

# STAGE LIGHTING FOR THE SUSAN B. KATZ THEATER OF THE PERFORMING ARTS

**INVITATION FOR BID # RE-25-01** 

**Issuance of Solicitation:** 

Tuesday, January 21, 2025

Questions Due Date:

Monday, February 3, 2025

**Bid Submission Deadline:** 

Tuesday, February 18, 2025

THE CITY OF PEMBROKE PINES PROCUREMENT DEPARTMENT 8300 SOUTH PALM DRIVE PEMBROKE PINES, FLORIDA 33025 (954) 518-9020

For more information, please visit our online supplier portal, located at <u>https://procurement.opengov.com/portal/pembrokepines</u>



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### **SECTION 1 - NOTICE**

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

### IFB # RE-25-01

### Stage Lighting for the Susan B. Katz Theater of the Performing Arts

Solicitations may be found on the City of Pembroke Pines website under the Procurement Department at <u>http://www.ppines.com/index.aspx?NID=667</u>, and may be downloaded directly from the OpenGov platform at <u>https://procurement.opengov.com/portal/pembrokepines</u>.

**For Technical Support**, proposers can reach the OpenGov Service Desk between 7:00 am to 10:00 pm from Monday through Friday via the following methods:

- Chat (preferred method): Click the button in the lower right-hand corner of the portal.
- E-mail: procurement-support@opengov.com
- Phone: 1 (650) 336-7167

If additional help is needed with downloading the solicitation package please contact the Procurement Department at (954) 518-9020 or by email at <u>purchasing@ppines.com</u>. The Procurement Department hours are between 7:00 am to 6:00 pm on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, FL 33025.

Bidders shall submit all questions regarding this bid via the City's e-Procurement Portal, located at <u>https://procurement.opengov.com/portal/pembrokepines</u>. Please note the deadline for submitting questions. All answers will be posted on the City's e-Procurement Portal. Bidders may also click "Follow" on this bid to receive an email notification when answers are posted. It is the bidder's responsibility to check the portal for updates. Only written responses issued through the OpenGov platform will be considered official for interpretations or clarifications.

Proposals will be accepted until 2:00 pm on Tuesday, February 18, 2025, electronically at <a href="https://procurement.opengov.com/portal/pembrokepines/projects/136868">https://procurement.opengov.com/portal/pembrokepines/projects/136868</a>.

**<u>Bid Opening</u>:** The sealed electronic proposals will be publicly opened at 2:30 pm, on the bid due date, by the City Clerk's Office, in the <u>City Clerk's Office Conference Room located on the 4<sup>th</sup></u> <u>Floor in the Charles F. Dodge City Center/</u>City Hall Administration Building, located at 601 City Center Way, Pembroke Pines, Florida, 33025.

<u>Virtual Bid Opening</u>: In light of public health concerns and to ensure accessibility for all, the City encourages interested parties, vendors, and the public to participate virtually via live streaming instead of attending the meeting in person. As a result, meetings may be a combination of in-person and virtual, all as provided by law. To virtually attend the bid opening, please use the Cisco Webex Meetings platform.



### Virtual Meeting Details:

0	WebEx Meeting Link:	https://ppines.webex.com/meet/purchasing
0	Cisco Webex Meeting Number:	717 019 586
0	Join by Phone Number:	+1-408-418-9388

The public may download the Cisco Webex Meetings app from https://www.webex.com/downloads.html/.

To ensure an efficient meeting process, participants are requested to mute their audio and camera during the meeting. While the public is welcome to attend the virtual bid opening, please note that active participation and commenting will not be allowed during the proceedings.

For further information about the bid opening or assistance in accessing the virtual meeting, please contact:

Nicolas Rodriguez or other Procurement Staff in the Procurement Department City of Pembroke Pines 8300 South Palm Drive, Pembroke Pines, FL 33025 (954) 518-9020 Ext: 59021 or 954-518-9020 purchasing@ppines.com



### **SECTION 2 - GENERAL PROJECT INFORMATION & TIMELINE**

### 2.1 Project Timeline

The work shall be completed within **30** calendar days from issuance of the City's Notice to Proceed (NTP), with an estimated start date of **March 1, 2025**.

### 2.2 Tentative Schedule of Events

Issuance of Solicitation (Posting Date):	January 21, 2025
Pre-Bid Meeting (Non-Mandatory):	January 27, 2025, 1:00pm Pembroke Pines Charter High School - 17189 Sheridan Street Pembroke Pines, FL 33331
Question Due Date:	February 3, 2025, 11:00pm
Issuance of Final Answers to Questions:	February 6, 2025
Bid Submission Deadline:	February 18, 2025, 2:00pm
Bid Opening:	Will be held at 2:30 pm on the day of bid submissions are due.
Evaluations by Staff:	To Be Determined (TBD)

### 2.3 Non-Mandatory Pre-Bid Meeting/Site Visit

There will be a non-mandatory scheduled pre-bid meeting on Monday, January 27, 2025 at 1:00 pm. Meeting location will be at the Pembroke Pines Charter High School - 17189 Sheridan Street Pembroke Pines, FL 33331

- A. **Proof of Attendance:** Contractors may be required to sign in at any of the meetings to show proof of attendance. It is the vendor's responsibility to make sure that they sign in at the meeting.
- B. We will meet in the main office of Pembroke Pines Charter High School. Please remember to bring a valid driver's license for check-in, as you will be entering the school during regular school hours. There, a maintenance staff member will guide us to the theatre.



### 2.4 Follow-Up Pre-Bid Meeting(s)

**Follow-Up Meetings:** In the event that a contractor cannot attend the scheduled pre-bid meeting, or if a contractor would like a follow up visit to the site, they may request a site visit by contacting **Nicolas Rodriguez** at (954) 518-9020 Ext: 59021. We urge all contractors to attend the scheduled meeting, as a separate or follow-up meeting may not be afforded to the requester due to scheduling and availability of staff to assist with any additional meetings. In addition, if making a request for a separate or follow-up meeting, contractors are urged to make these requests as early as possible.

### 2.5 Estimated Project Cost

\$70,000

### 2.6 Grant/Federal Funding

Not applicable for this project.

### 2.7 Proposal Security/Bid Bond

A Proposal Security shall not be required for this project.

### 2.8 Payment and Performance Bonds

Payment and Performance Bonds shall not be required for this project.

### 2.9 Permit, License, Impact or Inspection Fees

With the exception of the City related permit, license, impact or inspection fees (including the Building Department and Engineering Department Permit Fees), which will be waived for this project, the City does not anticipate any additional permit, license, impact or inspection fees for this project. Any related State or County fees, for the aforementioned permits, will be paid by the City.

In addition, the City shall cover the cost for any other permit fees related to external entities through the City's Owner's Contingency for this project, therefore proposers should not include permit costs in their total proposal price.

Furthermore, please note the City's average time for a contractor to apply for and receive an approved permit is 30 days; delays in this timeline caused by the contractor's failure to actively monitor the permit process and submit all required documentation in a timely manner, will count against the project's contractual completion period.



### **SECTION 3 - PURPOSE AND BACKGROUND**

### 3.1 Purpose

The City of Pembroke Pines is seeking bids from qualified firms, hereinafter referred to as the Contractor, to provide an upgrade to the existing stage lighting system located at the Susan B. Katz Theater of the Performing Arts to an energy-efficient stage lighting system, in accordance with the terms, conditions, and specifications contained in this solicitation. This project involves upgrading the stage lighting system to high-performance, energy-efficient LED fixtures, with 50% of the dimmer cards replaced by constant-on modules. The goal is to improve lighting quality, flexibility, and color rendering while reducing energy consumption and maintenance costs. The scope includes equipment procurement, installation, testing, calibration, documentation, and both pre- and post-installation support. The upgrade will enhance brightness, special effects, and control capabilities, ensuring compatibility with existing dimming systems.

### 3.2 Background

Pembroke Pines, Florida, ranked as the eleventh largest city among the state's four hundred plus municipalities and the second largest in Broward County, maintains a welcoming small-town ambiance that resonates with its residents. Located conveniently in southwest Broward County, the city provides seamless access to major highways, employment centers, entertainment venues, parks, golf courses, and a diverse array of dining and shopping options.

With a population of approximately 170,000 residents spread across 32.68 square miles, Pembroke Pines is renowned as one of the best cities to live in America. The city boasts 28 superior parks, lush landscaping, and a distinctive South Florida charm that contributes to its natural beauty. Notably recognized as 2024's Best Place to Raise a Family in Florida, and 2024's Best City of Hispanic Entrepreneurs by WalletHub, Pembroke Pines also earned a place as the on Money Magazine's esteemed Best Places to Live list in 2014, as the sole Florida representative, ranking in at #32 in the nation.

Incorporated in 1960, Pembroke Pines is celebrated as a safe and desirable community, having received accolades such as the All-America City designation. The city's commitment to arts and culture, exceptional schools, diverse population, numerous parks, and forward-thinking approach in an ever-evolving world make it a standout destination.

Pembroke Pines is also the home to the largest municipal-run charter school system in the nation, serving over 6,000 students across five separate campuses. The City's award-winning charter school system is located in the Broward County School District, which is the sixth largest school district in the nation.



### **SECTION 4 - SCOPE OF WORK**

### 4.1 Project Overview

This project aims to upgrade the existing stage lighting system at the Susan B. Katz Theater of the Performing Arts by replacing it with energy-efficient, high-performance LED fixtures and replacing 50% of the dimmer cards with constant-on modules. The primary objective is to enhance the theater's stage lighting quality and flexibility while reducing energy consumption, lowering maintenance costs, and improving overall performance. This will be achieved through the supply, delivery and installation of a variety of LED stage lighting fixtures, tailored to meet different needs, such as spotlights, wash lights, moving heads, color-changing fixtures, and others.

The theater currently has a working incandescent stage lighting system with an accessible catwalk supplied by a raceway electric strip with 20 Amp dimmer circuits on stage pin connectors.

The stage has (2) electrics, 1 is located downstage, and the other is center stage, both have batten pipe and raceway electrics as well with dedicated dimmer circuits all wired back to an ETC Sensor plus Rack.

The Control Booth has an Avolites Titan Mobile with (1) Universe of DMX 512 interfaced with a laptop that will be used with new lighting fixtures.

No type of major electrical work is required since the ETC Dimmer rack is fully operational and will only need to slide out 24 dimmer modules and replace with the constant on modules to power up new lighting fixtures.

### 4.2 **Project Objectives**

- Replace the current incandescent stage lighting fixtures with modern LED Fixtures
- Ensure improved color rendering, brightness, and energy efficiency
- Maintain compatibility with existing dimming and control
- Reduce overall operational and maintenance costs
- Provide enhanced capabilities for special effects, color mixing and lighting control

### 4.3 LED Ellipsoidal Fixture

The Contractor must provide **14** CHAUVET Professional Ovation E-910FC LED Ellipsoidal Fixtures (Must be compatible with ETC lenses which will be used from existing inventory).

- Full color LED (RGBAL) ERS-style lighting fixture
- Flat even field of light with color mixing
- 3 W LED (722mA) or greater
- Color temperature range of 2800 K to 6500 K



City of Pembroke Pines

- CRI Value of 86 or greater
- CE and MET certified

\*Please see Attachment C: Ovation E-910FC Ellipsoidal Fixtures

### 4.4 LED Wash Fixture 18 LEDS

The Contractor must provide **15** CHAUVET Professional COLORdash Par-Quad LED Wash Fixture 18 LEDS.

- Quad-color RGBA
- 7 W (500 mA)
- Color Temperature range of 2800 K to 10000 K
- Beam Angle of 18 to 20 degrees
- Illuminance of 1,200 lux @5 meters or greater
- Silent and flicker-free
- CE and MET certified

\*Please see Attachment D: COLORdash Par-Quad 18 Fixtures

### 4.5 LED Batten Stage Lighting Fixture (40" to 50")

The Contractor must provide **12** CHAUVET Professional COLORado Batten 72X LED Batten Stage Lighting Fixtures.

- Must be RGBAW
- 72 LEDs or greater
- Color temperature range of 3200 K to 10,000 K
- 3 W (690 mA) illuminance total of 1730 lx at a distance of 5 meters.
- CRI value of 80 or greater
- 22-30 degree beam angle range
- Silent and flicker-free
- CE and MET certified

\*Please see Attachment E: COLORado Batten 72X Fixtures

### 4.6 Lightweight LED Moving Yoke Spot Fixture



The Contractor must provide 4 CHAUVET Professional Rogue R3E Spot Lightweight LED Moving Yoke Spot Fixtures.

- 350 W LED engine or greater
- Dual Gobo wheels
- Dual color wheels
- Prism, Frost, and zoom capability
- CRI of 60 or greater
- Selectable PWM to maintain flicker free operation
- DMX Profile must be easily sourced in modern consoles
- CE, MET, FCC, and UKCA certified

\*Please see Attachment F: Rogue R3E Spot Fixtures

### 4.7 ETC Constant Current Modules

The Contractor must provide 24 ETC Constant Current Modules.

- Model CC20 with dual 20 A breakers
- For Sensor + installation racks
- UL & cUL listed

\*Please see Attachment G: ETC Constant Modules

### 4.8 Installation

Fixture Mounting:

- Remove outdated fixtures and replace with new LED units in their new layout as per design.
- Remove ETC Lens tubes, clean and install in new LED Ellipsoidals.
- Mounting Accessories: Remove existing C-Clamps and safety cables from Ellipsoidals, fresnels, and border strips to install in new fixtures.
- Install 24 new ETC Brand Constant on Power Modules in existing Sensor Rack in specific slots for desired circuits that will power new lighting Fixtures.

Wiring of New Fixtures:



- ROG current power strip in catwalk and 2 onstage electrics are equipped with 20-amp Stage pin connectors, therefore all new lighting fixtures will need to have a 20-amp Male Stage Pin plug installed in order to interconnect with house system.
- Run a new DMX 5 Pin (100') Line from Catwalk Splitter to 1st electric pipe on stage to daisy chain new LED Fixtures.
- Install a DMX Splitter Branch in catwalk location where ETC Dimmer Rack is located, integrate existing DMX Signal from rack to DMX Splitter and run (2) Lines (25') to Catwalk new Lighting fixtures that will daisy chain thru in-out ports.

Rigging:

• Ensure that all LED Fixtures are safely rigged, secured, and aligned according to all standards and specifications.

\*Please see Attachments H "LED System Data Wiring Diagram" and I "LED System Upgrade Panoramic".

\* The vendor is responsible for providing all necessary tools, materials, and equipment required for the installation, including a personnel lift for the disassembly and new installation of LED fixtures on Stage.

### 4.9 Testing & Calibration

Performance Testing:

• Conduct tests to ensure proper functionality of all LED installed fixtures including color accuracy, dimming capabilities, and system response to control input.

Calibration:

• Fine tune fixtures for optimal color rendering, intensity, and beam spread.

Control Systems Check:

• Verify that all fixtures are properly addressed and mapped in the control with proper fixture modes for correct operation.

### 4.10 Documentation

Provide comprehensive documentation including:

- Equipment manuals for all LED Fixtures.
- Wiring Diagrams and system integration notes.
- Maintenance schedules and care instructions for LED Fixtures.
- Warranty details and registration with contact information.



### 4.11 Pre & Post Installation

A representative from ALD Corp. will be on-site during the initial installation to oversee the proper placement and setup of the new LED fixtures. Additionally, they will conduct a follow-up with the Contractor responsible for handling the project.

### 4.12 Warranty

A clear and transparent warranty valid within the United States must be provided.

\* Vendor warrants that the equipment sold to the original purchaser, City of Pembroke Pines, is free from defects in materials and workmanship under normal use and maintenance for a period of (2) Years from the date of delivery.

### 4.13 Liability

The contractor is responsible for any damage to the theater premises during installation and will be liable for any injury or damage resulting from the work.



### **SECTION 5 - PRICE PROPOSAL / BID TABLE**

The vendor must provide their pricing electronically through the designated line items listed on the Bid Sheet/Pricing Table via the City's e-Procurement portal on OpenGov.

**Vendor Notes:** The bid tables includes a "Vendor Notes" column for any additional comments regarding the requested line item(s). A comment is preferred in the "Vendor Notes" column. If the vendor does not need to submit any comments, they may leave it blank or enter N/A or similar.

**Primary Responses:** The initial Bid Table is for the primary responses so that the vendors can submit the requested goods and/or services.

Additional Responses: The second Bid Table allows for bidders to submit alternative options. Substitutions of brands or products must be submitted as an alternative for the City's review and approval.

- A. To submit an alternative, please clearly identify any brand or product substitutions in the **"Vendor Notes"** column for the respective part.
- B. In addition, please upload any pertinent information relating to the alternative in the "Alternatives" section of the <u>SUBMITTAL DOCUMENTS</u>.

\* Vendor must ensure that the pricing is all-inclusive and covers all necessary labor, materials, and equipment, and any other costs associated with the completion of the work specified in this agreement. No additional fees or charges will be billed beyond this amount unless mutually agreed upon in writing by both parties.

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Vendor Notes
1.	LED Ellipsoidal Fixture	14	Each			
2.	LED Wash Fixture 18 LEDS	15	Each			
3.	LED Batten Stage Lighting Fixture 40" to 50" RGBAW	12	Each			
4.	LED moving yoke spot fixture, lightweight	4	Each			

### PRIMARY RESPONSES



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Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Vendor Notes
5.	ETC Brand current Constant Current Modules	24	Each			
6.	Clamp medium duty	16	Each			
7.	Half Coupler Clamp for spots	8	Each			
8.	Data Stream	1	Each			
9.	10' 5 pin DMX Cable shielded	40	Each			
10.	25' 5 pin DMX cable shielded	8	Each			
11.	100' 5 pin DMX cable shielded	1	Each			
12.	20 amp Stage pin male connector	45	Each			
13	Removal of Existing Fixtures and Accessories	1	Lump Sum			
14	Installation of New Fixtures and Accessories	1	Lump Sum			
15	Calibration/Testing	1	Lump Sum			

### ALTERNATE RESPONSES



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Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Vendor Notes
1.	LED Ellipsoidal Fixture	14	Each			
2.	LED Wash Fixture 18 LEDS	15	Each			
3.	LED Batten Stage Lighting Fixture 40" to 50" RGBAW	12	Each			
4.	LED moving yoke spot fixture, lightweight	4	Each			
5.	ETC Brand current Constant Current Modules	24	Each			
6.	Clamp medium duty	16	Each			
7.	Half Coupler Clamp for spots	8	Each			
8.	Data Stream	1	Each			
9.	10' 5 pin DMX Cable shielded	40	Each			
10.	25' 5 pin DMX cable shielded	8	Each			
11.	100' 5 pin DMX cable shielded	1	Each			
12.	20 amp Stage pin male connector	45	Each			
13	Removal of Existing Fixtures and Accessories	1	Lump Sum			



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Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Vendor Notes
14	Installation of New Fixtures and Accessories	1	Lump Sum			
15	Calibration/Testing	1	Lump Sum			
TOTAL						



### **SECTION 6 - SUBMITTAL DOCUMENTS**

Bids must be submitted electronically at <u>https://procurement.opengov.com/portal/pembrokepines</u> on or before **2:00 pm on Tuesday, February 18, 2025.** Please note vendors should be registered on OpenGov under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation. In addition, the vendor must complete the required documents in this\_section and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the <u>https://procurement.opengov.com/portal/pembrokepines</u> website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals.

### PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.

Prospective proposers interested in responding to this solicitation are requested to provide all of the applicable information listed in this section. Submittals that do not respond completely to all of the requirements specified herein may be considered non-responsive and eliminated from the process. Brevity and clarity are encouraged.

### **1** CONFIRMATION TO BIND

- 1.1 I certify that I have read, understood and agree to the terms in this solicitation, and that I am authorized to submit this response on behalf of my company.\*
- □ Please confirm

\*Response required

### 2 REFERENCE # 1

The minimum experience for this project is **five (5) years**. Provide specific examples of similar experience conducting licensed work of equal or similar scope of work, preferably delivered by the proposed team members. A **minimum of 3** references should be from the last **five years** and should be capable of explaining and confirming your firm's capacity to successfully complete the scope of work outlined herein. As part of the proposal evaluation process, the City may conduct an investigation of references, including a record check or consumer affairs complaints. Proposers' submission of a proposal constitutes acknowledgment of the process and consent to investigate. The City is the sole judge in determining Proposers qualifications. In this section you will have the ability to enter information for 5 different references including their contact details and specific project information.

Please note that the City prefers references who are not current employees of the City of Pembroke Pines, as we generally do not contact our own employees for reference checks.

Proposers are advised to confirm that:

A. Each reference provided by the Respondent has up to date contact persons and contact information;



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- B. The contact person provided for each reference is someone who has personal knowledge of the Proposer's performance during the referenced project; and
- C. The contact person for each reference has been contacted by the Proposer regarding this specific bid submittal and such person confirmed their willingness to serve as a reference.

2.1 Reference Contact Information - Name of Firm, City, County or Agency\* \*Response required

2.2 Reference Contact Information - Reference's Business Address\* \*Response required

2.3 Reference Contact Information - Reference's Contact Name & Title\* \*Response required

2.4 Reference Contact Information - Reference's E-mail Address\* \*Response required

2.5 Reference Contact Information - Reference's Phone Number\* \*Response required

2.6 Project Information - Was your firm the prime contractor for the listed project?\*

- □ Yes
- 🗆 No

\*Response required

2.7 Project Information - Name of Contactor Performing the Work\* \*Response required

2.8 Project Information - Name and location of the project\* \*Response required

2.9 Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for\*

\*Response required

2.10 Project Information - Project Duration\* \*Response required

2.11 Project Information - Completion (Anticipated) Date\* \*Response required

2.12 Project Information - Size of Project\*

\*Response required

2.13 Project Information - Cost of Project\* \*Response required

### **3 REFERENCE # 2**



City of Pembroke Pines

3.1 Reference Contact Information - Name of Firm, City, County or Agency\* \*Response required

3.2 Reference Contact Information - Reference's Business Address\* \*Response required

3.3 Reference Contact Information - Reference's Contact Name & Title\* \*Response required

3.4 Reference Contact Information - Reference's E-mail Address\* \*Response required

3.5 Reference Contact Information - Reference's Phone Number\* \*Response required

3.6 Project Information - Was your firm the prime contractor for the listed project?\*

□ Yes

🗆 No

\*Response required

3.7 Project Information - Name of Contactor Performing the Work\* \*Response required

3.8 Project Information - Name and location of the project\* \*Response required

3.9 Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for\*

\*Response required

3.10 Project Information - Project Duration\* \*Response required

3.11 Project Information - Completion (Anticipated) Date\* \*Response required

3.12 Project Information - Size of Project\* \*Response required

3.13 Project Information - Cost of Project\* \*Response required

### 4 **REFERENCE # 3**

4.1 Reference Contact Information - Name of Firm, City, County or Agency\* \*Response required

4.2 Reference Contact Information - Reference's Business Address\* \*Response required



City of Pembroke Pines

4.3 Reference Contact Information - Reference's Contact Name & Title\* \*Response required

4.4 Reference Contact Information - Reference's E-mail Address\* \*Response required

4.5 Reference Contact Information - Reference's Phone Number\* \*Response required

4.6 Project Information - Was your firm the prime contractor for the listed project?\*

□ Yes

🗆 No

\*Response required

4.7 Project Information - Name of Contactor Performing the Work\* \*Response required

4.8 Project Information - Name and location of the project\* \*Response required

4.9 Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for\*

\*Response required

4.10 Project Information - Project Duration\* \*Response required

4.11 Project Information - Completion (Anticipated) Date\* \*Response required

4.12 Project Information - Size of Project\* \*Response required

4.13 Project Information - Cost of Project\* \*Response required

### 5 **REFERENCE # 4**

- 5.1 Reference Contact Information Name of Firm, City, County or Agency
- 5.2 Reference Contact Information Reference's Business Address
- 5.3 Reference Contact Information Reference's Contact Name & Title
- 5.4 Reference Contact Information Reference's E-mail Address
- 5.5 Reference Contact Information Reference's Phone Number

5.6 Project Information - Was your firm the prime contractor for the listed project?

□ Yes

🗆 No



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5.7	Project Information - Name of Contactor Performing the Work
5.8	Project Information - Name and location of the project
5.9	Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for
5.10	Project Information - Project Duration
5.11	Project Information - Completion (Anticipated) Date
5.12	Project Information - Size of Project
5.13	Project Information - Cost of Project
<u>6 R</u>	EFERENCE # 5
6.1	Reference Contact Information - Name of Firm, City, County or Agency
6.2	Reference Contact Information - Reference's Business Address
6.3	Reference Contact Information - Reference's Contact Name & Title
6.4	Reference Contact Information - Reference's E-mail Address
6.5	Reference Contact Information - Reference's Phone Number
6.6	Project Information - Was your firm the prime contractor for the listed project?
□ Yes	
🗆 No	
6.7	Project Information - Name of Contactor Performing the Work
6.8	Project Information - Name and location of the project
6.9	Project Information - Nature of the firm's responsibility on the project and work for which staff was responsible for
6.10	Project Information - Project Duration
6.11	Project Information - Completion (Anticipated) Date
6.12	Project Information - Size of Project
6.13	Project Information - Cost of Project
<u>7 Pl</u>	ROJECT DOCUMENTS
7.1	<ul><li>PROPOSERS BACKGROUND INFORMATION FORM*</li><li>a. Please download the attached document, complete all required fields, and upload the completed form here.</li></ul>



City of Pembroke Pines

The following documents are standard documents that the City generally requires for every solicitation. As a result, we recommend vendors to keep these documents updated and readily available so that they can be easily uploaded for each project that the vendor would like to participate in. In the event that the City does not have one of the forms or documents listed below for your company, the City may reach out to your company after the bid has closed to obtain the document(s).

- 8.1 NON-COLLUSIVE AFFIDAVIT\*
  - a. Please download the attached document, complete all required fields, and upload the completed form here.
  - <u>Non-Collusive\_Affidavit.pdf</u>

\*Response required

- 8.2 SWORN STATEMENT ON PUBLIC ENTITY CRIMES FORM\*
  - a. Please download the attached document, complete all required fields, and upload the completed form here.
  - <u>Sworn\_Statement\_on\_Public\_E...</u>

\*Response required

- 8.3 EQUAL BENEFITS CERTIFICATION FORM\*
  - a. Please download the attached document, complete all required fields, and upload the completed form here.
  - <u>Equal\_Benefits\_Certificatio...</u>

### \*Response required

### 8.4 VENDOR DRUG FREE WORKPLACE CERTIFICATION\*

- a. Please download the attached document, complete all required fields, and upload the completed form here.
- <u>Vendor\_Drug-Free\_Workplace\_...</u>

- 8.5 SCRUTINIZED COMPANY CERTIFICATION\*
  - a. Please download the attached document, complete all required fields, and upload the completed form here.



### 8.6 E-VERIFY SYSTEM CERTIFICATION\*

- a. Please download the attached document, complete all required fields, and upload the completed form here.
- b. Effective January 1, 2021, pursuant to Section 448.095. Florida Statues, the City may not enter into a contract with a vendor/contractor/subcontractor unless that vendor/contractor/subcontractor is registered with and uses the E- Verify system administered by the U.S. Department of Homeland Security ("DHS").
- c. Contractor shall also require all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. The Contractor shall maintain a copy of such affidavit for the duration of the contract.
- <u>E-Verify\_System\_Certificati...</u>

### \*Response required

### 8.7 HUMAN TRAFFICKING AFFIDAVIT\*

- a. Please download the attached document, complete all required fields, and upload the completed form here.
- <u>Human\_Trafficking\_Affidavit...</u>

### \*Response required

### 8.8 VENDOR INFORMATION FORM\*

- a. Please download the attached document, complete all required fields, and upload the completed form here.
- <u>Vendor\_Information\_Form.pdf</u>

### \*Response required

### 8.9 FORM W-9 (REVISED MARCH 2024)\*

- a. Please download the attached document, complete all required fields, and upload the completed form here.
- b. Note Please use the March 2024 version of the form as previously dated versions of this form may delay the processing of any payments to the selected vendor.
- Form\_W-9\_(Rev\_March\_2024).pdf

\*Response required

### 9 OPTIONAL DOCUMENTATION



### 9.1 TRADE SECRETS

- a. The Proposer's response to this solicitation is a public record pursuant to Florida law, which is subject to disclosure by the City under the State of Florida Public Records Law, Florida Statutes Chapter 119.07 ("Public Records Law"). The City shall permit public access to all documents, papers, letters or other material submitted in connection with this solicitation and the Contract to be executed for this solicitation, subject to the provisions of Chapter 119.07 of the Florida Statutes.
- b. Any language contained in the Proposer's response to the solicitation purporting to require confidentiality of any portion of the Proposer's response to the solicitation, except to the extent that certain information is in the City's opinion a Trade Secret pursuant to Florida law, shall be void. If a Proposer submits any documents or other information to the City which the Proposer claims is Trade Secret information and exempt from Florida Statutes Chapter 119.07 ("Public Records Laws"), the Proposer shall clearly designate that it is a Trade Secret and that it is asserting that the document or information is exempt. The Proposer must specifically identify the exemption being claimed under Florida Statutes 119.07. The City shall be the final arbiter of whether any information contained in the Proposer's response to the solicitation constitutes a Trade Secret.
- c. EXCEPT FOR CLEARLY MARKED PORTIONS THAT ARE BONA FIDE TRADE SECRETS PURSUANT TO FLORIDA LAW, DO NOT MARK YOUR RESPONSE TO THE SOLICITATION AS PROPRIETARY OR CONFIDENTIAL. DO NOT MARK YOUR RESPONSE TO THE SOLICITATION OR ANY PART THEREOF AS COPYRIGHTED. ALL DOCUMENTS THAT THE FIRM PURPORTS TO BE CONFIDENTIAL, PROPRIETARY OR A TRADE SECRET SHALL BE UPLOADED TO THE OPENGOV WEBSITE AS A SEPARATE ATTACHMENT, IN THIS SECTION, CLEARLY IDENTIFYING THE EXEMPTION BEING CLAIMED UNDER FLORIDA STATUTES 119.07.
- d. The city's determination of whether an exemption applies shall be final, and the proposer agrees to defend, indemnify, and hold harmless the city and the city's officers, employees, and agent, against any loss or damages incurred by any person or entity as a result of the city's treatment of records as public records.

### 9.2 FINANCIAL STATEMENTS

a. The City is <u>NOT</u> requesting the vendor to submit any financial statements for this project and prefers if the vendor does not submit financial statements. In addition, if the City needs a copy of the vendor's financial statements, the City can contact the vendor after the bid due date to request those documents. However, if the vendor does submit the financial statements, they should be uploaded in this section.



b. Any claim of confidentiality on financial statements must be asserted at the time of submittal. The firm must identify the specific statute that authorizes the exemption from the Public Records Law. Please note that the financial statement exemption provided for in Section 119.071(1)c, Florida Statutes only applies to submittals in response to a solicitation for a "public works" project.

### 9.3 ALTERNATIVES

- a. If you are submitting an alternative product, please upload any related information in this section (such as specification sheets, etc.).
- b. In addition, pursuant to the "Brand Names" Section included in the <u>GENERAL</u> <u>TERMS AND CONDITIONS</u> Section if and wherever in the specifications a brand name, make, name of manufacturer, trade name, or vendor catalog number is mentioned, it is for the purpose of establishing a grade or quality of material only. Since the City does not wish to rule out other competition and equal brands or makes, the phrase "OR EQUAL" is added. However, if a product other than that specified is bid, Proposers shall indicate on their proposal and clearly state the proposed substitution and deviation. It is the vendor's responsibility to provide any necessary documentation and samples within their bid submittal to prove that the product is equal to that specified. Such samples are to be furnished before the date of bid opening, unless otherwise specified. Additional evidence in the form of documentation and samples may be requested if the proposed brand is other than that specified. The City retains the right to determine if the proposed brand shall be considered as an approved equivalent or not.

### 9.4 ADDITIONAL INFORMATION

a. Please provide any additional information that you deem necessary to complete your proposal in this section, if it has not been requested in another section.

### 9.5 PROFESSIONAL LICENSES

- a. If applicable, please upload any professional licenses that may be required to perform the services outlined in the solicitation. The following licensing requirements shall apply when the applicable Florida statute mandates specific licensing for Contractors engaged in the type of work covered by this solicitation.
  - i. State of Florida, Department of Professional Regulation, Construction Industries Licensing Board and licensed by other federal, state, regional, county or municipal agencies having jurisdiction over the specified construction work.
  - Said licenses shall be in the Firm's name as it appears on the OpenGov registration and as appropriately registered with the applicable licensing entity.
     Proposer shall supply appropriate license numbers, with expiration dates, as part



of their bid. Failure to hold and provide proof of proper licensing, certification and registration may be grounds for rejection of the bid.

iii. Subcontractors contracted by the Prime Contractor shall be licensed in their respective fields to obtain construction permits as necessary. Said licenses must be in the name of the subcontractor.

### **10 VENDOR CLASSIFICATION**

- 10.1 Is your firm a Local Pembroke Pines Vendor (LPPV) and Local Broward County Vendor (LBCV)?\*
  - a. The evaluation of competitive bids is subject to section 35.36 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with either of the following objective criteria as of the bid or proposal submission date stated in the solicitation. A local business shall be defined as:
    - i. "Local Pembroke Pines Vendor" shall mean a business entity which has maintained a permanent place of business with full-time employees within the City limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the City of Pembroke Pines, **OR**;
    - ii. **"Local Broward County Vendor"** shall mean or business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the Broward County or the city within Broward County where the business resides.
  - b. A preference of five percent (5%) of the total evaluation point, or five percent (5%) of the total price, shall be given to the Local Pembroke Pines Vendor(s); A preference of two and a half percent (2.5%) of the total evaluation point for local, or two and a half percent (2.5%) of the total price, shall be given to the Local Broward County Vendor(s).

 $\Box$  Yes

□ No



\*Response required

When equals "Yes"

10.1.1 Please indicate your Local Vendor Status\*

□ Local Pembroke Pines Vendor (LPPV)

□ Local Broward County Vendor (LBCV)

\*Response required

When equals "Yes"

10.1.2 Local Vendor Preference Certification\*

i. Please download the attached document, complete all required fields, and upload the completed form here.

• Local\_Vendor\_Preference\_Cer...

\*Response required

When equals "Yes"

10.1.3 Local Business Tax Receipts\*

i. If claiming Local Vendor Preference, please upload any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.

- 10.2 Is your firm a Veteran Owned Small Business (VOSB)?\*
  - a. The evaluation of competitive bids is subject to section 35.37 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to veteran owned small businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with the following objective criteria as of the bid or proposal submission date stated in the solicitation. A veteran owned small business shall be defined as:
    - i. "Veteran Owned Small Business" shall mean a business entity which has received a "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).
  - b. A preference of two and a half percent (2.5%) of the total evaluation point, or two and a half percent (2.5%) of the total price, shall be given to the Veteran Owned Small Business (VOSB).



□ Yes

🗆 No

\*Response required

When equals "Yes"

10.2.1 Determination Letter from the United States Department of Veteran Affairs Center\*

 If claiming Veteran Owned Small Business Preference Certification, business must attach the "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).

\*Response required

- 10.3 Is your firm a Minority-Owned Business Enterprise (MBE)?\*
- □ Yes
- 🗆 No

\*Response required

When equals "Yes"

10.3.1 Please indicate the classification of your Minority-Owned Business Enterprise (MBE)\*

Select all that apply

□ African-American MBE

- □ Asian-American MBE
- □ Hispanic-American MBE
- □ Native-American MBE
- $\Box$  Other option not listed above
- \*Response required

When equals "Yes"

- 10.3.2 MBE Certification Documentation\*
  - i. Upload your MBE Certification Documentation here, preferably with the State of Florida's Office of Supplier Diversity. If you have multiple MBE certifications, please combine them into one (1) document and upload.



City of Pembroke Pines

10.4	Is your firm a	Woman-Owned	Business	Enterprise	(WBE)?*
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□ Yes

🗆 No

\*Response required

When equals "Yes"

- 10.4.1 WMBE Certification Documentation\*
  - i. Upload your WMBE Certification Documentation here, preferably with the State of Florida's Office of Supplier Diversity. If you have multiple WMBE certifications, please combine them into one (1) document and upload.

\*Response required

- 10.5 Is your firm a HubZone Business / Labor Surplus Area Firm?\*
- □ Yes
- 🗆 No

\*Response required

When equals "Yes"

 HubZone Business / Labor Surplus Area Firm Certification Documentation\*
 Upload your HubZone Business / Labor Surplus Area Firm Certification Documentation, preferably with the U.S. Small Business Administration (SBA). If you have multiple certifications, please combine them into one (1) document and upload.

\*Response required

- 10.6 Is your firm a Broward County Small Business Enterprise (SBE)?\*
- □ Yes
- 🗆 No
- \*Response required

When equals "Yes"

- 10.6.1 SBE Cerification Documentation\*
  - i. Upload your SBE Certification Documentation from Broward County's Office of Economic and Small Business Development (OESBD). If you have multiple certifications, please combine them into one (1) document and upload.



City of Pembroke Pines

- 10.7 Is your firm a Broward County Business Enterprise (CBE)?\*
- □ Yes
- 🗆 No

\*Response required

When equals "Yes"

- 10.7.1 CBE Certification Documentation\*
  - i. Upload your CBE Certification Documentation from Broward County's Office of Economic and Small Business Development (OESBD). If you have multiple certifications, please combine them into one (1) document and upload.

\*Response required

- 10.8 Is your firm a Broward County Disadvantaged Business Enterprise (DBE)?\*
- □ Yes
- 🗆 No

\*Response required

When equals "Yes"

- 10.8.1 DBE Certification Documentation\*
  - i. Upload your DBE Certification Documentation from Broward County's Office of Economic and Small Business Development (OESBD). If you have multiple certifications, please combine them into one (1) document and upload.

\*Response required

- 10.9 Does your firm have a Vendor Classification that was not listed above?\*
- □ Yes
- 🗆 No

\*Response required

When equals "Yes"

- 10.9.1 Other Vendor Classification Certification Documentation\*
  - i. Upload your other Certification Documentation here. If you have multiple certifications, please combine them into one (1) document and upload.



### **SECTION 7 - EVALUATION OF PROPOSALS & PROCESS SELECTION**

### 7.1 Qualifying & Selecting Firms

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the solicitation. Evaluations shall be based upon the information and references contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.
- C. The contract shall be awarded to the most responsive/responsible bidder whose bid is determined to be the most advantageous to the City taking into consideration the evaluation criteria.

DRAFT DOCUMENT FOR COMMISSION REVIEW Attachment C

# **Ovation E-910FC** FEATURES

- Full Color LED (RGBAL) ERS-style lighting fixture for theatre, film and production
- Ultra smooth 16-bit dimming of master dimmer and individual colors
- Flat, even field of light with superior color mixing
- Virtual Color wheel with color matched to popular gel colors
- Color Temperature Presets from 2800 K to 6500 K with high CRI & CQS
- RDM (Remote Device Management) for added flexibility
- Adjustable PWM (Pulse Width Modulation) to avoid flickering on camera
- Virtually silent operation for use in studio and theatre applications
- Works perfectly with industry standard lens tubes and accessories

# SPECIFICATIONS

### OPTICAL

- Light Source: 91 LEDs (18 red, 18 green, 19 blue, 18 amber, 18 lime green) 3 W, (722 mA), 6031 K, 50,000 hours life expectancy (L70)
- Color Temperature (range): 2800 to 6500 K
- Color Temperature (at full): 6031 K
- CRI (3200 K): 86
- Beam Angle (w/5° lens): 7°
- Beam Angle (w/10° lens): 10°
- Beam Angle (w/14° lens): 11°
- Beam Angle (w/19° lens): 19°
- Beam Angle (w/26° lens): 24°
- Beam Angle (w/36° lens): 28°
- Beam Angle (w/50° lens): 41°
- Beam Angle (w/15°–30° lens)(Narrow): 13°
- Beam Angle (w/15°–30° lens)(Wide): 24°
- Beam Angle (w/25°–50° lens)(Narrow): 23°
- Beam Angle (w/25°–50° lens)(Wide): 36°
- Field Angle (w/5° lens): 7°
- Field Angle (w/10° lens): 10°
- Field Angle (w/14° lens): 14°
- Field Angle (w/19° lens):19°
- Field Angle (w/26° lens): 26°
- Field Angle (w/36° lens): 34°
- Field Angle (w/50° lens): 51°
- Field Angle (w/15°–30° lens)(Narrow): 15°
- Field Angle (w/15°-30° lens)(Wide): 29°
- Field Angle (w/25°–50° lens)(Narrow): 26°
- Field Angle (w/25°-50° lens)(Wide): 50°
- Lumens (w/5° lens): 1,807
- Lumens (w/10° lens): 3,961





DRAFT DOCUMENT FOR COMMISSION REVIEW Attachment C

- Lumens (w/14° lens): 2,827
- Lumens (w/19° lens): 3,236
- Lumens (w/26° lens): 4,316
- Lumens (w/36° lens): 3,918
- Lumens (w/50° lens): 3,813
- Lumens (w/15°–30° lens)(Narrow): 4,028
- Lumens (w/15°–30° lens)(Wide): 1,553
- Lumens (w/25°–50° lens)(Narrow): 5,261
- Lumens (w/25°–50° lens)(Wide): 7,263
- Illuminance (w/5° lens): 16,300 lux @ 5 m
- Illuminance (w/10° lens): 7,430 lux @ 5 m
- Illuminance (w/14° lens): 4,420 lux @ 5 m
- Illuminance (w/19° lens): 2,530 lux @ 5 m
- Illuminance (w/26° lens): 1,720 lux @ 5 m
- Illuminance (w/36° lens): 1,020 lux @ 5 m
- Illuminance (w/50° lens): 457 lux @ 5 m
- Illuminance (w/15°–30° lens)(Narrow): 4,260 lux @ 5 m
- Illuminance (w/15°–30° lens)(Wide): 1,620 lux @ 5 m
- Illuminance (w/25°–50° lens)(Narrow): 1,790 lux @ 5 m
- Illuminance (w/25°–50° lens)(Wide): 825 lux @ 5 m
- Barrel Rotation: +/- 27°
- Selectable PWM: 600 Hz, 1,200 Hz, 2,000 Hz, 4,000 Hz, 6,000 Hz, 25,000 Hz

### DYNAMIC EFFECTS

- Dimmer: Electronic
- Shutter/Strobe: Electronic
- Focus: Manual
- Strobe Rate: 0 to 28 Hz
- Standalone Color Mixing: Yes
- Color Temperature Presets: Yes
- Dim Modes: 4
- Built-in Automated Programs: Yes

### **CONSTRUCTION / PHYSICAL**

- Dimensions (fixture only): 19.49 x 11.22 x 19.17 in (495 x 285 x 487 mm)
- Dimensions (w/14° lens extended): 28.74 x 11.22 x 19.17 in (730 x 285 x 487 mm)
- Dimensions (w/26° lens extended): 25.91 x 11.22 x 19.17 in (658 x 285 x 487 mm)
- Dimensions (w/15°-30° lens): 32.87 x 14.61 x 14.61 in (835 x 371 x 371 mm)
- Dimensions (w/25°–50° lens): 27.17 x 14.61 x 14.61 in (690 x 371 x 371 mm)
- Weight (fixture only): 15.4 lb (7.1 kg)
- Weight (w/14° lens): 20.8 lb (9.43 kg)
- Weight (w/26° lens): 19.8 lb (9 kg)
- Weight (w/15°-30° lens): 29.4 lb (13.3 kg)
- Weight (w/25°–50° lens): 27 lb (12.2 kg)
- Exterior Color: Black or White
- Gobo Size (Optional): "A": 100 mm (outside), 75 mm (image), 2.5 mm (max. thickness)
- Gobo Size (Optional): "B": 86 mm (outside), 64.5 mm (image), 2.5 mm (max. thickness)
- Accessory Holder/Gel Frame Size (5° lens): 14 in (356 mm)
- Accessory Holder/Gel Frame Size (10° lens): 12 in (304 mm)
- Accessory Holder/Gel Frame Size (14° lens): 7.5 in (191 mm)
- Accessory Holder/Gel Frame Size (19°, 26°, 36°, and 50° lens): 6.25 in (159 mm)
- Accessory Holder/Gel Frame Size (15°–30° lens): 7.5 in (191 mm)
- Accessory Holder/Gel Frame Size (25°–50° lens): 7.5 in (191 mm)

### CONNECTIONS



### DRAFT DOCUMENT FOR COMMISSION REVIEW Attachment C

- Power Connection: Edison (Local) plug to Neutrik powerCON
- Power Input: Neutrik powerCON
- Power Output: Neutrik powerCON
- Data Connectors: 5-pin XLR
- Cable Length (power): 5 ft (1.5 m)
- Software Connection: USB

### CONTROL

- Protocol(s): DMX, RDM
- DMX Channels: 1, 3, 5, 7, 10, 12, 13, 16 or HSV
- Modes/Personalities: 8 personalities (1, 3, 5, 7, 10, 12, 13, 16 or HSV)

### ELECTRICAL

- Input Voltage: 100 to 240 VAC, 50/60 Hz (auto-ranging)
- Power Linking: 6 units @ 120 V; 13 units @ 208 V; 14 units @ 230 V
- Power and Current: 220 W, 2.171 A @ 100 V, 60 Hz
- Power and Current: 215 W, 1.786 A @ 120 V, 60 Hz
- Power and Current: 214 W, 1.032 A @ 208 V, 60 Hz
- Power and Current: 216 W, 0.935 A @ 230 V, 50 Hz
- Power and Current: 217 W, 0.904 A @ 240 V, 60 Hz

### **CERTIFICATIONS / QUALIFICATIONS**

- CE, MET, FCC
- IP Rating: IP20, dry location
- Noise Level (Idle): 1.0 dB(A) @ 1 m
- Noise Level (Auto): 16.8 dB(A) @ 1 m
- Noise Level (On): 29.6 dB(A) @ 1 m
- Noise Level (Off): 13.8 dB(A) @ 1 m
- Noise Level (silent): 25.6 dB(A) @ 1 m

### WHAT'S INCLUDED

- OVATION E-910FC
- Neutrik powerCON power cord

### **OPTIONAL ACCESSORIES**

- Professional Clamps: <u>CTC-50HC</u>, CTC-50HCN
- <u>Neutrik powerCON cables</u>
- <u>3-pin or 5-pin DMX Cables</u>
- Color Blending Filters: DF60X1D, DF20D
- Ovation Zoom Lenses: <u>OHDZOOM1530</u>, <u>OHDZOOM2550</u>
- Gobo Holder: Standard "S4" size Sandwich Style or Iris Slot Style gobo holder for "A" or "B" size gobos



DRAFT DOCUMENT FOR COMMISSION REVIEW Attachment D

# **COLORdash Par-Quad 18** FEATURES

- 4, 6 or 10 DMX channels
- Silent flicker free operation
- Lightweight, easy to install
- Metal construction for added durability

# SPECIFICATIONS

### OPTICAL

- Light Source: 18 LEDs (quad-color RGBA) 7 W, (500 mA), 50,000 hours life expectancy
- Color Temperature (range): 2800 to 10000 K
- Installed Optics: 20°
- Beam Angle: 18°
- Field Angle: 32.5°
- Illuminance: 1,210 lux @ 5 m
- PWM Frequency: 600 Hz

### DYNAMIC EFFECTS

- Dimmer: Electronic
- Shutter/Strobe: Electronic
- Strobe Rate: 0 to 20 Hz
- Standalone Color Mixing: Yes
- Color Temperature Presets: Yes
- Built-in Automated Programs: Yes

### **CONSTRUCTION / PHYSICAL**

- Dimensions: 12.7 x 11.7 x 4.1 in (323 x 298 x 106 mm)
- Weight: 10.2 lb (4.6 kg)
- Exterior Color: Black
- Accessory Holder/Gel Frame Size: 9.25 in/235 mm accessories

### CONNECTIONS

- Power Connection: Edison plug to Neutrik powerCON
- Power Input: Neutrik powerCON
- Power Output: Neutrik powerCON
- Data Connectors: 3- and 5-pin XLR
- Cable Length (power): 5 ft (1.5 m)

### CONTROL

- Control Protocol: DMX
- DMX Channels: 4, 6 or 10
- Modes/Personalities: 3 personalities (4CH, 6CH, 10CH)

### ELECTRICAL

- Input Voltage: 100 to 240 VAC, 50/60 Hz (auto-ranging)
- Power Linking: 13 units @ 120 V; 22 units @ 208 V; 24 units @ 230 V, 25 units @ 240 V
- Power and Current: 118 W, 1.00 A @ 120 V, 60 Hz
- Power and Current: 116 W, 0.59 A @ 208 V, 60 Hz
- Power and Current: 115 W, 0.54 A @ 230 V, 50 Hz

### **CERTIFICATIONS / QUALIFICATIONS**

- CE, MET
- IP Rating: IP20, dry location





### DRAFT DOCUMENT FOR COMMISSION REVIEW Attachment D

### WHAT'S INCLUDED

- COLORdash Par-Quad 18
- Neutrik powerCON power cord
- Gel frame holder (9.25 in/235 mm accessories)
- Gel frame

### **OPTIONAL ACCESSORIES**

- Professional Clamps: <u>CTC-50HC, CTC-50HCN</u>
- Neutrik powerCON cables
- <u>3- or 5-pin DMX Cables</u>



### DRAFT DOCUMENT FOR COMMISSION REVIEW Attachment E

# **COLORado Batten 72X** FEATURES

- RGBAW LED Batten for touring, rental, and production, indoors or out
- All environment operation with IP rated power and DMX connection
- Color temperature presets, from 3200 K to 10000 K
- Selectable, smooth dimming curves for programming versatility
- Built for touring, live event, television, and theatrical productions
- Large, easy to navigate display with password protection

# SPECIFICATIONS

### OPTICAL

- Light Source: 72 LEDs (18 red, 18 green, 18 blue, 9 white, 9 amber) 3 W, (690 mA), 50,000 hours life expectancy
- Color Temperature (range): 3200 to 10000 K
- CRI (3200 K): 80
- Installed Optics: 24°
- Beam Angle (Horizontal): 22°
- Beam Angle (Vertical): 18°
- Field Angle (Horizontal): 39 °
- Field Angle (Vertical): 34°
- Lumens: 3,631
- Illuminance (total): 1730 lux @ 5 m
- Selectable PWM: 600, 1200 Hz, 2000, 2400 Hz, 4000 Hz, 6000 Hz, 25000 Hz

### **DYNAMIC EFFECTS**

- Dimmer: Electronic
- Shutter/Strobe: Electronic
- Strobe Rate: 0 to 25 Hz
- Standalone Color Mixing: Yes
- Color Temperature Presets: Yes
- Dim Modes: 5
- Built-in Automated Programs: Yes
- Customizable Programs: Yes
- Recall Custom Programs: Yes

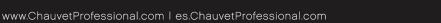
### **CONSTRUCTION / PHYSICAL**

- Dimensions: 39.37 x 6.14 x 2.95 in (1000 x 156 x 75 mm)
- Weight: 18.6 lb (8.4 kg)
- Exterior Color: Black
- Housing Material: Aluminum alloy, Aluminum die-cast

### CONNECTIONS

- Power Connection: Edison (Local) plug to Seetronic Powerkon IP65
- Power Input: Seetronic Powerkon IP65
- Power Output: Seetronic Powerkon IP65
- Data Connectors: 5-pin IP65 XLR
- Cable Length (power): 5 ft (1.5 m)

### CONTROL







### DRAFT DOCUMENT FOR COMMISSION REVIEW Attachment E

- Control Protocol: DMX, RDM
- DMX Channels: 1 Cell: 3, 4, 5, 8, 8, 9, 10, 10, 16
  3 Cell: 9, 12, 15, 21, 22, 24, 27, 30, 43
- Modes/Personalities: 18 personalities

### ELECTRICAL

- Input Voltage: 100 to 240 VAC, 50/60 Hz (auto-ranging)
- Power Linking: 10 units @ 120 V; 17 units @ 208 V; 19 units @ 230 V
- Power and Current: 161 W, 1.33 A @ 120 V, 60 Hz
- Power and Current: 164 W, 0.79 A @ 208 V, 60 Hz
- Power and Current: 163 W, 0.71 A @ 230 V, 50 Hz

### **CERTIFICATIONS / QUALIFICATIONS**

- CE, MET
- IP Rating: IP65, temporary outdoor/wet use
- Temperature (Ambient): -4 °F to 113 °F (-20 °C to 45 °C)

### WHAT'S INCLUDED

- COLORado Batten 72X
- Seetronic powerKON® IP65 power cord
- (2) Omega bracket

### **OPTIONAL ACCESSORIES**

- Professional Clamps: <u>CTC-50HC, CTC-50HCN</u>
- Neutrik TRUE1 power linking cables
- <u>5-pin IP DMX Cables</u>



### DRAFT DOCUMENT FOR COMMISSION REVIEW Attachment F

# ROGUE R3E Spot FEATURES

- A fully featured compact and light weight moving yoke spot fixture with an Intense 350 W LED light engine, two gobo wheels, one rotating, and one static, a 3-facet prism wheel, frost, Zoom and two color wheels.
- 16-bit dimming of master dimmer for smooth control of fades
- Perfect gobo morphing between gobo wheels
- Two color wheels with 8 colors, split color ability, and continuous variable speed scrolling
- Two gobo wheels: one fixed scrolling wheel and one rotating, interchangeable, scrolling wheel
- Iris, 3-facet prism, and frost for beam control
- 8.4° to 42.8° Zoom range
- True 1 compatible power input/output connections for power linking.
- 3- and 5-pin DMX input/output connections
- RDM enabled for remote addressing and trouble shooting.
- Selectable LED maximum output to match legacy Rogue R1X Spots
- Selectable PWM settings to maintain flicker-free operation on camera.
- Simple and complex DMX channel profiles for programming versatility

# SPECIFICATIONS

### OPTICAL

- Light Source: 1LEDs (CW) 350 W, (5 A), 8527 K, 50,000 hours life expectancy.
- Color Temperature (at full) 8527 K
- Front lens diameter: 90mm
- CRI: 68.2
- Beam Angle: 8.4° to 33°
- Field Angle: 10.1° to 39.3°
- Cutoff Angle: 11.5° to 42.8°
- Zoom Range: 8.4° to 42.8°
- Lumens Source: 24,500
- Lumens Output: 15,705
- Illuminance (7°): 35,405 lux @ 5 m
- Illuminance (42.8°): 2,492 lux @ 5 m
- Selectable PWM: 600 Hz, 1,200 Hz, 2000 Hz, 4000 Hz, 6,000 Hz, 15,000 Hz

### **DYNAMIC EFFECTS**

- Pan and Tilt: 540°/270°
- Pan and Tilt Ranges: 180°, 360°, 540° pan/90°, 180°, 270° tilt
- Colors (1): 8 + white, split colors, continuous scroll at variable speeds
- Colors (2): 8 + white, split colors, continuous scroll at variable speeds
- Gobos (1): 7 + open (7 metal), rotating, interchangeable, indexing, slot-n-lock, continuous scroll at variable speeds
- Gobos (2): 8 + open (8 metal), continuous scroll at variable speeds
- Gobo Size: Gobo Wheel 1 (rotating); size: 20 mm (outside), 16 mm (image), 1.5 mm (max. thickness)
- Gobo Size: Gobo Wheel 2 (static): size: 24 mm (outside), 16 mm (image), 0.6 (max. thickness)





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- Dimmer: Electronic
- Shutter/Strobe: Electronic
- Zoom: Motorized
- Focus: Motorized
- Frost: Motorized
- Iris: Motorized
- Prism: 3 Facets, motorized, rotating
- Strobe Rate: 0 to 25 Hz
- Move in Black: Yes

### **CONSTRUCTION / PHYSICAL**

- Dimensions: 13.77 x 9.44 x 23.03 in (350 x 240 x 585 mm)
- Weight: 34 lb (15.4 kg)
- Exterior Color: Black
- Housing Material: Aluminum die-cast, High-impact flame-retardant polymer, Steel
- Software update: USB-C

### CONNECTIONS

- Power Connection: Edison (local) plug to Seetronic Powerkon IP65
- Power Input: Seetronic Powerkon IP65
- Power Output: Seetronic Powerkon IP65
- Data Connectors: 3- and 5-pin XLR
- Cable Length (power): 5 ft (1.5 m)
- Software Connection: USB-C

### CONTROL

- Control Protocol: DMX, RDM
- DMX Channels: 19 or 25
- Modes/Personalities: 2 personalities (19, 25)

### ELECTRICAL

- Input Voltage: 100 to 240 VAC, 50/60 Hz (auto-ranging)
- Power Linking: 4 units @ 120 V; 8 units @ 208 V; 8 units @ 230 V; 9 units @ 240 V
- Power and Current: 535 W, 4.541 A @ 120 V, 60
- Power and Current: 522 W, 2.576 A @ 208 V, 60 Hz
- Power and Current: 523 W, 2.345 A @ 230 V, 50 Hz

### **CERTIFICATIONS / QUALIFICATIONS**

- CE, MET, FCC, UKCA
- IP Rating: IP20, dry location
- Temperature (Ambient): -4 °F to 113 °F (-20 °C to 45 °C)
- Noise Level (Idle): 4.1 dB(A) @ 1 m
- Noise Level (Max): 35.0 dB(A) @ 1 m
- Noise Level (Auto): 33.3 dB(A) @ 1 m
- Noise Level (Eco): 31.2 dB(A) @ 1 m
- Noise Level (Full): 40.2 dB(A) @ 1 m

### WHAT'S INCLUDED

- Rogue R3E Spot
- Seetronic PowerKon power cord
- 2 140D Omega brackets with mounting hardware

### **OPTIONAL ACCESSORIES**

- Clamps
- Neutrik powerCON cables
- Neutrik etherCON cables
- DMX Cables
- Flight Cases

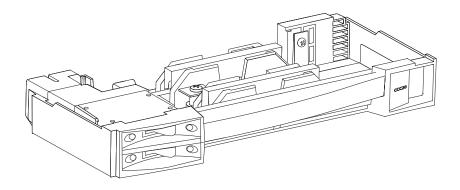


# **ETC**<sup>®</sup>

### 

# **Constant Modules**

## **Special Purpose Series**



### GENERAL INFORMATION

The Constant Module is a dual, plug-in assembly for use in both Sensor®+ and Unison® Dimming Series modular dimmer rack enclosures. The Constant module distributes power with overcurrent protection from the dimmer rack enclosure to non-dimmed loads, typically motors, backup and emergency systems or auxiliary power distribution panels.

### APPLICATIONS

- Devices requiring constant current power
- Motors
- Backup and Emergency systems
- Auxiliary power distribution panels

### FEATURES

- Two circuits per module
- Does not respond to control signals
- High-density modular assembly
- Die-cast aluminum chassis
- Fully magnetic circuit breakers

### GENERAL

- 100,000A Short Circuit Current Rating (SCCR)
- UL and cUL LISTED

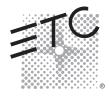
### ORDERING INFORMATION

### 100-120 Volt Constant Current Modules

MODEL	DESCRIPTION
CC15	Dual 15A Constant Module
CC20	Dual 20A Constant Module

### **Compatible Systems**

MODEL	DESCRIPTION					
INSTALLATIC	INSTALLATION RACKS					
SR3	Sensor3 Installation racks					
SR+	Sensor+ Installation racks					
SR	Sensor Installation racks					
TOURING RA	ACKS					
SP3	Sensor+ 24 module Touring Rack (48-20A dimmers)					
SP+	Sensor+ 48 module Touring Rack (96-20A dimmers)					
PORTABLE PACKS						
SP3	Sensor3 Portable Packs					
SP+	Sensor+ Portable Packs					



# Attachment G

# **ETC**<sup>®</sup>

# **Constant Current Modules**

# **Special Purpose Series**

### SPECIFICATIONS

### GENERAL

- UL and cUL Listed for continuous duty at 100% of rated load
  - CC15 1.8kW
  - CC20 2.4kW
- Does not respond to control signals

### PHYSICAL

- Modular plug-in assemblies
- Cast aluminum chassis, finished with textured epoxy paint
- Keyed to prevent insertion in inappropriately rated rack positions

### CIRCUIT BREAKERS

- Fully magnetic to eliminate nuisance tripping
- 20x inrush current rating
- 125%, 10-120 seconds, must-trip rating
- Rated for 100% switching duty applications

### RATINGS

- 100,000A Short Circuit Current Rating (SCCR)
- Replaceable fuse for short circuit protection and fault current coordination
- UL and cUL LISTED

### EFFICIENCY

• Efficiency is >99%

### PHYSICAL

### **Module Dimensions**

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
CC15	1.5	38	11.8	300	4.9	127
CC20	1.5	38	11.8	300	4.9	127

### **Module Weights**

MODEL	W	EIGHT	SHIPPIN	G WEIGHT
	lbs	kgs	lbs	kgs
CC15	2.1	1.1	4.0	1.8
CC20	2.2	1.1	4.0	1.8

### Maximum BTU Production per module

MODEL	BTUS	WATTS	EFFICIENCY
CC15/CC20	<10	<4	>99.0%

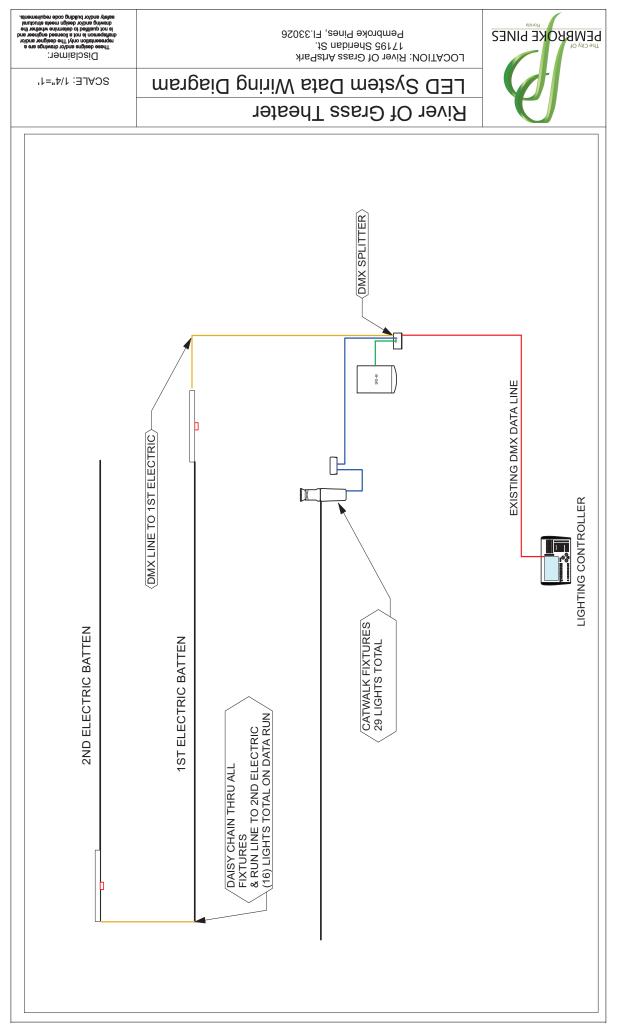
These values should be provided to a qualified HVAC design engineer, along with dimmer quantities, types and dimmer room dimensions, to calculate dimmer room air handling requirements.

Dimmer room HVAC systems must at all times maintain the specified ambient temperature **at the dimmer rack**. Dimming systems operating within 10°F of the upper or lower temperature limits must strictly follow installation and operation guidelines to operate reliably.



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