

**GUJARAT VIDYAPITH**  
**ASHRAM ROAD, AHMEDABAD – 380014**  
**Phone No : 40016200/ 27540746 Fax No : 27542547**  
**Website : www.gujaratvidyapith.org**

**Sr. No. of Tender: GV/1/2018-19**

**Date – 05/04/2018**

**Name of the Tender – Tender for Audio Visual Instrument for Audio Visual Department, Gujarat vidyapith, Dist- Ahmedabad**

Gujarat Vidyapith invites tender through E-tendering for supply of **Audio Visual Instrument for Audio Visual Department, Gujarat vidyapith, Dist- Ahmedabad**

<b>Last date and time to submit Tender Documents at (n)procure (1)</b>	<b>Last Date and time for Submit the EMD and Hard copy of Technical bid</b>	<b>Date &amp; Place of opening of the tender(Technical Bid)</b>	<b>Tender fee</b>	<b>Amount of EMD</b>	<b>Place of submission of Tender document</b>	<b>Opening of financial Bid</b>
Date : 01/05/2018 Tuesday  Up to 5-00 pm	Date.02/05/2018 Wednesday  Up to 4 .00 Pm	Date: 03/05/2018 Thursday At 12-00 pm. Committee room central office, Gujarat Vidyapith, Ahmedabad - 14	<b>Rs.1000/- by Gujarat Vidyapith I-Collect Only (Non-refundable)</b>	2 % of Bid Price by Demand Draft, in favour of Registrar, Gujarat Vidyapith. (Refundable)	Central Office, Gujarat Vidyapith, Ahmedabad,	<u>Date-</u> <u>07/05/2018</u> <u>Monday</u>

## GENERAL TERMS & CONDITIONS OF THE TENDER

The tenderer should upload the tender (Financial Bid) on or before **01/05/2018** up to **5:00 PM** and should submit hardcopy of Technical bid in sealed envelope namely **TENDER FOR Audio Visual Instrument for Audio Visual Department, Gujarat vidyapith, Dist- Ahmedabad** along with **EMD 2% of Bid Price (by D.D) & Tender fee receipt Rs.1000/- paid through Gujarat vidyapith I Collect by 02/05/2018** up to 4-00 PM at the Central office of the Gujarat Vidyapith, Ahmedabad.

1. The interested tenderer should give their offer through E-tendering only. Website- [www.nprocure.com](http://www.nprocure.com)
2. The Financial bid of only those bidders who successfully qualifying in technical criteria, under technical bid will be opened. However, if the specification/ configuration of some equipment does not tally and the technical committee doesn't recommend the product and other product are as per requirement, in such case, the prices quoted by the bidder for non-accepted items will not be considered.
3. Technical bid should also contain original copy of Tender documents duly signed and stamped in token of having read and understood all terms and conditions and implications thereof. (Annexure – 1 Undertaking) It should also contain Technical Bid along with copy of all required document and proof.
4. Tender document received late / incomplete without requisite papers and Demand Draft for EMD and receipt of **Gujarat vidyapith I Collect** collect for Tender Fee shall be rejected.
5. The Tender document and other document (as per Annexure-II) signed and stamped by tenderer are submitted with technical bid.
6. It is mandatory to indicate the full name, make/ brand, model number, and detailed specifications/ configurations of the equipment quoted by them, (in addition, a brochure of product information may also be attached along with diagrams figures of picture of the equipment.) Tenderers also have to indicate clearly the Name, Address, Website / E-mail address if any and all Contact number.
7. **Terms of Payment** 100% total order value will be released on the satisfactory report of Installation / verification / inspection of the material by Home Science department against the bill.
8. No tenderer shall withdraw his tender after the tender is opened. If a tenderer does so, such tenderer shall be considered ineligible for future and the amount of the EMD will also be forfeited.
9. Any litigation will be subject to the jurisdiction of the appropriate court at Ahmedabad only.
10. Guarantee / Warranty period should be clearly mentioned.
11. Maximum rebate / discount to the Education Institution, if any, may be mentioned.
12. Gujarat Vidyapith does not pledge himself to accept the lowest tender and reserves the right to accept whole or part of the tender or portion of the quantity offered.
13. Any other document as required by the Gujarat Vidyapith shall have to be produced within 3 (three) days.
14. Authorization :The certificate as to effect that Bidder is an authorized agent/ dealer of manufacturer should be attached.

15. Tenderer will have to give an undertaking that all terms and condition of the tender are acceptable to him.
16. Details of service centers in Gujarat/Ahmedabad should be mentioned.
17. The Financial bid will be evaluated on **Item Wise Cost** as quoted in the Financial bid. The rate should be quoted including all taxes and FOR. At **Audio Visual Department, Gujarat vidyapith, Ahmedabad, Gujarat.**
18. The EMD of the successful tenderer will be converted as security deposit to the extent of 2% of the order quantity. The security deposit will be paid after one year of successful installation of the equipment. The EMD of the other tenderer will be returned to bidders within 20 (Twenty) days after finalization of the tender process.
19. The average annual turnover of last three financial year (2014-15, 2015-16 & 2016-17) should not be less than 20 (Twenty) lakh.
20. The required quantity mentioned in the technical bid is estimated. The actual requirement may change.

**Signature of the tenderer/agency**

**Name of the tenderer/agency Seal of the tenderer/agency**

**Place:**

**Date:**

**UNDERTAKING**

1. I/we undersigned certify that I have gone through the terms and conditions mentioned in the tender document and undertake to comply with them.
2. I/we give the rights to Gujarat Vidyapith to forfeit the earnest money deposited by me/us if any delay occurs on my / our part or have failed to supply the equipment within the stipulated time or the equipment of desired quality.
3. There is no vigilance /CBI case or court case pending against the Firm.
4. The Firm has not been blacklisted by any Govt. Dept./ Institute/ University in the past.

**Signature of the tenderer**\_\_\_\_\_

**Full Name**\_\_\_\_\_

**Designation**\_\_\_\_\_

**Seal of the tenderer**

**Place:**

**Date:**

**GUJARAT VIDYAPITH  
NR. INCOMETAX OFFICE, ASHRAM ROAD, AHMEDABAD - 380014  
TECHNICAL BID  
Details of the Tenderer**

<b>Name of the Tender</b>																				

<b>Firm type</b>																				
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(Like proprietorship / Partnership / Company / others)

**Address**


**Contact No :**

<b>+Land line No.</b>																				
<b>Fax No.</b>																				
<b>Mobile No.</b>																				
<b>Email address</b>																				

**GST No.** \_\_\_\_\_

- The bidder should submit the copy of the GST Registration No.

(1) Tender Fee ( Gujarat vidyapith I Collect ) 1000/- \_\_\_\_\_

(2) E.M.D. (DD No) \_\_\_\_\_

(3) Client’s List (Please attach separate sheet showing the client list of Universities / Govt. & semi Govt. offices name and addresses of the department w here supply the prescribe the tender item with evidence (P.O / certificate of experience)

<b>Sr. No.</b>	<b>Name of Uni/ Govt. &amp; semi Govt office</b>	<b>Year of Supply</b>	<b>Name of equipment</b>	<b>cost of equipment</b>

(4) Turnover of last three financial year

2014-15 :-  
2015-16 :-  
2016-17 :-

Please attach copy of the audited annual accounts or a copy of the registered Chartered Accountant.

**Signature of the tenderer/agency**

**Name of the tenderer/agency Seal of the tenderer/agency**

**Place:**

**Date:**

**GUJARAT VIDYAPITH****ASHRAM ROAD, AHMEDABAD – 380014****Phone No.: 40016200 / 27540746 Fax No : 27542547****Website: www.gujaratvidyapith.org****Tender No.: GV/1/2018-19****Name of the Tender – Tender for Audio Visual Instrument for Audio Visual Department,  
Gujarat vidyapith, Dist- Ahmedabad**TECHNICAL BID

Sr. No	NAME AND SPECIFICATION OF INSTRUMENTS		Specification/ Configuration of equipment quoted by the bidder is fulfilling the requirement Or not (Pls. ✓ , untick before specification)
1.	<b>Full HD compact professional camcorder</b>		
	Dimensions (W x H x D)*1	171.3 × 187.8 × 371.3 mm (With the accessories (lens hood, large eyecup), excluding the grip belt and including the projecting parts) 6 3/4 x 7 3/8 x 14 5/8 inches (With the accessories (lens hood, large eyecup), excluding the grip belt and including the projecting parts)	
	Power Requirements	DC In: 8.4V Battery: 7.2 V	
	Power Consumption	Approx. 5.2 W (while recording with viewfinder and AVCHD 1080/60i FX) Approx. 5.4 W (while recording with LCD and AVCHD 1080/60i FX)	
	Operating Temperature	0°C to 40°C 32°F to 104°F	
	Storage Temperature	-20°C to +60°C -4°F to +140°F	
	Battery Operating Time	Approx. 345 min. with NP-F770 battery (while recording with LCD, AVCHD 1080/60i FX) Approx. 445 min. with NP-F770 battery (while playing with LCD, AVCHD 1080/60i FX)	
	Recording Format (Video)	XAVC S HD : MPEG4-AVC/H264 4:2:0 Long profile AVCHD : MPEG-4 AVC/H.264 AVCHD 2.0 format compatible DV	
	Recording Format (Audio)	XAVC S HD : Linear PCM 2ch, 16bit, 48kHz AVCHD : Linear PCM 2ch, 16-bit, 48 kHz / Dolby Digital 2ch, 16-bit, 48 kHz DV : Linear PCM 2ch, 16-bit, 48 kHz	
	Recording Frame Rate - PAL	XAVC S (1920 x 1080)@50p, 25p, 50 Mbps AVCHD (1920 x 1080)@50p, PS mode (28 Mbps) AVCHD (1920 x 1080) @50i/25p, FX mode (24 Mbps) FH mode(17 Mbps) AVCHD (1440 x 1080)@50i, HQ mode (9 Mbps) LP mode (5 Mbps)	

		AVCHD (1280 x 720)@50p, FX mode (24 Mbps) FH mode (17 Mbps) HQ mode (9 Mbps) DV (720 x 576) @50i, 25 Mbps	
Recording Frame Rate - NTSC		XAVC S (1920 x 1080)@59.94p, 29.97p, 23.98p, 50 Mbps AVCHD (1920 x 1080)@59.94p, PS mode (28 Mbps) AVCHD (1920 x 1080) @59.94i/29.97p/23.98p, FX mode (24 Mbps) FH mode(17 Mbps) AVCHD (1440 x 1080)@59.94i, HQ mode (9 Mbps) LP mode (5 Mbps) AVCHD (1280 x 720)@59.94p, FX mode (24 Mbps) FH mode (17 Mbps) HQ mode (9 Mbps) DV (720 x 480) @59.94i, 25 Mbps	
Recording/Playback Time		XAVC S HD@LPCM 2ch 50 Mbps Approx. 155 min with 64 GB memory card AVCHD@LPCM 2ch PS Mode Approx. 290 min with 64 GB memory card Approx. 145 min with 32 GB memory card AVCHD@LPCM 2ch FX Mode Approx. 340 min with 64 GB memory card Approx. 170 min with 32 GB memory card AVCHD@LPCM 2ch FH Mode Approx. 450 min with 64 GB memory card Approx. 225 min with 32 GB memory card DV Approx. 280 min with 64 GB memory card Approx. 140 min with 32 GB memory card	
Lens Mount		Fixed	
Zoom Ratio		12x (optical), servo	
Focal Length		f = 9.3 - 111.6 mm equivalent to f = 29.0 - 348.0 mm on 35 mm lens (16:9) equivalent to f = 35.5 - 426.0 mm on 35 mm lens (4:3)	
Iris		F2.8 - F4.5 auto/manual selectable	
Focus		AF/MF selectable 10 mm to ∞ (Wide) 1000 mm to ∞ (Tele)	
Image Stabilizer		ON/OFF selectable, shift lens	
Filter Diameter		M62 mm	
Imaging Device (Type)		1.0-type (13.2 mm x 8.8 mm) back-illuminated Exmor R CMOS sensor	
Effective Picture Elements		Approx. 14.2 M pixels (16:9)/Approx. 10.6 M pixels (4:3)	
Built-in Optical Filters		OFF: Clear, 1: 1/4ND, 2: 1/16ND, 3: 1/64ND	
Minimum Illumination		[60i] 1.7 lux (LOW LUX mode) [50i] 1.7 lux (LOW LUX mode)	
Shutter Speed		PAL Model: [50i]: 1/6 - 1/10,000 NTSC Model: [60i]: 1/8 - 1/10,000 (1/6 - 1/10,000 when shooting with 24p)	
Slow & Quick Motion Function		PAL Model: [50i]: 1080p: Frame rate selectable 1.2.3.6.12.25,50 fps	

		NTSC model: [60i]: 1080p: Frame rate selectable 1.2.4.8.15.30,60 fps	
	White Balance	Preset (Indoor: 3200K, Outdoor: 5600K±7 steps, Color temperature set range: 2300-15000K), Onepush A, B, Auto selectable	
	Gain	-3, 0, 3, 6, 9, 12,15, 18, 21, 24, 27, 30, 33 dB, AGC	
	Gamma Curve	Selectable	
	Input/Output		
	Audio Input	XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable	
	Video Output	BNC (×1), Composite 1.0Vp-p, 75 Ω	
	Audio Output	RCA pin	
	USB	Multi/Micro USB jack (x1)	
	Headphone Output	Stereo mini jack (x1)	
	Speaker Output	Monaural	
	DC Input	DC jack	
	Remote	Stereo mini mini jack (x1)	
	HDMI Output	Type A (x1)	
	Monitoring		
	Viewfinder	0.6cm(0.24 type) Approx. 1.56 M dots.	
	LCD	8.8 cm (3.5 type) Approx. 1.56 M dots.	
	Built-in Microphone		
	Built-in Microphone	Omni-directional stereo electret condenser microphone.	
	Media		
	Type	Memory Stick Pro Duo(TM) and SD/SDHC/SDXC compatible( x1) SD/SDHC/SDXC (x1)	
	Supplied Accessories		
	Supplied Accessories	New Charger (1) Lens hood (1) Lens cap (1) Large eyecup (1) Shoe cap (1) USB cable (1) Rechargeable battery pack (1) AC Adaptor (1) Power cord (1) Wireless Remote Commander (RMT-845) (1) Lithium battery (CR2025 for the Wireless Remote Commander, pre-installed to the Wireless Remote Commander) (1) Operating Guide (2) CD-ROM (1) Warranty (1)	



<b>02</b>	<b>Live Fluid Head with Befree Aluminum Tripod System</b>		
	Model Year	2016	
	Item Weight	1.8 Kg	
	Product Dimensions	11.8 x 11.8 x 44.5 cm	
	Item model number	MVKBFR-LIVE	
	Voltage	0.10 Volts	
	Batteries Included	No	
	Batteries Required	No	
<b>03</b>	<b>Proaim Curve-N-Line Camera Video Slider</b> <b>PRODUCT HIGHLIGHTS</b> CNC machined from single piece of aluminum . Compatible with wide range of professional cameras. Solid Camera platform gets quickly connected to both modes of the slider. Flexible legs with 360 ° rotation for adjustability & quick flipping. 1/4"-20 and 3/8"-16 mounting threads to connect to any tripod. Storage case for more safety and easy carrying.		
<b>04</b>	<b>24.2MP Digital SLR Camera (Black) with 18-135 STM Lens, Memory card, Camera bag</b>		
	Type	Digital, single-lens reflex, AF/AE camera with built-in flash	
	Recording Media	SD / SDHC* / SDXC* memory cards * Compatible with UHS-I cards	
	Image Sensor Size	Approx. 22.3 x 14.9mm	
	Compatible Lenses	Canon EF lenses (including EF-S lenses) * Excluding EF-M lenses (35 mm-equivalent focal length is approx. 1.6 times the lens focal length)	
	Lens Mount	EF mount	
	Image Sensor		
	Type	CMOS sensor	
	Effective Pixels	Approx. 24.2 megapixels * Rounded off to the nearest 10,000th.	
	Aspect Ratio	3:2	
	Dust Deletion Feature	Auto / Manual, Appending Dust Delete Data	
	Recording System		
	Recording Format	Design rule for Camera File System (DCF) 2.0	
	Image Type	JPEG, RAW (14-bit Canon original) RAW+JPEG Large simultaneous recording possible	
	Recorded Pixels	L (Large):24 megapixels (6000 x 4000) M (Medium): Approx. 10.6 megapixels (3984 x 2656) S1 (Small 1): Approx. 5.9 megapixels (2976 x 1984)	

		S2 (Small 2):Approx. 2.5 megapixels (1920 x 1280) S3 (Small 3):Approx. 350,000 pixels (720 x 480) 24 megapixels (6000 x 4000)	
	Aspect ratio:	3:2, 4:3, 16:9, 1:1	
	Create / Select a folder	Possible	
	File Numbering	Continuous, Auto reset, Manual reset	
	Image Processing During Shooting		
	Picture Style	Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3	
	Basic+	Ambience-based shots, Light/scene-based shots	
	Extra Effect Shot	Possible (in <CA> mode)	
	White balance	Auto, Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom White Balance correction and White balance bracketing possible * Flash color temperature information transmission enabled	
	Noise Reduction	Applicable to long exposures and high ISO speed shots	
	Automatic Image Brightness Correction	Auto Lighting Optimizer	
	Highlight Tone Priority	Provided	
	Lens Aberration Correction	Peripheral illumination correction, Chromatic aberration correction, Distortion correction	
	Viewfinder		
	Type	Eye-level pentamirror	
	Coverage	Vertical / Horizontal approx. 95% (with Eye point approx. 19mm)  * Vertical field of view in the 16:9 aspect ratio is approx. 93%.	
	Magnification	Approx. 0.82x (-1 m-1 with 50mm lens at infinity)	
	Eye Point	Approx. 19 mm (from eyepiece lens center at -1 m-1)	
	Built-in Dioptic Adjustment	Approx. -3.0 - +1.0 m-1 (dpt)	
	Focusing Screen	Fixed, Precision Matte	
	Grid display	Possible	
	Electronic level display	Possible	
	Create / Select a folder	Possible	
	File Numbering	Continuous, Auto reset, Manual reset	
	Image Processing During Shooting		
	Picture Style	Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, User Def. 1 - 3	
	Basic+	Ambience-based shots, Light/scene-based shots	
	Extra Effect Shot	Possible (in <CA> mode)	
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	Focusing Screen	Fixed, Precision Matte	
	Grid display	Possible	
	Electronic level display	Possible	
	Mirror	Quick-return type	
	Depth-of-field Preview	Provided	
	Autofocus		
	Type	TTL secondary image-registration, phase-difference detection with the dedicated AF sensor	
	AF Points	19 points (cross-type AF point: max. 19 points) * With certain lenses, cross-type focusing at the peripheral AF points is not possible. * Dual cross-type focusing at f/2.8 with center AF point. (Except with the EF28-80mm f/2.8-4L USM and EF50mm f/2.5 Compact Macro.)	
	Focusing Brightness Range	EV -0.5 - 18 (Conditions: f/2.8-sensitive center AF point, One-Shot AF, room temperature, ISO 100)	
	Focus Operation	One-Shot AF, AI Servo AF, AI Focus AF Manual focusing (MF)	
	AF area selection mode	Single-point AF (Manual selection), Zone AF (Manual selection of zone), 19-point automatic selection AF	
	Condition of AF point automatic selection	AF point can be selected automatically in One-Shot AF mode, using information on colors equivalent to skin tones.	
	AF-assist Beam	Small series of flashes fired by built-in flash	
	Exposure Control		
	Metering Modes	63-zone TTL full-aperture metering using 7560-pixel RGB plus IR metering sensor • Evaluative metering (linked to all AF points) • Partial metering (approx. 6.0% of viewfinder at center) • Spot metering (approx. 3.5% of viewfinder at center) • Center-weighted average metering	
	Metering Range	EV 1 - 20 (at room temperature, ISO 100)	

	Exposure Control	Program AE (Scene Intelligent Auto, Flash Off, Creative Auto, Portrait, Landscape, Close-up, Sports, Special scene modes (Kids, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Program), Shutter-priority AE, Aperture-priority AE, Manual exposure	
	ISO Speed (Recommended Exposure Index)	Basic Zone modes*: ISO 100 - ISO 6400 set automatically  * Landscape: ISO 100 - ISO 1600, <SCN> Handheld Night Scene: ISO 100 - ISO 12800 Creative Zone modes: ISO 100 - ISO 12800 set manually (whole-stop increments), ISO 100 - ISO 6400 set automatically, maximum ISO speed settable for ISO Auto, or ISO expansion to “H” (equivalent to ISO 25600)	
	Exposure Compensation	Manual:±5 stops in 1/3- or 1/2-stop increments AEB: ±2 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)	
	AE lock	Auto:Applied in One-Shot AF with evaluative metering when focus is achieved Manual:By AE lock button	
	Anti-flicker	Possible	
	Shutter		
	Type	Electronically-controlled, focal-plane shutter	
	Shutter Speeds	1/4000 sec. to 30 sec. (Total shutter speed range. Available range varies by shooting mode.), Bulb, X-sync at 1/200 sec.	
	Drive System		
	Drive Modes	Single shooting, Continuous shooting, Silent single shooting, Silent continuous shooting, Self-timer: 10-sec. delay/remote control, 2-sec. delay, 10-sec. delay with continuous shooting	
	Continuous Shooting Speed	Continuous shooting: Max. approx. 5.0 shots/sec. Silent continuous shooting:Max. approx. 3.0 shots/sec.	
	Max. burst (Approx.)	JPEG Large / Fine:180 (940) shots RAW: 7 (8) shots RAW+JPEG Large / Fine -6 (6) shots * Figures are based on Canon’s testing standards (3:2 aspect ratio, ISO 100 and Standard Picture Style) using an 8GB card. * Figures in parentheses apply to an UHS-I compatible 8GB card based on Canon’s testing standards.	
	Flash		
	Built-in flash	Retractable, auto pop-up flash Guide No.: Approx. 12/39.4 (ISO 100, in meters/feet) Flash coverage: Approx. 17mm lens angle of view Recycling time approx. 3 sec.	
	External flash	EX-series Speedlite	
	Flash metering	E-TTL II autofocus	
	Flash Exposure Compensation	±2 stops in 1/3- or 1/2-stop increments	

	FE Lock	Provided	
	PC terminal	None	
	Flash Control:	Built-in flash function settings, external Speedlite function settings, external Speedlite Custom Function settings Wireless flash control via optical transmission possible	
	Live View Shooting		
	Focus Methods	Hybrid CMOS AF III System (Face+Tracking, FlexiZone-Multi, FlexiZone-Single), Manual focus (approx. 5x / 10x magnification possible)	
	AF operation	One-Shot AF, Servo AF	
	Continuous AF	Provided	
	Focusing Brightness Range	EV 0 - 18 (at room temperature, ISO 100)	
	Touch shutter	Provided	
	Metering Modes	Real-time metering with image sensor Evaluative metering (315 zones), Partial metering (approx. 10% of Live View screen), Spot metering (approx. 2.7% of Live View screen), Center-weighted average metering	
	Metering Range	Focusing brightness range: EV 0 - 20 (at room temperature, ISO 100)	
	Silent Shooting	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect	
	Grid Display	Two types	
	Movie shooting		
	Recording format	MP4 Movie: MPEG-4 AVC/H.264 Variable (average) bit rate Audio- AAC	
	Recording Size and Frame Rate	1920 x 1080 (Full HD): 29.97p / 25.00p / 23.98p 1280 x 720 (HD): 59.94p / 50.00p / 29.97p / 25.00p 640 x 480 (SD): 29.97p / 25.00p	
	Compression Method	Standard / Light	
	File Size	Full HD (29.97p / 25.00p / 23.98p) (Standard): Full HD (29.97p / 25.00p) (Light): HD (59.94p / 50.00p) (Standard): HD (29.97p / 25.00p) (Light): VGA (29.97p / 25.00p) (Standard): VGA (29.97p / 25.00p) (Light): HDR Movie Shooting: * Card reading / writing speed necessary for movie shooting: IPB: at least 6MB per sec. ALL-I: at least 20MB per sec.	
	Focus method	Same as focusing with Live View shooting	
	Digital zoom	Approx. 3x to 10x	
	Movie Servo AF	Provided	

	Focusing brightness range	EV 0 - 18 (at room temperature, ISO 100)	
	Metering Modes	Center-weighted average and evaluative metering with the image sensor * Automatically set by the focus method.	
	Metering Range	EV 0 - 20 (at room temperature, ISO 100)	
	Exposure Control	Program AE for movies and manual exposure	
	Exposure Compensation	±3 stops in 1/3-stop increments (±5 stops for still photos)	
	ISO Speed (Recommended exposure index)	With autoexposure shooting: ISO 100 - ISO 6400 set automatically	
		With manual exposure: ISO 100 - ISO 6400 set automatically/manually, expandable to H (equivalent to ISO 12800)	
	HDR movies	Possible	
	Miniature effect movie	Possible	
	Video Snapshots	Settable to 2 sec. / 4 sec. / 8 sec.	
	Sound Recording	Built-in stereo microphones External stereo microphone terminal provided Sound-recording level adjustable, wind filter provided, attenuator provided	
	Grid Display	Two types	
	Still Photo Shooting	Possible	
	LCD Monitor		
	Type	TFT color liquid-crystal monitor	
	Monitor size and dots	Wide, 7.7cm (3.0in.) (3:2) with approx. 1.04 million dots	
	Brightness Adjustment	Manual (7 levels)	
	Electronic Level Display	Possible	
	Interface Languages	25	
	Touch Screen Technology	Capacitive sensing	
	Feature Guide	Displayable	
	Playback		
	Image Display Formats	Single-image display (without shooting information), Single-image display (with simple information), Single-image display (Shooting information displayed: Detailed information, Lens / histogram, White balance, Picture Style, Color space/noise reduction, Lens aberration correction), Index display (4/9/36/100 images)	
	Zoom Magnification	Approx. 1.5x - 10x	
	Highlight Alert	Overexposed highlights blink	
	AF Point Display	Possible	

	Image Browsing Methods	Single image, jump by 10 or 100 images, by shooting date, by folder, by movies, by stills, by rating	
	Image Rotate	Possible	
	Ratings	Provided	
	Movie Playback	Enabled (LCD monitor, audio/video OUT, HDMI OUT) Built-in speaker	
	Image Protect	Possible	
	Slide Show	All images, by date, by folder, by movies, by stills, by rating Five transition effects selectable	
	Background Music	Selectable for slide shows and movie playback	
	Post-Processing of Images		
	Creative filters	Grainy B/W, Soft focus, Fish-eye effect, Art bold effect, Water painting effect, Toy camera effect, Miniature effect	
	Resize	Possible	
	Cropping	Possible	
	Direct Printing		
	Compatible Printers	PictBridge-compatible printers	
	Printable Images	JPEG and RAW images	
	Print Ordering	DPOF Version 1.1 compatible	
	Custom Functions		
	Custom Functions	14	
	My Menu Registration	Possible	
	Copyright Information	Entry and inclusion enabled	
	Interface		
	Audio / Video OUT / Digital Terminal	Analog video (compatible with NTSC/PAL)/stereo audio output Hi-Speed USB equivalent: Computer communication, Direct printing, GPS Receiver GP-E2, Connect Station CS100 connection	
	HDMI Mini OUT Terminal	Type C (Auto switching of resolution), CEC-compatible	
	External Microphone IN Terminal	3.5mm diameter stereo mini-jack	
	Remote Control Terminal	For Remote Switch RS-60E3	
	Wireless Remote Control	Compatible with Remote Controller RC-6	
	Eye-Fi Card	Compatible	
	Wireless LAN		
	Standards Compliance	IEEE 802.11b/g/n	
	Transmission Method	DS-SS modulation (IEEE 802.11b)	

		OFDM modulation (IEEE 802.11g/n)	
	Transmission Range	Approx. 15m / 49.2ft. * When connected to a smartphone * With no obstructions between the transmitting and receiving antennas and no radio interference	
	Transmission Frequency (Central Frequency)	Frequency: 2412 to 2462 MHz, Channels: 1 to 11 ch	
	Connection Method	Infrastructure mode*, camera access point mode  * Wi-Fi Protected Setup supported	
	Security	Authentication method: Open system, Shared key, WPA/WPA2-PSK	
	NFC connection	For communication with smartphones or connection to Connect Station	
	Wi-Fi Functions		
	Connection to Smartphones	Images can be viewed, controlled, and received using a smartphone. Remote control of the camera using a smartphone. Images can be sent to a smartphone easily.	
	Transfer Images between Cameras	Transferring one image, Transferring selected images, Transferring resized images	
	Print from Wi-Fi printers	Images to be printed can be sent to a printer supporting Wi-Fi.	
	Save Images to Connect Station	Images can be sent and saved to Connect Station.	
	View Images Using a Media Player	Images can be viewed using a DLNA-compatible media player.	
	Send Images to a Web Service	Images in the camera or links to images can be sent to registered Web services.	
	Power		
	Battery	Battery Pack (Quantity 1) *AC power can be supplied via AC Adapter Kit	
	Number of Possible Shots (Based on CIPA Testing Standards)	Approx. 440 shots at room temperature (23°C / 73°F), Approx. 400 shots at low temperatures (0°C / 32°F)	
		With viewfinder shooting: Approx. 180 shots at room temperature (23°C / 73°F) Approx. 150 shots at low temperatures (0°C / 32°F)	
	Movie Shooting Time	Approx. 1hr. 20min. at room temperature (23°C / 73°F) Approx. 1hr. at low temperatures (0°C / 32°F)  * With a fully-charged Battery Pack LP-E17.	
	Dimensions and Weight		
	Dimensions (W x H x D)	Approx. 131.9 x 100.9 x 77.8mm / 5.20 x 3.98 x 3.07in.	
	Weight	Approx. 565g / 19.93oz. (CIPA Guidelines), Approx. 520g / 18.35oz. (Body only)	
	Operating Environment		
	Working Temperature Range	0°C - 40°C / 32°F - 104°F	
	Working Humidity	85% or less	



	Battery Pack LP-E17		
	Type	Rechargeable lithium-ion battery	
	Rated Voltage	7.2 V DC	
	Battery Capacity	1040 mAh	
	Working Temperature Range	During charging: 5°C - 40°C / 41°F - 104°F During shooting: 0°C - 40°C / 32°F - 104°F	
	Working Humidity	85% or less	
	Dimensions (W x H x D)	Approx. 33.0 x 14.0 x 49.4mm / 1.30 x 0.55 x 1.94in.	
	Weight	Approx. 45g / 1.59oz. (excluding protective cover)	
	Battery Charger LC-E17		
	Compatible Battery	Battery Pack	
	Recharging Time	Approx. 2 hours (at room temperature (23°C / 73°F))	
	Rated Input	100 - 240 V AC (50 / 60 Hz)	
	Rated Output	8.4 V DC / 700 mA	
	Working Temperature Range	5°C - 40°C / 41°F - 104°F	
	Working Humidity	85% or less	
	Dimensions (W x H x D)	Approx. 67.3 x 27.7 x 92.2mm / 2.65 x 1.09 x 3.63in. (prongs retracted)	
	Weight	Approx. 85g / 3oz.	
	Battery Charger LC-E17E		
	Compatible Battery	Battery Pack	
	Recharging Time	Approx. 2 hours (at room temperature (23°C / 73°F))	
	Rated Input	100 - 240 V AC (50 / 60 Hz)	
	Rated Output	8.4 V DC / 700 mA	
	Working Temperature Range	5°C - 40°C / 41°F - 104°F	
	Working Humidity	85% or less	
	Dimensions (W x H x D)	Approx. 67.3 x 27.7 x 92.2mm / 2.65 x 1.09 x 3.63in. (excluding power cord)	
	Weight	Approx. 80g / 2.82oz. (excluding power cord)	
	EF-S18-135mm f/3.5-5.6 IS STM		
	Focal length / Speed	18 -135mm / f/3.5-5.6	
	Lens construction	16 elements in 12 groups	
	Minimum aperture	f/22 - 36 * f/22-38 when 1/2 stop increments set for aperture	
	Angle of view	Diagonal extent: 74°20' - 11°30' Vertical extent: 45°30' - 6°20' Horizontal extent: 64°30' - 9°30'	

	Closest Focusing Distance	0.39m / 1.28ft.																	
	Max. magnification	0.28x (at 135mm focal length)																	
	Field of view	Approx. 248 x 372 - 53 x 80mm / 9.8 x 14.6 - 2.1 x 3.1in. (at 0.39m / 1.28ft.)																	
	Filter size	67mm																	
	Max. diameter x length	Approx. 76.6 x 96.0mm / 3.0 x 3.8in.																	
	Weight	Approx. 480g / 16.9oz.																	
	Hood	EW-73B (sold separately)																	
	Lens cap	E-67 II																	
	Case	LP1116 (sold separately)																	
<b>5</b>	<p><b>Osmo Plus 4K Camera</b></p> <p>22-77mm zoom lens, 3.5× optical and 2× digital lossless zoom  4K video, 12 megapixel photos, silent recording  Take sharper selfies with a 50cm minimum focus distance</p> <table border="1"> <tr> <td>Item Weight</td> <td>454 g</td> </tr> <tr> <td>Product Dimensions</td> <td>10.5 x 11.5 x 24.6 cm</td> </tr> <tr> <td>Batteries:</td> <td>1 Lithium Polymer batteries required. (included)</td> </tr> <tr> <td>Item model number</td> <td>CP.ZM.000425</td> </tr> <tr> <td>Flash Memory Installed Size</td> <td>16.0</td> </tr> <tr> <td>Included Memory Card Size</td> <td>16 GB</td> </tr> <tr> <td>Resolution</td> <td>4K</td> </tr> <tr> <td>Included Components</td> <td>osmo+, battery char</td> </tr> </table>			Item Weight	454 g	Product Dimensions	10.5 x 11.5 x 24.6 cm	Batteries:	1 Lithium Polymer batteries required. (included)	Item model number	CP.ZM.000425	Flash Memory Installed Size	16.0	Included Memory Card Size	16 GB	Resolution	4K	Included Components	osmo+, battery char
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<b>6.</b>	<p><b>Apple MMQA2HN/A iMac (7th Gen i5/8GB/1TB/21.5/Sierra) Silver</b></p> <p>The Apple MMQA2HN/A iMac renders performance and multi-tasking efficiently with its integrated design. This iMac is powered by a reliable Dual Core Intel Core i5 processor and features Mac OS Sierra operation system. Its convenient 21.5-inch display that supports an impressive 1920 x 1080 resolution ensures an experience of a lifetime.</p> <p>7th Gen Intel Core i5  8 GB  1 TB HDD  Mac OS Sierra  Processor Dual Core Intel Core i5  Operating System Mac OS Sierra  Power Features AC 100 - 240 V, 50/60 Hz  Color Family Silver  In the Box 21.5?inch iMac, Magic Keyboard, Magic Mouse 2, Power cord, Lightning to USB Cable  USB Inputs 4  Screen 21.5 inch LED Display  Screen Size (cm) 54.61 cm  Hdmi -  Resolution 1920 x 1080 pixels  Performance Features 2.3GHz dual?core Intel Core i5 (Turbo Boost up to</p>																		

	3.6GHz)	
<b>7</b>	HDMI Cable - <b>10 mt.</b>	
<b>8</b>	HDMI to AVI Coverter	
<b>9</b>	SDI To HDMI coverter	

**Signature of the tenderer/agency**

**Name of the tenderer/agency**

**Seal of the tenderer/agency**

**Place:**

**Date:**