DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

Streaming Media Processor: Model: SMP 351 H.264: Part Number: 60-1324-01 - OR Equal Brand in accordance with the follow specifications:

A. Shall provide an audio and video media processor that records, streams, and outputs a digital video signal comprising up to two source windows of high-resolution computer-video, high-definition video, or standard video with background image.

    a. Rack mountable, enclosure for recording, streaming, and direct display of video and audio output shall:

        i. Contain an internal switching power supply, with rear-accessible male IEC connection.

        ii. Provide multiple connections for device configuration from a PC, remote control, or other peripheral, including:

            1. One front-accessible USB connection connecting removable storage devices.

            2. One rear accessible RS-232 connection

        iii. Provide one 10/100/1000 BASE-T RJ-45 network connection for:

            1. Transport of recording to network storage

            2. Access to embedded web interface

            3. Interfacing with AV control systems

        iv. Allow direct system configuration from the front panel interface using:

            1. LCD Screen

            2. Menu navigation, item selection and parameter adjustments

        v. Provide illuminated front panel buttons to facilitate:

            1. Source selection

            2. Initiating, pausing, and stopping recording

            3. Insertion of chapter marks in recording

            4. Selection of blended source window layouts

            5. Swapping of sources in window arrangements

        vi. Provide left and right front panel LED arrays to indicate audio levels

        vii. Provide local audio and video output on the following connections:

            1. Rear accessible HDMI connector to supply video and embedded audio to display systems

            2. Rear accessible connections for output of balanced line-level analog stereo audio signals

        viii. Support two blendable video input channels, Channel A and Channel B

            1. Channel A shall provide the following connections:

a. One rear accessible HDMI output for live source loop through

b. Two sets of rear accessible connections for input of a single balanced line-level analog stereo audio signal with loop through

2. Channel B shall provide the following connections:

a. One rear accessible HDMI input with embedded stereo audio

b. Rear accessible connections for input of a single balanced line-level analog stereo audio signal

c. Rear accessible connections configurable for composite and Component HD signals

d. Rear accessible connections for accepting a single balanced line-level analog stereo audio signal

3. Input connections shall support resolutions up to 1920x1200, including high definition 1080p

ix. Provide clean transitions when switching between inputs

x. Provide an advanced video scalar capable of:

1. Scaling two source windows from Channel A and Channel B to variable sizes

2. Recording HD resolutions up to 1080P:

a. Including VESA rates up to 1400x1050

3. Recording refresh frequencies of 5 – 30 Hz

xi. Automatically manage EDID communication between the display and connected HDMI sources

xii. Provide the following options when presenting video sources:

1. Video output fills display

2. Video output maintains source's original aspect ratio with no image cropping

3. Video output maintains source's original aspect ratio and is cropped to fill display

xiii. Permit localized storage and display of images behind video windows.

xiv. Allow unrestricted position and sizing of source windows displaying input channel A and channel B

xv. Provide basic audio mixing and DSP processing to maintain clean audio output when switching or blending source inputs.

xvi. Use H.264 video compression and AAC audio compression

xvii. Provide encoding controls including:

1. Selectable resolutions up to 1080p

2. Definable frame rates from 1 to 30 fps

3. Selection of a constant or variable bit rate

xviii. Display video stream, network status, and decoding device status on user-configurable on-screen display (OSD)

xix. Provide picture controls to maximize source image quality, including:

    1. Brightness, Contrast, Color, Tint, Position, Size and Zoom

xx. Store recorded files in a MP4(M4V) format.

xxi. Support system workflow alarms for events including, but not limited to:

    1. Loss of video or audio
    2. Disk space or disk errors
    3. Recording suspended

xxii. Provide no less than 32 GByte SSD for recording storage

xxiii. Provide the following file storage information:

    1. Recording directory, File name and Recording status

xxiv. Provide the following storage configuration options:

    1. Select drive, Configure drive, File system selection, Disk cleanup, Drive status, Available free space and Drive capacity

xxv. Support FTP and CIFS/SMB file transfer protocols to copy and move recording files to defined storage location

xxvi. Support disabling of front panel controls to prevent inadvertent or unauthorized changes to configuration settings

xxvii. Provide an embedded web page for configuration, monitoring, and control

POWELL, DELORES J. (LARC-B1)[LAMPS]

From: Sacra, Darrell W. (LARC-D107)
Sent: Thursday, January 08, 2015 1:05 PM
To: POWELL, DELORES J. (LARC-B1)[LAMPS]
Subject: RE: PR 4200536694 SPECIFICATIONS
Attachments: PR4200536694 Specifications (Revised-02).doc

Delores,

I've changed couple of more items mostly dealing with the size of items.
This is the generic minimum specifications.

Darrell

From: POWELL, DELORES J. (LARC-B1)[LAMPS]
Sent: Thursday, January 08, 2015 12:42 PM
To: Sacra, Darrell W. (LARC-D107)
Subject: RE: PR 4200536694 SPECIFICATIONS

Darrell Sarca,

Thanks, The revised specifications has been reviewed.
Since the specification are submitted in such an overly detailed manner, request acknowledge these are your generic minimum specifications requirements and not written in such a manner that would keep other vendors from submitted a quote.

Thanks

Delores Powell
GENEX SYSTEMS
Contract Specialist, Office of Procurement
NASA Langley Research Center
5 Langley Blvd
Bldg 2101, Room 320-31
Hampton, VA. 23681-2199
Office: 757-864-2437
FAX: 757-864-6404

From: Sacra, Darrell W. (LARC-D107)
Sent: Wednesday, January 07, 2015 11:23 AM
To: POWELL, DELORES J. (LARC-B1)[LAMPS]
Subject: RE: PR 4200536694 SPECIFICATIONS

Delores,

I've revised the specifications for minimum specifications requirements.

Darrell

From: POWELL, DELORES J. (LARC-B1)[LAMPS]
Sent: Wednesday, January 07, 2015 9:20 AM
To: Sacra, Darrell W. (LARC-D107)
Subject: FW: PR 4200536694 SPECIFICATIONS

Darrel Sacra,

The attached specifications have been reviewed and will require further clarification. The specifications appears to be overly detailed to allow legitmate competition from other vendors for an "OR EQUAL BRAND". Request advise if the specification can be revised to meet your minimum specifications requirements.

Please call if further clarification is required and I can arrange a conference call with the Contracting Officer is assist with is request.

Thanks

Delores Powell
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From: Deyoung, Russell J. (LARC-E304)
Sent: Thursday, December 18, 2014 10:36 AM
To: POWELL, DELORES J. (LARC-B1)[LAMPS]
Subject: RE: PR 4200536339 SPECIFICATIONS RESEND

The manufacture is Lufft USA

From: POWELL, DELORES J. (LARC-B1)[LAMPS]
Sent: Thursday, December 18, 2014 7:52 AM
To: Deyoung, Russell J. (LARC-E304)
Subject: RE: PR 4200536339 SPECIFICATIONS RESEND

Russell Deyoung,

OK, then I will have to competed Brand name or Equal. I will need to know the manufacture Brand or part number for the specifications you are submitting. Then I can compete brand name or equal based on the specification provided.

Thanks

Delores Powell
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From: Deyoung, Russell J. (LARC-E304)
Sent: Wednesday, December 17, 2014 5:38 PM
To: POWELL, DELORES J. (LARC-B1)[LAMPS]
Subject: RE: PR 4200536339 SPECIFICATIONS RESEND

Delores,

The specs are for a particular manufacture, but other manufactures use the same specs. Delete "principal NTC"

Russell

From: POWELL, DELORES J. (LARC-B1)[LAMPS]
Sent: Wednesday, December 17, 2014 12:05 PM
To: Deyoung, Russell J. (LARC-E304)
Subject: RE: PR 4200536339 SPECIFICATIONS RESEND

Request provide the additional information requested below.

Thanks

From: Deyoung, Russell J. (LARC-E304)
Sent: Wednesday, December 17, 2014 12:14 PM
To: POWELL, DELORES J. (LARC-B1)[LAMPS]
Subject: RE: PR 4200536339 SPECIFICATIONS RESEND

Weather Station

From: POWELL, DELORES J. (LARC-B1)[LAMPS]
Sent: Wednesday, December 17, 2014 9:26 AM
To: Deyoung, Russell J. (LARC-E304)
Subject: FW: PR 4200536339 SPECIFICATIONS RESEND

Shall the specification be referenced as Weather Sensor or Weather Station?

From: POWELL, DELORES J. (LARC-B1)[LAMPS]
Sent: Wednesday, December 17, 2014 9:47 AM
To: Deyoung, Russell J. (LARC-E304)
Subject: PR 4200536339 SPECIFICATIONS

Russell DeYoung,

Request clarification on the attached specification provided.
Since the specifications provided will have to be competed, request acknowledge these are your generic specifications and not those of another vendor.
Also, the temperature – Principle what is "NTC"

Thanks

Delores Powell
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