Student Technology Fee

Grant Proposal

2008.008

2007-08

Dr. Jim McCrory

Approved Denied

Comment: _____

Diana Hamilton

Approved Denied

Comment: _____

Gary Gatch

Approved Denied

Comment: _____

Mike McDonald

Approved Denied

Comment: _____

Dale Martin

Approved Denied

Comment: _____

FF 2008.008

# Student Technology Fee
# Grant Proposal Request Form
# Fiscal Year 2007-08
# Northwestern State University of Louisiana

## ALL BLANKS MUST BE FILLED COMPLETELY

Prepared by: Robert Graham For: Priority 4 66

Department/Unit: Theatre/CAPA College: Liberal Arts Campus: Natchitoches

Which NSTEP Goals/Objectives does this project meet? 1, 2, 6, and 8

Requested equipment will be located/installed/housed? Building 025 Room 100

Are department property policies and procedures in place for requested equipment? Yes

Which individual will be responsible for property control of the requested equipment? Robert Graham

Signature: Robert Graham Date: 10/31/07

Grant Proposal Requested Amount: $ 11,283.66 Budget Attached (circle one): YES/NO

Grant delivered to Student Technology located in Watson Library, Room 113. Date _____

**The grant proposal must include all specifications, description, model number, quotation, cost, state contract number, and vendor for each item. If the proposal does not include all requested information, it will be retuned to requestor.**

1. Describe target audience.

This lighting control system, and utilized by, the faculty and student body of the Theatre Department. Technical/Design Concentration students and faculty will have the majority of hands on use with the system. Dance and Acting/Directing students and faculty will have the ability to expand their creative visions through use of the system.

2. Describe project/initiative for which you are requesting funds.

The project is to upgrade the lighting controller in AA Fredericks theatre to a system which is appropriate for use with technologies procured in an earlier Student Technologies grant received by the Theatre Department.

By upgrading to a controller appropriate for use with the moving light systems, students will be able to more effectively apply those technologies to their design wok. Further, this will allow the system currently in use to be transferred to Theatre West, with the Theatre West controller moving into the Loft Theatre, which will improve the artistic ranges in all three spaces.

The equipment specified for this project is industry-standard, which will enhance the students' opportunity to train with such.

3. State measurable objectives that will be used to determine the impact/effectiveness of the project.

A. Improve the Theatre Curriculum and improve the technology available for student learning and research work.

B. Improve our students educational experience and skill set in order to enable them to compete in the modern Graduate School and workplace environments.

C. Increase the recruitment and retainment abilities of the department through availability of resources found in the current workplace.

4. Indicate how each project objective will be evaluated.

A. We shall evaluate how the system is used in productions and as part of classroom projects. We will also get feedback from the general student body and general population that attend productions and events in which the system is used.

B. Design and Technology students go through a regular portfolio review process where experience with the technology shall be evaluated through their presentations. In addition recently graduated students often return feedback on their ability to successfully gain employment or graduate student positions.

5. If funded, which NSTEP http://www.nsula.edu/nstep/NSTEP.pdf objective(s) will this funding of this project advance. How will funding of the project advance the University and College/unit technology plan?

1. To improve access to technology by students, faculty, and staff at Northwestern State University.
This system will give students and faculty access to equipment specialized for their educational and research needs.

2. To provide classrooms with updated technology and multimedia.

Classes in the Department of Theatre are not contained in a standard classroom, but bridge outwards to incorporate our performance and rehearsal spaces. This system will give the students and faculty the opportunity to use industry standard moving light controller applications over the course of their academic and artistic coursework.

3. To provide a system for maintenance, upgrade, user training, and support of technology that will extend into the future.
All Design/Technical staff, faculty, and students will be trained on how the system operates, what functions require maintenance, and how to plan for maintenance to ensure continuous effective use throughout the life of the system. These concepts shall prove valuable to any future systems that replace this system at the end of its useful life span.

4. To encourage innovation and research.
Having this will provide students of design the opportunity to more effectively, and with current industry standards integrate the more advanced moving light fixtures (obtained with a previous grant) apply lighting design techniques to their course and production work. By providing an andvanced outlet for exploration and practice of their respective arts, the students will be more capable of producing high quality work, and for the professional world upon their graduation.

6. Provide a justification for funding of this project. Estimate the number of student that will be served per academic year and in what ways. Please indicate also any unique needs of the target group.
This project will have a visible and remarkable impact upon the Department, the University, and the surrounding region in many ways:

A. Teaching the student body to use modern theatre technology in existing and experiemental ways
B. Improving the quality of productions available on campus for both the student body and citizens of the surrounding regions
C.Improving the quality and scope of student portfolios that are vital to their success after graduation
D.Improves upon our ability to recruit and retain students

Approximate number of students served per academic year, with the assumption that 3 production shall utilize the system in a single academic year:
Students working on a production - 80 per production, 240 per year
Students attending a production - 1000 per production, 3000 per year

7. List those individuals who will be responsible for the implementation of the project/initiative and indicate their demonstrated abilities to accomplish the objectives of the project.
Robert Graham - MFA Lighting Design - Facilities Manager/Production Manager/Lighting Designer

8. Describe any personnel (technical or otherwise) required to support the project/initiative.
No additional staff or faculty are required for this project to succeed.

9. Provide a schedule for implementation and evaluation.
March 2008 - order equipment
May 2008 - all equipment received and configured
June 2008 - Equipment ready to be field tested and evaluated. Any configuration changes necessary shall be reported to Student Technology
July 2008 - If necessary confirm that any changes were successful

10. Estimate the expected life of hardware and software. Explain any anticipated equipment/software upgrades during the next five years.
No hardware upgrades shall be necessary within five years, with the exception of expendable items such as storage media for data. Expendable items shall be covered by the Department of Theatre & Dance annual budgeting process.

Typical expected life-cycles for the lighting portion of the system is an average of 12-15 years with properly scheduled maintenance.

Software upgrades will only be necessary if bugs are found in the system. The developer of the lighting control software has thus far released all such upgrades for free. Depending on system configuration these upgrades may be capable of being handled without any impact outside of the Department of Theatre.

11. Explain in detail a plan and policy that will be in place to ensure property security/controls for any equipment received through a Student Technology Fee.
If you are requesting equipment that will be either/or checkout to students or moved within the department, you must provide a checkout/loan policy.
The components of the system shall be located in a secure control booth location in the AA Fredericks Auditorium. The system shall be protected by a UPS (uninterruptible power supply) that will protect the system from power surge and sag, and provides voltage regulation. In the rare occasion that any portion of the system is required in one of our other theatre spaces Movable Properties paperwork shall be utilized to document and control the movement of the equipment, and care taken to ensure the security of said components.

Appendix A: Budget

| Quantity | Item | Description | Vendor | Price | Subtotal |
|---|---|---|---|---|---|
| 1 | Congo Jr Package | Includes following 2 items | Texas Scenic | $10,800.00 | $10,800.00 |
| | Congo Jr 1500 | Lighting Control Console | Texas Scenic | | $0.00 |
| | Playback Wing | Controller for Congo Jr | Texas Scenic | | $0.00 |
| 2 | LG L1953TX-BF | 19" DVI LCD Monitor | New Egg | $219.99 | $439.98 |
| 2 | DVI Cables | 6' Male to Male DVI cable | New Egg | $4.99 | $9.98 |
| 1 | Shipping | Shipping for New Egg orde | New Egg | $33.70 | $33.70 |
| | | | | | **$11,283.66** |

Texas Scenic Co.
Theatrical stage equipment that stands behind a professional performance.

210-684-0091 • 800-292-7490 • Fax 210-684-4557
Mail: P.O. Box 680008
San Antonio, TX 78268-0008
Ship: 5423 Jackwood Dr.
San Antonio, TX 78238

# Fax

To: Northwestern State University From: Gary Henley

Attention: Shawn Parr Date: October 31, 2007

Re: Lighting Equipment Pages: 1

TSC is pleased to quote you on the following stage lighting control equipment.

One (1) ETC Congo Jr Control Console

One (1) ETC Congo Jr Playback Wing

Total Price $ 10,800.00

Price is exclusive of any taxes, installation and on site training.

Price includes freight to your facility.

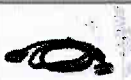
If you have any questions, please feel free to contact me at 800-292-7490.

Thank you,

Gary Henley
VP – Marketing
Texas Scenic Company

## Shopping Cart

Print

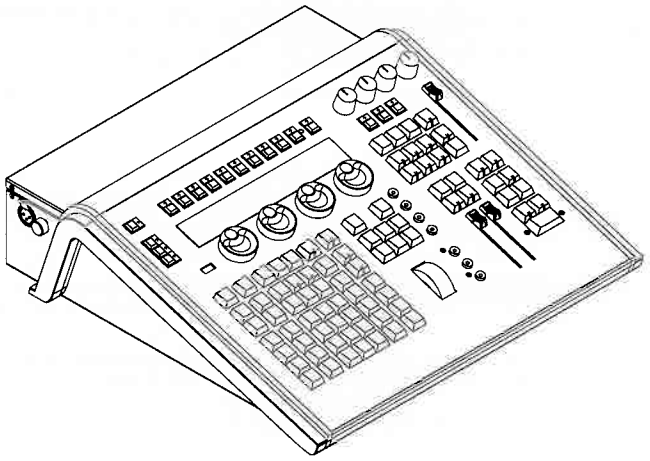
| Qty. | Product Description | Savings | Total Price |
|---|---|---|---|
| 2 |  OKGEAR 6 ft. DVI DIGITAL DUAL LINK CABLE,Black Model GC6DVI2 - OEM<br>Item #: N82E16812123143<br>Return Policy: Standard Return Policy | | $9.98 |
| 2 |  LG L1953TX-BF Black 19" 5ms DVI LCD Monitor - Retail<br>Item #: N82E16824005095<br>Return Policy: [LCD] Limited Non-Refundable 30-Day Return Policy<br>Select An Optional Extended Warranty Plan | -$10.00 Instant | $419.98 |
| | | Subtotal: | $429.96 |
| **Calculate Shipping**<br>Zip Code: 71457 UPS Guaranteed 3 Day Service -- $33.70 | | Shipping: | $33.70 |
| **Redeem Gift Certificates**<br>Claim Code:<br>Security Code: | | Gift Certificates: | $0.00 |
| **Apply Promo Code** | | Promo Code: | $0.00 |
| This cart qualifies for No Payments for 90 days with Bill Me Later® | | | |
| | | Grand Total: | $463.66 |

Print

# ETC

# Congo™ jr

## The Congo Series



### GENERAL INFORMATION

**Full-featured modular console for control of conventional and moving lights, media servers and LEDs with preset operation, track editing functions, theatrical-style crossfader playback and full network capabilities. Optional fader module and wings allow you to customize the playback facilities of your Congo jr control system.**

**APPLICATIONS**
- Theatre
- Television Studios
- Houses of Worship
- Touring
- Concerts
- Corporate Theatre
- Special Events

**FEATURES**
- 6144 Outputs/Parameters (12 Universes of DMX512)
- 3072 Control Channels
- Main Playback crossfader pair for theatrical-style sequence
- 4 Encoders and ML/Softkey LCD display
- High-density channel display with formats for channel sorting
- Channel Layouts for topographical views of channels
- Live Attributes display for spreadsheet view of moving lights
- List Views and Editors for Presets, Groups, Palettes, Sequences
- Dynamic Effects
- Integrated Electronic Manual and Help system
- Mouseless Navigation for tabbed graphical displays
- Integral Alphanumeric keyboard for labeling
- MIDI In/Out
- Audio In/Out
- ACN, ETCNet2, Avab and ArtNet network protocols
- Show Import via ASCII (Safari, Expert, Pronto, Presto Strand 500, Express/ion, and Emphasis)

**ACCESSORIES**
- 20-Fader Module*
- 2x10 Fader Wing*
- 2x20 Fader Wing*
- Congo jr Master Playback Wing
- Monitor Bracket
- Alphanumeric Keyboard
- USB Mouse
- Gooseneck Lamp
- Flightcase

*Not available in first release.

### ORDERING INFORMATION

#### Congo jr

| Model # | Description |
|---|---|
| CGOJR | Congo jr Console, 1024 Outputs |
| CGO256 | Congo Output Upgrade, 256 Outputs |
| CGOCL | Congo Client Software Kit |

*Important Congo Ordering Information

Congo jr is offered as a base console with 3072 control channels and 1024 outputs (2 universes of DMX512). A single control channel may control only intensity (dimmers) or it may control a DMX-controlled device (moving light, media server, etc.)

To increase the capacity of the console, order additional 256-output upgrades. For example, to take the console to its maximum output count, order a console and twenty (20) 256-output upgrades.

1025 outputs + (20x256) = 6144 outputs (12 universes of DMX512)

Two universes are available at the console via 5-pin XLR, or all universes may be distributed via ETCNet2 DMX Nodes or Net3 DMX/RDM Gateways. Network equipment must be purchased separately from the console.

#### Congo jr Accessories

| Model # | Description |
|---|---|
| FADM 1x20 | Fader Module 1x20* |
| FADW 2x10 | Fader Wing 2x10* |
| FADW 2x20 | Fader Wing 2x20* |
| MASTERWING | Congo jr Master Playback Wing |
| RRFU-CGO | Radio Remote Focus Unit (Congo) |
| CGOJR Littlite | Congo jr Littlite® Worklight (90° connector) |
| CGOJR Flightcase | Congo jr Flightcase |
| MBRACKET | Monitor Bracket |

*Not available in first release.

**Congo Offline Editor software is available for download from www.etcconnect.com**

## SPECIFICATIONS

**SYSTEM CAPACITY**

- 6144 Outputs/parameters
- 3072 Control Channels
- 9999 Presets
- 4x999 Palettes (Focus, Color, Beam, All)
- 999 Groups
- 999 Macros
- 999 Sequences
- 999 Master Pages
- 999 Dynamic Effects Templates
- Single VGA monitor, optional video card upgrade for up to 2 DVI/VGA monitors
- Hard Disk
- USB ports for USB Flash drives, pointing devices, keyboards

**DISPLAY FUNCTION**

- Tabbed, mouseless navigation of graphical screens
- All show data may be viewed on a single monitor
- Tab layouts may be recorded to direct selects for quick recall
- Browser
  - File Management
  - Show Data lists
  - Patch displays and functions
  - Help
  - Images
  - Movies
- Channel Displays
  - Live, Blind, Preset, Sequence and Group Editors
  - High-density views of channel data
  - Format allows user to choose a packed, Flexichannel-style view of channels
  - Zoom allows user to define how many channels are viewed
  - Current direction of fade and preview of next intensity move
  - Color-coded intensity levels indicate source of HTP winner
  - FCB indicators of changed or moving data
  - Channel number color indicates intensity-only or moving light channels
- Channel Layouts
  - 999 Channel Layouts
  - User-defined topographical view of channels
  - May include other types of data – Presets, Palettes, Groups, etc.
  - Auto-selectable (visible layout changes based on current channel selection)
- Attribute Displays
  - Live Attributes with Formats to display current rig status
  - Parameters may be edited directly in the Live Attributes tab
  - Attribute Views in editors for viewing and editing parameter and time/delay data
- List Views
  - High-density view of recorded data
  - Group, Focus Palettes, Color Palettes, Beam Palettes, All Palettes, Preset, Sequence, Dynamic Effects, Master Page, Template list views
  - Apply text labels to show data
  - Access Editor displays from list views
- Editor Views
  - View and edit show data within editor views
  - Group, Focus Palettes, Color Palettes, Beam Palettes, All Palettes, Preset, Sequence, Dynamic Effects, Master Page, Template editor views
  - Multiple Editor views may be open at the same time
- Patch Views
  - Channel List
  - Output List
  - Device Settings
  - Output Editor
  - Channel Database for applying up to four labels to each channel (text may be imported from any column-delimited text file)
  - Patch Wizard for clearing the patch, importing Templates, range patching and "next available" device patching
- Playback Views
  - Main Playback view
  - Connected Master Playback view
  - Timeline view of current crossfade progress and preview of next crossfade

**PLAYBACK CONTROLS**

- Main Playback crossfader pair for theatrical-style sequence
- Connect key for use of the Main Playback with Master Playbacks
- Manual or timed fade control
- 999 Sequences (standard mode triggered by "Go" or chaser mode)
- Grandmaster Fader
- Blackout/On/Freeze rotary switch

**MOVING LIGHT CONTROLS**

- 4 Encoders with integral switch
- Encoder labeling in integral LCD display
- Focus, Color and Beam encoder mapping
- 14 Direct Select keys
- Dynamic Group selection and Autogroups
- Highlight

## SPECIFICATIONS

**INDEPENDENT SECTION**

- 3 rotary faders
- 3 switches with LED indicators
- May contain any channel data, including ML attributes
- Switches may be assigned latch or momentary operation
- All may be assigned inclusive, inhibitive or exclusive operation

**PROGRAMMING PAD FEATURES**

- Channel Functions
  - Selection Lists constructed with CH/ID, +, -, THRU
  - Levels set with level wheel or @ LEVEL key
  - Assign Palettes and Dynamic Effects quickly
- Preset Functions
  - Record and Update
  - Apply Timing
  - Fetch and select data based on recorded presets
- Sequence Functions
  - Create and assign sequences to the main playback
  - Insert and edit steps
  - Apply step timing
- Group Functions
  - Create and edit Groups
  - Select channels and set levels using Groups
- Palette Functions
  - Create and edit Palettes
  - Assign Palettes to selected channels
- Dynamic Effects Functions
  - Create and edit dynamic effect templates
  - Assign dynamic effects to selected channels
  - Modify running dynamic effects
  - Insert running dynamic effects into the library
- Electronic Manual and Help system
  - Create and store synonyms
  - Add notes/comments to electronic manual
  - Create favorites

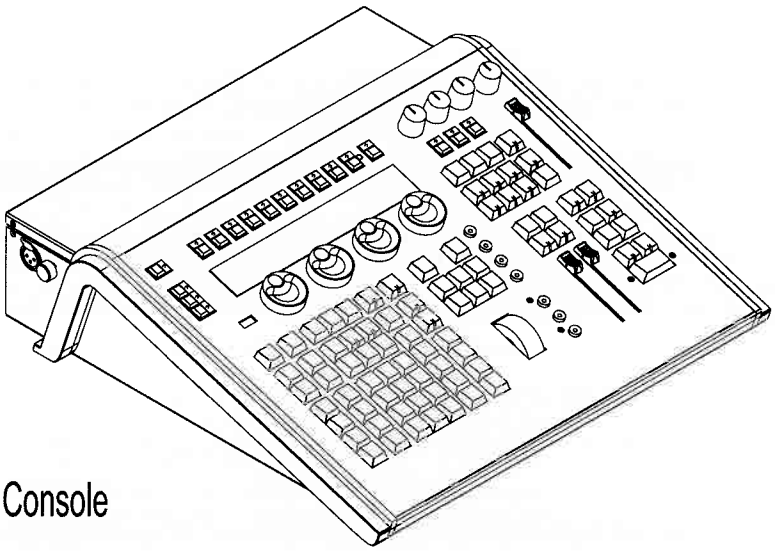
**INTERFACES**

- 2 DMX512 Ports (RDM Ready)
- Ethernet (ACN, ETCNet2, Avab and ArtNet network protocols)
- Contact Closure triggers through D-Sub connector
- USB Multipurpose bus (3 ports)
- Phone Remote
- MIDI In/Out (MIDI Timecode, MIDI Show Control)
- Audio In/Out

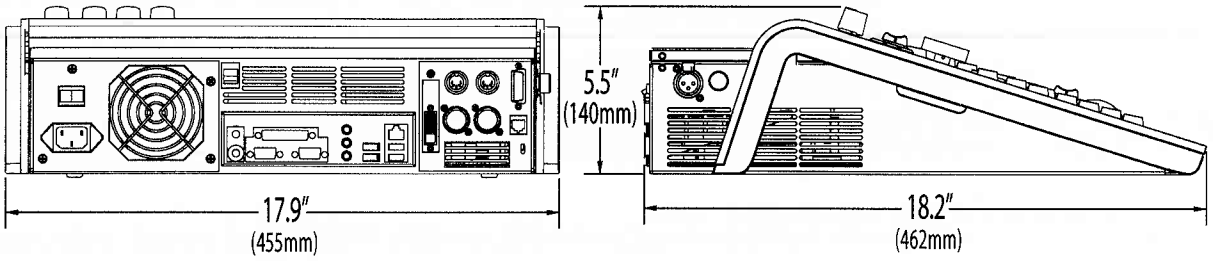
# Congo™ jr

## The Congo Series

### PHYSICAL



Congo jr Console




### DIMENSIONS

#### Congo jr Dimensions

| Model | Height | | Width | | Depth | |
|---|---|---|---|---|---|---|
| | inches | mm | inches | mm | inches | mm |
| Congo jr | 5.5 | 140 | 17.9 | 455 | 18.2 | 462 |

### WEIGHTS

#### Congo jr Weights

| Model | Weight | | Shipping Weight | |
|---|---|---|---|---|
| | lbs | kgs | lbs | kgs |
| Congo jr | 20.35 | 9.23 | 23.38 | 10.61 |

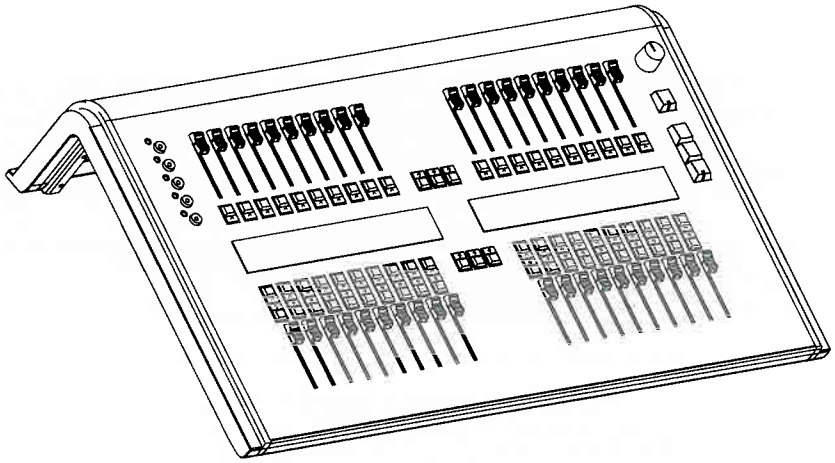
**Corporate Headquarters** ▪ 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA ▪ Tel +1 608 831 4116 ▪ Fax +1 608 836 1736
**London, UK** ▪ Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK ▪ Tel +44 (0)20 8896 1000 ▪ Fax +44 (0)20 8896 2000
**Rome, IT** ▪ Via Ennio Quirino Visconti, 11, 00193 Rome, Italy ▪ Tel +39 (06) 32 111 683 ▪ Fax +39 (06) 32 656 990
**Holzkirchen, DE** ▪ Ohmstrasse 3, 83607 Holzkirchen, Germany ▪ Tel +49 (80 24) 47 00-0 ▪ Fax +49 (80 24) 47 00-3 00
**Hong Kong** ▪ Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong ▪ Tel +852 2799 1220 ▪ Fax +852 2799 9325
**Web** ▪ www.etcconnect.com ▪  4320L1001 Rev. A Printed in USA 09/06

# ETC

# Congo™ jr Master Playback Wing

100V 115/120V 230/240V

## Congo jr Series



## GENERAL INFORMATION

Compatible with the Congo jr console, the Master Playback Wing offers 40 pageable faders for control of Congo Master Playbacks. The Master Playback Wing can be mounted directly to the Congo jr console on either side, or may be operated stand-alone connected to the console via a USB cable.

**FEATURES**

- 40 45mm Master Playback faders
- 40 Master Keys
- 20 Bump Keys
- Each grouping of 20 Master Playbacks has an LCD for labeling of content
- Compatible with Congo jr consoles and the Congo Light Server
- Direct mount to console or stand-alone
- Connection to console via USB

## ORDERING INFORMATION

### Congo jr Master Playback Wing

| MODEL | DESCRIPTION |
|---|---|
| MASTERWING | Master Playback Wing |

# ETC

# Congo™ jr Master Playback Wing

## Congo jr Series

## SPECIFICATIONS

- 40 45mm Master Playback faders
- 40 Master Keys
- 20 Bump Keys
- Each grouping of 20 Master Playbacks has an LCD for labeling of content
- Compatible with Congo jr consoles and the Congo Light Server
- Direct mount to console or stand-alone
- Connection to console via USB

### INTERFACES

- USB Multipurpose bus

## PHYSICAL

### Product Dimensions

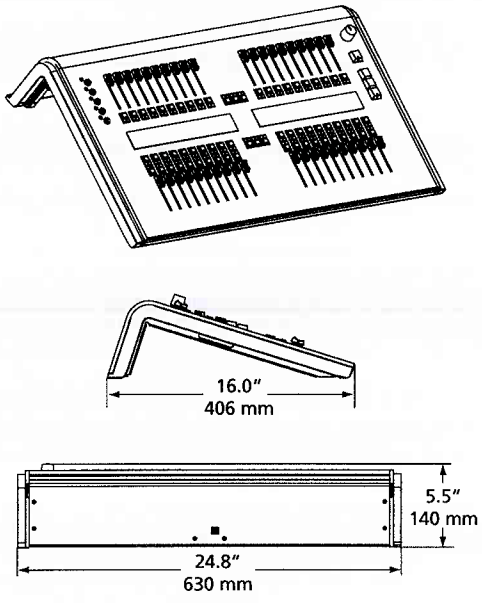
| MODEL | HEIGHT | | WIDTH | | DEPTH | |
|---|---|---|---|---|---|---|
| | inches | mm | inches | mm | inches | mm |
| MASTERWING | 5.5 | 140 | 41.7 | 1060 | 18.2 | 462 |

### Product Weights*

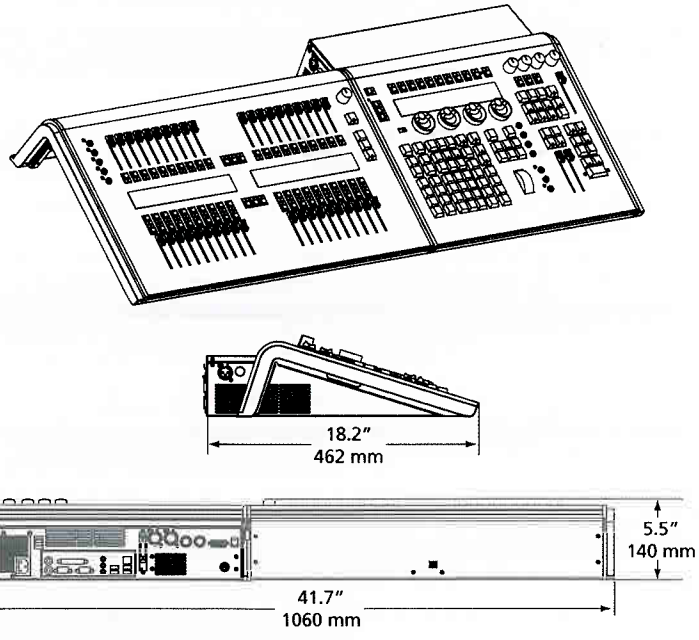
| MODEL | WEIGHT | | SHIPPING WEIGHT | |
|---|---|---|---|---|
| | lbs | kgs | lbs | kgs |
| MASTERWING | 16.80 | 7.62 | 20.05 | 9.09 |

*Weights and dimensions typical

Master Playback Wing




Congo jr Console with attached Master Playback Wing
(Wing may be attached to either side)

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**Web** • www.etcconnect.com •  4320L1002 Rev. B Printed in USA 07/07

**NORTHWESTERN STATE**
**UNIVERSITY OF LOUISIANA**
**Natchitoches, LA 71497**

**Mrs. H. D. Dear, Sr. and Alice E. Dear**
**School of Creative and Performing Arts**

| | |
|---|---|
| Music | (318) 357-4522 |
| Art | (318) 357-4483 |
| Theatre | (318) 357-5744 |
| FAX | (318) 357-5906 |


October 25, 2007

To Whom It May Concern:

Please consider this a letter of support for the Student Technology Fee Grant Proposal from Mr. Scott Burrell and Mr. Robert Graham on behalf of the entire theatre program.

The Student Technology Grant Fund has been extremely generous to the School of Creative and Performing Arts in the past and we are extremely appreciative of this support. With this thought in mind, I hope you will give serious consideration to funding the requests that are in the current proposal from the NSU Theatre.

All three of the proposals are important to the continued growth and improvement of our theatre program and they will help ensure that we are able to continue to attract the finest students and to provide the highest quality of performances.

It is will pleasure that I support this application and I hope you will give it every consideration.

Sincerely,

Bill Brent
Director, School of Creative and Performing Arts

**Office of the Dean**

The Graduate School

Telephone (318) 357-5851
FAX (318) 357-5019
E-mail: grad_school@nsula.edu
http://www.nsula.edu/graduateschool/

Northwestern State University
Natchitoches, Louisiana 71497

A Member of the University of Louisiana System

October 29, 2007

TO WHOM IT MAY CONCERN:

The Theatre and Dance department is submitting three projects to be funded through Student Technology Fee Grants. I concur with the need for the equipment and technology specified, and to the priority given the projects.

The first grant for consideration is for the renovation and upgrade of the Theatre Technology infrastructure for the Loft Theatre. By improving the theatrical lighting and sound systems, theatre students will have an improved facility to explore the various aspects of their training in a more laboratory-like setting. The addition and improvement of theses systems will bring the Loft Theatre fully online as an operational studio theatre. By providing this additional performance space, which the department plans to be used for the student-produced Second Season, the students will have a space that is more appropriate for students to 'experiment' with the theories and methods they learn in class than the two larger theatre spaces. Additionally, this will create a more appropriate classroom/laboratory for the lighting and sound design curriculum, which will improve the quality of instruction in those courses. Also, the addition of a third 'viable space' in the theatre department will improve our ability to host outside events on a small scale, which we have not been capable of doing in the past. Student organizations will now have A.A. Fredericks Theatre (1300 seats), Theatre West (95 seats) and the Loft Theatre (50 Seats) which could be used for meetings and events. This enhancement will not only improve the overall educational mission of the theatre program, but become a very attractive part of the department's recruiting capability. Very few programs nationally have 3 fully operational venues, and fewer yet have a space that is entirely dedicated to student use, as the Loft would be.

The second grant to be considered is a projection system for the A. A. Fredericks Fine Arts Building theatre facilities. The selected equipment will allows students to record video, play back video and still image projections, and playback multichannel audio sound effects, during theatre productions. This system will give Northwestern students an opportunity to work with equipment being used in their professional field in experimental ways. Installing and using this equipment will also allow the Theatre to recruit more students in the Design and Technology concentration

The third and final grant request is for an upgrade to the lighting control for A.A. Fredericks Auditorium to an ETC Congo Jr. Lighting Controller. The current lighting control system in Fredericks is and ETC Expression III lighting controller. In a past grant, the department received funding to add Intelligent/Robotic lighting fixtures for the facility. With the funding provided from that grant, the department was able to purchase 4 Varilite VL1000 light fixtures. This marked a vast leap forward in lighting technology. Unfortunately the control board, while capable of operating with these and other fixtures of this type, does not interface with the units in what would be considered an industry-normal manner, and forces students to learn non-standard programming techniques. By upgrading to a controller which is designed to interface correctly with these newer technologies, students will work with industry standard technologies and methods in their practical production and classroom work. Additionally, this would allow a 'trickle down' assignment of the controllers in Theatre West and the Loft, upgrading the control capabilities of those spaces at no additional cost. Having this technology available for student use improves a graduate's strength as they enter into the job market, and strengthens the department's ability to recruit students of design/technology, an area that the department would like to improve.

Thank you very much for your time and consideration of this grant proposal, and your continued support of the Northwestern Theatre & Dance program and the College of Liberal Arts.

Sincerely,

Steven G. Horton

Steven G. Horton, Ph.D.
Dean
Associate Provost