

It takes up to 2 hours for our crew to pack down equipment ready to leave site after the show. Please inform if there are any time restrictions, so we can allow for this in our schedule. If we de-rig our equipment at night, we may need lighting provided.

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TECHNICAL REQUIREMENTS TO BE PROVIDED BY THE PROMOTER	
STAGING	Flat and level 4m x 4m stage platform Height of no more than 600mm with steps (if needed) for access at rear and surrounding black valance.
FOH	1x table and 2x chair approximately 10 – 15 meters from the tesla coil, in close proximity to audio desk so we can supply audio to them. 1 x 240v power supply needed
SOUND SYSTEM	We will supply our Audio feed from our FOH laptop via XLR. We recommend a reasonably powerful Sound System, as the sound of the lightning can be very loud, as can the audience reaction. Feel free to contact us for our recommendations. This must be independently powered (Not on the Same generator as the Tesla Coil) We ask that associated PA/speaker system be arranged behind our performer, to ensure they can hear show cues. If this is not possible, then a side fill monitor system should be used. All audio equipment/cabling must be a minimum of 8m from the Tesla coil.
DRESSING ROOM	A secure, lockable dressing room with easy access to the stage area (with heating or a/c where necessary). The performer suit is heavy and delicate; they cannot walk extended distances. Well lit with a minimum 1 x table and 2 x chairs . Access to a shower may be required.
ACCESS	In UK/Europe: Access to stage area & secure parking for Hi-Top MWB Mercedes Sprinter van (H: 2.65m, W: 1.88m, L 5.64m) and occasionally for second car. Overseas: Access for freight delivery/collection and storage for equipment containers.
TESLA POWER	1x 32 amp 3-phase supply – 415volts per phase at 50HZ. Independent supply from a minimum 25KVA generator to prevent damage and ensure isolation from other electrical equipment. This is implemented for safety reasons. Our lighting will also run from this generator and requires an additional 16amp single-phase 240volt 50HZ output. Our power cable gives a length of 25m from our control box and connects via a standard Ceeform 32A 5-pin plug.

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	If the generator is situated more than 25m from our control box, an appropriate 32Amp 3-phase extension cable will be required.
LIGHTING	We supply 3 x LED lights for the main show lighting. You are welcome to add to this, but this must be discussed with Lords of Lightning management in advance. (Any additional lightning must be positioned at least 8m from the coils. DMX control use in close proximity of the Tesla is discouraged, as the magnetic field can interfere with the data frequencies and damage lighting. Tungsten filament lamps are unaffected by the magnetic field, but moving head fixtures or programmable lamps should be kept at distance from the coils.)
FIRE EXTINGUISHER	1x 5kg Co2 fire extinguisher.
SECURITY	1x Security personnel in position while Public have access to the venue. 4 x Security/stewards over show times to assist with crowd management. To be briefed by Lords of Lightning Technical Manager on arrival.

SAFETY

Our performer wears a stainless steel chainmail suit, which acts as a flexible Faraday cage that protects them from the electricity. The chainmail suits provide a low resistance path for the electric current, which forces the electricity around the surface of the suit instead of passing through it. Our performer is safe inside a flexible metal cocoon.

The audience are kept safe at a minimum of 6m away from the machines – more than twice the possible distance the lightning can strike out of the machines. A safety barrier is to be provided by the Promoter at the required safe clearance (12m x 12m around stage area as detailed above) enforced by security personnel during the show.

Electrical equipment must be kept a minimum of 8m away from the coils, due to the large magnetic field that the machine creates. We cannot guarantee or accept any liability for damage to electrical equipment within any proximity to the coils.

Please let us know in advance of booking if you are unable to provide any of the above and we can discuss alternative arrangements.

Feel free to get in touch for any bespoke Tesla installations and ideas.