

TABLE OF CONTENTS

• D25Wd/s controller MAIN OPERATION GUIDE TECHNICAL SPECIFICATIONS

• **B20 controller** MAIN OPERATION GUIDE TECHNICAL SPECIFICATIONS MOUNT TYPES

• KM-1 Motor TECHNICAL SPECIFICATIONS MAIN OPERATION GUIDE

• KM-2 Motor TECHNICAL SPECIFICATIONS MAIN OPERATION GUIDE

• Other Declaration of confirmity WARRANTY SUPPORT SERVICE



Main features of the Kinorg follow focus:

- solid aluminum housing of the hand unit and motors
- high-capacity batteries (2600 mAh internal one gives up to 45 hours of activity, 1600 mAh quick-change external magnet-mounted battery adds 18 hours more)
 - 6-38V power supply support
 - motors with on-board transceiver (no external controllers)
- high-torque motors, direct drive (no gear) <<<<<||||| КМ2 ведь с червяком
 - ergonomically designed hand unit
 - one-click motor calibration
 - two-clicks motor pairing

We provide

2-year free warranty

and fast support service

Kinorg cinemachinery design company is introducing the newest versions of its wireless follow focus - D25Wd/s, a Dual/Single-motor follow focus, and B20 wireless follow focus applicable for gimbals and hand grips.

The devices (hand units and motors) have durable solid-aluminum housings. Ergonomic design of the hand unit makes operating highly convenient.

The motors have on-board wireless transceiver and power stabilizer, no external controllers needed. Their torque is high enough to operate with any lenses available in film and video productions, including LOMO, ARRI Ultra Prime, etc. There are motors of 2 types – quiet KM1 and slim KM2. The KM2 motors are used at tight setups. They have 10% higher torque than KM1, and give higher pulling speed in case of heavy lenses. The KM1 motors allow to record clear sound and generally are used for focus pulling. The KM1 weight is 242 g, the KM2 weight is 248 g.



D25Ws Wireless follow-focus





Power ON/OFF

• Press and hold (1) for 3 sec.

The POWER LED glows green, short beep, short vibration. When the battery is low (the voltage is not enough to switch on) - the POWER and the LOW BATTERY LEDs blinks red twice.

Pairing with the FOCUS motor (D25Ws, D25Wd models)

• Press and hold of for 3 sec (at the back side of the hand unit) The CALIBRATE LED blinks. Confirm pairing by pressing a motor button (Button A or M for KM1, SET button for KM2), now the CALIBRATE LED reflects the motor calibration status

Pairing with the IRIS/ZOOM motor (Only D25Wd model) Press and hold + for 3 sec.

- Confirm pairing by pressing a button at the target motor

The CALIBRATE LED blinks. After confirmation of pairing by pressing a button at the motor (Buttons A,M for KM1, SET button for KM2) the CALIBRATE LED's status depends on the motor calibration status

Setting the range limits

Press and hold A+B+

When setting the first position - double beep, A (B) LED blinks. When setting the second position - A and B LEDs glows, beep and vibration. Motor moves to the related position in the range. The range limits can be reset by recalibration.

Setting A B digital markers and operation

To clear A B markers, press and hold A+B for 3 sec.

- Press and hold A or B for 3 sec.
- Short press A or B to go to the marker's position.

A-B Transition speed adjustment

- Press and hold A+B+
- Then adjust the transition speed with
- Then press and hold for 1 sec. to finish setup



Automatic range calibration:

Motor is already paired with the hand unit

1. Press A button of KM1 or Calibr. button of a hand unit Motor will detect the hard stops of the lens 2. Motor repositions according to the knob position 3. Done



Pairing confirmation:

Enter the PAIR mode of a hand unit

1. Press A or M button to confirm pairing 2. The hand unit beeps for successful pairing, KM1 antenna glows GREEN. Done.

Manual range setting:

KM1 is paired, gear is attached to the lens ring

1. Press and hold M button for 3 sec 2. Manually rotate the lens ring to the 1st position 3. Press M button 4. Rotate the lens ring to the 2nd position 5. Press M button 5. Motor repositions according to the knob position 6. Done



Rotation range: unlimited Automatic calibration: Yes Manual calibration on-board: Yes Digital resolution: 14-bit Waterproof: Yes Dustproof: Yes Shockproof: Yes **Power connector type:** 2-pin Push-Pull Camera start connector type: 5-pin Push-Pull Consumption: 14-24V 2.5A Max

RS/ Camera start 5-Pin 00 type RS/Camera start connector

90 Degree adjustment ring

15/19mm mount Standard 19mm + 15mm plastic insert

Camera engeneer information:

KM1 is always in the "Position control" mode and has normal operating temperature from -20 to +45 °C. It withstands rain, dust, shock and humidity



Automatic range setting: Motor is already paired with the hand unit

1. Press SET button of KM2 or Calibr. button of a hand unit. Motor detects the hard stops of the lens 2. KM2 repositions according to the knob position 3. Done



KM-2 Standard motor

Pairing confirmation:

Enter the PAIR mode of the hand unit

1. Press SET button to confirm pairing with the hand unit 2. The hand unit beeps for successful pairing, KM2 SET button glows GREEN. Done

Manual range setting:

KM1 is paired with the hand unit

- 1. Press and hold SET (big round button) till it start blinking 2. Holding Left & Right buttons move the motor to the position 1 3. Press SET button
- 4. Holding Left & Right buttons move the motor to the position 2 5. Press SET button
- 6. Motor repositions according to the knob position, SET button glows GREEN. Done





Rod mount position adjustment **Controller:** on-board wireless transceiver Rotation range: unlimited Automatic calibration: Yes Manual calibration: Yes Digital resolution: 14-bit Waterproof: Yes Dustproof: Yes

Shockproof: Yes **Power connector type:** 2-pin Push-Pull Camera start connector type: 5-pin Push-Pull Consumption: 12-18V 1.2A Max



Camera engeneer information:

The motor is always in the "Position control" mode and has normal operating temperature from -20 to +45 °C. It withstands rain, dust, shock and humidity









Power ON/OFF

Pair

(ഗ)

9V

Simply connect the power cable to switch on The POWER LED glows green

Pairing with the motor

• <u>Press and hold</u> <u>button for 3 sec (at the front side)</u> Confirm pairing by pressing a button of the motor (Button A or M for KM1, SET button for KM2)

Automatic calibration

• Press A button Paired motor will detect the lens range automaticaly

Manual calibration

This controller has no manual calibration functionality Use motor's manual calibration function

Reverse knob direction

Press R button to reverse the knob direction

Press and hold to enter "Pair" mode LED indicator starts blinking Green · Confirm Pairing by pressing any button of the target motor

DC 12-29V/0.25A 5.5x2.1mm charging port

Controller's knob 90-degree rotation range

Camera engineer information:

This unit can be mountet with MagicArm, Rosette, 1/4 Thread using all types of standard 3rd party accessories.

LED indicator Power ON/ Pair mode/ Camera start

· Glows Green when power is ON · Blinks Green while awaiting for Pairing confirmation • Blinks Red when camera is started

Wireless RS Camera start button

- · Press once to start the camera
- · Press again to stop it

 (\bigcirc)

 0^{\prime}

Ó

-Rosette Standard ARRI M6 rosette and 1/4 thread

· Supports third-party manufacturers accessories

Auto cal. / Reverse Automatic calibration, direction reverse

- · Press and hold A for automatic range detection
- Press R to reverse the knob direction

1/4 UNC 20 Standard threaded mount

· Supports third party manufacturers accessories

Specifications:

Normal operating temperature from -10 to +45 °C. It withstands direct rain, dust, shock and humidity.

B-20 Mount

The unit can be mounted by means of rosette or 1/4" standard thread Recommended mounting: rosette, magic-arm, super-clamp



Firmware update

for motors and hand units

D25Ws/d

The firmware update is performed through the micro-USB Interface Find the micro-USB port behind the plastic cover at the back side of D25Ws/d

1. Download 3 files of the newest firmware from www.kinorg.com 2. Connect D25Ws/d to your computer using a micro-USB cable (it will get detected as a flash-drive) and upload the files to the hand unit 3. Press and hold 🔘 button and wait till the hand unit powers on. It takes few seconds longer than the standard power-on procedure

KM1/KM2

The firmware update is performed wirelessly, D25Ws/d acts as a host The fresh firmware files are already uploaded to the hand unit

- 1. Power on D25Ws/d and the target motor(s)
- 2. Pair the hand unit with the target motor/s Do not calibrate the motor/s
- 3. Press and hold Reverse + Calibration buttons at the front side of D25Ws/d for 10 sec Hand unit Smooth, Calibration, A, B led indicators start blinking. Update time can take from 10 to 60 sec
- 4. Restart the hand unit (power off and then power on) After restarting the system is ready for operation



Additional information Declaration of confirmity/Warranty/Support Service

Warranty regulations Free warranty for 2 years Except cables, connectors, batteries, antenna or brute force damages

Support Service Please contact your local distributor or dealer. To solve unstandard issues contact us using the web-form on www.kinorg.com

Declaration of confirmity

EU DECLARATION OF CONFORMITY

We thereby declare that this declaration of conformity is issued under the sole responsibility of the manufacturer, Kinorg sp. z o.o., within the scope of EU Directive: radio equipment directive RED 2014/53/EU

The object of the declaration is in conformity with the relevant Union harmonized standards: EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 (article 3(1) point (a) 2014/53/EU) ETSI EN 300 328 v2.1.1:2016 (article 3(2) 2014/53/EU) ETSI EN 301 489-17 v3.1.1:2016 (article 3(1) point (b) 2014/53/EU) ETSI EN 301 489-1 v2.1.1:2016 (article 3(1) point (b) 2014/53/EU)

