

THE CITY OF WALTHAM
MASSACHUSETTS

PURCHASING DEPARTMENT

WCAC TV Studios Equipment and Installation

ADDENDUM NO. 1

July 17, 2014

CHANGES, CORRECTIONS AND CLARIFICATIONS

The attention of bidders submitting proposals for the above subject project is called to the following addendum to the specifications. The items set forth herein, whether of omission, addition, substitution or clarification are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (NO. 1) MUST BE ENTERED AT THE END OF THE BID PRICE SECTION OF THE ATTACHED FORM

ITEM 1: NOTE THE FOLLOWING CHANGES:

All areas:

1. Sony VRDMC6 DVD recorder is no longer available. You may substitute a DVD recorder that is equal or better.
2. List the optional Cost for All Broadcast Pix units require the Camera control option 800

City Hall Council Chambers Addendum:

1. Contractor shall install an American DJ PC-100A or better switched outlet panel in the equipment rack. The goal here is to power down the computer and some other items in the rack when not in use.

Auditorium Addendum:

1. Contractor shall install an American DJ PC-100A or better switched outlet panel in the equipment rack. The goal here is to power down the computer and some other items in the rack when not in use.

Government Center Meeting Room:

1. Add audio snake with four mic lines between the equipment rack and the front table area, wrapped in single sheath with XLR-F connector box at far end.

Canon Lecture Hall Addendum:

1. Desk gooseneck mics shall be split into two signals and have lever or pushbutton switches at their bases to mute the house PA-feed only. The production mixer feed from each mic is hot at all times (same as currently installed in the City Hall Council Chambers).
2. The City intends to re-use the existing Shure audio mixer here, not purchasing a new one.
3. Sony KDL70R550A 70" TV monitor can be substituted with a similar device that is as good or better than the defined monitor. It must have an HDMI input.
4. TV monitors for front of stage and viewing from stage shall have mounting systems. Exact mounting location can be determined during installation.
5. Cabling from the presentation computer and projector to the control room shall be run from the front table to under the stage, then to the right side wall, then to the control room. This shall be done with the approval of the school management.
6. Mic runs from stage panel to the tables shall be cleaned up-possibly in a Flexo-wrap PET sheath or similar.
7. Control room shall have a TV monitor for over the air confidence return feed.
8. Equipment rack in the control room should have a locked door.
9. Contractor shall install an American DJ PC-100A or better switched outlet panel in the equipment rack. The goal here is to power down the Broadcast Pix computer and some other items in the rack when not in use.
10. Install three School Ethernet drops into the control room (can be extensions from wall outlets in lecture hall). One will be used for the streaming encoder, another for the Broadcast Pix computer and the third for a temporary laptop. Work with school IT department to configure and activate these drops.
11. Contractor shall provide to the City with an Apantac DE-8 distribution box with cabling and HDMI option for the TV studio location. Installation will be done by the Studio Staff.
12. Playback Racks UPS-The UPS does not have to be installed in the playback rack area. It can be installed near the electrical service entrance or other suitable space.
13. HVAC in playback rack area: needs to be operational before playback rack equipment commissioning to ensure proper cooling of the equipment

ITEM 2: DELETE AND REPLACE:

1. DELETE the price form in the bid packet and REPLACE it with the revised form attached here.
2. Recognize receipt of the addenda in the replaced price form attached here. This is important as the information in the addendum has a financial impact on the bid price.

ITEM 3: ANSWERS TO POSED QUESTIONS:

Q1. Broadcast Pix FLINT: the Henry Engineering Matchbox HD do not have delay should we be using Rane AD 22s or similar?

A1. The Henry Engineering Matchbox does not incorporate delay as it is an analog IHF-Pro level converter. We need to pass the audio of the Shure mixer to the unbalanced input of the Broadcast Pix Flint LS units so that the Flint computer can delay the audio to match the video delay and recover proper lip sync. If you prefer to not pass audio through the Matchbox and Broadcast Pix computer, then a Rane AD-22 or other outboard audio delay can be offered. Any solution needs to satisfy lip sync and how the audio needs to be distributed.

Q2. In the Canon Lecture Hall, who is responsible for the removal of the existing built in console in the Cannon Lecture Hall control Room?

A2. The contractor is responsible for the removal and preparation of all areas before the new equipment installation

Q3. In the Auditorium, Government Center will a lift be provided for running cables below the Auditorium in the 30 foot high gym area?

A3. The city does not have an aerial lift. The contractor must make all the arrangements to procure all necessary equipment to complete the job.

Q4. Flex wrap is very unmanageable to coil up in 100 foot lengths and difficult to place in a protector cover, will the city consider an equal or better alternative.

A4. Yes, provide submittals and cut sheets for approval by the City

Q5. Will cables need to be extended to accommodate new rack location?

A5. Some cables may enter the control room in the corner where the rack can be located. The contractor needs to determine if cables need to be extended and price the job accordingly. Keep in mind that the City requires the replacement of the entire runs where cables need to be extended.

Q6. Should Multicore CCU style cable (all cables a rubber sheath) be used instead of flex wrapping multiple cables?

A6. Not if these cables are more expensive

Q7. New desk and monitors required at the Auditorium, Government Center?

A7. Yes

Q8. Length of CCU cables for WCAC?

A8. The length of the CCU camera cables should be a minimum of 50 feet; it is the responsibility of the contractor to determine the exact minimum length.

Q9. What is the Lighting for cannon Hall?

A9. (5) Chroma-Q Studio Force V12, CHSFV12NF and (5) Cyc Lens for Force 12, CHCFCL12 or better. Install in angled area of lecture hall ceiling where color 1K fixtures currently are (do not remove old fixtures). Install evenly spaced to provide consistent lighting on the stage (see attached spec sheet)

Q10. Three 42" monitors: where will these be located, type of mounts, cabling, signal from what source?
Three 42" monitors: where will these be located, type of mounts, cabling, signal from what source?

A10. This is field decision that will be addressed during installation

Q11. VGA/DVI monitors (HP Pavilion or similar) for Slate. We assume that you meant MICA? 23" monitors are small for properly viewing MICA multiview in a Studio environment

A11. Yes; we meant Mica. Please suggest a size, model, mounting and location for the Mica multiviewer monitors.

Q12. Can the PVM1741A be substituted for a similar 1920 x 1080 Professional HD monitor?

A12. The substitution has to be equal or better.

Q13. What kind of inputs do the Teleprompters accept?

A13. The CCU TelePrompTer return feed is analog composite NTSC. 1v p-p to BNC connector.

Q14. Can a less expensive camera tripod be used in the Auditorium?

A14. It was agreed during the Site inspection that a less expensive camera tripod will be acceptable pending the submission of cut sheet and acceptable to the City.

End of Addendum 1

Price Form.

The price quoted below shall be inclusive of all expenses such as overhead and profit, travel expenses, administrative support cost, mobilization to and from the project, and all other expenses. The price quoted below is a fixed, not to exceed price **AND INCLUSIVE OF UNLIMITED TRAINING**, AS REQUESTED.

COST OF EQUIPMENT: \$ _____

COST OF MATERIALS: \$ _____

COST OF INSTALLATION & ENGINEERING: \$ _____

GRAND TOTAL: \$ _____

NAME OF YOUR COMPANY: _____

AUTHORIZED SIGNATURE: _____

PRINT NAME: _____

TITLE: _____

DATE: _____

My Company recognizes receipt of addenda #: ____ , ____ , ____ , ____ , ____ , ____ , ____ .



Studio Force V 12 Technical Specification

Product Code	CHSFV12NF
Net Dimensions	335mm x 190mm x 218mm / 13.2" x 7.5" x 8.6"
Net Weight	4kgs / 9lbs
Shipping Dimensions	432mm x 343mm x 279mm / 17" x 13.5" x 11"
Shipping Weight	6kgs / 13lbs
Power Input Rating	100-240V AC, 50-60 Hz, 160VA
Typical Power & Current	Measurements done with all LEDs at max. intensity. Measurements made at nominal voltage. Allow for a deviation of +/- 10%
Power Connectors In/Out	PowerCon
Operating Temperature	0°C to 40°C

Data Connectors In/Out	XLR 5-pin
Control Protocol	ANSI E1.11 USITT DMX512-A
Cooling System	Forced - 1 fan
Construction	Black anodised aluminium extrusion
Colour	Black
Built-In Hardware	Quick release lever for tilt adjustment
IP Rating	IP20
Approvals	CISPR 22 :2006/EN55022 :2006 & CISPR 24 :1997/ EN55024 :1998, ICES-003 :2004 & FCC Part 15 Subpart B: 2007, CSA C22. No. 166-M1983:R2008 UL 1573:2003; UL 8750

Control & Photometric

LEDs Per Engine	12 Cold White / 12 Warm White
Control Modes	8 channels WWWW 3 channels sWWCW 2 channels WW/CW 2 channels CTI 1 channel Look Select Master Standalone Slave Standalone Manual
Dimming Curve	Theatrical
Variable Effects Engine	Yes
Effects Parameters	Intensity Effects

Hot Lumen Output (Combined)	White 5,300 hot lumens @ 4,200K
Optics	Specialised close focus lens
Beam Angle	~23°
With Optional Cyc Optic	80 x 30° (approx.)
With Optional Border Optic	60° (approx.)
Beam Distribution	Asymmetrical direct illumination
CCT	3,000K - 6,100K
Colour Gamut	Performance enhanced
CRI	>80
Lamp Life	L70 at 50,000 hours

Accessories

CHCFCL12	Cyc Lens For Force 12
CHCFBL12	Border Light Lens For Force 12
CHCFSA12	Spigot Adaptor For Force 12
CHCFECL12	Egg Crate Louver For Force 12
CHCFTH12	Top Hat For Force 12
CHCFH12	Half Top Hat For Force 12

CHCFBD12	Barn Door For Force 12
CHCFDBX	Diffuser Box For Force 12
CHCFLBA12	Lightbank Adaptor (Speedring) For Force 12
CHCFLB12	Lightbank For Force 12
CHCFLBK-K	Lightbank Kit+ For Force 12 (consists of Lightbank Adaptor (Speedring) & Lightbank)

*Barn door and lens shown are sold as separate accessories. Fixture not included

*The Lightbank Kit consists of the Lightbank Adaptor (Speedring) & Lightbank. Both items can also be purchased separately. Fixture not included

Studio Force D Range

All three Studio Force V models are also available as Studio Force D 6,100K CCT daylight white versions.

For the latest news and information on the Chroma-Q range, visit www.chroma-q.com



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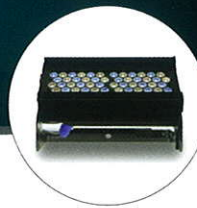


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Chroma-Q™ Studio Force V12



Extreme Output Daylight White LED Fixture

Utilising the same core technologies as the innovative Chroma-Q™ Color Force™ 12 multi-purpose LED fixture, the new Studio Force™ V 12 is a 3,000K - 6,100K CCT variable white version featuring laboratory calibrated 3200oK and 5600oK presets that is specifically designed for TV, film, touring, exhibitions, corporate events and theatre lighting applications. At only 300mm / 1ft long, the unit is ideal for floor, wall or truss mounting. It also provides an extreme output of 5,300 lumens for evenly washing large areas, complemented by smooth, theatrical grade dimming. A choice of batten lengths are also available.

Extreme Output

With an extreme output of 5,300 lumens, the Studio Force V 12 offers more than twice the white light output of its RGBA colour variant. The Studio Force V 12 can also be used to extend Studio Force V 48 and 72 LED batten installations.

Multi-purpose

The Studio Force V 12 is suitable for a wide range of lighting applications, including key-lighting, uplighting, backlighting and wash applications.

Optional accessories include cyc and border light lens, lightbank kit, egg crate louver, top hat, half top hat, barn door, spigot adaptor and diffuser box attachment accessories.

Optional City Theatrical Accessories



Egg crate louver



Top hat



Half top hat



Barn door



Spigot adaptor



Lightbank kit*



Cyc and border light lens



Diffuser box attachment*

Colour

The Studio Force V range includes ColorSure™ technology for enhanced consistency across each light engine and when using multiple fixtures.

Optics & Dimming

The Studio Force V range's camera friendly custom optical design provides a smooth, uniform output, matched by theatrical grade dimming.

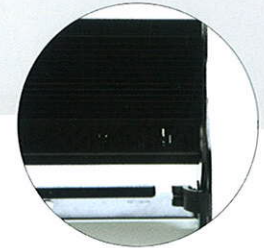
Practical & Mechanical

On the outside, the Studio Force V 12 has been designed to provide maximum versatility and ease of use. The built-in power supply, hidden quick release fixings requiring no tools, and PowerCon and 5-pin DMX connections in and out provide fast deployment and simple cable management.

The Studio Force V range also features stand-alone Master and Slave modes for additional usage possibilities, flat end plates for seamless wall-washing and a rugged extruded aluminium body.



PowerCon and 5-pin DMX connections in and out



Hidden quick release fixings and flat end plates

Key Features

- 3,000K - 6,100K CCT variable white
- Extreme output - 5,300 lumens
- Extremely smooth, uniform wash
- Theatrical grade dimming
- Ideal for TV, film, touring, exhibitions, corporate events and theatre
- 300mm / 1ft length ideal for floor, wall or truss mounting
- Camera friendly
- Laboratory calibrated 3,200oK and 5,600oK presets
- PowerCon input and output for easy daisy chaining of fixtures
- Broad range of accessories available, including lightbank kit and barn door
- Flat end plates for seamless wall-washing
- Built-in power supply
- Hidden quick release fixings
- Rugged extruded aluminium body