

# The Islamia University of Bahawalpur

### **TENDER NOTICE**

### INVITATION FOR BIDS

Sealed Tenders are invited from GST & Income Tax registered Manufacturer/Firms or their Authorized Distributors/Dealers/Suppliers for Supply of <u>IT Items</u>, on item rate Basis for TV Studio Media Studies of the Islamia University of Bahawalpur on FOR basis as per detail given below:-

Sr-No.	Category (Specifications in Tender Documents)	<b>Estimated Cost</b>	2% Bid Security
A	IT Items for TV Studio Media Studies	Rs.4,335,700/-	Rs.86,714/-

- 1. Interested bidders may get the Tender Documents containing detailed specifications, terms and conditions from the Purchase Section, Treasurer's Office Abbasia Campus, the Islamia University of Bahawalpur during office hours 8:00 A.M. to 4:00 P.M. on submission of written application on letter head and a copy of CNIC OR can be down loaded from the IUB Website <a href="www.iub.edu.pk">www.iub.edu.pk</a> or PPRA website <a href="www.ppra.punjab.gov.pk">www.ppra.punjab.gov.pk</a> on payment of (nonrefundable fee) Rs.1000/- through HBL Bank challan in A/C 14730000010403 or pay order in the name of the Treasurer Islamia University of Bahawalpur.
- 2. **2% bid security** (**re-fundable**) of the total estimated cost as mentioned above in shape of Bank Guarantee shall be attached with the bid, otherwise bid will not be entertained.
- 3. <u>Single Stage Two Envelope</u> bidding procedure will be adopted as per PPRA Rules 38- 2(a). The Envelope shall be marked as "TECHNICAL PROPOSAL" AND "FINANCIAL PROPOSAL" in legible letters. Financial Proposal of bids found technically non-responsive shall be returned un-opened.
- 4. Procurement shall be governed under the Punjab Procurement Rules 2014.
- 5. The rates should be quoted inclusive all taxes. Copy of paid bank challan Professional tax also be Provided.
- 6. The procuring agency may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The procuring agency shall upon request communicate to any bidder, the grounds for rejection of all bids or proposals, but shall not be required to justify those grounds.
- 7. Tender must reach in the Treasurer's Office on or before **20.05.2021** by **11:00 A.M.** which will be opened on the same day at **11:30 AM** in the presence of bidders or their representatives.
- 8. All bids submitted after the given time, incomplete and alternate bidding shall not be accepted.
- 9. All prevailing taxes will be applicable as per Govt. Rules & Regulations, i.e. (income tax, Sales tax, etc).
- 10. The offered rates shall be valid upto 90-days from the date of opening of the tender.
- 11. In case of closed/forced holidays, tender opening time/date will be considered as the next working day.



Treasurer
The Islamia University of Bahawalpur
Abbasia Campus, Bahawalpur.
Phone: 062-9250245, 9250328
Fax No: 062-9250255

Islamia University of Bahawalpur

# PROCUREMENT OF IT ITEMS FOR TV STUDIO MEDIA STUDIES TENDER-A FORM

Name of Firm:	
Mailing Address:	
Phone No:	4. Fax No:
Tender Fee Challan No. & amount	CDR No. & Amount
General Sale Tax No:	7. Income Tax No
Professional Tax No:	
	Mailing Address: Phone No: Tender Fee Challan No. & amount

Sr.	Items Specs (Complete Solution is required for all the items)	QTY	Rater per
JI.	items specs (complete solution is required for all the items)	QII	Items with
1	Item Type: Video Camcorder	2	
	Specifications:		
	Power DC 12V (AC adaptor), DC 7.4V (battery)		
	Power consumption Approx. 7.9W (with VF in 4K REC mode, default setting)		
	Weight Approx. 1.4kg (when battery is not installed)		
	Dimensions 149 (W) x 191 (H) x 307 (D) mm		
	Operation temperature 0°C to 40°C		
	Storage temperature -20°C to 50°C		
	Operating humidity 30% to 80%		
	Storage humidity Under 85%		
	Image sensor 1/2.3-inch back-side illuminated CMOS, total 12.4M pixels		
	Synchronizing Internal synchronization Stabilizer Optical image stabilizer		
	Shutter speed 1/4 — 1/10000		
	Lens 35mm equivalent: 29.6mm to 355mm		
	Filter diameter 62mm		
	Gain 0, 3, 6, 9, 12, 15, 18, 21, 24 dB, Lolux (30, 36 dB), AGC		
	ND filter None, 1/4, 1/16		
	LCD display 3.5-inch 920 k pixels, 16:9		
	Viewfinder 0.24-inch 1.56 M pixel, 16:9		
	Recording media 2x SDHC/SDXC memory card (4K (150Mbps): UHS-1 U3 4K (70Mbps), HD: 50Mbps Class 10, HD:		
	35Mbps Class 6, AVCHD/SD Class 4), High-Speed: UHS-1 U3		
	Video recording Video codec: MPEG-4 AVC/H.264 (4K/HD/SD/Proxy), AVCHD (HD/SD) File format: MOV (H.264), MTS		
	(AVCHD)		
	Audio recording LPCM 2ch, 48kHz/16-bit (4k/HD/SD MOV), AC3 2ch (AVCHD), μ-law 2ch (Proxy)		
	INTERFACES  Video output SPI output (DNC v. 1) LIDAM output v. 1. AV output / 2. Fmm mini isola v. 1)		
	Video output SDI output (BNC x 1), HDMI output x 1, AV output (3.5mm mini jack x 1) Audio input XLR x 2 (MIC, +48V/LINE), 3.5mm mini jack x 1		
	Audio niput AV output (3.5mm mini jack x 1)		
	Headphone 3.5mm mini jack x 1		
	Remote 2.5mm mini jack x 1		
	USB DEVICE x 1 (mass storage)		
	PROVIDED ACCESSORIES Handle unit, AC adapter x 1		
	Recording formats on 64GB SD card		
	4K QuickTime (MPEG-4. AVC/H.264) 3840×2160 29.97p/25p/23.98p 150Mbps/70Mbps (YUV 4:2:2/Normal) LPCM		
	2ch 48kHz/16bit 50 min./105 min.		
	HD 1920x1080 59.94p/59.94i/50p/50i/29.97p/25p/23.98p 50Mbps (YUV4:2:2/XHQ) 145 min.		
	59.94p/59.94i/50p/50i/29.97p/25p/23.98p 35Mbps (UHQ) 200 min.		
	1280×720 59.94p/50p 35Mbps (UHQ) AVCHD 1920x1080 59.94p/50p 28Mbps (HQ) Dolby Digital 2ch 48kHz/16bit		
	256kbps 270 min. 59.94i/50i 24Mbps (HQ), 18Mbps (SP) 312 min./400 min.		
	SD QuickTime 720×576 50i 8Mbps (HQ) LPCM 2ch 48kHz/16bit 760 min. AVCHD Dolby Digital 2ch 48kHz/16bit		
	256kbps 842 min.		
	WEB (Proxy) QuickTime (MPEG-4. AVC/H.264) 960×540 29.97p/25p/23.98p 3Mbps (HQ) μ-law 2ch 16kHz 2160 min.		
	720×480 59.94i 8Mbps LPCM 2ch 48kHz/16bit 760 min. 720×576 50i 480×270 29.97p/25p/23.98p 1.2Mbps (LP) µ-		
	law 2ch 16kHz 4720 min.		
	AVCHD 1440×1080 59.94i/50i 9Mbps (LP), 5Mbps (EP) Dolby Digital 2ch 48kHz/16bit 256kbps 760 min./1344 min.		
	720×480 59.94i 8Mbps 760 min. 720×576 50i High-Speed (MPEG-4. AVC/H.264) QuickTime 1920x1080 120fps		
	59.94p/29.97p/23.98p 100fps 50p/25p 50Mbps (XHQ), 35Mbps (UHQ) — (Differs by setting)		
2	Item Type: Tripod	3	
	Specifications:		
	Product Dimensions 31.5 x 6.7 x 6.7 inches		
	Item Weight 7.2 pounds		
	Item model number   I-605DX Pro Tripod System   Material   Aluminum		
	Tripod Head Type Fluid Heads		
	Weight Limit 6.6 Pounds		
	Item Weight 7.2 Pounds		
	This Item Includes: i-605DX Tripod - 605 Fluid Head - Middle Spreader - S-7 Carrying Case - 1 Year Warranty		
	Payload: 3kg / 6.6lbs		
	Tilt angle: +90 deg./-60 deg.		
	Counterbalance: FIX		
	Drag mode: FIX		1

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<u>3</u>	<u>Item Type: Battery for serial no 1</u>	3	
	Specification:		
	47Wh 7.2V JVC SSL-JVC50-Type Battery		
	7.2V, 47Wh 6.6Ah capacity lithium-ion battery		
	Compatible with camcorders		
	Compact SSL-JVC50-type battery		
	Compatible with S-3602i and S-3010D chargers		
	7.2V, 2.1mm barrel DC input/output		
	5V, 2A USB Type-A port		
	4-level LED power indicator		
	Multiple circuit protections		
	Can exchange digital info with the cameras, and display remaining power info won the camera view finder		
4	Item Type: Battery Charger	2	
4	Specification:		
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	charger, SSL-JVC50		
	Mount / Series Type SSL Series		
	AC Input Power 100 to 240 VAC, 50 / 60 Hz		
	Output Voltage 8.4 VDC at 1.8 A		
	Chemistry Lithium-Ion		
	Maximum Wattage 50 W		
	Operating Temperature 32 to 104 degreesF / 0 to 40 degreesC		
	Dimensions 5.4 x 4.3 x 1.9" / 136 x 110 x 47 mm		
	Weight 12.7 oz / 360 g		
	Package Weight 1.65 lb		
	Box Dimensions (LxWxH) 9.2 x 7.8 x 2.7"		
	The dual charger also has two 5.5/2.1mm DC pole sockets to provide 8.4V, 3.5A (total) DC adapting output.		
	The S-7500I dummy adapter is included		
<u>5</u>	Item Type: SD Card	8	
-	Specifications:		
	Item Type: SD memory card		
	64GB/ 170mb extreme pro UHS - SDXC memory card		
	minimum 64GB Storage Capacity		
	UHS-I / V30 / U3 / Class 10		
	Max Read Speed: 170 MB/s		
	Max Write Speed: 90 MB/s		
	Min Write Speed: 30 MB/s Records Full HD, 3D, and 4K Video		
<u> </u>	Built-In Write-Protect Switch		
<u>6</u>	Soft Carrying Case for serial no 1	3	
7	Item Type: Television Studio HD	1	
<u> </u>	Total Video Inputs 8	_	
	Total Outputs 12		
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	Total Aux Outputs 1		
	SDI Rates 1.5G, 3G, 6G, 12G.		
	Total Audio Inputs 2 x XLR. 1 x Microphone.		
	Total Audio Outputs 1 x Headphone.		
	SDI Video Inputs 8 x 10-bit HD/UHD switchable. 2 channel embedded audio.		
	HDMI Video Inputs None		
	Reference Inputs Tri-Sync or Black Burst.		
	Video Input Re- Sync On all 8 inputs.		
	Frame rate and format convertors On all 8 inputs.		
	SDI Program Outputs 9 x 10-bit HD/UHD switchable.		
	SDI Audio Outputs 2 Ch embedded into SDI output.		
	Total Multi Views 1		
	SDI Multi View Outputs 1		
	HDMI Multi View Outputs 1		
	SD Video Standards None		
	HD Video Standards		
	720p50, 720p59.94		
	1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p50, 1080p59.94		
	1080i50, 1080i59.94		
	Ultra HD Video Standards		
	Ultra HD Video Standards 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94 SDI Compliance 292M and 424M, 2081, 2082.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94 SDI Compliance 292M and 424M, 2081, 2082. Video Sampling 4:2:2 10- bit		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94 SDI Compliance 292M and 424M, 2081, 2082. Video Sampling 4:2:2 10- bit Color Precision 4:2:2 10- bit Color Space 4:2:2 YUV Input Resolutions for Computers 720p50, 720p59.94		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 1		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 1  Linear/Luma Keyers 3		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 3  Talkback Support Built in, uses aviation headset.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10- bit  Color Precision 4:2:2 10- bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 1  Linear/Luma Keyers 3		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 3  Talkback Support Built in, uses aviation headset.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 1  Linear/Luma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 1  Linear/Luma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.  Total Number of Layers 5		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 1  Linear/Luma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.  Total Number of Layers 5  Pattern Generators 2		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 1  Linear/Luma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.  Total Number of Layers 5  Pattern Generators 2  Color Generators 2		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p59, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.  Total Number of Layers 5  Pattern Generators 2  Color Generators 2  DVE with 3D Borders & Drop Shadow 1		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p59, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97,1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59, 94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 1  Linear/Luma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.  Total Number of Layers 5  Pattern Generators 2  Color Generators 2  DVE with 3D Borders & Drop Shadow 1  Interface Minimum monitor resolution of 1366 x 768.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p59, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.  Total Number of Layers 5  Pattern Generators 2  Color Generators 2  DVE with 3D Borders & Drop Shadow 1  Interface Minimum monitor resolution of 1366 x 768.  Number of Windows 1 x 10  Routable Windows 8 routable and 2 fixed for Program and Preview.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p50, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 Input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 1  Linear/Luma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Built in, uses aviation headset.  Mix Minus Support Built in, uses aviation headset.  Mix Minus Support Pso, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.  Total Number of Layers 5  Pattern Generators 2  Color Generators 2  Color Generators 2  DVE with 3D Borders & Drop Shadow 1  Interface Minimum monitor resolution of 1366 x 768.  Number of Windows 8 routable and 2 fixed for Program and Preview.  Tally Red for program and green for preview indication.		
	2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p59, 2160p59.94  SDI Compliance 292M and 424M, 2081, 2082.  Video Sampling 4:2:2 10 - bit  Color Precision 4:2:2 10 - bit  Color Space 4:2:2 YUV  Input Resolutions for Computers 720p50, 720p59.94  1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60  1080i50, 1080i59.94, 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p50, 2160p59.94, 2160p60.  Colorspace Conversion None  Processing Delay 6 Lines.  Audio Mixer 12 input x 2 channel mixer.  Selectable On/Off/Audio-Follow-Video per channel plus separate gain control per channel.  Level and Peak metering. Plus new Fairlight audio enhancements: Compressor, Gate, Limiter, 6 bands of parametric EQ. Delay line and Stereo Synthesizer on the XLR inputs only.  Master gain control. Headphone output level control with separate mix of Program, Talkback and Sidetone.  Upstream Keyers 1 with Chroma/Linear/Luma key.  Downstream Keyers 2  Chroma Keyers 3  Talkback Support Built in, uses aviation headset.  Mix Minus Support Yes, on 8 camera PGM outputs.  Transition Keyer (Stinger/DVE) Stinger and DVE.  Total Number of Layers 5  Pattern Generators 2  Color Generators 2  DVE with 3D Borders & Drop Shadow 1  Interface Minimum monitor resolution of 1366 x 768.  Number of Windows 1 x 10  Routable Windows 8 routable and 2 fixed for Program and Preview.		

	Windows Source Labels Yes.		
	Multi View Monitoring 1 x 10 Views.		
	Multi View Video Standard HD/Ultra HD.		
	Media Players 2, with non volatile flash memory.		
	Media Pool Still Image Capacity 20 with fill and key.		
	Media Pool Still Image Format PNG, TGA, BMP, GIF, JPEG and TIFF.		
	Channels Fill and key for each Media Player.		
	Media Pool Clip Capacity 2 with fill and key. Shared pool.		
	Media Pool Clip File Format TGA Sequence.		
	Media Player Clip Length in 720 HD 1440 frames.		
	Media Player Clip Length in 1080 HD 360 frames.		
	Media Player Clip Length in Ultra HD 90 frames.		
	Media Pool Audio File Format WAV, MP3 and AIFF.		
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	Control Panel Built in with camera control. Software panel included. Supports optional broadcast panel.		
	Control Panel Compatibilty Includes ATEM Software Control Panel. Also compatible with ATEM 1 M/E Broadcast		
	Panel and ATEM 2 M/E Broadcast Panel.		
	Control Panel Included ATEM Software Control Panel included free for Mac 10.12 Sierra or Mac 10.13 High Sierra or		
	later and Windows 8.1 64-bit or Windows 10 64 - bit.		
	Power Supply 1 x Internal 100 - 240V AC. 4 pin 12VDC.		
	Power Usage 70W 12 Months Limited Manufacturer's Warranty		
8	Item Type: Studio Mini	1	
_	SDI Video Inputs 1	_	
	SDI Video Outputs2		
	'		
	SDI Rates 270Mb, 1.5G-SDI, 3G-SDI, 6G-SDI		
	HDMI Video Outputs 1 x HDMI type A connector.		
	Power over Ethernet 1 x Ethernet with Power over Ethernet	ĺ	
	Analog Video Inputs None.		
	Analog Video Outputs None.		
	Analog Audio Inputs None, embedded audio only.	ĺ	
	Analog Audio Outputs None, embedded audio only.		
	Timecode connection None.	ĺ	
	SDI Audio Inputs 16 channels embedded in SD and HD in QuickTime files.		
	SDI Audio Outputs 16 channels embedded in SD and HD in QuickTime files.	ĺ	
	HDMI Audio Inputs None.		
	HDMI Audio Outputs 8 channels embedded in SD, HD and UHD in QuickTime files.		
	Reference Input Tri-Sync or Black Burst.		
	Reference Generator Tri-Sync or Black Burst.		
	Computer Interface 1 x USB 2.0 type C for software updates and HyperDeck Utility software control.		
	SD Video Standards 525i59.94 NTSC, 625i50 PAL		
	HD Video Standards 720p50, 720p59.94, 720p60		
	1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60		
	1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30		
	1080i50, 1080i59.94, 1080i60		
	Ultra HD Video Standards 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30		
1	SDI Compliance SMPTE 259M, 292M, 296M and 425M		
	357 Compliance Sivil 12 235W, 250W and 125W		
	SDI Metadata Support HD RP 188 and closed captioning.		
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	SDI Metadata Support HD RP 188 and closed captioning.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNxHD 220x, DNxHD 145, DNxHD 45, DNxHD 220x MXF, DNxHD 145 MXF, DNxHD 45 MXF, DNxHR HQX, DNxHR SQ,		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNxHD 220x, DNxHD 145, DNxHD 45, DNxHD 220x MXF, DNxHD 145 MXF, DNxHD 45 MXF, DNxHR HQX, DNxHR SQ, DNxHR LB, DNxHR HQX MXF, DNxHR SQ MXF, DNxHR LB MXF. ProRes 422 HQ QuickTime, ProRes 422 QuickTime,		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNxHD 220x, DNxHD 145, DNxHD 45, DNxHD 220x MXF, DNxHD 145 MXF, DNxHD 45 MXF, DNxHR HQX, DNxHR SQ, DNxHR LB, DNxHR HQX MXF, DNxHR SQ MXF, DNxHR LB MXF. ProRes 422 HQ QuickTime, ProRes 422 LT QuickTime, ProRes 4244 QuickTime in HD for fill and key playback,		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNxHD 220x, DNxHD 145, DNxHD 45, DNxHD 220x MXF, DNxHD 145 MXF, DNxHD 45 MXF, DNxHR HQX, DNxHR SQ, DNxHR LB, DNxHR HQX MXF, DNxHR SQ MXF, DNxHR LB MXF. ProRes 422 HQ QuickTime, ProRes 422 LT QuickTime, ProRes 422 Proxy QuickTime. ProRes 4444 QuickTime in HD for fill and key playback, H.264 in 720p and 1080p.		
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	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media 7 ype UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNXHD 220x, DNXHD 145, DNXHD 45, DNXHD 220x MXF, DNXHD 145 MXF, DNXHD 45 MXF, DNXHR NQX, DNXHR SQ, DNXHR LB, DNXHR HQX, MXF, DNXHR SQ, MXF, DNXHR LB, DNXHR HQX MXF, DNXHR SQ, MXF, DNXHR IB MXF. ProRes 422 HQ QuickTime, ProRes 422 LT QuickTime, ProRes 422 Proxy QuickTime. ProRes 4244 QuickTime in HD for fill and key playback, H.264 in 720p and 1080p. Built-in Control Panel 8 buttons for menu control, 2.2 inch color display, and a rotary wheel. External Control RS-422 deck control, SDI start/stop, timecode run. Includes Blackmagic HyperDeck SDK and Ethernet HyperDeck Control Protocol. Supports remote FTP file upload. Built in LCD for video, audio and timecode monitoring and menu settings 2 x LED indicator lights above the SD slots. 1/3 rack unit size. Less than 7 inches deep. Power Supply 1x Internal 100 - 240V AC.12 Month Limited Manufacturer's Warranty.  Item Type: Mini Analog to SDI converter Analog to SDI Converter SDI Video Outputs 2 x SDI Video Outputs. Analog Video Inputs NTSC, PAL, S - Video and Component SD/HD input. Analog Audio Inputs 2 channels of balanced analog audio. Digital Audio Inputs 2 channels of balanced analog audio. Multi Rate Support Auto detection of SD or HD. Updates and Configuration Via USB 2.0 high speed. (480 Mb/s) Reclocking Yes  Item Type: Mini SDI To Analog Converter SDI Video Outputs 1 x SD, HD or 1.5G-SDI. 1 x ALT SDI Input for automatic switch over if main input fails. SDI Video Outputs 1 x SD, HD or 1.5G-SDI. 1 x ALT SDI Input for automatic switch over if main input fails.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNxHD 220x, DNxHD 145, DNxHD 45, DNxHD 220x MXF, DNxHD 145 MXF, DNxHD 45 MXF, DNxHR HQX, DNxHR SQ, DNxHR LB, DNxHR HQX MXF, DNxHR SQ MXF, DNxHR LB MXF. ProRes 422 HQ QuickTime, ProRes 422 QuickTime, ProRes 422 LT QuickTime, ProRes 422 Proxy QuickTime. ProRes 4444 QuickTime in HD for fill and key playback, H.264 in 720p and 1080p. Built-in Control Panel 8 buttons for menu control, 2.2 inch color display, and a rotary wheel. External Control RS-422 deck control, SDI start/stop, timecode run. Includes Blackmagic HyperDeck SDK and Ethernet HyperDeck Control Protocol. Supports remote FTP file upload. Built in LCD for video, audio and timecode monitoring and menu settings 2 x LED indicator lights above the SD slots. 1/3 rack unit size. Less than 7 inches deep. Power Supply 1x Internal 100 - 240V AC.12 Month Limited Manufacturer's Warranty.  Item Type: Mini Analog to SDI converter SDI Video Outputs 2 x SDI Video Outputs. Analog Video Inputs 7 Channels of balanced AES/EBU audio. Multi Rate Support Auto detection of SD or HD. Updates and Configuration Via USB 2.0 high speed. (480 Mb/s) Reclocking Yes  Item Type: Mini SDI To Analog Converter SDI Video Inputs 1 x SD, HD or 1.5G-SDI. 1 x ALT SDI Input for automatic switch over if main input fails. SDI Video Outputs 1 x SDI Loop Output. SDI Astes SZ70Mb, 1.5G Analog Video Outputs NTSC, PAL, S-Video and component SD/HD from 1.5G-SDI input.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNXHD 220x, DNXHD 145, DNXHD 45, DNXHD 220x MXF, DNXHD 145 MXF, DNXHD 45 MXF, DNXHR HQX, DNXHR SQ, DNXHR LB, DNXHR HQX, MYF, DNXHR SQ, MXF, DNXHR LB, MXF. ProRes 422 LT QuickTime, ProRes 422 Proxy QuickTime. ProRes 422 HQ QuickTime, ProRes 422 LT QuickTime, ProRes 422 Proxy QuickTime. ProRes 424 In 720p and 1080p. Built-in Control Panel 8 buttons for menu control, 2.2 inch color display, and a rotary wheel. External Control RS-422 deck control, SDI start/stop, timecode run. Includes Blackmagic HyperDeck SDK and Ethernet HyperDeck Control Protocol. Supports remote FTP file upload. Built in LCD for video, audio and timecode monitoring and menu settings 2 x LED indicator lights above the SD slots. 1/3 rack unit size. Less than 7 inches deep. Power Supply 1x Internal 100 - 240V AC.12 Month Limited Manufacturer's Warranty.  Item Type: Mini Analog to SDI converter Analog to SDI Converter SDI Video Outputs 2 x SDI Video Outputs. Analog Video Inputs 1x SD, HD or 1.56-SDI. 1x ALT SDI Input for automatic switch over if main input fails.  Multi Rate Support Auto detection of SD or HD. Updates and Configuration Via USB 2.0 high speed. (480 Mb/s) Reclocking Yes  Item Type: Mini SDI To Analog Converter SDI Video Inputs 1 x SD, HD or 1.56-SDI. 1 x ALT SDI Input for automatic switch over if main input fails. SDI Video Outputs 1 x SD, HD or 1.56-SDI. 1 x ALT SDI Input for automatic switch over if main input fails. SDI Video Outputs 1 x SD, HD or 1.56-SDI. 1 x ALT SDI Input for automatic switch over if main input fails. SDI Video Outputs 1 x SD, LD or 0 output.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNxHD 220x, DNxHD 145, DNxHD 45, DNxHD 220x MXF, DNxHD 145 MXF, DNxHD 45 MXF, DNxHR HQX, DNxHR SQ, DNxHR LB, DNxHR HQX, DNxHR SQ, MXF, DNxHR LB, MXF, PNXHD 145, DNxHD 45, DNxHR SQ, MXF, DNxHR LB MXF. ProRes 422 HQ QuickTime, ProRes 422 QuickTime, ProRes 422 LT QuickTime, ProRes 422 Proxy QuickTime. ProRes 4244 QuickTime in HD for fill and key playback, H.264 in 720p and 1080p. Built-in Control Panel 8 buttons for menu control, 2.2 inch color display, and a rotary wheel. External Control RS-422 deck control, SDI start/stop, timecode run. Includes Blackmagic HyperDeck SDK and Ethernet HyperDeck Control Protocol. Supports remote FTP file upload. Built in LCD for video, audio and timecode monitoring and menu settings 2 x LED indicator lights above the SD slots. 1/3 rack unit size. Less than 7 inches deep. Power Supply 1x Internal 100 - 240V AC.12 Month Limited Manufacturer's Warranty.  Item Type: Mini Analog to SDI converter Analog to SDI Converter SDI Video Outputs 2 channels of balanced AES/EBU audio. Multi Rate Support Auto detection of SD or HD. Updates and Configuration Via USB 2.0 high speed. (480 Mb/s) Reclocking Yes  Item Type: Mini SDI To Analog Converter SDI Video Outputs 1 x SDI, HD or 1.5G-SDI. 1 x ALT SDI Input for automatic switch over if main input fails. SDI Video Outputs 2 channels of professional balanced analog audio with standard 1/4 inch jack connections. Digital Audio Outputs 2 channels of professional balanced analog audio with standard 1/4 inch jack connections. Digital Audio Outputs 2 channels of balanced AES/EBU audio.		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNXHD 220x, DNXHD 145, DNXHD 45, DNXHD 220x MXF, DNXHD 145 MXF, DNXHD 45 MXF, DNXHR HQX, DNXHR NG, DNXHR LB, DNXHR HQX MXF, DNXHR SQ, MXF, DNXHR LB, DNXHR HQX MXF, DNXHR SQ, MXF, PNRH LB MXF. ProRes 422 HQ QuickTime, ProRes 422 QuickTime, ProRes 422 QuickTime, ProRes 422 QuickTime, ProRes 422 LQ QuickTime, ProRes 422 QuickTime, DroRes 422 QuickTime, ProRes 422 QuickTime, P		
	SDI Meradata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 14:4:44 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNxHD 220x, DNxHD 145, DNxHD 45, DNxHD 220x MXF, DNxHD 145 MXF, DNxHD 45 MXF, DNxHR HQX, DNxHR SQ, DNxHR LB, DNxHR HQX MXF, DNxHR SQ, MXF, DNxHR LB, DNxHR HQX MXF, DNxHR SQ, MXF, DNxHR LB, DNxHR HQX MXF, DNxHR SQ, MXF, DNxHR LB, DNxHR HQX MXF, DNxHR SQ, DNxHR LB, DNxHR HQX mix HQX quickTime, ProRes 422 QuickTime, ProRes 422 QuickTime, ProRes 422 LT QuickTime, ProRes 422 QuickTime, ProRes 422 LT QuickTime, ProRes 422 DNxHD 2016, ProRes 422 LT QuickTime in HD for fill and key playback, H.264 in 720p and 1080p.  Built-in Control Panel 8 buttons for menu control, 2.2 inch color display, and a rotary wheel. External Control RS-422 deck control, SD1 start/stop, timecode run. Includes Blackmagic HyperDeck SDK and Ethernet HyperDeck Control Protocol. Supports remote FTP file upload.  Built in LCD for video, audio and timecode monitoring and menu settings 2 x LED indicator lights above the SD slots. 1/3 rack unit size. Less than 7 inches deep. Power Supply 1x Internal 100 - 240V AC.12 Month Limited Manufacturer's Warranty.  Item Type: Mini Analog to SDI converter  Analog to SDI Converter  SDI Video Outputs 2 x SDI Video Outputs.  Analog Video Inputs NTSC, PAL, S-Video and Component SD/HD input.  Analog video Inputs SDI To Analog Converter  SDI Video Outputs SDI To Analog Converter  SDI V		
	SDI Metadata Support HD RP 188 and closed captioning. Audio Sampling Television standard sample rate of 48kHz and 24-bit. Video Sampling 4:4:4:4 Color Precision 10-bit Color Space REC 601, REC 709 Media 2 x SD for SD, HD and Ultra recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Type UHS II and able to support ProRes 4444 playback and 422 recording. Media Format Can format discs to ExFAT (Windows/Mac) or OS X Extended (Mac) file systems. Supported Codecs DNXHD 220x, DNXHD 145, DNXHD 45, DNXHD 220x MXF, DNXHD 145 MXF, DNXHD 45 MXF, DNXHR HQX, DNXHR NG, DNXHR LB, DNXHR HQX MXF, DNXHR SQ, MXF, DNXHR LB, DNXHR HQX MXF, DNXHR SQ, MXF, PNRH LB MXF. ProRes 422 HQ QuickTime, ProRes 422 QuickTime, ProRes 422 QuickTime, ProRes 422 QuickTime, ProRes 422 LQ QuickTime, ProRes 422 QuickTime, DroRes 422 QuickTime, ProRes 422 QuickTime, P		

11	Item Type: Digital Video Cable	1	
	Digital Video Cable 200 meters length	_	
	HD-Serial Digital Video.		
	Satellite Head Ends.		
	HDTV Upgrades.		
	Broadband Facilities.		
	SMPTE 259M, 292M,424M.		
	Solid Copper Center Conductor.		
	Foam PE Dielectric.		
	Tinned Copper Braid + 100% Foil Shield.		
	Dielectric strips away clean from Conductor.		
	Precision Coax 100% Sweep Tested.		
<u>12</u>	Item Type: Crimping Plug	50	
	Crimping Plug BNC-BCP-B3F		
	SMPTE 424M & 292M Compliant.		
	Serial Digital Video.  HDTV Upgrades.		
	NTSC Analog.		
	Test Equipment.		
	Satellite Headends. TELCOM.		
	True 75 ohm construction Crimp Pin & Sleeve.		
	High performance of 1.1 or less VSWR up to 3GHz.		
	Elongated Body for better finger grip.		
	Position mark on body allows the connector fit to be checked easily.		
	Superior cable pull strength.		
	Gold plated center pins 'snap' into place.		
	Connector Body has been die-cast, achieving a lower price with higher performance.		
	Easy Assembly using Canare Strip & Crimp Tools.	1 -	
<u>13</u>	Item Type: LED	1	
_	LED 40" FHD with wall mount and all accessories (cables, mount kit, screws etc)	1	
<u>14</u>	Item Type: Wireless Collar Mic	4	
	Receiver: Channels: 4		
	Operating Frequencies: 203-216MHz (A 203.65 MHz, B 207.75 MHz, C 211.55 MHz, D 215.35 MHz)		
	Reception Sensitivity: 2 μV for 30 dB S/N		
	Signal to Noise Ratio: 70dB or more Antenna: 1/8 λwire antenna		
	Voice Delay: 12ms		
	Receiver Output Connector: 1/8" (3.5mm) TRS mini-jack		
	DC Input: 9V DC (center-positive)		
	Current Consumption: 150mA		
	Batteries: 2 LR6/AA size batteries		
	Dimensions: 3.96" x 2.44" x 1.76" (100.5 x 62 x 44.7mm)		
	Weight: 2.8 oz (80g) (without batteries)		
	Antenna Length: 6.7" (177mm)		
	Transmitter: Channels: 4		
	Operating Frequencies: 203-216MHz (A 203.65 MHz, B 207.75 MHz, C 211.55 MHz, D 215.35 MHz)		
	Modulation Frequency: Modulation  Modulation Sensitivity: 6 mV input for full deviation		
	Signal to Noise Ratio: 70dB or more		
	Antenna: 1/8 \(\lambda\) wire antenna		
	Voice Delay: 12ms		
	Microphone Input Connector: Mini XLR		
	Current Consumption: 150mA		
	Batteries: 2 LR6/AA size batteries		
	Dimensions: 3.96" x 2.44" x 1.76" (100.5 x 62 x 44.7mm)		
	Weight: 2.8 oz (80g) (without batteries)		
	Antenna Length: 6.7" (177mm)		
<u>15</u>	Item Type: 14-Channel Compact analog Mixer	1	
	Type: Analog		
	Channels: 14 Faders: 13 60mm		
	Inputs - Mic Preamps: 6 x XLR (CH 1-6)		
	Phantom Power: 6		
	Inputs - Line: 6 x 1/4" (CH 1-6), 8 x 1/4" (CH 7-14 Stereo), 2 x RCA (Tape)		
	Outputs - Main: 2 x XLR, 2 x 1/4"		
	Outputs - Other: 2 x RCA (Tape), 2 x 1/4" (Control Room), 2 x 1/4" (Alt)		
	Aux Sends: 1 x Pre/Post, 1 x Post		
	Send/Return I/O: 2 x 1/4" (Send), 4 x 1/4" (Return)		
	Busses/Groups: Alt 3-4		
	Channel Inserts: Yes (CH 1-6)		
	Headphones: 1 x 1/4"	1	
	EO Bands: 2 hand		
	EQ Bands: 3-band Rackmountable: Yes		
	Rackmountable: Yes		
	Rackmountable: Yes		
	Rackmountable: Yes Height: 3.2"		
	Rackmountable: Yes Height: 3.2" Width: 14"		
<u>16</u>	Rackmountable: Yes Height: 3.2" Width: 14" Depth: 12.5"	2	
<u>16</u>	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w	2	
<u>16</u>	Rackmountable: Yes Height: 3.2" Width: 14" Depth: 12.5" Weight: 9.5 lbs.  Item Type: Speaker for Monitoring	2	
<u>16</u>	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w	2	
	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w +15w x 2, Subwoofer 5.25, Satellite 3"x2, Fr. Response 40Hz-20Hz, Warranty 1 year  Item Type: Headphone for monitoring headphones for monitoring Audio		
	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w +15w x 2, Subwoofer 5.25, Satellite 3"x2, Fr. Response 40Hz-20Hz, Warranty 1 year  Item Type: Headphone for monitoring headphones for monitoring Audio Driver Diameter Closed-back dynamic 40mm		
	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w +15w x 2, Subwoofer 5.25, Satellite 3"x2, Fr. Response 40Hz-20Hz, Warranty 1 year  Item Type: Headphone for monitoring headphones for monitoring Audio Driver Diameter Closed-back dynamic 40mm Frequency Response 20 - 22,000 Hz		
	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w +15w x 2, Subwoofer 5.25, Satellite 3"x2, Fr. Response 40Hz-20Hz, Warranty 1 year  Item Type: Headphone for monitoring headphones for monitoring Audio Driver Diameter Closed-back dynamic 40mm Frequency Response 20 - 22,000 Hz Maximum Input Power 500mW		
	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w +15w x 2, Subwoofer 5.25, Satellite 3"x2, Fr. Response 40Hz-20Hz, Warranty 1 year  Item Type: Headphone for monitoring headphones for monitoring Audio Driver Diameter Closed-back dynamic 40mm Frequency Response 20 - 22,000 Hz Maximum Input Power 500mW Sensitivity 100 dB/mW		
	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w +15w x 2, Subwoofer 5.25, Satellite 3"x2, Fr. Response 40Hz-20Hz, Warranty 1 year  Item Type: Headphone for monitoring headphones for monitoring Audio Driver Diameter Closed-back dynamic 40mm Frequency Response 20 - 22,000 Hz Maximum Input Power 500mW Sensitivity 100 dB/mW Impedance 40 ohms		
	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w +15w x 2, Subwoofer 5.25, Satellite 3"x2, Fr. Response 40Hz-20Hz, Warranty 1 year  Item Type: Headphone for monitoring headphones for monitoring Audio Driver Diameter Closed-back dynamic 40mm Frequency Response 20 - 22,000 Hz Maximum Input Power S00mW Sensitivity 100 dB/mW Impedance 40 ohms Weight 210g without cable		
	Rackmountable: Yes  Height: 3.2"  Width: 14"  Depth: 12.5"  Weight: 9.5 lbs.  Item Type: Speaker for Monitoring  USB Supported, SD Card Supported, Aux input, LED Display, Built-in FM radio, Remote Control, Output Power 30w +15w x 2, Subwoofer 5.25, Satellite 3"x2, Fr. Response 40Hz-20Hz, Warranty 1 year  Item Type: Headphone for monitoring headphones for monitoring Audio Driver Diameter Closed-back dynamic 40mm Frequency Response 20 - 22,000 Hz Maximum Input Power 500mW Sensitivity 100 dB/mW Impedance 40 ohms		

<u>18</u>	<u>Item Type: Audio Cable</u>	2	
	Audio Cable Two-Conductor Shielded Cables (Single) Aluminum Foil Shield (L-2B2AT)		
	length= 100 meters		
	Suitable for large cable harness bundles, mixing consoles, tape machines and inner-rack wiring.		
	Microphones.      Permanent Installations.		
	Audio Patch Cords.		
	PA Systems.		
	Post Production Suites.		
	Recording Studios.		
	100% Foil Shield Coverage w/Drain Wire.     Puilt in Divisor World 20 and Parin Wire.		
	Built in Dupont® Kevlar 29 and Drain Wire.     Cross Linked PE Insulation.		
	Reduced Handling Noise.		
	Rejects EMI and RFI.		
19	Item Type: HDMI Cable	2	
	male to male		
	length 20 Meter		
	4K supported		
20	Item Type: 3 pin XLR male to female	15	
<u>20</u>		13	
	3 pole male & female cable connector with Nickel housing and silver contacts	12	
<u>21</u>	Item Type: SMD Cool Light	12	
	SMD light dual tone with DMX option 200W SMD Cool Light (dual tone) with c clamp		
<u>22</u>	Item type: Services	984	
	Acoustic treatment of complete walls, with foam pasted on walls and fabric on top per		
	square feet		
<u>23</u>	Item type: Furniture	1	
	Production table for equipment 6'x3'.6"		
<u>24</u>	Item type: Services	1	
	Installation material and accessories, patching cables, cable ducts, power sockets, additional		
	accessories to complement the system. Electrical work for studio lights & control room.		
	Electric sub DB, breakers, sockets, wire, ducts, flexible pipes, joints,		
<u>25</u>	Item type: Services	1	
	Complete equipment installation and configuration, lighting grid installation and electrical		
	work charges - 01 job		
<u>26</u>	Item Type: Computer	1	
==	Intel core i7, 9700K, 3.6GHz or higher, RAM 32GB or higher, GeForce RTX2060 or higher with	_	
	21" LED or higher, 2TB SSD with Decklink mini recorder		
27		1	
<u>27</u>	Item Type: Lights	1	
L	Lighting grid for studio	0.0	
<u>28</u>	Air Conditioner 1.5 ton	02	
	DC Inverter PEL, Haier, Kenwood, Gree or Equal		
<u>29</u>	Item Type: Window	12	
	Double glaze window 12 sq ft		
30	Item Type: Door	28	
	Double door 28 sq ft		
31	Item Type: Floor	420	
	Vinyl flooring approx. 420 sq ft		
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Note: All the bidders are required to mention the details of their product being offered by them in the Technical proposal and also clearly mention the name & relevant major specifications of their offered product while quoting the financial bid as well. Mere reproduction of our tender documents will not serve the purpose and the bid may be liable to be rejected by the procuring agency in such cases.

# **INSTRUCTIONS / TERMS & CONDITIONS:**

- 1. Bid should be proper sealed & stamped and addressed in the name of Treasurer, the Islamia University of Bahawalpur and reach in this office (Procurement Wing) as per schedule given in advertisement.
- 2. The Tender Opening Committee will open the bids on same date & time advertised in newspaper in the presence of bidders, who wish to attend. In case of bid submission / opening date falls on the public holiday, the submission / opening date will be next working day at same time.
- **3.** Bid received after due date / time will not be accepted under any circumstances.
- **4.** The bid should be submitted along with **2%** Earnest Money Demanded (EMD) in the form of Demand Draft or CDR (Separate for each category) in favor of the Treasurer, The Islamia University of Bahawalpur. No bid shall be acceptable without EMD.
- 5. Bid shall remain valid for 90 days which can be increased with the mutual consent of both parties from the date of opening of the financial bid.

- **6.** The vendor should ensure that no other Govt. organization is being offered / benefited more than this Price/discount. If the same is found at any stage recovery will be made accordingly.
- 7. For any Damages / Shortage during transit, bidder will be responsible & the same must be replaced within maximum 7 working days or within the time allotted by the University.
- **8. 5%** Security of the ordered value will be deducted at the time of payment and the said amount will be released upon the satisfactory report of end user.
- **9.** The supply will be checked by the Technical / Inspection Committee. However, the successful vendor / supplier will ensure / responsible to supply the goods / items according to complete specification mentioned in tender document / Supply order, otherwise the whole supply will be rejected.
- 10. In case the vendor fails to complete the job or provide substandard articles, or withdraw his offer for any reason, the EMD will be forfeited.
- 11. The material must be supplied in one lot. Part supplies will not be acceptable. However, if authorities issue instructions to provide supplies in parts, the instruction will be followed in letter & spirit.
- 12. No advance payment will be made in favor of tender awarded firm.
- 13. Item wise Lowest bid / offer will be accepted subject to the approval of the Competent Authority and the payment will be made according to policy of University / approval of competent authority.
- **14**. Stamp Duty (Stamp Papers) @ 0.25% of total amount must be attached with the bill as per rules at the time of payment.
- **15**. The supplies must be confirmed to the specification of supply order and free of defects in all respects. If the same is found defective, the same must be replaced immediately free of charge at the Islamia University of Bahawalpur.
- **16**. The Store Section on report of end user shall notify the supplier in writing / through telephone immediately of any defect that occurs during the warranty period. On receipt of such intimation / notification within the warranty period, the supplier shall attend the breakdown call within a maximum of 06 working hours.
- **17.** All the expenses for the above remedial measures including the repair / replacement if so required shall be borne by the supplier.
- **18.** Wherever a brand has been specified, equivalent will be entertained subject to technical evaluation according to PPRA Rules 2014.
- **19.** The rates should be quoted after allowing rebates / discounts, if any but including transportation, delivery at site, commissioning, packing charges, forwarding and all taxes.
- **20.** While quoting the rates of required / specified supplies, its make & model/brand should be written against each. The rates should be quoted only in Unit / Per Kg. / Per Litter / Pack/ Ream. Each according to the nature of the quotations / bids.
- **21.** The supply shall be accepted subject to the condition of final and unchallengeable approval of the Purchase / Inspection Committee of the University.
- **22.** The successful bidder /supplier will ensure/responsible to supply above items according to specifications.
- **23.** Any other term & condition specifically not mentioned in this tender document will be conveyed to the successful bidder at the time of issuance of Supply Order.

**24.** In case of any dispute / violation of any term & condition of the tender clause, the decision of the Vice- Chancellor of IUB will be considered final, which will not be challengeable in any court of law.

# ASSISTANT TREASURER (PROCUREMENT)

The bid amount will be quoted by the vendor along with this certificate:

I / We have read all the above terms & conditions Document's instructions and I submit bids / rates in conformity / compliance with the given instructions.

Name of Firm:	
Name of Bidder:_	
Signature:	
Dated:	

### Please attach the following:

- i) Copy of CNIC
- $\textbf{ii)} \quad \text{Cop of original Tender Form } \text{Fee of HBL Challan} \, / \, \text{Demand Draft}$
- iii) Copy of CDR against each tender category. (Original must be attached with Financial Bid)
- $iv) \quad \hbox{Copies of Income \ Tax, Sales Tax \& Professional Tax}$
- v) Last six month bank statement attested by concerned bank.

Copy of current Sales Tax active / not black listed firm certificate issued by FBR