

# **Kavango East Regional Council**

# Request for Sealed Quotations for Goods

# **Minutes Section**

Procurement of photographic equipment & Accessories for KERC.

Procurement Reference No: G/RFQ/KERC/101/47/2023/2024

P/Bag 2124, Rundu, Tel: 066 - 266000

Fax No: 066 -265208



#### KAVANGO EAST REGIONAL COUNCIL

Tel.: 066 – 266026 Fax: 066-265208

E-mail: wnyambe@kavangorc.gov.na

Enquires: Mr. W. Nyambe

Private Bag 2124 Rundu

NAMIBIA

#### Letter of Invitation

29/02/2024

Dear Sir, Madam

# Request for Quotations for Photographic equipment & accessories

The Kavango East Regional Council invites you to submit your best quote for the items described in detail hereunder.

Any resulting contract shall be subject to the terms and conditions referred to in the document.

Queries, if any, should be addressed to Mr. Wilfred Nyambe Tel: 066 – 266026, Kavango East Regional Council.

Please prepare and submit your quotation in accordance with the instructions given or inform the undersigned if you will not be submitting a quotation.

Yours faithfully,

Mr. Jona M. Kangumbe

Head: Procurement Management Unit

LEGO EAST REGIONAL CONTROL Management Management Control Head

2.9 FEB 2024

29.02-204

## SECTION I: INSTRUCTIONS TO BIDDERS

#### 1. Rights of Public Entity

The Kavango East Regional Council reserves the right:

- (a) Ask for clarifications at the time of evaluating the quotations,
- (b) split the contract on an item basis or
- (c) Rejects all quotations

A Purchaser shall not be bound to accept the lowest or any quotation.

#### 2. Preparation of Quotations

You are requested to quote for the items mentioned in Section III by completing, signing and returning:

- (a) The List of Goods and Price Schedule Section III;
- (b) The Specifications and Compliance Sheet in Section V; and
- (c) Warranty period for all equipment: two (2) years.

You are advised to carefully read the complete Request for Sealed Quotations document, including the Special Conditions of Contract in Section VII, before preparing your quotation. The standard forms in this document may be retyped for completion but the Bidder is responsible for their accurate reproduction.

#### 3. Validity of Quotations

Ninety (90) days from the date of the bid submission deadline.

#### 4. Eligibility Criteria

To be eligible to participate in this Quotation exercise, you should submit the following documents: all copies must be certified by a Commission of Oaths.

- (a) Have a valid certified copy of Company Registration Certificate/Founding Statement which outlines that bidders' principle line of business is in line with this procurement.
- (b) Have a valid original or certified copy of good Standing Tax Certificate
- (c) Have a valid or certified copy of good Standing Social Security Certificate
- (d) Submit signed Bid Securing Declaration
- (e) Client Satisfactory Certificates from at least three (3) clients for the last three (3) years;
- (f) Local Distributor letter for the equipment supplied

#### 5. Delivery

Delivery shall be 30 Days after acceptance/issue of Purchase Order. Only minimal deviation in delivery period shall be considered.

- 5.1. The following tests and inspections will be conducted on the goods at delivery:
  - Verification of quantity and Quality

#### 6. Sealing and Marking of Quotations

Quotations should be sealed in a single envelope, clearly marked with the Procurement Reference Number, addressed to the Public Entity with the Bidder's name and contact information at the back of the envelope.

#### 7. Submission of Quotations

Quotations should be deposited in the Quotation/Bid Box located at *Kavango East Regional Council* not later than **12 March 2024**, @11:00. Quotations by post or hand delivered should reach *Kavango East Regional Council*, *Office 11* by the same date and time at latest.

Any quotation submitted will be regarded as an offer by the bidder and does not constitute or imply the acceptance of any quotation by KERC. KERC is under no obligation to award a contract to any bidder because of this RFQ.

#### 8. Opening of Quotations

Quotations will be opened internally by the Public Entity immediately after the closing time referred to in instruction 7 above. A record of the Quotation Opening stating the name of the bidders, the amount quoted, the presence or absence of a Bid Security/Bid Securing Declaration, will be posted on the website of the Public Entity and available to any bidder on request within three working days of the Opening.

#### 9. Evaluation of Quotations

The Kavango East Regional Council shall have the right to request for clarifications in writing during evaluation. Offers that are substantially responsive shall be compared on the basis of price or ownership cost, subject to Margin of Preference where applicable, to determine the lowest evaluated quotation.

The benchmark set by the Kavango East Regional Council will be taken into consideration during evaluations.

#### 10. Technical Compliance

Bidders shall submit along with their quotations documents, catalogues and any other literature to substantiate compliance with the required specifications and to qualify deviations if any with respect to Public Entity's requirements.

The Specifications, Performance Requirements and Compliance Sheet details the minimum specifications of the goods/items to be supplied. The specifications have to be met but no credit will be given for exceeding the specifications.

#### 11. Prices and Currency of Payment

Prices shall be fixed in Namibian Dollars. Prices Quoted shall be firm and fixed during the validity period of the quotation and execution of contract.

#### 12. Margin of Preference

12.1. The applicable margins of preference and their application methodology are as follows:

#### Not applicable

12.2. Bidders applying for the Margin of Preference shall submit, **upon request**, evidence of:

#### Not applicable

#### 13. Award of Contract

The Bidder having submitted the lowest evaluated responsive quotation and qualified to supply the goods/items and related services shall be selected for award of contract. Award of contract shall be by issue of a Purchase Order/Letter of Acceptance in accordance with terms and conditions contained in Section VI: Contract Agreement and General Conditions of Contract.

KERC reserves the right at the time of award of Contract to increase or decrease, by up to 15%, the volume of goods specified in this RFQ without any change in unit prices or other terms and conditions.

# **SECTION II: QUOTATION LETTER**

(To be completed by Bidders)

[Complete this form with all the requested details and submit it as the first page of your quotation with the Price list and documents requested above. A signature and authorisation on this form will confirm that the terms and conditions of the RFQ prevail over any attachments. If your quotation is not authorised, it will be rejected.]

| Quotation addressed to: [name of Public Entity]  Procurement Reference Number:   |
|--|
| Subject matter of Procurement:  We offer to supply the items listed in the attached List of Goods and Price Schedule as per the despecifications and, in accordance with the terms and conditions stated in your Request for Quota referenced above.  We confirm that we are eligible to participate in this Quotation exercise and meet the eligible criteria specified in Section 1: Instruction to Bidders.  We undertake to abide ethical conduct during the procurement process and the execution of resulting contract.  The validity period of the Quotation is days from the date of the bid submission dead.  We confirm that the prices quoted in the List of Goods and Price Schedule are fixed and firm will not be subject to revision or variation, if we are awarded the contract prior to the expiry |
| Subject matter of Procurement:  We offer to supply the items listed in the attached List of Goods and Price Schedule as per the despecifications and, in accordance with the terms and conditions stated in your Request for Quota referenced above.  We confirm that we are eligible to participate in this Quotation exercise and meet the eligible criteria specified in Section 1: Instruction to Bidders.  We undertake to abide ethical conduct during the procurement process and the execution of resulting contract.  The validity period of the Quotation is days from the date of the bid submission dead We confirm that the prices quoted in the List of Goods and Price Schedule are fixed and firm will not be subject to revision or variation, if we are awarded the contract prior to the expiry   |
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| We undertake to abide ethical conduct during the procurement process and the execution of resulting contract.  The validity period of the Quotation is days from the date of the bid submission dead We confirm that the prices quoted in the List of Goods and Price Schedule are fixed and firm will not be subject to revision or variation, if we are awarded the contract prior to the expiry   |
| The validity period of the Quotation is days from the date of the bid submission dead  We confirm that the prices quoted in the List of Goods and Price Schedule are fixed and firm will not be subject to revision or variation, if we are awarded the contract prior to the expiry   |
| We confirm that the prices quoted in the List of Goods and Price Schedule are fixed and firm will not be subject to revision or variation, if we are awarded the contract <b>prior to the expiry</b>   |
| will not be subject to revision or variation, if we are awarded the contract prior to the expiry   |
|  |
| The delivery period offered from the date of issue of Purchase Order/ Letter of Acceptance is shown in the List of Goods items and Price Schedule.   |
| Quotation Authorised by:   |
| Name of Bidder Company's Address and seal  |
| Contact Person   |
| Name of Person Authorising the Quotation: Position: Signature:   |
| Date Phone No /Fax   |

Phone No./Fax

#### Appendix to Quotation Letter

# BID SECURING DECLARATION (Section 45 of Act)

(Regulation 37(1)(b) and 37(5))

| Date:   |
|---|
| [Day month year]  |
| Procurement Ref No.:  |
| To: Kavango East Regional Council   |
| I/We* understand that in terms of section 45 of the Act a public entity must include in the bidding document the requirement for a declaration as an alternative form of bid security.    |
| I/We* accept that under section 45 of the Act, I/we* may be suspended or disqualified in the event of   |
| (a) a modification or withdrawal of a bid after the deadline for submission of bids during the period of validity;  |
| (b) refusal by a bidder to accept a correction of an error appearing on the face of a bid;  |
| (c) failure to sign a procurement contract in accordance with the terms and conditions set forth in the bidding document, should I/We* be successful bidder; or                           |
| (d) Failure to provide security for the performance of the procurement contract if required to do so by the bidding document.   |
| I/We* understand this bid securing declaration ceases to be valid if I am/we are* not the successful Bidder   |
| Signed:  [Insert signature of person whose name and capacity are shown]   |
| Capacity of: [Indicate legal capacity of person(s) signing the Bid Securing Declaration]  |
| Name:[Insert complete name of person signing the Bid Securing Declaration]  |
| Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]  |
| Dated onday of,[Insert date of signing]   |
| Corporate Seal (where appropriate)  |
| [Note*: In case of a joint venture, the bid securing declaration must be in the name of all partners to the joint venture that submits the bid.]  *delete if not applicable / appropriate |

# SECTION III: LIST OF GOODS AND PRICE SCHEDULE

| 2.4  | +3                                |  | າ ລູ   |           | Country<br>of Origin       |   |                                |                                       |                                     |       |                             |   |  |                                      |  |   |   |   |
|--|-----------------------------------|--|--|-----------|----------------------------|---|--------------------------------|---------------------------------------|-------------------------------------|-------|-----------------------------|---|--|--------------------------------------|--|---|---|---|
| 00/2000/1//1   | FPC                               | 1 columns E - I and fill the total s quoted G=Total price for one item ( C x F)              | quote appropriat   | 1         | Delivery<br>weeks)         | (days/month                                 |                                |                                       |                                     |       |                             |   |  |                                      |  |   |   |   |
| KFRC/10  | IS TO RIDD                        | mns E - I and ted  | tach to your on section  | Н         | VAT:<br>NAD                |   |                                |                                       |                                     |       |                             |   |  |                                      |  |   |   |   |
| Procurement Ref No. G/RFO/KFRC/101/47/2023/2024                    | INSTRICTIONS TO RIDDERS           | E= mark with a *if an equivalent is quoted  F= Rate per unit  G=Cotal price for one item ( C | If an equivalent is quoted, please attach to your quote appropriate technical information & specification  Bidders shall fill in and sign the bottom section of this page. | 0         | Total price<br>without VAT | NAD   |                                |                                       |                                     |       |                             |   |  |                                      |  |   |   |   |
| Procurement  |                                   | E= mark with a *if at<br>F= Rate per unit  | an equivalent<br>chnical inform<br>idders shall fill   | Ц         | Price per<br>unit          | NAD   |                                |                                       |                                     |       |                             |   |  |                                      |  |   |   |   |
|  |                                   | E= ma<br>F= Ra   | • • • • • • • • • • • • • • • • • • •  | 田         | *                          |   |                                |                                       |                                     |       |                             |   |  |                                      |  |   |   |   |
| sories   |                                   | olic Entity.   |  | D         | Unit of<br>measures        | Per   | Par                            | Per                                   | Per                                 |       | Per                         | Per   | Per  | Per                                  | Per                                    | Per   | Per   | Per   |
| ment & Access  | ITY                               | ed in by the Pul   |  | C         | Quantity<br>required       |   | -                              | 4 -                                   |                                     |       | 1                           |   |  |                                      | 1                                      |   | 2   | 2   |
| QUOTATION FOR: Procurement of Photographic Equipment & Accessories | INSTRUCTIONS TO THE PUBLIC ENTITY | At time of preparation of the RFQ, Columns A to D shall be filled in by the Public Entity.   |  |           | Description of Goods       | CANON EOS-1D X MARK III DSLR CAMERA<br>BODY | CANON EF 11-24MM F/4L USM LENS | CANON EF 24-105MM F/4L IS II USM LENS | CANON EF 70-200MM F/2.8L IS III USM | LEINS | CANON SPEEDLITE 600EX II-RT | BLACKMAGIC DESIGN DAVINCI RESOLVE 18 STUDIO (ACTIVATION CARD) | MANFROTTO MK190XPRO4-3W TRIPOD<br>WITH XPRO 3.WAY HEAD | CANON SPEEDLITE TRANSMITTER ST-E3-RT | LOWEPRO NOVA 180 AW II SHOULDER<br>BAG | LOWEPRO PROTACTIC BP 450 AW II<br>CAMERA AND LAPTOP BACKPACK<br>(BLACK) | SANDISK EXTREME PRO 128GB CFEXPRESS MEMORY CARD TYPE B 128GB STORAGE CAPACITY | 11. LEXAR CF EXPRESS PRO 256GB TYPE B (1900MB/S) DIAMOND SERIES |
| 10   |                                   | At tir   | 4  | Itoma and | rem no.                    |   | 2                              | 8                                     | 4                                   | R     | n                           | 9   | 7  | 00                                   | 6                                      | 10  | 11  | 12  |

| 'n | • | ¥ | ø |
|----|---|---|---|

| 13     | SANDISK EXTREME PRO CFFXPR FSS TYPF   | SS TVPF      |   | Dov    |  |      |  |
|--------|---|--------------|---|--------|--|------|--|
|        | B CARD READER   |              | ٠ |        |  |      |  |
| 14     | CANON DM-E1 DIRECTIONAL STEREO MICROPHONE   | REO          | - | Per    |  |      |  |
| 15     | BOYA BY-BM3032 CAMERA-MOUNT<br>SUPERCARDIOID SHOTGUN MICROPHONE                               | T.<br>OPHONE |   | Per    |  |      |  |
| 16     | BOYA BY-WM8 PRO-K2 UHF DUAL-<br>CHANNEL WIRELESS LAVALIER SYSTEM                              | YSTEM        |   | Per    |  |      |  |
| 17     | SONY WH-1000XM5 NOISE-CANCELING<br>WIRELESS OVER-EAR HEADPHONES<br>(BLACK)                    | LING         | 1 | Per    |  |      |  |
| 18     | CANON TC-80N3 TIMER REMOTE RELEASE  | Щ            |   | Per    |  |      |  |
| 19     | RODE SC10 RIGHT-ANGLE 3.5MM TRRS CABLE (32CM)   | RRS          |   | Per    |  |      |  |
| 20     | ELINCHROM ELC 125/500 DUAL STUDIO<br>MONOLIGHT KIT  | UDIO         | _ | Per    |  |      |  |
| 21     | ZOOM H6 HANDY SOUND RECORDER  | ER           | 4 | Per    |  |      |  |
| 22     | DJI MAVIC 3 PRO CINE DRONE  |              | - | Per    |  |      |  |
| 23     | LOWEPRO DRONEGUARD BP 250<br>BACKPACK FOR DJI MAVIC PRO                                       |              |   | Per    |  |      |  |
| 24     | SANDISK 256GB EXTREME PRO 200MB/S<br>UHS-I MICROSDXC MEMORY CARD                              | )MB/S        | 2 | Per    |  |      |  |
| 25     | LEXAR 256GB FLY MICROSDXC UHS-I<br>CARD 160MB/S   | I-SI         |   | Per    |  |      |  |
| 26     | RODE SC10 RIGHT-ANGLE 3.5MM TRRS CABLE (32CM)   | RRS          |   | Per    |  |      |  |
| 27     | CANON LP-E19 BATTERY PACK   |              |   | Par    |  |      |  |
| 28     | CANON LC-E19 BATTERY CHARGER  | 8            | 1 | Per    |  |      |  |
| 29     | SANDISK PROFESSIONAL G-RAID 2 24TB 2-BAY RAID ARRAY (2 X 12TB, THUNDERBOLT 3 / USB 3.2 GEN 1) | 24TB 2-      |   | Per    |  |      |  |
|        |   |              |   |        | TOTAL  |      |  |
| NAME:  |   | POSITION:    |   | ALVOID | THE STATE OF THE S |      |  |
| NAME O | NAME OF BIDDER:   | ADDEEC.      |   | SIGNA  | SIGNALURE  | DATE |  |
|        |   | ADDIKESS:    |   |        |  | 1.2  |  |

| livery of goods provide details hereunder: |
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Currency: ..... Exchange Rate: .....

If no base rate of exchange is given, the price shall be treated as firm in Namibian Dollars for all intent and purpose.

Key notes: NA=NOT APPLICABLE, NQ=NO QUOTE

# SECTION IV: SPECIFICATIONS AND PERFORMANCE REQUIREMENTS

[The Public Entity shall use this section to specify its Technical Requirements for the goods items, Inspection and examination, and the scope of Related Services, as applicable.]

# SECTION V: SPECIFICATIONS AND COMPLIANCE SHEET

Procurement Reference Number: G/RFQ/KERC/101/47/2023/2024

| Item<br>No | Technical Specification Required   | Compliance of Specification Offered | Details of Non-Compliance/<br>Deviation<br>(if applicable) |
|------------|--|-------------------------------------|--|
| A*         | B*   | C                                   | D  |
| 1          | CANON EOS-1D X MARK III DSLR<br>CAMERA BODY  |                                     |  |
|            | Image Sensor Type: 36 x 24 mm CMOS   |                                     |  |
|            | Effective Pixels: Approx. 20.1 M Total Pixels: Approx. 21.4 M Aspect Ratio: 3:2        |                                     |  |
|            | Low-Pass Filter: Built-in/Fixed with Self Cleaning Sensor Unit                         |                                     |  |
|            | Colour Filter Type: Primary Colour   |                                     |  |
|            | Image Processor  |                                     |  |
|            | Type: DIGIC X  |                                     |  |
|            | Lens   |                                     |  |
|            | Lens Mount: EF (excludes EF-S/EF-M lenses)   |                                     |  |
|            | <b>Focal Length:</b> 1.x Multiplication with EF lens fitted                            |                                     |  |
|            | SLR FOCUSING   |                                     |  |
|            | Type: TTL secondary image-forming phase-difference detection using AF-dedicated sensor |                                     |  |
|            | AF System / Points: 191 Point/155 f/4 cross-type AF points inc 1 dual cross            |                                     |  |
|            | type at f/2.8 <b>AF working range</b> : EV -4 to 21 (at 20°C & ISO 100)                |                                     |  |
|            | AF Modes: One Shot - AI Focus<br>AF Point Selection                                    |                                     |  |
|            | Automatic selection: 191 point AF  |                                     |  |

#### **EXPOSURE CONTROL**

Metering modes

400,000-pixel RGB+IR metering sensor, 384-zone metering

- (1) **Evaluative metering** (linked to All AF point)
- (2) **Partial metering** (approx. 6.2% of viewfinder at centre)
- (3) **Spot metering:** Center spot metering (approx. 1.5% viewfinder at centre) AF point-linked spot metering

Multi-spot metering

(4) Centre weighted average metering Metering Range EV 0-20 (at 23°C with 50 mm f1.4 lens

EV 0-20 (at 23°C with 50 mm f1.4 lens ISO 100) EV -3-20 in Live and movie

#### SHUTTER

**Type:** Vertical-travel mechanical focalplane shutter, electronically controlled at all speeds/Sensor Electronic shutter **Speed:** 30 - 1/8000 sec. (1/3 stop

increments), Bulb

**Shutter Release:** Soft touch electromagnetic release

#### WHITE BALANCE

**Type:** Auto white balance with the imaging sensor

Settings

Auto (Ambience priority/White Priority), Daylight, Shade, Cloudy, Tungsten light, White Fluorescent light, Flash, Custom, Colour Temperature Setting

#### White balance compensation:

- 1. Blue/Amber +/-9
- 2. Magenta/Green +/-9.

WB Bracketing

- +/-3 levels in single level increments
- 3, 2, 5 or 7 bracketed images per shutter release

Selectable Blue/Amber bias or

Magenta/Green bias.

#### VIEWFINDER

Viewfinder: Pentaprism

Coverage (Vertical/Horizontal): Approx.

100%

Magnification: 0.76x Eyepoint: 20 mm

Dioptre Correction: -3 to +1 dpt

Focusing Screen: fixed

Mirror: Quick-return all surface half

mirror

#### **LCD MONITOR**

Monitor: 3.2" (8.01 cm) TFT, approx.

2.1 million dots

Coverage: Approx. 100%

#### **FLASH**

Modes: E-TTL II Auto Flash,

#### SHOOTING

**Modes:** Program AE, Shutter priority AE, Aperture priority AE, Manual, 3x

Custom settings

Picture Styles: Auto, Standard, Portrait,

Landscape, Neutral, Faithful,

Monochrome, Fine Detail, User Defined

(x3)

Colour Space: sRGB and Adobe RGB

#### **IMAGE PROCESSING**

Clarity (8 levels) Highlight Tone Priority

#### LIVE VIEW MODE

Type: Electronic viewfinder with image

sensor

Coverage: Approx. 100% (horizontally

and vertically)

Frame Rate: For Stills 29.97 fps/for Movies 59.94 fps/29.97 fps (NTSC)

50.00 fps/25.00 fps (PAL)

**Focusing:** Manual Focus (Magnify the image 5x or 10x at any point on screen) **Autofocus:** Dual Pixel CMOS AF

#### **FILE TYPE**

Still Image Type

JPEG: 10 compression options HEIF: 10 compression options (10bit

422 BT2100) RAW: RAW, CRAW

#### **IMAGE SIZE**

**JPEG/HEIF:** (L) 5472x3648, (M1) 4368x2912, (M2) 3648x2432, (S)

2736x1824

HEIF: 5472x3648

**RAW:** (RAW/C-RAW) 5472x3648 **Folders:** New folders can be manually

created and selected

#### **EOS MOVIE**

Movie Type

RAW: CRM 12bit Audio: Linear PCM

MP 4 Video: 4K (8bit MPEG4

AVC/H.264, 10bit MPEG4/HEVC with

Canon log), Full HD - MPEG4 AVC/H.264, Audio: Linear PCM

MP4 Video: Full HD IPB light - MPEG4

AVC/H.264, Audio: AAC

**Microphone:** Built-in stereo microphones (48 kHz, 16-bit x 2 channels)

HDMI Display: External Monitor only,

External Monitor only without

information display or Simultaneous on

camera and external monitor **HDMI Output:** 4K and Full HD
recording, uncompressed YCbCr 4:2:0,
8-bit BT709, or YCbCr 4:2:2, 10-bit
BT2020 with Canon Log sound output
via HDMI is also possible

Focusing: Dual Pixel CMOS AF with Face Detection and Tracking AF, Movie

Servo AF Manual Focus

ISO: 100-25600 (in 1/3-stop increments) ISO can be expanded to or H1: 51200, H2: 102400, H3: 204800 (selected in Custom Function)

Movie Digital IS: Yes, image area when enabled: reduced by 10%

#### OTHER FEATURES

**GPS** 

Built in - Longitude, Latitude, Elevation, Coordinated Universal Time

- GPS satellites (USA)
- GLONASS satellites (Russia)
- Quasi-Zenith Satellite Michibiki (Japan)

**Custom Functions: 38 Custom** 

**Functions** 

Metadata Tag: Author, copyright, Image rating (0-5 stars) GPS, Rating, IPTC (registered with EOS Utility/browser remote)

LCD Panel (EL) / Button Illumination: Yes/Yes

Water / Dust resistance: Yes

Voice Memo: Yes

**Intelligent Orientation Sensor:** Yes

Histogram **Brightness:** Yes **RGB:** Yes

Playback zoom: 1.5x - 10x

#### **DISPLAY FORMATS**

(1) Single image with information (2 levels)

- (2) Single image
- (3) 4 image index
- (4) 9 image index
- (5) 36 image index
- (6) 100 image index
- (7) Jump Display
- (8) Movie edit
- (9) Raw processing
- (10) Rating

**Image Erase Protection:** Erase protection of one image at a time, folder

Image Erase: Single image, selected, folder, card or all unprotected Self-Timer: 2 or 10 sec.

#### **MENU CATEGORIES**

- (1) Shooting Menu 1 4 (separate photo/video)
- (2) AF menu 1 5
- (3) Network 1
- (4) Playback menu 1 3
- (5) Setup menu 1-5
- (6) Custom functions 1-9
- (7) My Menu (1-5 user selectable)

#### **MENU LANGUAGES**

Firmware Update: Update possible by the user. (Camera, Lens, WFT, External Speedlite)

Body Materials: Magnesium Alloy

#### **MEMORY CARD**

Type: CFexpress 1.0 Type B Supported Operating System PC: Windows 8.1 and Windows 10 (tablet mode not supported)

Macintosh

Mac OS 10.14 (Mojave)

Mac OS 10.13 (High Sierra)

Mac OS 10.12 (Sierra)

OS X 10.11 (El Capitan)

#### **SOFTWARE**

Other

EOS Utility 3, Picture Style Editor, WFT utility, Camera connect app (iOS/Android)

Image Manipulation: Digital Photo

Professional 4, Digital Photo Professional

Express for iPad (RAW Image

Processing),

**POWER SOURCE** 

| ſr— |   |   |
|-----|---|---|
|     | Batteries: Rechargeable Li-ion Battery                                  |   |
|     | LP-E19, LP-E4N  |   |
| 1   | (LP-E19 battery supplied)   |   |
| 1   | ACCESSORIES   |   |
|     | Lenses: All EF lenses (excludes EF-S                                    |   |
|     | lenses)   |   |
|     | FLASH   |   |
|     | Canon Speedlites 600EX-II RT,   |   |
|     | Speedlite Transmitter ST-E2, Speedlite                                  |   |
|     | Transmitter ST-E3-RT)   |   |
| 1   | Remote Controller / Switch: Remote                                      |   |
|     | control with N3 type contact and  |   |
|     | Speedlite 600EX-II RT   |   |
|     | Power Supply & Battery Chargers:  |   |
|     | Battery Pack LP-E19, Battery Pack LP-E4N, Battery charger LC-E19, Power |   |
|     | Adapter AC-E19/DR-E19   |   |
|     | Other: Wireless File Transmitter WFT-                                   |   |
|     | E9, Eyecup Eg, Eg-series Dioptric                                       |   |
|     | Adjustment Lens with Rubber Frame Eg,                                   |   |
|     | Anti Fog Eyepiece Eg, Angle Finder C,                                   |   |
|     | Hand Strap E1/E2  |   |
| 2   | CANON EF 11-24MM F/4L USM   |   |
|     | LENS  |   |
|     | E II a a a a a a  |   |
|     | Focal Length & Maximum  |   |
|     | Aperture: 11-24mm f/4   |   |
|     | Lens Construction: 16 elements in                                       |   |
|     | 11 groups  Diagonal Angle of Winger 1269051                             |   |
|     | <b>Diagonal Angle of View:126</b> °05' - 84°00'                         |   |
|     | Focus Adjustment: AF with full-   |   |
|     | time manual   |   |
|     | Closest Focusing Distance: 11 in. /                                     |   |
|     | 0.28m   |   |
|     | Filter Size: Rear insert-type   |   |
|     | Max. Diameter x Length, Weight:   |   |
|     | 108.0 x 132.0mm, 1180g  |   |
| 3   | CANON EF 24-105MM F/4L IS II  |   |
|     | USM LENS  |   |
|     |   |   |
|     | Focal Length & Maximum  | 1 |
|     | <b>Aperture</b> : 24-105mm f/4  |   |
|     | Lens Construction: 17 elements in                                       |   |
|     | 12 groups   |   |
|     | Diagonal Angle of View: 84°00' -  |   |
|     | 23° 20'   | 1 |
|     | Focus Adjustment: AF with full-   |   |
|     | Classet Forusing Distances 0.45   |   |
|     | Closest Focusing Distance: 0.45m<br>Filter Size: 77mm diameter          |   |
|     | rater Size. //IIIII diameter  |   |

|   | Max. Diameter x Length, Weight:                                 |  |
|---|---|--|
|   | 83.5 x 118mm, approx. 795g                                      |  |
| 4 | Canon EF 70-200mm f/2.8L IS III USM Lens.                       |  |
|   | EF-Mount Lens/Full-Frame Format,                                |  |
|   | Aperture Range: f/2.8 to f/32, One                              |  |
|   | Fluorite Element & Five UD                                      |  |
|   | Elements, Air Sphere Coating, Ring-                             |  |
|   | Type Ultrasonic Motor AF System,                                |  |
|   | Optical Image Stabilizer, Internal                              |  |
|   | Focus, Focus Range Limiter,                                     |  |
|   | Weather-Sealed Design, Fluorine                                 |  |
|   | Coating, Detachable, Rotatable                                  |  |
|   | Tripod Collar, Rounded 8-Blade                                  |  |
|   | Diaphragm.  |  |
| 5 | CANON SPEEDLITE 600EX II-                                       |  |
|   | RT  |  |
|   |   |  |
|   | DOWED C-: 1- N- (IGO100)  |  |
|   | <b>POWER:</b> Guide No. (ISO100). meters                        |  |
|   | 60 (200mm)  |  |
|   | 00 (200mm)  |  |
|   | ZOOM  |  |
|   |   |  |
|   | Zoom head: Yes  |  |
|   | focal length coverage: 20-200mm                                 |  |
|   | Coverage with wide panel: 14mm                                  |  |
|   | Auto zoom for sensor size: Yes                                  |  |
|   | FLASH MODES   |  |
|   |   |  |
|   | Auto exposure control: E-TTLII/E-                               |  |
|   | TTL/TTL   |  |
|   | High speed sync (FP): Yes Manual / output settings: Yes - 1/1-  |  |
|   | 1/128   |  |
|   | Manual steps: 1/3 step  |  |
|   | Strobe / output settings: Yes - 1/4-                            |  |
|   | 1/128   |  |
|   | Frequency: 1-500Hz (199Hz using                                 |  |
|   | optical receiver function)                                      |  |
|   | EV A CIV PER A CIVE   |  |
|   | FLASH-RELATED FUNCTION FE lacks Year                            |  |
|   | FE lock: Yes  |  |
|   | Flash exposure compensation: Yes Flash Exposure bracketing: Yes |  |
|   | Second-curtain flash sync: Yes                                  |  |
|   | Modelling flash: Yes  |  |
|   | Transmit masm. 1 to   |  |

|     | Colour temperature info                        |  |
|-----|--|--|
|     | communication: Yes                             |  |
|     |  |  |
|     | WIRELESS FLASH                                 |  |
|     |  |  |
|     | Transmitter: Yes                               |  |
|     | Transmission type: Optical / Radio             |  |
|     | Transmitter Max range approx.:                 |  |
|     | Indoors: 0.7-15m / 30m; Outdoors:              |  |
|     | 0.7-10m / 30m                                  |  |
|     | Receiver: Yes                                  |  |
|     | No of groups: 3 / 51                           |  |
|     | No of channels: 4/15                           |  |
|     | Remote Shutter Release: Yes                    |  |
| 6   |  |  |
| 0   | BLACKMAGIC DESIGN DAVINCI<br>RESOLVE 18 STUDIO |  |
|     | (ACTIVATION CARD)                              |  |
|     | (ACTIVATION CARD)                              |  |
|     | 2K Editing & Colon Competing                   |  |
|     | 8K Editing & Color Correction                  |  |
|     | Advanced HDR Editing                           |  |
|     | Next Gen Audio Engine; Edit 2000+              |  |
|     | Tracks   |  |
|     | Use Fusion Compositions in Cut/Edit            |  |
|     | Tabs   |  |
|     | Mac, Windows & Linux Compatible                |  |
| 7   | MANIEDOETO MIZZONIDO CANTO                     |  |
| /   | MANFROTTO MK190XPRO4-3W                        |  |
|     | TRIPOD WITH XPRO 3-WAY                         |  |
|     | HEAD   |  |
| - 1 | 000 0 0 1                                      |  |
|     | 90° Centre Column                              |  |
|     | Quick Power Locks 4 Aluminium Leg Sections     |  |
|     | Maximum height extended: 173cm                 |  |
|     | Maximum height: 148cm                          |  |
|     | Minimum height: 8cm                            |  |
|     | Closed length: 62cm                            |  |
|     | Weight: 3.1kg                                  |  |
|     | Safety payload: 6kg                            |  |
| 8   | CANON SPEEDLITE                                |  |
|     | TRANSMITTER ST-E3-RT                           |  |
|     |  |  |
|     | FLASH MODES                                    |  |
|     |  |  |
|     | Auto Exposure Control: E-TTL II /              |  |
|     | E-TTL  |  |
|     | High Speed Sync (FP): Yes                      |  |
|     | Manual / Output Settings: Yes -                |  |
|     | 1/1- 1/128                                     |  |
|     | Manual Steps: 1/3 step                         |  |
|     | Mianuai Steps: 1/3 Step                        |  |

| 1  | Strobe / Output Settings: Yes - 1/4-                                 |  |
|----|--|--|
| 1  | 1/128  |  |
|    | Stroboscopic Frequency: 1-500Hz                                      |  |
|    | FLASH-RELATED FUNCTION   |  |
| 1  |  |  |
|    | FE Lock: Yes   |  |
|    | FE Memory: No  |  |
|    | Flash Exposure Compensation: Yes                                     |  |
|    | Flash Exposure Bracketing: Yes                                       |  |
|    | Second-Curtain Flash Sync: No  |  |
|    | Modelling Flash: Yes   |  |
|    | WINDS DOG TV 1 CT  |  |
|    | WIRELESS FLASH   |  |
|    | Transmitter: Yes   |  |
|    | Transmission Type: Radio   |  |
|    | Transmitter Range: Indoors: 30m;                                     |  |
|    | Outdoors: 30m  |  |
|    | Receiver: No   |  |
|    | Number of Groups: 5 - A,B,C,D or                                     |  |
|    | E  |  |
|    | Number of Channels: 15   |  |
|    | Remote Shutter Release: Yes  |  |
|    | AF ASSIST  |  |
|    | AF-Assist Beam: No   |  |
| 9  | LOWEPRO NOVA 180 AW II   |  |
|    | SHOULDER BAG   |  |
|    | Internal Dimensions: 25.5 x 15 x                                     |  |
|    | 19.5 cm  |  |
|    | External Dimensions: 29 x 23 x 24                                    |  |
|    | cm   |  |
|    | Weight: 0.67 kg  |  |
| 10 | LOWEPRO PROTACTIC BP 450   |  |
|    | AW II CAMERA AND LAPTOP  |  |
|    | BACKPACK (BLACK)   |  |
|    | ` '  |  |
|    | Features: Accessory Loops, Adjustable                                |  |
|    | Interior Dividers, Laptop Compartment                                |  |
|    | Carrying/Transport Options:  |  |
|    | Backpack Straps, Top Handle, Waist Belt Camera Support Strap: Tripod |  |
|    | COMPARTMENTS   |  |
|    | Laptop Compartment Screen Size:                                      |  |
|    | 15.0"  |  |
|    | EXTERIOR   |  |
|    | Exterior Dimensions: 36 x 22 x 52 cm                                 |  |
|    | Exterior Material: Nylon, Polyester                                  |  |
|    | Type of Closure: Zipper Water Positioners Brin Course                |  |
|    | Water Resistance: Rain Cover   |  |

| 1   |   |   |  |
|-----|---|---|--|
| ll  | INTERIOR  |   |  |
|     | Interior Dimensions: 30 x 16 x 44 cm                    |   |  |
|     | Maximum Volume: 24.98 L                                 |   |  |
|     | Weight: 2.7 kg  |   |  |
| 11  | SANDISK EXTREME PRO 128GB                               |   |  |
|     | CFEXPRESS MEMORY CARD                                   |   |  |
|     | TYPE B  |   |  |
|     | 128GB STORAGE CAPACITY                                  |   |  |
|     |   |   |  |
|     | Card Type: CFexpress                                    |   |  |
|     | Storage Capacity: 128 GB                                |   |  |
|     | Bus Type: PCI-Express 3.0                               |   |  |
|     | Data Transfer Read Speed:                               |   |  |
|     | 1700 MB/s Maximum (Burst)                               |   |  |
|     | Write Speed: 1200 MB/s Maximum                          |   |  |
|     | (Burst)   |   |  |
|     | Wireless Capability None                                |   |  |
| 12  | LEXAR CF EXPRESS PRO 256GB                              |   |  |
|     | TYPE B (1900MB/S) DIAMOND                               |   |  |
|     | SERIES  |   |  |
|     | G 17  |   |  |
|     | Card Type: CFexpress Type B                             |   |  |
|     | Storage Capacity: 256GB                                 |   |  |
|     | Bus Type: PCI-Express 3.0                               |   |  |
|     | Read Speed: Maximum: 1900 MB/s                          |   |  |
|     | Write Speed: Maximum: 1700 MB/s<br>Sustained: 1600 MB/s |   |  |
|     | Minimum: 400 MB/s                                       |   |  |
|     | Video Performance Guarantee:                            | 1 |  |
|     | VPG- 400  |   |  |
|     | Durability: Shockproof, Temperature                     |   |  |
|     | Extremes  |   |  |
|     | Operating Temperature: -10 to                           |   |  |
|     | 70°C  |   |  |
|     | Storage Temperature: -25 to 85°C                        |   |  |
|     | Wireless Capability: None                               |   |  |
| 13  | SANDISK EXTREME PRO                                     |   |  |
|     | CFEXPRESS TYPE B CARD                                   |   |  |
|     | READER  |   |  |
|     | N. 11. G. 15.   |   |  |
|     | Media Card Reader: 1 x CFexpress                        |   |  |
|     | Type B  | 1 |  |
|     | System Connection: USB Type-C                           |   |  |
|     | Male [USB 3.1 / 3.2 Gen 2 (10 Gb/s)]                    |   |  |
|     | Power Source: USB Bus Power                             |   |  |
|     | Dimensions (W x H x D): 6.3 x 2.36                      |   |  |
| 14  | x 10.64 cm  |   |  |
| - 1 | CANON DM-E1 DIRECTIONAL                                 |   |  |
|     | STEREO MICROPHONE                                       |   |  |

Product name: Directional Microphone DM-E1 Type: Back electret stereo condenser type stereo microphone Directivity: Sharp directivity (SHOTGUN: monaural) Single directivity (90°/120° stereo) Sensitivity: -42 dB (1 kHz, 0 dB=1 V/Pa) Frequency: 50-16000 Hz Output Impedance:  $550 \Omega$ Working Temperature Range: 32-104°F / 0-40°C Working Humidity: 85% or less Dimensions (W x H x D): Approx. 1.57 x 3.31 x 5.12 in. / 40.0 x 84.0 x 130.0mm Weight: Approx. 3.88 oz. / 110g (main body only) 15 **BOYA BY-BM3032 CAMERA-MOUNT SUPERCARDIOID** SHOTGUN MICROPHONE MICROPHONE Form Factor: Camera-Mount Sound Field: Mono Operating Principle: Line Gradient Capsule: Condenser Polar Pattern: Supercardioid Orientation: End Address Pad: -10 dB High-Pass Filter: 75 Hz 150 Hz Gain Adjustment: -10 dB Up to +20 dB On-Board Controls: Gain, High-Pass Filter, HF, On/Off Windscreen: Foam. Windsock/Windjammer (Included) **PERFORMANCE** Frequency Range: 20 Hz to 20 kHz Impedance: 200 Ohms Sensitivity: -30 dB (1 kHz) Signal-to-Noise Ratio: 85 dB CONNECTIVITY Output Connectors (Analog): 1 x 3.5 mm TRS (on Attached Cable) Headphone Connector: 1 x 3.5 mm

#### 16 BOYA BY-WM8 PRO-K2 UHF DUAL-CHANNEL WIRELESS LAVALIER SYSTEM

Oscillator type: PLL Synthesized

Control Oscillator

Carrier Frequency Range: 576.4 MHz-

599.9 MHz (Transmitter: A)

568.6 MHz-592.1 MHz (Transmitter: B)

Channels: 48

Frequency response: 40 Hz to 18 kHz

(+/-3dB)

Operation range: 100m (300')(without

obstacle)

Operating temperature: 14° F to 122°

F (-10 $\hat{a}$ ,, f to +50 $\hat{a}$ ,, f)

Storage temperature: 14° F to 131° F

 $(-10\hat{a}_{,,f} \text{ to } +55\hat{a}_{,f})$ 

#### TRANSMITTERϼŠ

**RF output power:**  $\leq$ 10 mW **Antenna:**  $1/4\lambda$  wire antenna

Spurious emission: 250 nW or less Audio input connector: 3.5mm mini

jack

Reference audio input level: -60 dBV

(MIC input, 0 dB attenuation)

Reference deviation: ±5 kHz (-60 dBV,

1 kHz input)

Input frequency range: 20 Hz-20 KHz

**Distortion:** 0.5% or less

Power supply: Two AA size batteries

**Operation time:** About 6 hours **Dimensions:** 208(H) × 67(W) ×

29(L)mm

Weight: 80g without batteries

#### RECEIVERϼŠ

Antenna: 1/4\(\lambda\) wire antenna

Audio input connector: 3.5mm mini

jack

Signal-to-noise ratio: 70 dB or more

Distortion: 0.5% or less

Headphone output level:  $30 \text{mW} (16 \Omega)$ 

Audio output level: -60 dBV

**Power supply:** Two AA size batteries **Operation time:** About 4 hours

**Dimensions:** 208(H)  $\times$  67(W)  $\times$ 

29(L)mm

Weight: 90g without batteries

|    | LAVALIER MICROPHONEϼŠ  |  |
|----|--|--|
|    | Transducer: Back electret Condenser Polar pattern: Omni-directional Frequency Range: 35Hz ~ 18 KHz Signal / Noise: 74dB SPL Sensitivity: -30dB +/-3dB / 0dB=1V/Pa, 1 kHz Connector: 3.5mm locking mini plug Length: 1.2m (4')  |  |
| 17 | SONY WH-1000XM5 NOISE-<br>CANCELING WIRELESS OVER-<br>EAR HEADPHONES (BLACK)   |  |
|    | HEADPHONE: Â Earpiece Design: Over-Ear (Circumaural), Closed-Back Earpiece Swivel: Yes Earpiece Connection / Wearing Style: Headband Foldable: No Driver Type: Dynamic Driver Size: 30 mm Magnet Type: Neodymium Impedance: 48 Ohms (Active) 16 Ohms (Passive) Active Noise Cancellation: Yes Controls/Microphone Location Controls: Earpiece (Side Unspecified) Microphone: Left Earpiece, Right Earpiece Full Remote OS Support: Not Specified by Manufacturer Sensors: Touch Â: Â |  |
|    | PERFORMANCE: Â Frequency Response: 20 Hz to 40 kHz (Wireless) 4 Hz to 40 kHz (Wired) Â: Â  |  |
|    | MICROPHONE: Â Number of Voice Mics: 4 Beamforming Support: Yes Noise Canceling: Yes Â: Â   |  |
|    | WIRELESS CONNECTIVITY: Â Supported Audio Codecs: AAC, LDAC, SBC  |  |

|    | Bluetooth Profiles: A2DP, AVRCP, HFP, HSP Bluetooth: 5.2 Wireless Range: 10 m (Bluetooth) Frequency: Bluetooth: 2.4 GHz (2.4 to 2.4835 GHz) Multipoint Support: Yes Maximum Paired Devices: 2 NFC: No Encryption: Proprietary Â: Â  WIRED CONNECTIVITY: Â Audio Connector to Source: 1 x 3.5 mm Right-Angled Audio Connector to Earpiece: 1 x 3.5 mm Cable Length 1 x 1.2 m (1/8"/3.5 mm) Â: Â |  |
|----|--|--|
| 18 | CANON TC-80N3 TIMER REMOTE RELEASE  Item Type: Wired Camera Connection: Canon 3-Pin (N3) Interval Timer/Programmable: Yes Live View: No Mobile App Compatible: No  |  |
| 19 | RODE SC10 RIGHT-ANGLE 3.5MM TRRS CABLE (32CM)  Connector 1: 1 x 3.5 mm TRRS Male Right Angle Connector 2: 1 x 3.5 mm TRRS Male Right Angle Cable Length: 32.1 cm Wire Gauge: Not Specified by Manufacturer Color: Black Weight: 15 g   |  |
| 20 | ELINCHROM ELC 125/500 DUAL STUDIO MONOLIGHT KIT  FLASH HEAD Maximum Power: 7 to 125 Ws Power Control: 5 Stops in 1/10-Stop Increments Guide Number: 45.4Â m at Flash Duration: t.5: 1/7750 Sec   |  |

| r  |  |     |  |
|----|--|-----|--|
|    | <b>Recycle Time:</b> 0.1 to 0.8 Sec (Full                            |     |  |
| 1  | Power)   |     |  |
| 1  | Color Temperature: 5600K   |     |  |
|    | Flash Ready Indicator: Audio,  |     |  |
| 1  | Visual   |     |  |
|    | Reflector: 16.00 cm Changeable                                       |     |  |
|    | Accessory Fitting Type: Elinchrom                                    |     |  |
|    | Umbrella Shaft   |     |  |
|    | MODELLING LIGHT  |     |  |
|    | Type: LED  |     |  |
|    | Wattage: 20 W  |     |  |
|    | Control Modes: Free Set, Full On,                                    |     |  |
|    | Proportional   |     |  |
|    |  |     |  |
|    | SYNC   |     |  |
|    | Sync Type: Cable, Optical, Radio                                     |     |  |
|    | Built-In Wireless Receiver: Yes                                      |     |  |
|    | Sync Speed: 1/8000 Sec (High-  |     |  |
|    | Speed)   |     |  |
|    | Wireless Frequency Bands: 2.4 GHz                                    |     |  |
|    |  |     |  |
|    | Wireless Range: 200 m (Radio) Interface: 3.5 mm PC Sync              |     |  |
|    | Sync Voltage: 5 V  |     |  |
|    | Sylle Voltages 5 V   |     |  |
|    | POWER  |     |  |
|    | AC Input Power: 100 to 240 VAC,                                      |     |  |
|    | 50 / 60 Hz   |     |  |
|    | Circuit Protection: Fuse   | 6 1 |  |
|    | GENERAL  |     |  |
|    | Display: OLED  |     |  |
|    | Mount: 16 mm Receptacle  |     |  |
|    | Auto Dump: Yes   |     |  |
|    | Fan Cooled: Yes  |     |  |
|    | <b>Dimensions:</b> H: 26.3 x W: 16.7 x L:                            |     |  |
|    | 23.0 cm  |     |  |
| 21 | Weight: 2 kg   |     |  |
| 41 | ZOOM H6 HANDY SOUND<br>RECORDER                                      |     |  |
|    | RECORDER   |     |  |
|    | RECORDER   |     |  |
|    | Recording Media: SD card: 16 MB to 2                                 |     |  |
|    | GB   |     |  |
|    | SDHC card: 4 GB to 32 GB   |     |  |
|    | SDXC card: 64 GB to 128 GB   |     |  |
|    | Input Connections: 4 x XLR/TRS combo jacks; XLR: Pin 2 hot; TRS: Tip |     |  |
|    | hot  |     |  |
|    |  |     |  |

1x 1/8" stereo mini jack (XYH-6 MIC/LINE IN) **Input Gain:** -∞ to 55.5 dB (PAD OFF) -∞ to 35.5 dB (PAD ON) Input Level: -∞ to 46.5 dB (XYH-6 MIC/LINE IN) Input Impedance:  $6.8 \text{ k}\Omega$  (INPUTS 1 to  $2 k\Omega (XYH-6 MIC/LINE IN)$ Maximum Input Level: +22 dBu, PAD ON (INPUTS 1 to 4) Phantom Power +12V /+24V /+48V, independent (INPUTS 1 to 4) 2.5V plug-in power, (XYH-6 MIC/LINE Equivalent Input Noise: -120 dBu or less Output Connections: 1x 1/8" stereo mini jack (LINE OUT) 1x 1/8" stereo mini jack (PHONE OUT) Output Level: -10 dBu when output load impedance is  $10 \text{ k}\Omega$  or more (LINE OUT) 20 W +20 W into 32  $\Omega$  load (PHONE OUT) Built-in Speaker: 400mw 8 Ω mono speaker **Recording Formats: WAV, MP3 Sample Rate:** 44.1/48/96 kHz (WAV) 44.1 kHz (MP3) **Bit Depth:** 16, 24 (WAV) Bit Rate: 48/56/64/80/96/112/128/160/192/224/25 6/320 kbps (MP3) Max Simultaneous Recording: 8 (L/R + INPUT 1 to 4 + L/R backup), backup recording: -12dB lower than set L/R input gain (WAV) -or-2 (MP3) Recording to SD Card With 2 GB card: 03:08:00 (44.1 kHz / 16-bit WAV) 34:43:00 (128 kbps MP3) Display 2.0-inch full color LCD (320 x 240 pixels) **USB Port:** Mass Storage Class operation: USB 2.0 high speed Audio Interface operation, multi-track USB 2.0 high speed, multi-track or stereo Power Requirements: AA size (LR6) battery x 4

AC adapter: AD-17 (DC5V/1A/USBtype) (optional) USB bus power Battery Life: Over 20 hours (with alkaline battery, continuous recording) **Dimensions:** 3 x 6 x 1.9" (77.8 x 152.8 x 47.8 mm) Weight: 9.9 oz (280 g) MICROPHONE Type: XYH-6 X/Y: Unidirectional MSH-6 MS: Unidirectional and bidirectional Sensitivity: XYH-6 X/Y: -41 dB, 1 kHz at 1 Pa MSH-6 MS: -37 dB, 1 kHz at 1 Pa (unidirectional); -39 dB, 1 kHz at 1 Pa (bi-directional) **Input Gain:** XYH-6 X/Y:  $-\infty$  to 46.5 dBMSH-6 MS: -∞ to 42.5 dB Maximum SPLXYH-6 X/Y: 136 dB SPL MSH-6 MS: 120 dB SPL (unidirectional) 122 dB SPL (bi-directional) **Dimensions** XYH-6 X/Y: 3.1 x 2.4 x 1.8" (78.9 x 60.2 x 45.2 mm) MSH-6 MS: 2.3 x 2.66 x 1.65" (58 x 67.6 x 42.1 mm) Weight XYH-6 X/Y: 4.6 oz (130 g) **MSH-6:** 3 oz (85 g) 22 DJI MAVIC 3 PRO CINE DRONE **PERFORMANCE** Maximum Takeoff Weight: 958 g **Maximum Horizontal Speed: 21** Maximum Ascent Speed: 8 m/s Maximum Descent Speed: 6 m/s Maximum Wind Resistance: 12 m/s Flight Ceiling: 6000 m Maximum Flight Time: 43 Minutes **Maximum Hover Time: 37 Minutes** Maximum Tilt Angle: 35° Hovering Accuracy: Vision **Positioning** Vertical: ±00.1 m **Horizontal:**  $\pm 0.3$  m **GNSS** Vertical: ±0.5 m Horizontal: ±0.5 m

**CAMERA** 

Image Sensor: 4/3"-Type CMOS Sensor Resolution: Effective: 20

Megapixel (5280 x 3956) Focal Length: 24mm (35mm

Equivalent)

Field of View: 84°

Maximum Aperture: f/2.8 Minimum Aperture: f/11 Minimum Focus Distance: 1 m ISO Sensitivity: Video 100 to 12,800 Shutter Speed: 1/8000 to 8 Seconds Video Format: 5120 x 2700p at 24/25/30/48/50 fps (MOV/MP4 via H.264/AVC, H.265/HEVC, MPEG-4) Still Image Support: DNG / JPEG

20 MP (5280 x 3956) Internal Storage: 1 TB

Media/Memory Card Slot: Single

Slot:

microSD/microSDHC/microSDXC

[512 GB Maximum]

Photo Modes: Auto-Exposure Bracketing (AEB), Burst Shooting,

Interval, Single Shot

#### **SECOND CAMERA**

Telephoto Lens: Image Sensor:

1/1.3" CMOS

**Effective Pixels: 48 MP** 

**FOV:** 35°

Format Equivalent: 70 mm

Aperture: f/2.8 Minimum Focus: 3 m

Shutter Speed: 1/8000 to 2 Seconds Maximum Image Size: 8064 x 6048 Supported File System: exFAT

**Digital Zoom:** 3 to 7x (Normal Video

Mode & Explore Mode)

**ISO Range** (Video, Normal and Slow Motion): 100-6400 (Normal), 400-1600 (D-Log), 100-1600 (D-Log

M), and 100-1600 (HLG) (Night): 800-12,800 (Normal)

(Photo): 100-6400

Still Image: (Single Shot): 12 MP or

48 MP

(Burst Shooting): 12 MP or 48 MP, 3/5/7 Frames (Automatic Exposure Bracketing): 12 MP or 48 MP, 3/5 Frames at 0.7 EV Step (Timed, 12 MP): 2, 3, 5, 7, 10, 15, 20, 30, 60 Seconds (Timed, 48 MP): 7, 10, 15, 20, 30, 60 Seconds Photo Format: JPEG, DNG (RAW) Video Resolution: Apple ProRes 422 HQ, 422, and 422 LT (4K): 3840 × 2160 at 24, 25, 30, 48, 50, 60 FPS, H.264/H.265 (4K): 3840 × 2160 at 24, 25, 30, 48, 50, 60 FPS (FHD): 1920 × 1080 at 24, 25, 30, 48, 50, 60 FPS Video Format: MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265), MOV (Apple ProRes 422 HQ/422/422 LT) Video Bitrate Max (H.264/H.265): 200 Mb/s Max (Apple ProRes 422 HQ): 3772 Mb/s Max (Apple ProRes 422): 2514 Mb/s Max (Apple ProRes 422 LT): 1750 Mb/s COLOR MODES Normal: 10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT) Normal: 8-bit 4:2:0 (H.264/H.265) HLG/D-Log M: 10-bit 4:2:2 (Apple ProRes 422 HQ/422/422 LT) HLG/D-Log M: 10-bit 4:2:0 (H.265) THIRD CAMERA **Telephoto Lens:** Image Sensor: 1/2" **CMOS Effective Pixels: 12 MP FOV: 15°** Format Equivalent: 166 mm Aperture: f/3.4 Minimum Focus: 3 m Shutter Speed: 1/8000 to 2 Seconds Maximum Image Size: 4000 x 3000 Supported File System: exFAT Digital Zoom: 7 to 28x (Normal Video Mode & Explore Mode) ISO Range: (Video, Normal and Slow Motion): 100-6400 (Normal),

400-1600 (D-Log), 100-1600 (D-Log

M), and 100-1600 (HLG) (Night): 800-12,800 (Normal)

(Photo): 100-6400

**Still Image:** (Single Shot): 12 MP (**Burst Shooting**): 12 MP, 3/5/7

Frames

(Automatic Exposure Bracketing): 12 MP, 3/5 Frames at 0.7 EV Step (Timed, 12 MP): 2, 3, 5, 7, 10, 15, 20,

30, 60 Seconds

Photo Format: JPEG, DNG (RAW) **Video Resolution:** Apple ProRes 422

HQ, 422, and 422 LT

(4K): 3840 × 2160 at 24, 25, 30, 48,

50, 60 FPS, H.264/H.265

(4K): 3840 × 2160 at 24, 25, 30, 50,

60 FPS

(FHD):  $1920 \times 1080$  at 24, 25, 30, 50,

60 FPS

Video Format: MP4/MOV (MPEG-4 AVC/H.264, HEVC/H.265), MOV (Apple ProRes 422 HQ/422/422 LT) Video Bitrate Max (H.264/H.265): 200 Mb/s

Max (Apple ProRes 422 HQ): 3772

Mb/s
Max (Apple ProRes 422): 2514 Mb/s
Max (Apple ProRes 422 LT): 1750

Mb/s

#### **COLOUR MODES**

Normal: 10-bit 4:2:2 (Apple ProRes

422 HQ/422/422 LT)

**Normal:** 8-bit 4:2:0 (H.264/H.265)

#### **GIMBAL**

Number of Axes: 3-Axis (Pitch

(Tilt), Roll, Yaw (Pan))

Rotation Range: Mechanical Range Pitch (Tilt): 190° (-140 to 50°)

**Roll:** 100° (-50 to 50°) **Yaw (Pan):** 46° (-23 to 23°)

#### **CONTROLLABLE RANGE**

Pitch (Tilt): 125° (-90 to 35°) Yaw (Pan): 10° (-5 to 5°) Follow Speed: 100°/s

#### FLIGHT CONTROL SYSTEM

GNSS Support: GPS, BeiDou,

Galileo

Vision/Sensing System

Vision System: Downward / Upward / Forward / Backward / Left / Right

#### VISION SYSTEM CAPABILITIES

Forward:

Measurement Range: 0.5 to 20 m Detection Range: 0.5 to 200 m

Max Speed: 15 m/s

Field of View: 90° (Horizontal) /

103° (Vertical) Backward:

Measurement Range: 0.5 to 16 m Max Speed: 26.8 mph / 12 m/s Field of View: 90° (Horizontal) /

103° (Vertical)

Lateral:

Measurement Range: 0.5 to 25 m

Max Speed: 15 m/s

Field of View: 90° (Horizontal) / 85°

(Vertical) Upward:

Measurement Range: 0.2 to 10 m

Max Speed: 6 m/s

Field of View: 100° (Vertical) / 90°

(Horizontal) Downward:

Measurement Range: 0.3 to 18 m

Max Speed: 6 m/s

Field of View: 130° (Vertical) / 160°

(Horizontal)

**Operating Environment:** Surface with Clear Patterns at >15 lux

**Required Object Reflectivity:** >20%

# REMOTE CONTROLLER / TRANSMITTER

**Operating Frequency: 2.4 GHz** 

(2.400 to 2.4835)

5.8 GHz (5.725 to 5.850)

**Maximum Operating Distance: 15** 

km

Transmitter Power: 33 dBm (2.4/5.8

G

#### **FLIGHT BATTERY**

|    | Battery Chemistry: Lithium-Ion             |   |   |
|----|--|---|---|
|    | Battery Capacity: 5000 mAh / 77            |   |   |
|    | Wh   |   |   |
|    | <b>Battery Configuration:</b> 4 S / 17.6 V |   |   |
|    | Charging Temperature: 41 to 104°F          |   |   |
|    | /5 to 40°C                                 |   |   |
|    | <b>Weight:</b> 0.7 lb / 335.5 g            |   |   |
|    | Weight: 0.7 107 333.3 g                    |   |   |
|    |  |   |   |
|    | Charger                                    |   |   |
| 1  | AC Input Power: 100 to 240 VAC,            |   |   |
|    | 50 / 60 Hz at 2.5 A                        |   |   |
|    | Power Rating: 100 W                        |   |   |
|    |  |   |   |
|    | GENERAL                                    |   |   |
|    | <b>Rotor Configuration: 4</b>              |   |   |
|    | Operating Temperature: -10.0 to            |   |   |
|    | 40.0°C                                     |   |   |
| 1  | Overall Dimensions: 98.0 x 95.4 x          |   |   |
|    |  |   |   |
|    | 231.1 mm (Folded)                          |   |   |
|    | 290.8 x 107.7 x 347.5 mm (Unfolded)        |   |   |
|    | Weight: 958 g                              |   |   |
|    |  |   |   |
| 23 | LOWEPRO DRONEGUARD BP                      |   |   |
|    | 250 BACKPACK FOR DJI                       |   |   |
|    | MAVIC PRO                                  |   |   |
|    |  |   |   |
|    | Size:                                      |   |   |
|    | <i>Interior</i> : 26 x 11 x 24cm           |   |   |
|    | <i>Exterior</i> : 29 x 17 x 47cm           |   |   |
|    |  |   |   |
|    | Top compartment: 26 x 9 x 20cm             |   |   |
|    | Weight: 1.34kg                             |   |   |
| 24 | SANDISK 256GB EXTREME PRO                  |   |   |
| 24 | 200MB/S UHS-I MICROSDXC                    |   |   |
|    | MEMORY CARD                                |   |   |
|    | MENORI CARD                                |   |   |
|    |  | ( |   |
|    | Form Factor: microSDXC                     |   |   |
|    |  |   |   |
|    | Available Capabilities: 256GB              |   |   |
|    | Performance/Speed: Up to 200MB/s           |   |   |
|    | Read and Up to 140MB/s Write               |   |   |
|    | Speeds                                     |   |   |
|    | Operation Temperatures: -25°C              |   | 1 |
|    | to 85°C                                    |   |   |
|    | Storage Temperatures: -40°C to             |   |   |
|    | 85°C                                       |   |   |
| 25 | LEXAR 256GB FLY MICROSDXC                  |   |   |
|    | UHS-I CARD 160MB/S                         |   |   |
|    |  |   |   |

| 6  |                                       |  |
|----|---------------------------------------|--|
| 1  | Performance: 256G - Up To             |  |
| -  | 160MB/s Read + Up To 90MB/s           |  |
| 1  | Write Speed                           |  |
| 1  | Operating Temperature: 0°C~           |  |
|    | 70°C                                  |  |
| 1  | 1                                     |  |
|    | Storage Temperature: -25â,,f -        |  |
|    | 85â,, <i>f</i>                        |  |
|    | <b>Dimensions:</b> 11mm x 15mm x 1 mm |  |
| 1  | Speed Class: Class10, U3, V30, A2     |  |
|    | Special Classic, US, VSO, AZ          |  |
| 26 | RODE SC10 RIGHT-ANGLE                 |  |
| 20 |                                       |  |
|    | 3.5MM TRRS CABLE (32CM)               |  |
| 1  |                                       |  |
|    | Connector 1: 1 x 3.5 mm TRRS          |  |
|    | Male Right Angle                      |  |
|    | Connector 2: 1 x 3.5 mm TRRS          |  |
|    | Male Right Angle                      |  |
|    | Cable Length:32.1 cm                  |  |
| ł  |                                       |  |
|    | Wire Gauge: Not Specified by          |  |
|    | Manufacturer                          |  |
|    | Color: Black                          |  |
|    | Weight: 15 g                          |  |
|    |                                       |  |
| 27 | CANON LP-E19 BATTERY                  |  |
|    | PACK                                  |  |
| 28 | CANON LC-E19 BATTERY                  |  |
| 20 | CHARGER                               |  |
| -  |                                       |  |
| 29 | SANDISK PROFESSIONAL G-RAID           |  |
|    | 2 24TB 2-BAY RAID ARRAY (2 X          |  |
|    | 12TB, THUNDERBOLT 3 / USB 3.2         |  |
|    | GEN 1)                                |  |
|    |                                       |  |
|    | General: Â                            |  |
|    | Number of Bays: 2 x 3.5"              |  |
|    | Connections: 2 x USB Type-C           |  |
|    | (Thunderbolt 3 (40 Gb/s))             |  |
|    | 1 x USB Type-C (USB 3.1 / USB 3.2     |  |
|    |                                       |  |
|    | Gen 2 (10 Gb/s))                      |  |
|    | Compatible Drive Interface: SATA      |  |
|    | III                                   |  |
|    | Form Factor: Desktop                  |  |
|    | RAID Modes: RAID 0, 1, JBOD           |  |
|    | Operating System Support:             |  |
|    | Windows, macOS/OS X                   |  |
|    | OS Compatibility:                     |  |
|    |                                       |  |
|    | Mac: OS 10.12 or Later                |  |
|    | Windows: 10 or Later                  |  |
|    | Â: Â                                  |  |
|    | Drives: Â                             |  |
|    |                                       |  |

| Total Raw Capacity: 24 TB (2 x 12 TB)  |  |
|--|--|
| Rotational Speed: 7200 rpm Interface: SATA III Â: Â Electrical: Â Cooling: 1 x Fan Dimensions: (W x H x D) 30.3 x 17.3 x 22.6 cm Â: Â Â: Â |  |

[Bidders should complete columns C and D with the specification of the goods offered. Also state "comply" or "not comply" and give details of any non-compliance/deviation to the specification required. Attach detailed technical literature if required. Authorise the specification offered in the signature block below.]

## Specifications and Compliance Sheet Authorised By:

| Name:                            | Signature: |  |
|----------------------------------|------------|--|
| Position:                        | Date:      |  |
| Authorised for and on behalf of: | Company    |  |

<sup>\*</sup> Columns A and B to be completed by Public Entity.

#### SCHEDULE 3

## **QUOTATION CHECKLIST SCHEDULE**

Procurement Reference No.: G/RFQ/KERC/101/47/2023/2024

| Description   | Attached | Not<br>Attached |
|---|----------|-----------------|
| Quotation Letter  |          |                 |
| List of Goods and Price Schedule                            |          |                 |
| Specification and Compliance Sheet                          |          |                 |
| Client Satisfactory Certificates                            |          |                 |
| Signed Bid Securing Declaration                             |          |                 |
| Company Registration Certificate/Founding Statement         |          |                 |
| Original or certified copy of good Standing Tax Certificate |          |                 |
| Original or copy good standing Social Security Certificate  |          |                 |
| Local Distributor letter for the equipment supplied         |          |                 |

**Disclaimer:** The list defined above is meant to assist the Bidder in submitting the relevant documents and shall not be a ground for the bidder to justify its non-submission of major documents for its quotation to be responsive. The onus remains on the Bidder to ascertain that it has submitted all the documents that have been requested and are needed for its submission to be complete and responsive.