



Allen & Heath  
GLD Digital Audio Console

## Technology resources for your shows & events.

Resource Stage News is a service publication of Horizon Solutions. This newsletter exists to assist schools, churches, theatres and amateur technicians to learn and keep connected to industry leading technologies and techniques.

An extension of our Resource Stage seminars, this newsletter aims to keep you informed of new trends, pricing, specials and the latest industry news.

Have an idea for our newsletter? Contact us at 519-453-3368 or [info@resourcestage.ca](mailto:info@resourcestage.ca). We would enjoy to hear your feedback!

Horizon Solutions is a member of



Canadian Institute for Theatre Technology

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## For a "baby brother" it packs a pretty awesome punch!

There are lots of interesting things already happening this year. Shure has announced some interesting new mics that we're excited to get our hands on. And of course Allen & Heath's announcement about the new GLD audio console is awesome! We've been asking for something like this for 4 years now. Now I'm not sure that we can take much credit for it actually happening, but we're happy none the less.

We would love to see everyone come out on March 6th to see the new Allen & Heath console face to face. I think that a number of our clients are really going to enjoy the concept, form factor and price.

### The circus is coming to town!

If you have never seen a **Cirque Du Soleil** show you don't know what you're missing. Sure it sounds extremely cliché however this time there really is truth in the over used phrasing. Cirque is a Canadian artistic and technical treasure. Even if you have absolutely no interest in Cirque's artistic design and style the

technical aspects of their shows make the ticket price worth every penny.

This May 17th Cirque Du Soleil will be back in London at the John Labatt Centre performing the show, DRALION. Horizon Solutions and Resource Stage invite you to join us to see this show. We have arranged level 100 group tickets at \$65 each including all taxes and service charges.

Tickets are limited and this is a limited time offer through the JLC. Contact us to reserve your tickets.

### Vocal Microphone Shootout

Our vocal microphone shootout is scheduled for April 10th @ 7pm here in London. This is going to be an interesting evening. Forget what you know about your favourite mics and come listen. We'll have some old favourites and some you've probably never heard before. Two vocalists, a bunch of mics and your ears. Come join us.

# Horizon

SOLUTIONS

audio - lighting - video

## Opportunities are coming.

We like to provide our clients with opportunities to experience more when it comes to theatre. This year we have two interesting opportunities for you. Special discounted Cirque Du Soleil tickets and the CITT conference. Watch for more info to come!

### JOIN US TO EXPERIENCE CIRQUE DU SOLEIL IN LONDON



**MAY 17th 2012 @ 7:30PM**  
**\$65 per person**  
(price includes all taxes and service charges)

Special group pricing available through Horizon Solutions.

Contact us to reserve your tickets. Limited time only!



**Annual National Conference**  
 London, ON  
 August 14th - 18th 2012

**The Canadian Theatre Industry is coming to London this summer.**

**You are invited too.**

**You should come.**

**Mark it in your calendar.**

(more information to follow)

# Not all bulbs are created equal

## Theatrical Bulbs can be more confusing than they should be.

The time has come, you need to replace the bulbs in your stage lighting fixtures. So what are you going to do? You need to make sure you get the right bulb, that much you know but how do you tell which one is right?

Here are some quick tips to help you find the right bulb.

1) **ANSI CODE** - Check for an ANSI code. Normally three letters the ANSI Code number is the first clue to which bulb you need. You should find this on the base of the bulb.

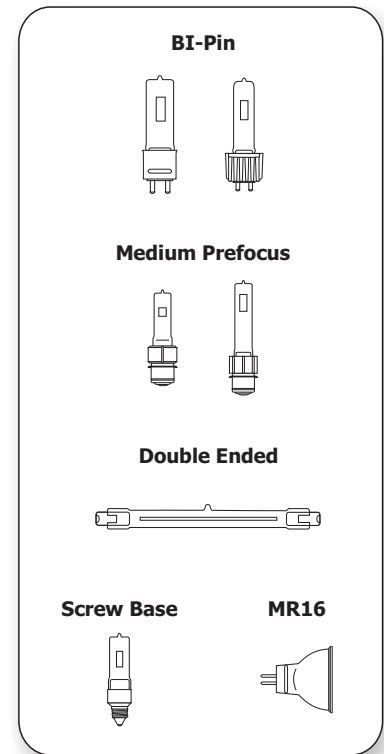
2) **Check the BASE** - There are five different bases found on most theatrical bulbs. Bi-Pin (most ellipsoidals, Lekos, Source4 fixtures), Medium Prefocus (most theatrical fresnels and some older ellipsoidals), Double Ended (cyc lights and some moving lights), Screw Based (usually older Colortran Mini's), and MR16 (which is really not just a base category as much as a completely different kind of bulb used in small moving lights, blinders and some followspots).

3) **WATTAGE** - There are lots of different wattages. It's important to know what the maximum allowed wattage is for your fixture. Just because a 1000W bulb fits doesn't mean you should use it. If a light fixture is approved for use in Canada (CSA approved) then it will have a maximum wattage marked on a label, somewhere on the fixture.

4) **VOLTAGE** - Some bulbs are available in various voltage models. Normally any voltage between 110V and 130V. But what does that mean? Well, a 110V bulb will be nice and bright when you're feeding it with 120V of power. But it will not last nearly as long as the manufacturer suggests it will last. A 120V bulb feed with 115V will last longer than spec, but not be quite as bright. This helps to explain why sometimes you have two fixtures, both have the same ANSI code and the only difference is the voltage. One fixture is brighter (or dimmer) than the other.

5) **COLOUR TEMPERATURE** - Every bulb should have a colour temperature rating. If you're not familiar with the concept of colour temperature the easiest way to think of it is like this. What colour is white? Is white more amber or more blue? A typical colour temperature for a theatrical bulb is 3200 K (Kelvin) although there are other colour temperatures available depending on the bulb you have. It's a good idea to know what you have, but if you didn't purchase the original bulb, it can be hard to tell which one you have. Keep in mind that the colour temperature of the bulb you choose can have an affect on the lamp life. Higher colour temperatures typically results in low hours.

6) **LAMP LIFE** - So, you have gone through everything else and you think you have the right



bulb. Have you considered the lamp life? The estimated life of a bulb is typically indicated by the manufacturer, however it's good to know what factors impact lamp life. We already mentioned Colour Temperature and Voltage. But you need to keep in mind that fixture focus position can have an impact. That's not something you really can do much about when you are buying the bulb, but it is something to keep in mind when you're wondering why a bulb is not lasting as long as you had hoped.

So there you go. You're set. So when the time comes call us and we'll help you find the bulb you need.

### Horizon Solutions keeps good stock of lots of different bulbs.

If we don't have it in stock we can probably get it. Go ahead... try and stump us!

Stock bulbs include but are not limited to:

BTL	HPL750	DYS	EVR
BTN	HP600	CYX	ENX
BTR	GLC	BWM	FCM
FEL	GLA	FRK	FRK
FLK	FCM	EGG	FMR
HPL375	Hx400	EHG	JDR
HPL575	Littlite	EHD	and more...

# RENTAL solutions

## Just the right effect you're looking for!

Our rental inventory continues to grow here at Horizon Solutions.

There are some cool things like BIGGER Brighter projectors and Dry Ice Machines, but the one that we think is most interesting is the Roland VR3.

This little Audio / Video mixer will allow you to stream your event to the internet easily and without huge expense. Rent it for \$60/day or \$90/weekend. A great way to open up your audience.

Contact Paul Walker at 519-453-3368 or paul@horizonsolutions.org

## DRY ICE EFFECTS, THERE IS NOTHING ELSE LIKE IT

rent a Dry Ice Machine  
\$60 /day  
\$120 /week  
\* price does not include Dry Ice \*



rent a Sanyo PLC-XP150  
6000ANSI Lumens  
XGA Projector  
\$300 /day  
\$600 /week

## STREAM YOUR NEXT EVENT ONLINE

rent a Roland VR3 AV Mixer  
\$60 /day  
\$120 /week

Cameras also available for rent. Contact Paul @ Horizon for info.



## RENT A COMPLETE SOUND SYSTEM

- 2 x 1000W Speakers
- 1 x 1000W Subwoofer
- 1 x 14 Channel Mixer
- 1 x dual 31 Band EQ
- 1 x CD/Cassette deck
- 2 x speaker stands
- all required cables
- \$175 /day
- \$350 /week



rental equipment may not be exactly as shown

## Technology Tips... Did you know?

### Roll it off... just push the button and roll it off!

A common issue found in live sound situations is low frequency build up or rumble. Although the issue and the corresponding fix can sometimes be complicated, often the fix is really simple. Just push the HPF button.

**HPF** stands for High Pass Filter. Essentially what that button does is allows audio higher than the designated frequency to pass through the channel strip. Any frequencies below the predetermined frequency are "rolled off". On many consoles, like the one in the picture here, the HPF is predetermined at 100Hz. Engaging this filter helps to cut the low frequency content introduced from other sources (ie drums, bass guitar, HVAC system) that would result in degradation of the sound. Think about it. How many instruments or vocals in your system are really using frequencies that low? Not too many. Activate those HPF buttons and listen to see what happens. Let us know if it helps clean up your sound.



1-800-698-8796

info@horizonsolutions.org

## GEAR THAT'S GOT OUR ATTENTION

### Allen & Heath GLD Digital Audio Console



First there was the iLive. Then the iLive T Series. And now the GLD.

The iLive and iLive T are a little much for some of our clients. But the new GLD is designed to fit right into a very nice package at a very nice price.

32 Channels of DSP in a nice compact package... but not too compact, just right. The form factor and system design is perfect for many of our clients.

If you would like to be one of the first in Canada to see it come join us on March 6th at 7pm!

Allen & Heath GLD 24Channels  
**\$9850.00**

### Shure ULX-D Professional Digital Wireless



Shure's legendary quality and sound coupled with digital signal transmitters and receivers.

For over a decade the ULX system has been used in many churches & theatres. The ULX-D takes that platform to the next level.

Featuring 24bit digital audio, rechargeable batteries, network control, 256-bit security encryption on all audio channels. ULX-D is the next benchmark for wireless microphones in this class.

SHURE ULX-D WIRELESS  
**\$1495.00**

\*preliminary pricing with SM58\*

# GET THE MOST FROM YOUR MICS.

resource stage seminar  
March 13th / 14th 2012  
Microphone Techniques

Most people use microphones incorrectly.

Ok so that's a pretty bold statement. What we're getting at is that most people have a tendency to simply throw a mic in front of an instrument or vocalist and figure that they can get a "good sound" by adjusting the eq and using "gear".

Properly setting up the microphone, taking care to put it in the right place, pointed it in the right direction and at the right distance can have a huge impact.

That's what this seminar is all about.

## NEXT SEMINARS

MARCH 13th 2012 - LONDON  
MARCH 14th 2012 - SARNIA

### MICROPHONE TECHNIQUES

#### 2011/12 Seminars

- Mar 6th - LONDON - Allen & Heath GLD Product Demonstration
- Mar 13th - LONDON - Microphone Techniques
- Mar 14th - SARNIA - Microphone Techniques
- Apr 10th - LONDON - The Vocal Microphone Shoot Out
- May 17th - LONDON - Cirque Du Soleil - Dralion - Call for info

sign up at [www.resourcstage.ca](http://www.resourcstage.ca) to receive emails about the next Resource Stage seminar - \$5 @ the door - no registration required



Get connected to industry leading technology and techniques.

Audio, Lighting & Video Seminars for Amateur Technicians

Resource Stage seminars are an opportunity for the part time technician, teacher or theatre enthusiast who wants to learn more about the technical aspects of shows and events.

We encourage all participants to come with their questions and real life experiences to add to the discussion forum.

Each month we discuss and explore the latest technology and techniques as presented by industry professionals.

# USED GEAR

SANYO PLC-XU106  
4500ANSI Lumens XGA  
**\$1400**



VIVITEK D525ST  
2600ANSI Lumens XGA  
**\$475**



SANYO PLC-XW200  
2200ANSI Lumens XGA  
**\$450**



ALLEN & HEATH PA20-CP  
16 CHANNEL POWERED MIXER  
**\$900**



ROLAND M300 DIGITAL AUDIO MIXER SYSTEM  
32 Channels over two stage boxes



**\$7750**



**\$1999**



AVIOM PERSONAL MONITOR MIX KIT  
2 Mixers & 1 Line Input Device

LUMI  
36W LED PAR  
**\$200**



SHURE BOUNDARY  
MICROPHONE  
**\$150**  
\* requires preamp



AMDJ MOVING MIRROR  
EFFECTS LIGHT



**\$195**

## Horizon

SOLUTIONS  
audio - lighting - video

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