

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

Sr. No. of Tender: GV/5/2017-18

Date – 06/02/2018

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 Instrument for Audio Visual Department, Gujarat vidyapith, Dist- Ahmedabad**

| Last date and time to submit Tender Documents at (n)procure (1) | Last Date and time for Submit the EMD and Hard copy of Technical bid | Date & Place of opening of the tender(Technical Bid) | Tender fee | Amount of EMD | Place of submission of Tender document | Opening of financial Bid |
|--|---|--|---|---|---|--|
| Date :27/02/2018 Tuesday Up to 5-00 pm | Date.28/02/2018 Wednesday Up to 4 .00 Pm | Date: 01/03/2018 Thursday At 12-00 pm. Committee room central office, Gujarat vidyapith, Ahmedabad - 14 | Rs.1000/- by Gujarat Vidyapith I-Collect Only (Non-refundable) | 2 % of Bid Price by Demand Draft, in favour of Registrar, Gujarat Vidyapith. (Refundable) | Central Office, Gujarat Vidyapith, Ahmedabad, | <u>Date- 03/03/2018</u> <u>saturday</u> |

GENERAL TERMS & CONDITIONS OF THE TENDER

The tenderer should upload the tender (Financial Bid) on or before **27/02/2018** 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 28/02/2018** 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**
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

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|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Name of the Tender | | | | | | | | | | | | | | | | | | | | |
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| Firm type | | | | | | | | | | | | | | | | | | | | |
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(Like proprietorship / Partnership / Company / others)

Address

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Contact No :

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| +Land line No. | | | | | | | | | | | | | | | | | | | | |
| Fax No. | | | | | | | | | | | | | | | | | | | | |
| Mobile No. | | | | | | | | | | | | | | | | | | | | |
| Email address | | | | | | | | | | | | | | | | | | | | |

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 where supply the prescribe the tender item with evidence (P.O / certificate of experience)

| Sr. No. | Name of Uni/ Govt. & semi Govt office | Year of Supply | Name of equipment | cost of equipment |
|----------------|--|-----------------------|--------------------------|--------------------------|
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(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/3/2017-18****Name of the Tender – Tender for Scientific Laboratory Equipments for Home Science Department, Sadra Campus, Dist:- Gandhinagar**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) |
|--------|---|---|---|
| | Full HD compact professional camcorder | | |
| 1 | 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 | |

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|------------------------------|--|--|--|
| | | 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 | |

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| | | 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) | |

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| | | Warranty (1) | |
| 02 | Live Fluid Head with Befree Aluminum Tripod System | | |
| | 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 | |
| 03 | Proaim Curve-N-Line Camera Video Slider PRODUCT HIGHLIGHTS 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. | | |
| 04 | 24.2MP Digital SLR Camera (Black) with 18-135 STM Lens, Memory card, Camera bag | | |
| | 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) | |

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| | | 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) | |
| | 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 | |

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| | | 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 | |
| | 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 | |

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| 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 autoflash | |

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| | 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 | |

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| | 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 | |

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|--|--------------------------------------|---|--|
| | 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 | |

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|--|--|--|--|
| | 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' | |

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|-----------------------------|--|---|-------------|-------|--------------------|-----------------------|------------|--|-------------------|--------------|-----------------------------|------|---------------------------|-------|------------|----|---------------------|---------------------|--|
| | 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 3.1 in. (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) | | | | | | | | | | | | | | | | | |
| 5 | <p>Osmo Plus 4K Camera</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 | |
| 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 | | | | | | | | | | | | | | | | | | |
| 6. | <p>Apple MMQA2HN/A iMac (7th Gen i5/8GB/1TB/21.5/Sierra) Silver</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> | | | | | | | | | | | | | | | | | | |

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|----------|----------------------------|--|
| | 3.6GHz) | |
| 7 | HDMI Cable - 10 mt. | |
| 8 | HDMI to AVI Coverter | |
| 9 | SDI To HDMI coverter | |

Signature of the tenderer/agency

Name of the tenderer/agency

Seal of the tenderer/agency

Place:

Date: