# INVITATION TO BIDS/ PROPOSALS

BUIC/MD/2025/1078

Dated: 20 May 2025

## PROCUREMENT OF 03 X CAMERAS STUDIO UPGRADATION – BUI E8 CAMPUS

1. Sealed bids are invited for procurement of **03 X CAMERAS STUDIO UPGRADATION** for Bahria University Islamabad E-8 Campus, from GST registered firms/ Suppliers:

### CAMERAS STUDIO UPGRADATION SPECIFICATION AS UNDER:

| Description | Qty |
|---|---|
| 4K Studio Camera Features Effective Sensor Size 23.10mm x 12.99mm (Super 35) Lens Mount Active EF mount. Lens Control Iris, focus, zoom on supported lenses. Dynamic Range 13 Stops. Dual Native ISO 0dB and 18dB gain. Sensitivity at 0dB Gain f11 with 2160p59.94. f12 with 2160p50. at 2,000 lux with 89.9% reflectance. Signal to Noise Ratio 64.62dB for 2160p Ultra HD scaled from 4K Recording Resolutions 4096 x 2160 (4K) up to 60 fps 3840 x 2160 (Ultra HD) up to 60 fps Video Output Standards 2160p, 1080p, 1080i Frame Rates Project frame rates of 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60 fps supported. Off-speed frame rates 5 - 50 fps in 4K, and 5 - 60 fps for all other recording resolutions. Built in ND Filters Four position ND filter with clear, 2-stop, 4-stop and 6-stop IR ND filters. Focus Auto focus available using compatible lenses. Screen Dimensions 7 inch 1920 x 1200 Screen Type LCD capacitive touchscreen. Screen Brightness 2000 nits Controls Touchscreen camera settings and menus with rotary settings dial, program button, F1, F2 and F3 assignable function buttons, brightness contrast and peaking dials. Mounting Options 2 x 1/4 inch tripod mount. 1 x 3/8 inch tripod mount. Connections SDI Video Inputs 1 SDI Video Outputs 1 SDI Rates 1.5G, 3G, 6G, 12G. HDMI 2.0 Video Outputs 1 Analog Audio Input 2 x XLR analog switchable between mic and line levels. Phantom power support. 1 x 3.5mm Stereo Input. Can also be used for Timecode input. Analog Audio Output 1 x 5-pin XLR for talkback headset. 1 x 3.5mm TRRS mini jack for headphones with mic. SDI Audio Output 2 channels of program audio embedded in 1.5G/3G/6G/12G-SDI. 2 talkback channels on 15 and 16. Reference Inputs Tri-Sync or Black Burst when used with optional Studio Converter. Remote Control Remote camera control over SDI, HDMI or Ethernet. Ethernet 10Gb/s. | 03 |
| 1) Total Video Inputs 10 Total Video Outputs 6 SDI Rates 1.5G, 3G, 6G, 12G Total Audio Inputs 2 x balanced 1/4 inch Jack, 1 x 5 pin XLR Talkback. Total Audio Outputs 1 x 5 pin XLR Talkback. SDI Audio Inputs 8 Ch embedded audio on all SDI inputs. SDI Audio Outputs 16 Ch embedded audio on all SDI outputs. Timecode Connections None Reference Input Tri-Sync or Black Burst. Video Input Re-Sync On all 10 inputs. Frame Rate and Format Converters On all 10 inputs. SDI Aux Outputs Any of the 6 SDI outputs. SDI Preview Outputs Any of the 6 SDI outputs. SDI Program Outputs Any of the 6 SDI outputs. Down Converted SDI Program Output 1 Webcam Output 1 x USB-C supporting 720p or 1080p at PGM frame rate. Total Multi Views 1 x 12G-SDI Control Panel Connection Ethernet. Direct connection between panel and chassis, or via network. Internal Timecode Generator Yes Talkback RJ45 for 3rd party talkback systems. Tally Output Added via ethernet connection to Blackmagic Design GPI and Tally Interface product. (Not included). Ethernet Supports 10/100/1000 BASE-T. Computer Interface 1 x USB-C supports USB 2.0 <br> 2) Number of Mix Effects Rows 1 Direct Cross Points 10 Shifted Cross Points 20 Crosspoint Button Type Tri-Color LED Preview Transition 1 Switching Type Buttons CUT and AUTO Transition Type Buttons DIP, DVE, STINGER, MIX, WIPE. M/E Select Buttons 4 Upstream Key Buttons 4 with ON/OFF Downstream Key Buttons 2 with ON/OFF Transition Slider 1 <br> 3) Camera Selection Virtual buttons 8 x NKK buttons. Assignable via setup utility. Camera Number Display Green off air, red on air. Setup White and black balance setup. Flare via modifier key. 3 Axis Joystick 1 Preview Button 1 Iris Control Auto Iris On, Coarse control. Iris Range CLS f32 to f1.2 Gain Range -12dB to +32dB ND Filters 0, 2, 4, 6. Shutter Range | 01 |

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| 1/24 to 1/2000 White Balance Range 2500K to 10,000K Recallable Scenes 5 per camera. Panel Active Protects settings. | |
| lenses with the features and performance of their lineup. Designed for use with cameras featuring sensors, the lens covers an incredibly useful focal range while maintaining a constant T-stop of throughout. Measuring 7.2" long and weighing only 2.65 lb, the lens presents itself as a compact, lightweight option suitable for a variety of productions, from narrative work to run-and-gun documentaries. Notably, the lens is option to incorporate image stabilization and autofocus functionality when paired with cameras. | 03 |

2.     Details of specifications and scope of work is given in the bidding documents, which can be purchased on submission of a written application on firm's letter head (with mentioned NTN No) upon payment of **Rs.5,000/- (Rupees Five Thousand Only),** Non Refundable Fee in the shape of **Pay Order/ DD** in favour of **Bahria University Islamabad,** from the 'Office of DD Procurement, Room No. 15, Basement Quaid Block, Bahria University Head Office, Sector E-8, Islamabad between   hrs except Saturdays, Sundays and public holidays.

3.     Single Stage - Two Envelope bidding procedure shall apply as per PPRA Rules 2004. Sealed bids in accordance with instructions given in the bidding documents must reach on or before **5 June 2025** by **1100 hrs** at the Office of DD Procurement, Room No.15, Bahria University Head Office, Sector E-8, Islamabad. **Technical bids will be opened on the same day at 1130 hours** (being) Eid Holiday the same will be opened on next working day,  in the presence of the bidders/ their authorized representatives, who may choose to be present. Conditional/ incomplete bids will be considered **Non Responsive**. 2% bid security of total bid value must be submitted in shape of Pay Order/DD in favour of "**Bahria University Islamabad**". NTN No. of BU is **2132767-0**.

4.     The bidders are requested to give their best and final prices inclusive of all applicable taxes, transportation, and installation etc. Bahria University may reject all bids/ proposals at any time prior to the acceptance by invoking Rule 33 of PPRA-2004.

5.     For any technical information, please contact DD IT (Campus E-8) on Phone No.051-9260002 Ext 1100 from Monday till Friday between 0930 to 1500 hrs, except holidays.

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