

**RAJYA SABHA TELEVISION
RAJYA SABHA SECRETARIAT
3rd Floor, Talkatora Stadium Annexe Building
New Delhi – 110001**

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Dated the 27th February, 2019

No. RSTV/Admn/47(1)/2018

**Notice Inviting Tender for Procurement of EFP and ENG Cameras with
Accessories for RSTV**

Sealed Tenders are invited under two bid system viz. **Technical Bid** and **Financial Bid** from manufacturers/ authorized distributors / dealers, hereinafter referred to as agency, for supply of **EFP and ENG Cameras with Accessories for Rajya Sabha Television as per Annexure-I.**

2. ELIGIBILITY CONDITIONS

- 2.1 The agency which has Permanent Account Number (PAN) under the Income Tax Act, 1961 and which has not been blacklisted by any government organisation/PSU in the past is eligible to apply. Copy of the PAN Card and GST number should be enclosed with the Technical Bid.
- 2.2 The agency should have supplied similar items to Govt. / PSU/ TV Channel in the past. Details are also to be submitted along with the Bid.

3. The agency while submitting its bid should keep following points in view:

- 3.1 Items supplied should be of standard make and model. The model of the equipment should not be nearing obsolescence.
- 3.2 The agency shall quote only for the specified products as mentioned in the tender.
- 3.3 The Agency shall provide comprehensive after sales services in India such as repairs, maintenance, supply of spare parts etc. irrespective of the presence of its after sales service centres in India at least for a period of five years. Agency shall be required to furnish a certificate to this effect.
- 3.4 Unless specified in technical details, optional equipment or features should not be the part of the proposal.
- 3.5 The agency should quote only for products of their brand/ makes with specifications as mentioned in the tender.
- 3.6 **The quantity of items mentioned in Part-I and Part-II of Annexure-I may increase or decrease at the discretion of RSTV.**

4. GENERAL CONDITIONS

- 4.1 The agency will ensure that the items mentioned in **Annexure –I** are delivered within 8 weeks from the date of issue of purchase order in good and working condition. The products so delivered are to be supplied and tested on site by the agency to the satisfaction of RSTV.
- 4.2 The item should be securely packed to withstand transportation and delivered in perfect condition.
- 4.3 The equipment shall be under warranty for a period of 12 months from the date of receipt of item by RSTV. The agency will be responsible to fulfil the guarantee/warranty as specified/offered by the OEM at site for the items supplied.
- 4.4 All the items should adhere to relevant regulatory mechanisms/ provisions.
- 4.5 The agency will supply two printed copies of the Technical Manual/ Operating Manual and CD version of the same with each equipment. One set of test certificate for each equipment should also be enclosed with shipment.
- 4.6 Only reputed industry tested equipment and solutions with reliability will be accepted.
- 4.7 Rates quoted in **Annexure-II** should be in Indian Rupees and should be valid for **180 days** from the date of opening of the financial bid.

5. SUBMISSION OF BIDS

- 5.1 The agency should submit bids in two parts, one the **Technical Bid in Annexure I** and two the **Financial Bid in Annexure II**. Technical and Financial bids should be placed in two separate envelopes super scribed accordingly. Both these envelopes should be placed inside a large sealed cover super scribed as “**Tender for supply of EFP and ENG Cameras with Accessories for RSTV**”. The tender should be addressed to **Joint Director (Admn), Rajya Sabha Television, 3rd Floor, Talkatora Stadium Annexe Building, New Delhi – 110001. It may be dropped in the drop-box latest by 5.00 p.m. on or before dated 19th March, 2019 at the above mentioned address or may be sent by courier/registered/speed post so as to reach RSTV by 5.00 p.m. on or before dated 19th March, 2019. Any bid received after the prescribed deadline will be rejected.**
- 5.2 Each page of the bid document should be properly numbered and signed by the agency/authorised representative. The agency should give cross reference of page numbers in the relevant column of technical bid. The agency should avoid submitting irrelevant documents.
- 5.3 **The bidders will be required to quote for all the items as specified in both the parts i.e. Part-I & Part-II as mentioned in Annexure-I. Evaluation of Part-I & Part-II will be done together and the L-1 bidder to be decided accordingly.**

6. PRE BID MEETING

A pre-bid meeting will be held on 5th March, 2019 at 3.00 P.M in the office of Rajya Sabha Television, 3rd Floor Talkatora Stadium Annexe Building, New Delhi-110001 where the intending bidders may seek any clarification and visit the office to have first-hand information about the requirements of RSTV. The intending bidders are requested to attend the pre-bid meeting so that there may not be any communication gap and they are aware of the requirements of RSTV.

7. OPENING OF BIDS

- 7.1 **Technical Bids will be opened at 5 :00 p.m. on dated 25th March, 2019 at RSTV office, Talkatora Stadium Annexe Building, New Delhi-110001 in the presence of the bidders/their representatives.**
- 7.2 Financial Bids of such agencies who are declared eligible in Technical Bid will only be opened. Time and date of opening of the Financial Bids will be informed to the agencies who qualify the Technical Bid.

8. REJECTION OF BIDS

- 8.1 Canvassing by the agencies in any form, unsolicited letters and post tender correction may lead to rejection of Bid with forfeiture of EMD. Conditional tenders will be rejected.
- 8.2 Bids of the firms not fulfilling any or all of the conditions given in this notice are liable to be rejected.
- 8.3 Rajya Sabha Television reserves the right to cancel/reject any or all tenders without assigning any reason thereof.

9. EARNEST MONEY DEPOSIT (EMD)

The technical bid should be submitted with an earnest money deposit of Rs.7,20,000/- (Rupees seven lakh twenty thousand only). The EMD should be submitted in the form of a Demand Draft/Pay Order drawn in favour of “Drawing & Disbursing Officer, Rajya Sabha Television” payable at New Delhi. Tenders without EMD will be rejected. Bidders exempted under Rule 170 of GFR, 2017 need not submit EMD. EMDs of the unsuccessful bidders will be returned after the completion of the tender process. EMD of successful bidder(s) will be retained as security till 60 days after the completion of supply of the specified items. No interest shall be paid on the EMD. In case the successful bidder withdraws or if details furnished by any bidder in the bid are found to be incorrect or false during the tender process, his EMD will be forfeited.

10. TERMS OF PAYMENT

The agency shall submit the bill on satisfactory completion of supply and testing of cameras along with the completion certificate obtained from Technical Department of Rajya Sabha Television. Payment will be released to the agency within 30 days from the date of submission of the bill(s) after **satisfactory completion certificate provided by Technical Section of Rajya Sabha Television.**

11. INDEMNITY

The successful agency shall at all times indemnify RSTV/Rajya Sabha Secretariat towards any loss/damage caused or any claim raised against RSTV/Rajya Sabha Secretariat by any party/third party in relation to supply of the items.

12. ARBITRATION

All the disputes and differences arising out or in any way touching or concerning this tender shall be referred to the sole arbitrator appointed by the Secretary-General, Rajya Sabha. There will be no objection that the person so appointed is or was in the employment of the Rajya Sabha Secretariat and as an employee of the Rajya Sabha Secretariat had during the course of his duties expressed views on all or any of the matter of difference or dispute. The award of such arbitration shall be final and binding on both the parties. The arbitration proceedings shall be held in Delhi.

13. JURISDICTION

The Courts at New Delhi will have the sole and exclusive territorial jurisdiction over any dispute or difference in connection with this tender.

Joint Director (Admn)

Tender Notice for Supply of EFP and ENG Cameras and Accessories for RSTV

TECHNICAL BID DOCUMENT

Sl. No.	Description
1	Name of the Tenderer Firm/Agency/Company:
2	Postal Address of the Tenderer Firm/Agency/Company:
3	Name of Proprietor/Partners/Directors of the firm/agency:
4	Registration and incorporation particulars of firm: (Pl. attach copies of the relevant documents/certificates)
5	Permanent Account Number from Income Tax Department (PAN/Income Tax Circle/ GST No. (Pl. attach copies of the relevant documents/certificates)
6	Details of the Earnest Money Deposit: (a) Name of the Bank: (b) Demand Draft no: (c) Value of the Demand Draft: (d) Demand Draft drawn in favour of:
7	Description of items required are given in column (2) of the following table. It may be indicated in column (5) of the table whether the agency will undertake supply of EFP and ENG Cameras and Accessories to Rajya Sabha Television as mentioned in Part-I & II of Annexure –I (Technical specifications of items in Part-I & II are mentioned at A & B, respectively, in Annexure-III)

Supply of EFP and ENG Cameras and Accessories for RSTV

Bill of Material

Part-I

(1) Sl. No.	(2) Items Description	(3) Quantity	(4) Remarks	(5) Whether the items specified in column 2 (Sl. No. 1 to 8) will be supplied to RSTV. Write Yes or No, as the case may be.
1	2/3” Three MOS/CMOS/CCD Broadcast Quality EFP Camera			
1.1	Camera Head	3		
1.2	Camera Battery	6		
1.3	Dual Battery Charger	3		
1.4	Base Plate	3		
1.5	Camera Soft Carrying Case	3		
1.6	Camera Hard carrying Case	1		
1.7	Camera Rain Cover	1		
1.8	Power Adapter	1		
1.9	View Finder	3		
1.10	HD EFP Camera Zoom Lens (Normal) with UV filter	3	Canon/Fujinon	
2	35mm Sensor Professional Quality ENG Camera			
2.1	Camera Head	20		
2.2	Base Plate	20		
2.3	Camera Soft Carrying Case	20		
2.4	Camera Rain Cover	5		
2.5	HD Camera Zoom Lens (Normal)	20	Canon/Fujinon	
2.6	HD Camera Lens (Tele Zoom) with Hard case	2	Canon/Fujinon	
2.7	HD Camera Lens (Wide Zoom) with Hard case	1	Canon/Fujinon	
3	Microphone			
3.1	Wireless Bodypack Transmitter and Body pack Receiver with Omni directional Clip on Microphone(lapel)	10	Sony/ Sennheiser /Shure	
3.2	Wireless Transmitter with Snap-On unit for handheld mic	5	Sony /Sennheiser /Shure	
3.3	Professional Wired Handheld Mic	5	Sony /Sennheiser /Shure	
4	Professional Headphone	25		
5	Tripod and Head System			
5.1	ENG Tripod with Head (Head should be compatible with Tripod and Low base.)	3		
5.2	Low Base Tripod	1		
5.3	Tripod Soft Carry Case	3		
5.4	Tripod Hard Carry case	3		
5.5	Dolly	1		
6	Monopod with Standing Base and	3		

	soft carry case			
7	Camera Mount LED light	23	Sony/ Light Panel/ Genaray /Aputure	
8	Battery (LED Light)	46		

Part-II

(1) Sl. No.	(2) Items Description	(3) Quantity	(4) Remarks	(5) Whether the items specified in column 2 (Sl. No.1 to 6) will be supplied to RSTV. Write Yes or No, as the case may be.
1	Card Player and Recorder with compatible adapter for Media.	5		
2	SD Memory Cards 64GB	70		
3	Camera Battery for 35 mm Sensor Professional Quality ENG Camera	40		
4	Dual Battery Charger for 35 mm Sensor Professional Quality ENG Camera	10		
5	Power Adapter for 35 mm Sensor Professional Quality ENG Camera	5		
6	HD Camera IASE Lens (Wide Zoom) with 2 number of Interface cables for Shotoku SPI box	1unit		

Certificate

It is certified:

- i) That I/ we have gone through and understood the requirements given in the RSTV Tender Notice No. RSTV/Admn/47(1)/2018 dated 27th February, 2019 and rates have been quoted accordingly.**
- ii) That the terms and conditions given in the tender notice are acceptable to me/us.**
- iii) That the information furnished by me /us is true and correct.**
- iv) That the agency has not been blacklisted by any Government organization/department.**

Dated.....

**Name & Address of the firm
Authorized Signatory & Seal of the Firm**

FINANCIAL BID DOCUMENT

Name of the Tendering Agency:

Supply of EFP and ENG Cameras and Accessories for RSTV

Part-I					
(1) SL No	(2) Item Description	(3) Remarks	(4) Rate in Rs. (Per unit) (excluding taxes)	(5) Qty	(6) Total Amount in Rs. (Col. 4) x (Col. 5)
1	2/3" Three MOS/CMOS/CCD Broadcast quality EFP Camera				
1.1	Camera Head			3	
1.2	Camera Battery			6	
1.3	Dual Battery Charger			3	
1.4	Base Plate			3	
1.5	Camera Soft Carrying Case			3	
1.6	Camera Hard carrying Case			1	
1.7	Camera Rain Cover			1	
1.8	Power Adapter			1	
1.9	View Finder			3	
1.10	HD EFP Camera Zoom Lens (Normal) with UV filter	Canon/ Fujinon		3	
2	35mm Sensor Professional quality ENG Camera				
2.1	Camera Head			20	
2.2	Base Plate			20	
2.3	Camera Soft Carrying Case			20	
2.4	Camera Rain Cover			5	
2.5	HD Camera Zoom Lens (Normal)	Canon/ Fujinon		20	
2.6	HD Camera Lens (Tele Zoom) with Hard case	Canon/ Fujinon		2	
2.7	HD Camera Lens (Wide Zoom) with Hard case	Canon/ Fujinon		1	
3	Microphone				
3.1	Wireless Bodypack Transmitter and Body pack Receiver with Omni directional Clip on Microphone(lapel)	Sony/ Sennheiser / Shure		10	
3.2	Wireless Transmitter with Snap-On unit for handheld mic	Sony/ Sennheiser / Shure		5	
3.3	Professional Wired Handheld Mic.	Sony/ Sennheiser / Shure		5	
4	Professional Headphone			25	

5	Tripod and Head System				
5.1	ENG Tripod with Head (Head should be compatible with Tripod and Low base.)			3	
5.2	Low Base Tripod			1	
5.3	Tripod Soft Carry Case			3	
5.4	Tripod Hard Carry case			3	
5.5	Dolly			1	
6	Monopod with Standing Base and soft carry case			3	
7	Camera Mount LED light	Sony/ Light Panel/ Genaray / Aputure		23	
8	Battery (LED Light)			46	

Part-II					
(1) SL No	(2) Item Description	(3) Remarks	(4) Rate in Rs. (Per unit) (excluding taxes)	(5) Qty	(6) Total Amount in Rs. (Col. 4) x (Col. 5)
1	Card Player and Recorder with compatible adapter for Media.			5	
2	SD Memory Cards 64GB			70	
3	Camera Battery for 35 mm Sensor Professional Quality ENG Camera			40	
4	Dual Battery Charger for 35 mm Sensor Professional Quality ENG Camera			10	
5	Power Adaptor for 35 mm Sensor Professional Quality ENG Camera			5	
6	HD Camera IASE Lens (Wide Zoom) with 2 number of Interface cables for Shotoku SPI box	1unit		1	

It is undertaken that:

- i) The above rates are excluding applicable taxes.**
- ii) The above quoted rates shall remain valid for 180 days from the date of opening of the financial bid.**

Dated.....

**Name & Address of the firm
Authorized Signatory & Seal of the Firm**

A. Technical Specifications for items in Part-I of Annexure-I

Compatibility with Existing System

1) Any Recorded file should be transferrable/ compatible with our existing system:-

- a) Imagine Server (HDX-1)
- b) Velocity XNG
- c) FPC 7

2) The prime usage of ENG cameras is field news coverage. The camera should have easy handling through Servo Lens Grip and external switches for audio control and other necessary functions.

3) Our existing virtual system has Shotoku Lens Encoder which supports Canon lenses. Encoder shall be supplied by vendor himself if any other Lens (other than Canon) is proposed.

(1) 2/3" Three MOS/CMOS/CCD Broadcast quality EFP Camera

TV Standard: -	1080/50i, 625/50i, 1080/59.94i, 1080/25p, 576/50i, 576/25p
Filters:	ND Filter (Optical)
Effective Picture Element:	1920 (H) X 1080 (V) or more
Lens Mount:	2/3 Bayonet
Gain Selection	-3 to 42 dB
Signal to Noise Ratio (Video):	62 dB or more
Sensitivity @ 2000 Lux:	F13 (Typical)
Imaging Device:	2/3" Full HD CMOS/MOS/CCD
Shutter Speed:	1/60 Sec. to 1/2000 Sec.
Memory Cards Slot:	2 or More
Horizontal Resolution	1000 TV or Higher
Recording Media	SD Card/UHS-II Compliant Memory (Compatible with proposed camera)
Recording Format	4:2:2, 50 Mbps or higher, 10 Bit
Video Input:	GENLOCK IN, TC IN, SDI IN
Audio:	48 kHz/ 24 bit, 4 channel audio recording
Audio Input:	XLR-type 3-pin (female) x 2, Line / Mic / Mic +48V / AES.
MIC In:	XLR-type 5-pin (female, stereo) (x1)
Audio Out:	XLR 5-pin
Ear Phones Out	Stereo Mini Jack

Output / Input:

SDI Out:	BNC(x2) (HD / SD switchable)
Video Out:	BNC(x1 Composite) (HD / SD Switchable, character on /off)

HDMI Out	Type A terminal
TC Out:	BNCx 1
TC IN	BNC x 1
SDI IN	BNC x 1
LAN	100 Mbps Base
USB	USB 3.0

General Specifications:

Power Supply:	DC (11v to 17v)
Power Consumption:	Not more than 30W
Operating Temperature:	0 ° C to 40°C
Multi format:	HD/SD Capabilities Variable Gamma Settings

(1.9)View finder

Screen type	LED
Screen Size	At least 7” and compatible with proposed camera
Control	Brightness, Contrast, Peaking, zebra

(1.10) HD EFP Camera Zoom Lens (Normal) with UV filter

Mount	Bayonet
Image Format	2/3 Inch
Focal Length Range	8-170mm (23x at least) With 2x extender
Aperture	At least f/1.8
Iris	Servo type
Focus	Manual
Macro	Standard

(2) 35mm Sensor Professional quality ENG Camera

TV Standard: -	1080/50i, 625/50i, 1080/59.94i, 1080/25p, 576/50i, 576/25p
Filters:	ND Filter variable
Effective Picture Element:	3840(H) x 2160(V)
Lens Mount:	EF Mount/ E Mount
Gain Selection	0 To 20 dB
Signal to Noise Ratio (Video):	49 dB or more
Imaging Device:	35mm single chip MOS/CMOS/CCD sensor
Shutter Speed:	1/24 Sec. (or less) to 1/ 8000 Sec. (or more)
Memory Cards Slot:	2 or more
Recording Media	At Least SD Card UHS Class 3
Recording Format	50 Mbps or Higher 4:2:2, 10 Bit

Audio:

Audio Input:	2 channel 24bit 48 kHz XLR-type 3-pin (female) x 2, Line / Mic / Mic +48V
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Audio Out:

Ear Phones	Stereo Mini Jack (3.5")
Speaker	Monaural

Video output:

SDI Out:	BNC X 1 75ohms (HD-SDI / SD-SDI switchable) 4:2:2 10 Bit, 1920X1080 50i, 720 X 576 50i, 1920 X 1080 59.94p
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HDMI Out	Type A terminal 4:2:2 10 Bit, 1920X1080 50i, 720 X 576 50i, 1920 X 1080 59.94p
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General Specifications:

Power Supply:	Up to DC12v (AC Adapter)
Power Consumption:	Not more than 20W
Operating Temperature:	0 ° C to 40°C

Lenses:

(2.5) Standard (Zoom) lens:	At Least 21mm Focal Length Wide to at least 100mm Focal Length Tele with Servo control and auto focus through Camera.
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(2.6) Tele Zoom lens:	Focal Length Range (70-200) mm with Servo control and auto focus through Camera.
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(2.7) Wide angle lens:	Focal Length 15mm or Wider than focal Length 15 mm
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(3) Microphone

(3.1) Wireless Body pack Transmitter and Body pack Receiver with Omni directional Clip on Microphone (lapel)

RX Body Pack

Frequency Range	UHF band with switchable frequency
THD	0.9%
AUDIO OUTPUT	3.5MM JACK SOCKET
SNR	110dBA
Switching Bandwidth	up to 88 MHz
Peak deviation	+ - 48 kHz
Power supply	Battery Operated
Rf Sensitivity	1.6 v for 52dBA
Squelch	Low, Mid, High

TX Body Pack

Frequency Range	UHF band with switchable frequency
THD	0.9%
RF Output Power	30mW
SNR	110dBA

Switching Bandwidth	up to 88 MHz
Peak deviation	+ - 48 kHz
Power supply	Battery Operated
Input Impedance	40K ohms
AF FQ Response	80-18kHz

(3.2) Wireless Transmitter with Snap-On unit for handheld mic.

Snap-on Transmitter

Frequency Range	UHF band with switchable frequency
THD	0.9%
RF Output Power	Low, Standard, High
SNR	120dBA
Switching Bandwidth	up to 88 MHz
Peak deviation	+ - 48khz
Power supply	Battery Operated
Input Impedance	68K OHMS
AF FQ Response	80-18khz

RX Body Pack

Frequency Range	UHF band with switchable frequency
THD	0.9%
Audio Output	3.5mm Jack
SNR	110dBA
Switching Bandwidth	up to 88 MHz
Peak deviation	+ - 48 kHz
Power supply	Battery Operated
Rf Sensitivity	1.6 v for 52dBA
Squelch	Low, Mid, High

(3.3) Professional Wired Handheld Mic.

Capsule	Mono electret Condenser
Fq Response	40HZ-20KHZ
Directional	Unidirectional cardioide
Sensitivity	- 36db +- 3db
Output impedance	220 omhz
Dynamic range	107db
SNR	- 77db or more
Max sound pressure level	124db

(4) Professional Headphone

Operating Principle	closed
Nominal Impedance	250ohms
FQ Response	5 - 30 kHz
Nominal SPL	97dB
Cable & plug	Straight connecting cable with mini jack 3.5mm & 6.5mm adapter

(5) Tripod and Head System

Fluid Head

Fluid Head	100mm ball base along with Camera Plate
Payload	At least 12Kg
Weight	3 Kg or less
Drag Setting	0+3 Steps or more
Tilt Range	+90 degrees to -70 degree
Counter Balance	Variable Continuous
Levelling Bubble	Illuminated

Tripod

Bowl Size	100mm
Payload	Up to 40 Kg.
Stage	2
Minimum Height	20" or less
Maximum Height	60" or Above
Weight	3 Kg or Less
Material	Carbon fibre

Spreader

Weight	1.5 Kg or less
Type	Ground

Dolly (Compatible with Proposed Tripod)

Material	Aluminium/Carbon fiber
Payload	40 kg and Above
Lock System	Wheel Lock

(6) Monopod with Standing Base and soft carry case

Head	Fluid Head with Pan Arm
Height	At least 70 inches
Section	At least 3 Leg Sections
Leg locks type	Flip lock
Pay load	4 Kg or more
Weight	Less than 3.5Kg
Carry Bag	Padded soft carry bag
Material	Carbon Fiber/Aluminium

(7) Professional Camera Light

Illumination:	At least 1500Lx (1 Metre Distance)
Colour Temperature:	3200K to 5600K
Weight	Light Weighted
Battery Type	Detachable and Rechargeable

Power consumption:	Not more than 18 W
Colour Rendering Index (CRI)	90 or more

(8) Batteries

Battery Type	Lithium ion
Capacity	Range (55 to 65) Wh
AC Power Adaptor/Charger:	Compatible dual battery charger
Input Voltage	Range (100-240V) 50/60 Hz
Output Voltage	Range (10-20V) DC

B. Technical Specifications for items in Part-II of Annexure-I

(1) Card Player and Recorder with compatible adapter for Media

Slots	2 Nos
Input	BNC 75 Ohms, 4:2:2 HD/SD-SDI
Output	BNC 75 Ohms, 4:2:2 HD/SD-SDI., HDMI (1)
Display	At least 3 inches
Power requirement	DC 12 V
Power consumption	Max 80W
Minimum Operating Temp	5 degree or less
Maximum operating temp	40 degree or above
Video recording signals	1080/50i, 576/50i
Video compression method	MPEG-4/H.264
Resolution	1080/50i, 576/50i
Audio sampling frequency	48 KHZ

(2) SD Memory Card (64 GB)

Read/Write Speed:	SDXC/SDHC UHS-II memory card with Minimum speed 30MB/s or above that is supported by the given camera.
Operating Temperature:	0 -80 Degree Centigrade
Water Tolerance:	Memory Card must be water proof
Field Effect Tolerance:	Memory card must be immune Magnetic Field and X-Ray

(3) Camera Battery for 35 mm Sensor Professional Quality ENG Camera

Battery Power	7V to 15 V
Battery Power consumption	11W to 20W

(4) Dual Battery Charger for 35 mm Sensor Professional Quality ENG Camera

Input voltage	110v to 220v
Output voltage	11v to 20V

(5) Power Adaptor for 35 mm Sensor Professional Quality ENG Camera

Power Adaptor Compatible

(6) HD Camera IASE Lens (Wide Zoom) with 2 number of Interface cables for Shotoku SIP box

Our existing virtual system has Shotoku Camera Head and SIP box. 2 Numbers of Cables connecting the Lens to Shotoku SIP must be provided with the Lens.

Mount	Bayonet
Image Format	2/3" CCD, 16:9/4:3
Focal Length	4.3-60mm (14x Zoom) 8.6-120mm (2x Extender)
Aperture:	Without Extender f/1.8 at 4.3-40mm With Extender f/3.6 at 8.6-80mm
Iris Type:	Manual
Focus Type:	Servo/Manual
Minimum Object Distance (M.O.D.)	3' (0.9 m)
Macro:	Standard