

PURCHASE CONTRACT

This purchase contract ("Contract") was concluded pursuant to section 2079 et seq. of the act no. 89/2012 Coll., Civil Code ("Civil Code"), on the day, month and year stated below by and between:

Institute of Atmospheric Physics of the Academy of Sciences of the Czech Republic

Registered office: Boční II 1401, 141 31 Praha 4
Company identification No: 68378289
Tax identification No.: CZ68378289
Represented by: doc. RNDr. Zbyněk Sokol, CSc., director
Bank details: Komerční banka a.s., Praha 1 (SWIFT/BIC: kombczppxxx)
Bank account No.: 19-9208360217/0100 (IBAN: CZ8901000000199208360217
on the one side as the buyer ("Buyer")

and

Beatronic Supply s. r. o.

Registered office: Výstaviště 1, 648 37 Brno, Czech Republic
Company identification No: 634889074
Tax identification No.: CZ634889074
Represented by: Bent Gothenborg
Registered in: Krajský soud v Brně oddíl C, vložka 21628
Bank details: Československá obchodní banka a. s.
Bank account No.: 372621553/0300
on the other side as the seller ("Seller")

(The Buyer and the Seller are hereinafter jointly referred to as "Parties" and individually as "Party").

WHEREAS

- (A) The Buyer is a public contracting authority.
- (B) For the successful realization of the Project it is necessary to purchase the Object of Purchase (as defined below) in accordance with the act no. 137/2006 Coll., on public procurement.
- (C) The Seller wishes to provide the Object of Purchase to the Buyer for consideration
- (D) The Seller's bid for the public procurement entitled "**DIGITAL HIGH-SPEED CAMERA FOR MEASUREMENTS OF DYNAMIC PHENOMENA IN THE ATMOSPHERE**", which was published in the Journal of Public Procurement under the registration number 513574 and whose purpose was to procure the Object of Purchase ("**Public Procurement**"), was selected by the Buyer as the most suitable.

IT WAS AGREED AS FOLLOWS:

I. BASIC PROVISIONS

- 1.1 Under this Contract the Seller shall hand over to the Buyer a **Digital high-speed camera for measurements of dynamic phenomena in the atmosphere**, which shall meet requirements

listed in Annex 1 (*Technical Specification*) to this Contract ("Object of Purchase") and shall transfer to the Buyer ownership right to the Object of Purchase, and the Buyer shall take over the Object of Purchase and shall pay the Seller the Purchase Price (as defined below), all under the terms and conditions stipulated in this Contract.

- 1.2 Under this Contract the Seller shall also carry out following activities ("Related Activities"):
- a) to transport the Object of Purchase to the place of delivery;
 - b) to verify that the Object of Purchase meets all requirements stipulated in this Contract and adjust the Object of Purchase in the place of delivery, if necessary;
 - c) to elaborate and hand over to the Buyer operational, installation and maintenance manuals of the Object of Purchase and other documents that are necessary for the proper takeover and use of the Object of Purchase in English language in electronic form in the extent specified in Annex 1 (*Technical Specification*);
 - d) to handover the declaration of conformity of the Object of Purchase with the approved standards, if there are any;
 - e) to elaborate a list of particular items of the Object of Purchase for the purposes of control.
- 1.3 The Seller promises to the Buyer that if for the fulfillment of the requirements of the Buyer under this Contract or the proper operation of the Object of Purchase are necessary other deliveries and activities not mentioned in this Contract, the Seller shall procure such deliveries or shall carry out such activities at its own expense without any effect on the Purchase Price.

II. TIME AND PLACE OF DELIVERY

- 2.1. The Seller shall deliver the Object of Purchase and shall carry out Related Activities within twelve (12) weeks from the effectiveness of this Contract.
- 2.2. The place of delivery is the following address: Institute Atmospheric Physics, Boční II 1401, Praha 4, Czech Republic.

III. THE OWNERSHIP RIGHT

- 3.1 The ownership right to the Object of Purchase shall be transferred to the Buyer upon the signature of the Handover Protocol (as defined below) by both Parties.

IV. PRICE AND PAYMENT TERMS

- 4.1. The purchase price for the Object of Purchase is 103.500,- USD without value added tax ("VAT"), and with the VAT rate 21 % (if applicable in this case) is 125.235,- USD ("Purchase Price").
- 4.2. The Purchase Price cannot be exceeded and includes all costs and expenses of the Seller related to the performance of this Contract. The Purchase Price includes, among others, all expenses related to the handover of the Object of Purchase and execution of Related Activities, costs of copyright, insurance, warranty service and any other costs and expenses connected with the performance of this Contract.
- 4.3. The Purchase Price may be changed only if:

- a) in the period between the conclusion of this Contract and the signature of the Handover Protocol the rates of VAT are changed (in such a case the new price for the Object of Purchase shall only reflect the new rate of VAT) or if
 - b) the change is done in accordance with the act no. 137/2006 Coll., on public procurement.
- 4.4. The Purchase Price for the Object of Purchase shall be paid in USD on the basis of a tax documents – invoices, to the account of the Seller designated in the invoice.
- 4.5. The Buyer shall realize payments on the basis of duly issued invoices within 15 days from their receipt. The invoice shall be considered to be paid for on the day when the invoiced amount is deducted from the Buyer's account on behalf of the Seller's account.
- 4.6. The invoice issued by the Seller as a tax document must contain all information required by the applicable laws of the Czech Republic. Invoices issued by the Seller in accordance with this Contract shall contain in particular following information:
- a) name and registered office of the Buyer,
 - b) tax identification number of the Buyer,
 - c) name and registered office of the Seller,
 - d) tax identification number of the Seller,
 - e) registration number of the tax document,
 - f) scope of the performance (including the reference to this Contract),
 - g) the date of the issue of the tax document,
 - h) the date of the fulfilment of the Contract,
 - i) Purchase Price,
- and must comply with the double tax avoidance agreements, if applicable.
- 4.7. In case that the invoice shall not contain the above mentioned information, the Buyer is entitled to return it to the Seller during its maturity period and this shall not be considered as a default. The new maturity period shall begin from the receipt of the supplemented or corrected invoice to the Buyer.

V. SELLER'S DUTIES

- 5.1. The Seller shall ensure that the Object of Purchase and Related Activities are in compliance with this Contract including all its annexes and applicable legal (e.g. safety), technical and quality norms.
- 5.2. During the performance of this Contract the Seller proceeds independently. If the Seller receives instructions from the Buyer, the Seller shall follow such instructions unless these are against the law or in contradiction to this Contract. If the Seller finds out or should have found out if professional care was exercised that the instructions are for any reason inappropriate or illegal or in contradiction to this Contract, then the Seller must notify the Buyer.
- 5.3. All things necessary for the performance of this Contract shall procure the Seller, unless this Contract stipulates otherwise.
- 5.4. The Seller is aware that the Buyer does not have at its disposal premises for the storage of packaging and, therefore, shall not store packaging of the Object of Purchase. The absence of

original packaging cannot be an excuse for refusal of elimination of defects of the Object of Purchase.

**VI.
HANDOVER OF THE OBJECT OF PURCHASE**

- 6.1 Related Activities must be performed in the presence of representative of both Parties prior to the handover and takeover of the Object of Purchase.
- 6.2 Handover and takeover of the Object of Purchase shall be realized on the basis of a handover protocol, which shall contain following information ("Handover Protocol"):
- a) identification of the Seller, Buyer and subcontractors, if there are any,
 - b) declaration of the Seller and Buyer that all Related Activities were carried out,
 - c) description of the Object of Purchase, and
 - d) date of the signature.
- 6.3 If the Seller does not hand over to the Buyer all above mentioned documents or if the Seller fails to duly carry out all Related Activities or if the Object of Purchase does not meet requirements of this Contract, the Buyer is entitled to refuse the takeover of the Object of Purchase. In such a case the Seller shall remedy the deficiencies within ten (10) working days, unless Parties agree otherwise. The Buyer is entitled (but not obliged) takeover the Object of Purchase despite the above mentioned deficiencies, in particular if such deficiencies do not prevent the Buyer in the proper operation of the Object of Purchase. In such a case the Seller and the Buyer shall list the deficiencies in the Handover Protocol, including the manner and the date of their removal (remedy). If the Parties do not reach agreement in the Handover Protocol regarding the date of the removal, the Seller shall remove the deficiencies within ten (10) working days.
- 6.4 In case that the Seller notifies the Buyer that the Object of Purchase is eligible for handover and takeover and during the course of the handover procedure it will be ascertained that the conditions under this Contract for the signature of the Handover Protocol are not fulfilled and based on this reason the Buyer will refuse to sign the Handover Protocol, then the Seller shall reimburse the Buyer for all costs that were incurred by the Buyer due to unsuccessful handover.
- 6.5 Parties exclude the application of the Section 2126 of the Civil Code.

**VII.
WARRANTY**

- 7.1 The Seller shall provide a warranty of quality of the Object of Purchase for the period of 24 months. If on the warranty list or other document is the warranty period of longer duration, then this longer warranty period shall have priority over the period stated in this Contract.
- 7.2 The warranty period shall begin on the day of the signature of the Handover Protocol by both Parties. If the Handover Protocol lists any deficiencies, the warranty period shall begin on the day, which follows the day, in which the last deficiency was removed.
- 7.3 The Seller shall remove defects that occur during the warranty period free of charge and in the terms stipulated in this Contract.

- 7.4 If the Buyer ascertains a defect of the Object of Purchase during the warranty period, the Buyer shall notify such defect without undue delay to the Seller. Defects may be notified on the last day of warranty period, at the latest.
- 7.5 The Buyer notifies defects in writing via e-mail. The Seller shall accept notifications of defects on the following e-mail address: sale-cz@beatronic.cz. The Seller shall confirm within 96 hours from the receipt of the notification.
- 7.6 In the notification the Buyer shall describe the defect and the manner of removal of the defect. The Buyer has the right to:
- a) ask for the removal of the defect by the delivery of a new Object of Purchase or its individual parts, or
 - b) ask for the removal of the defect by repair, or
 - c) ask for the reasonable reduction of the Purchase Price.
- The choice among the above mentioned rights belongs to the Buyer. The Buyer is also entitled to withdraw from this Contract, if by delivering the Object of Purchase with defects this Contract is substantially breached.
- 7.7 The Seller shall remove the defect within 14 days from its notification, unless Parties agree otherwise.
- 7.8 The Seller shall remove the defect within terms stipulated in this Contract even if the notification of the defect is in his opinion unjustified. In such a case the Seller is entitled to ask for reimbursement of the costs of removal of the defect. If Parties disagree on whether the notification of the defect is justified or not, the Buyer shall ask an expert for the expert's opinion, which shall determine whether the notification of the defect was justified or not. In the case that the expert consider the notification as justified, then the Seller shall bear costs of the expert's opinion. If the expert considers the notification to be unjustified, then the Buyer shall reimburse the Seller for verifiably and effectively incurred costs of removal of the defect.
- 7.9 Parties shall execute a protocol on the removal of the defect, which shall contain the description of the defect and the confirmation that the defect was removed. The warranty period shall be extended by a period of time that elapses between the notification of the defect until its removal.
- 7.10 In case that the Seller does not remove the defect within stipulated time or if the Seller refuses to remove the defect, then the Buyer is entitled to remove the defect at his own costs and the Seller shall reimburse these costs within 10 days after the Buyer's request to do so.
- 7.11 The warranty does not cover defects caused by unprofessional manipulation or by the failure to follow Seller's instructions for the operation and maintenance of the Object of Purchase.
- 7.12 Parties exclude the application of Section 1925 of the Civil Code.

VIII.

REPRESENTATIONS AND WARRANTIES OF THE SELLER

- 8.1 The Seller represents and warrants to the Buyer that
- a) has all the professional prerequisites necessary for the proper fulfilment of this Contract,



- b) is fully authorized to perform this Contract, and
- c) there are no obstacles on the Seller's side that would preclude him from the due performance of this Contract.

**IX.
PENALTIES**

- 9.1 If the Seller is in default regarding the delivery of the Object of Purchase, i.e. the Seller breaches its duty to perform this Contract in time and due manner, the Seller shall pay to the Buyer a contractual penalty in the amount of 0,1% of the Purchase Price for every (even commenced) day of default.
- 9.2 If the Seller is in delay with the removal of the defect, the Seller shall pay to the Buyer a contractual penalty in the amount of 0,05% of the Purchase Price for every (even commenced) day of default.
- 9.3 The Seller shall pay contractual penalties within fifteen (15) days from the day, on which the Buyer enumerated its claims. The payment of contractual penalties shall not affect the right of the Buyer to damages even to the extent to which such damages exceeds the contractual penalty.
- 9.4 Total amount of contractual penalties that the Buyer is entitled to claim shall not exceed 30 % of the Purchase Price.
- 9.5 The Buyer is entitled to unilaterally set off claims arising from the contractual penalties against the claim of the Seller for the payment of the Purchase Price.
- 9.6 Parties exclude the Section 2050 of the Civil Code.

**X.
RIGHT OF WITHDRAWAL**

- 10.1 The Buyer is entitled to withdraw from this Contract without any penalties, if any of the following circumstances occur:
 - a) the Seller shall be in delay with the fulfilment of this Contract and such delay lasts more than two (2) months;
 - b) the Object of Purchase shall not fulfil the requirements stipulated in this Contract, in particular in Annex 1 (Technical Specification);
 - c) the insolvency proceeding is initiated against the Seller; or
 - d) the Buyer ascertains that the Seller provided in its bid for the Public Procurement information or documents that do not correspond to the reality and that had or could have had impact on the result of the tendering procedure, which preceded the conclusion of this Contract.

**XI.
CONFIDENTIALITY**

- 11.1 Parties shall not disclose information that shall become available to them in connection with this Contract and its performance and whose disclosure could harm the other Party. Duties of the Buyer ensuing from the applicable legal regulations remain unaffected.

**XII.
REPRESENTATIVES OF THE PARTIES**

12.1 The Seller appoints following representatives for the communication with the Buyer:

In technical matters:

Name: Michal Boháč

E-mail: bohac@beatronic.com

Tel.: +420 777 751 170

In contractual matters:

Name: Michal Boháč

E-mail: bohac@beatronic.com

Tel.: +420 777 751 170

12.2 The Buyer appoints following representatives for the communication with the Seller:

In technical matters:

Name: Ondřej Santolík

E-mail: os@ufa.cas.cz

Name: Radek Lán

E-mail: rl@ufa.cas.cz

In contractual matters:

Name: Marta Arazimová

E-mail: m.arazimova@ufa.cas.cz

**XIII.
FINAL PROVISIONS**

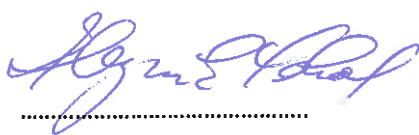
- 13.1** This Contract is governed by the laws of the Czech Republic, especially by the Civil Code.
- 13.2** All disputes arising out of this Contract or out of legal relations connected with this Contract shall be preferable settled by a mutual negotiation. In case that the dispute is not settled within sixty (60) days, such dispute shall be decided by courts of the Czech Republic in the procedure initiated by one of the Parties.
- 13.3** The Seller bears the risk of changed circumstances within the meaning of Section 1765 of the Civil Code.
- 13.4** The Seller takes into account that the Buyer is not in relation to this Contract an entrepreneur, nor the subject matter of this Contract is connected with the business activities of the Buyer.
- 13.5** The Seller is not entitled to set off any of its claims or his debtor's claims against the Buyer's claims. The Seller is not entitled to transfer its claims against Buyer that arose on the basis or in connection with this Contract on third parties. The Seller is not entitled to transfer rights and duties from this Contract or its part on third parties.
- 13.6** All modifications and supplements of this Contract must be in writing.
- 13.7** If any of provisions of this Contract are invalid or ineffective, the Parties are bound to change this Contract in such a way that the invalid or ineffective provision is replaced by a new provision that is valid and effective and to the maximum possible extent correspond to the original invalid or ineffective provision.
- 13.8** If any Party breaches any duty under this Contract and knows or should have known about such breach, it shall notify it to the other Party and shall warn such Party of possible consequences of the breach.



- 13.9 This Contract is executed in four (4) counterparts and every Party shall receive two (2) counterparts.
- 13.10 An integral part of this Contract is Annex 1 (Technical Specification). In case of any discrepancy between the provisions of this Contract and the provisions of Annex 1 (Technical Specification) the provisions of this Contract shall prevail.
- 13.11 This Contract shall be valid and effective on the date of the signature of both Parties.

In Prague, on.....16.12.2015

In Brno, on 14.12.2015



for the Buyer
doc. RNDr. Zbyněk Sokol, CSc.,
director



for the Seller
Bent Gothenborg
director & CEO

Ústav fyziky atmosféry AV ČR, v. v. i.
Boční II 1401, 141 31 Praha 4
IČ: 683 78 289
tel.: 272 764 336 ②



ANNEX 1
TECHNICAL SPECIFICATION OBJECT OF PURCHASE



ANNEX 1
TECHNICAL SPECIFICATION

Vision Research Ultra High Speed camera, model v1612

- a) Nominal frame rate of at least 40 000 fps at resolution at least 640 x 460
- **Yes, v1612 is able to record at 640x480 resolution with 45.500 fps**
- b) Higher frame rates at reduced resolutions with similar values of pixels per second

Resoluton	Frames per second
1280 x 800	16.600
1280 x 720	18.400
1024 x 512	30.700
640 x 480	45.500
512 x 384	65.000
256 x 256	135.400
256 x 128	253.000
128 x 64	538.400
128 x 32	840.000
128 x 16	1.000.000

- c) Store at least 3 seconds of video at nominal frame rate and resolution
- **Yes, v1612, 72GB model can store 4,09 seconds of video at 640x480 with fps 45.500**
- d) Possibility to partition internal memory to smaller segments to increase number of events captured during one recording session
- **Yes, possible via the camera control software**
- e) Sensor sensitivity better than ISO 25000 daylight for raw monochrome 12 bit per pixel encoded images
- **Yes, v1612 monochrome has ISO sensitivity for daylight ISO 32.000D**
- f) User defined image data look-up table either in camera HW or during post processing
- **Yes, possible via the camera control software**
- g) User access to Automatic Exposure Control (AGC) settings
- **Yes, possible via the camera control software**
- h) Lens settings control from camera SW
- **Yes, possible with the EOS-mount which will be delivered with the camera**
- i) Hardware internal (from actual camera image) or external (photometer based) image triggering
- **Yes, both options possible**
- j) Pre and Post trigger recording
- **Yes, both options possible via the camera control software**

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- k) External TTL trigger input and output signal, SW control of parameters:
falling/rising edge selection, hold-off time
 - **Yes, v1612 camera fulfils all these demands**
- l) GPS timing input (IRIG-B)
 - **Yes, possible**
- m) Battery backup, camera must be able to run without AC power
 - **Yes, possible via the external battery device ANTON BAUER 280wh which will be delivered with the camera**
- n) Required image output formats: TIFF, RAW
 - **Yes, possible in the camera control software**
- o) SDK with platform independent API with access to: image settings (resolution, frame rate, exposure time), recordings (delete, store to an external storage), trigger settings and camera management
 - **Yes, we will supply SDK for the camera**
- p) At least two-year warranty
 - **Yes, we will offer 24 months warranty for v1612 camera**

B. Accessories

1. Lensing

- d) Wide angle lenses, one of them with 18-25mm focus and max. aperture at least f/1.8, matched to camera's frame rate in low light conditions
 -  Lens no. 1
Sigma 20mm f/1,8 EX DG ASPHERICAL RF pro Canon
 -  Lens no. 2
Sigma 24mm f/1,8 EX DG ASPHERICAL MACRO pro Canon
- e) Adapter for Nikon F mount lenses to be able to use existing lenses
 - **Yes, will be part of the delivery**
- f) Remote focus and aperture control by the Ethernet connection through the camera interface
 - **Yes, possible in the camera control software and via EOS-mount**

2. Pan & Tilt rig

- d) At least 180 deg pan and 45 deg tilt
- e) Safely hold camera inc. lens in any position
- f) Remote control over USB or Ethernet
 -  **Kessler Crane CineDrive Pan & Tilt Head (High torque 50:1 Pan, High torque 50:1 Tilt)**
 - **Kessler elektraDRIVE Oracle Controller (connection via LAN)**
 -  **Kessler CineDrive Brain (connection via LAN and USB)**
 - **This system fulfils all requested specifications**

3. Data server

- d) Control camera using a custom application (developed by the IAP) utilizing camera's SDK
- e) Store recordings from camera for later use
- f) Minimal HW parameters:
 - 8 CPU cores at 2GHz
 - 32GB RAM
 - 256GB SATA3/SAS SSD
 - 32TB RAID video data storage
 - 2x 1Gbit Ethernet
 - 2x USB2
 - A high speed connection to the camera matching the fastest image data interface of the camera
 - Tower case
 - Compatible with GNU/Linux

Specified on page no. 31 & 32

DATA SERVER



- **PCS ST311T-X10 SYS Data Server - i-T311T-X10 - GPU/workstation 1P Intel Xeon E5v3 midi tower, 8DDR4, 2xGPU**
- **CPU: (1 CPU with 8 cores at 2,4GHz)**
- Intel Xeon E5-2630v3 - 2,4GHz@8,0GT 20MB cache, 8core,HT, 85W,LGA2011,tray
- 1pcs included in the system
- **Motherboard: (includes 8x USB 2.0)**
- X10SRA-F 1S-R3,4PCI-E16(g3),-E8(g3,40lanes)-E4(g2),2GbE, 10sATA3,8DDR4-2133,audio,IPMI,8XUSB2.0
- 1pcs included in the system
- **HDD for RAID video data storage: (7 HDD's each with 6TB memory, total 42 TB)**
- 6TB Toshiba MG04ACA600E - 7200rpm, SATA3, 512e, 128MB, 3,5"
- 7pcs included in the system
- **RAM (Operating memory): (4 modules each with 8GB, total memory 32GB RAM)**
- 8GB 2133MHz DDR4 ECC Registered 1Rx4, LP(31mm), Samsung (M393A1G40DB0-CPB)
- 4pcs included in the system
- **Network connection: (2 separate outputs, each 1Gbit Ethernet)**
- Network card Intel i210AT 2x GbE on motherboard
- 1pcs included in the system
- **SSD SATA3 disc: (1 SATA3/SAS SSD with 256GB memory)**
- SSD 2,5" 256GB Samsung 850 Pro SATAIII
- 1pcs included in the system
- **Sound:**
- Audio&sound card on motherboard with 7.1 channels
- 1pcs included in the system
- **Tower case including power supply:**
- SC743TQ-865-SQ 4U/tower eATX tichý(28dB),8sATA/SAS,865W(80+),černé
- 1pcs included in the system
- **Cooling system:**
- SNK-P0050AP4 4U Akt.chladič pro LGA2011 square i narrow ILM (38BA,3800rpm,4pin)
- 1pcs included in the system
- **Extended warranty:**
- 3 years in authorized service center
- **A high speed connection to the camera will be done via Ethernet cable between data server and camera.**
- **Interface of the camera included.**
- **Tower case- YES, MIDI Tower**
- **Compatible with GNU/Linux- YES**

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Sigma 20mm f/1,8 EX DG ASPHERICAL RF lens for Canon



The Sigma 20mm F1.8 EX DG Aspherical Macro is a standard wide-angle lens for full-frame and APS-C digital SLRs. Although not a new lens, it remains popular for its combination of good build quality, a usefully fast aperture of F1.8 and decent optics. You don't get Sigma's HSM ultrasonic-type autofocus motor but a clever manual/auto focus clutch gives quick access to manual focus if you need to fine-tune.

Sigma 24mm f/1,8 EX DG ASPHERICAL MACRO lens for Canon



The Sigma 24mm F1.8 EX DG Aspherical Macro is a standard wide-angle lens for full-frame and APS-C digital SLRs. Although not a new lens, it remains popular for its combination of good build quality, a usefully fast aperture of F1.8 and decent optics. You don't get Sigma's HSM ultrasonic-type autofocus motor but a clever manual/auto focus clutch gives quick access to manual focus if you need to fine-tune.



CineDrive Pan & Tilt Head

CineDrive® delivers superior flexibility and reliability when accomplishing pan & tilt movements. Its high-precision worm drive system ensures ultra-smooth motion that is lash free, eliminating the need to calibrate for lash compensation and preventing the possibility of being back-driven, keeping your camera safe even if power is lost to the system. Its adjustable camera basket used for vertical positioning provides the center of gravity control required for vertical movement and its accessories such as fixed and adjustable degree rulers, heavy duty and weather resistant cable connections and a multitude of mounting holes give CineDrive® the tools and flexibility needed for precision performance.



Pan and Tilt Motor Options

The 50:1 high torque brick option provides nearly 2 times the torque of the 27:1 high speed brick and is recommended when the pan/tilt head is used at an incline (vertical slider orientations). Increased gear reduction results in motions of 54 degrees per second and the ability to handle up to 11,3 kg camera rigs (on center of gravity).

CineDrive Brain

The CineDrive brain is the core of the system and features an ultra-fast 32-bit processor.



The CineDrive brain is the core of the system and features an ultra-fast 32-bit processor. Housed in a lightweight and durable polycarbonate and rubber over-molding for impact resistance, it features status indicating LED backlights and a functional front LED flashlight to help in low-light situations. Peripheral connectivity includes a USB port, SD Card slot and ethernet port while also providing wifi compatibility. The brain connects to each of its motors via heavy duty and weather resistant cable connections.

elektraDRIVE Oracle Controller

The ORACLE Control System is the core of our elektraDRIVE line of products. The ORACLE Control System is interchangeable between multiple products like our REVOLUTION head and elektraDRIVE motor pods for Kessler sliders.



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SmartLapse

SmartLapse provides users the ability to program ramped and intricate timelapse moves simply by recording moves manually in real-time with the Oracle controller and then playing the move back at a much slower rate.

Joystick Control

The joystick control of the ORACLE is designed for use with the Revolution Head 2 and manual operation with the elektraDRIVE slider motors. With accurate movement and real-time control it's the perfect tool for live performances or run-and-gun motion control shots.

Intervalometer

Integrated intervalometer with stand alone, continuous motion, shoot-move-shoot, & stop motion modes (requires Camera Control Module accessory).