

Riverside Arts Centre

LIGHTING SPEC

Revised: May 2019

THE RIVERSIDE ARTS CENTRE | 57-59 THAMES STREET, SUNBURY-ON-THAMES, TW16 5QF

Table of Contents

Formal Introduction 2

Lighting Rules 3

Main Hall: Lighting Error! Bookmark not defined.

 Infrastructure 4

 Local control 4

 Control 4

 Dimmers 4

 Lighting bars 5

 Fixture stock 6

 Gobos 6

 Gels 6

 Cables 6

Deleted: 3

Deleted: 3

Deleted: 3

Deleted: 4

Deleted: 5

Deleted: 5

Deleted: 5

Formal Introduction

The Riverside Arts Centre's (the charity) objectives are to foster and promote the maintenance, improvement and development of artistic taste, knowledge, understanding and appreciation of the arts among the residents of the Borough of Spelthorne. The main objective of the Charity is to continue to successfully operate and manage The Riverside Arts Centre Ltd.

The Riverside Arts Centre (RAC) provides a well-equipped venue for the visual and performing arts as well as being a coordinating body for individuals and amateur and professional groups to promote such activities. Its main source of income is rental fees for the use of its facilities. RAC does not promote events.

It is run in its entirety by voluntary effort.

RAC is owned by Spelthorne Borough Council and is leased to The Riverside Arts Centre Ltd. The Studio - formerly the village branch of Barclays Bank - is owned by The Trustees. RAC was opened in April 1982 after 5 years' toil converting a near derelict building into an enviable space. The Studio was purchased in 2003 and opened in November 2006.

RAC consists of two performing spaces:

'The Main Hall' is our main performing space that is used by many different performing groups for productions. It is well equipped with professional equipment and some of this equipment has just been refurbished (May 2018). In this space you have access to stage lighting and sound equipment that is managed by the RAC technicians.

'The Studio' is our second performing space. This can be used for both performing and rehearsing.

Technical Contacts

ractechnical@outlook.com

Chairman	Eric Champion 07922689247
Bookings	James Ford-Bannister 07853293814 j.fordbannister@gmail.com
Lighting	John Hart 07591037373 john@jhld.co.uk
Sound	Kevin Welling 07711799899 Kevin_welling@btinternet.com

Other technicians include: Steve [Vialardi](#), Chris Ireland and Graeme Bendall.

Deleted: Valardi

Lighting Rules

We maintain RAC to a safe and functioning standard. However, we do have some rules we enforce.


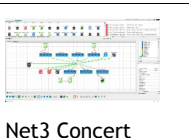
1. All circuits must not have any load greater than 1.2KW exceptions can be made by our lighting technicians.
2. We have a standard rig. This is to be restored before leaving after a show week.
3. Do not leave the dimmers turned off.
4. Restore dimmer and gateway configurations (if changed) before leaving.
5. Do not use cables longer than 15m.
6. Do not use cables thinner than 1.2mm²
7. Do use loads greater than 1KW on extension cables.
8. Do not re-wire plugs or sockets without permission.
9. Do not change the network switch configuration.
10. If you are using haze or smoke, make sure the workshop door remains closed.
11. No double plugs or grelcos on stage.
12. Do not power LEDs or movers from dimmer sources. Make sure you change the circuit to relays first.
13. All lighting technicians must work in coherence with BS7909.
14. All lamps must have safety bonds that are rated and not chaines! Including kit being hired in.

Deleted: grelcos

Deleted: ¶

Formatted: List Paragraph, Numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0.63 cm + Indent at: 1.27 cm

Useful Tools

	<p>Allows you to output and view the sACN protocol to view and send control data on our lighting network</p>	<p>http://docsteer.github.io/sacnview</p>
	<p>Used to make settings change to our gateways and dimmers.</p>	<p>https://www.etconnect.com/Products/Networking/Software/Software.aspx</p>

Infrastructure

The lighting system is controlled by a ETCNet3 network. We provide a 5 pin XLR port on every lighting bar (including the dips) to provide DMX512 for your intelligent lighting fixtures. These will provide DMX universe 1 by default, but can be adjusted using the net3 gateways to provide any sACN (E1.31) universe. This can be done using software called 'Net3 Concert'.

The network allows for you to priorities control from multiple consoles. By default, a 3rd party console that you bring in will take control via the designated Rj45 network ports around the room. If you do not have a 3rd party desk, then our inhouse lighting console will be in control. If there is no lighting desk online, then our ETC Echo system will be in control.

RDM is provided to the Net3 Gateways and can be provided to an ETC lighting console, such as EOS or Cobalt. Otherwise you can plug in a laptop running free software 'ETC Net3 concert' this will allow you to make RDM changes.

Local control

We have a ETC Echo system that will allow you to press a button and get the stage lights on. This is useful for rehearsals and one-night events such as a coffee concert or a music event. We have 3 button stations around the room. One in the stage managers corner; one in the gallery and one FOH. These will give different control depending where you are in the room. If you are a one-night event or a coffee concert then you will want to use the one FOH.

We provide two presets. One for a side-on event (coffee concert) and one for a floor event, such as a music performance).

NOTE: if a lighting desk is turned on, this system will not work. This is also reliant on the dimmers being powered on.

Control

We currently have a Zero88 Solution lighting desk that is left setup in the gallery for simple use. This lighting desk can be programmed for use with submasters (looks on faders) or a cue stack (more commonly used for performances). Assistance on programming this console can be requested.

Dimmers

We have 84 circuits for dimming, switched or constant current. These are provided by ETC ColorSource Thru-Power cabernets. By default; most circuits are configured as dimmers, with the exception of the circuits that drive the powercon outlets, these will be switched power to prevent incorrectly dimming LED fixtures. The circuits can be re-configured as relays or constant currents if you need them to be. This can be done via RDM or via the dimmer racks front panel. **Our dimmers are to be left powered on at all times.** All dimmers have a C10 MCB protecting them from overload. Every 4 circuits is protected by a RCD. Each dimmer cabernet is protected by a C32 MCB.

Our dimmers are hard wired to the bar sockets so that you will not need to patch bar circuits as previously done. Patching is done via DMX. The dimmers addresses start from 001.

Lighting bars

We have 3 lighting bars front of house. These are labeled: FOH1 (closed to the stage); FOH2 (Mid of house) and FOH3 (rear of house).

On-stage we have 5 lighting bars that you may use for hanging lights **ONLY**. These are labeled: LX1 (front on stage), LX2, LX3, Spare LX Bar, LX4.

Bar circuit numbering is as follows (house left to right):

FOH1	Circuits 1 to 10 on the bar. Plus 4 spare sockets numbered 80 to 83. Circuit 65 for hot power.
FOH2	Circuits 11 to 16. Circuit 66 for hot power.
FOH3	Circuits 17 to 22. Circuit 67 for hot power.
LX1	Circuits 23 to 30. Circuit 69 for hot power.
LX2	Circuits 31 to 38. Circuit 70 for hot power.
LX3	Circuits 39 to 46. Circuit 71 for hot power.
Spare LX	No sockets. Circuit 72 for hot power.
LX4	Circuits 47 to 50. Circuit 73 for hot power,
Truss	No Sockets. Circuit 72 for hot power (pared with LX4).
Gallery	Circuits 74 to 79.
Dips	Circuits 59 to 64. Circuit 68 for hot power.

Deleted: .

The sockets on the bar are 15A outlets. These are defaulted to dimmed However we do have at least one (typically 3) powercon B connectors that are defaulted to switched hot power.

Standard Rig

Our standard rig should be restored after every use. The latest version of the standard rig will be provided in the centre. But any questions should be directed to the technical contact above.

RIVERSIDE ARTS CENTRE

Fixture stock.

RAC keeps a stock of lighting fixtures that you may use as you wish. We have the following stock. This may not be an exact stock, but should be near correct. This stock is for both venues.

Manufacture	Model	Wattage	Lamp	Est. Quantity
Strand	Cantata F	1200w	T29	4
Strand	Cantata PC	1200w	T29	11
Strand	Cantata 26/44	1200w	T29	2
Strand	Prelude 28/40	500w	GY9.5	4
Strand	Quartet F	600w	T26	2
Strand	Prelude F	500w	GY9.5	2
Quartz Colour	Polaris	1000w	CP40	7
Strand	Coda4	1000w	K4	4
Strand	Patt 123.	500w	T24	2
ETC	SourceFour Jr Zoom 25/50	575w	HPL575	3
ETC	SourceFour 19 ^o	750w	HPL750	4
ETC	SourceFour LED 36 ^o	135.9w	LED Source	3
ETC	SourceFour LED 26 ^o	135.9w	LED Source	3
ETC	SourceFour LED 19 ^o	135.9w	LED Source	3
ETC	SourceFour LED Series 2 Fresnels	168w	LED Source	3
ETC	Desire D40 Tungsten	110w	LED Source	1
Chauvet	ColorADO Quad 1 Zoom Tour	124w	LED Source	5
Generic	Par 64 Short Nose	1000w	CP62 or CP61	4
Strand	Harmony F	1000w	T11	1
Strand	Patt 23	500w	T24	2
ETC	Seledor Ice 11"	144w	LED Source	9
ETC	Seledor Fire 11"	144w	LED Source	4
ETC	Seledor Vivid-R 11"	144w	LED Source	1
ETC	Seledor Lustr 11"	144w	LED Source	1

Gobos

We do also have a stock of GOBOs that you may use. We do however ask that they are returned. We keep a mixture of B Size and M Size gobos.

We have holders for Cantatas, Preludes, SourceFour LEDs and SourceFour Jr Zooms

Gels

We do not keep gels in stock, so we ask that external shows bring their own in. We do have frames for our fixtures.

Cables

We keep an assortment of cables in stock for your use. These include Powercon and 15A TRS.