

# User Manual



## Slidekamera X-HEAD 2D Remote Controlled Head

Pdf version of the manual available for download: [www.slidekamera.com](http://www.slidekamera.com)

slidekamera  <sup>®</sup>  
MADE IN EUROPE

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Before you start your work with Slidekamera X-HEAD 2D remote controlled head we strongly recommend to read the manual carefully.

**Please note that using the head in a manner inconsistent with the manual can cause damage or malfunction the manufacturer is not responsible for.**

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# 1. Elements of X-HEAD 2D head

Once you receive the shipment please make sure that all the elements of Slidekamera X-HEAD 2D are inside.

## Set includes:

- ☑ X-HEAD remote controlled head
- ☑ X-HEAD controller
- ☑ steering cable: 5 meters
- ☑ 1/4" camera head screw
- ☑ 3/8" camera head screw
- ☑ AC adapter
- ☑ EXPLORER transport case with foam insert
- ☑ user manual



## 2. Construction

### 2.1. X-HEAD controller

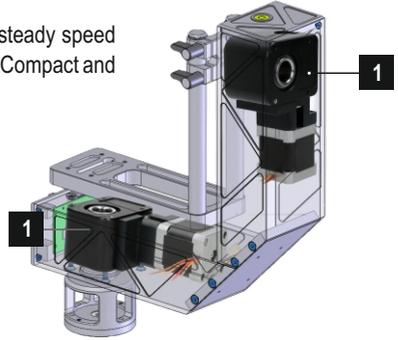
Joystick and the knobs are located on the front panel of the controller. Electric connectors sockets and the power switch are located on the side wall of the controller housing.



- joystick [1]
- SAVE buttons [2]
- REVERS buttons [3]
- RAMP knobs [4]
- SPEED knobs [5]
- power switch [6]
- motors socket [7]
- 1/4 mounting hole [9]

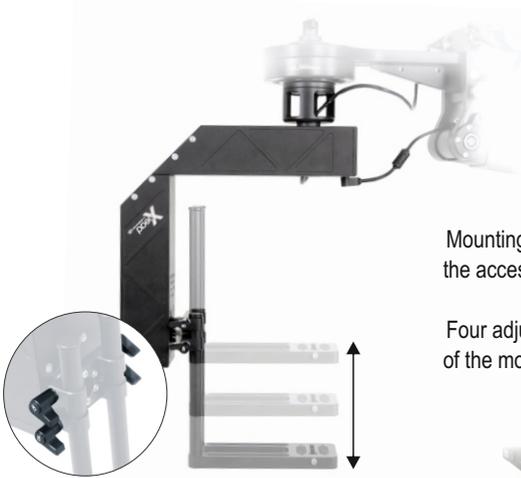
## 2.2. Head

Thanks to the use of worm gears [1] and steering that maintains steady speed regardless of the load, the head does not require precise balancing. Compact and cased construction ensures long and problem-free operating.



Mounting bracket moves up and down, allowing to set the accessories in the rotation axis of the head.

Four adjustable clamping levers facilitate rigid mounting of the mounting bracket.



Mounting slot allows to move the accessories forward and backward.

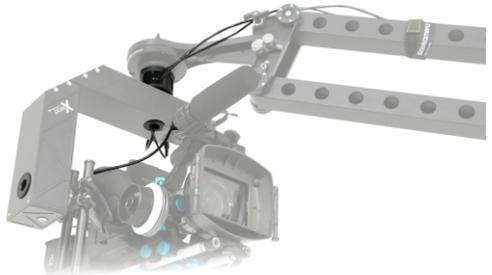
Accessories are mounted on the mounting bracket with the use of 1/4" lub 3/8" screws.



3/8" hole in the head base allows to mount it on other devices equipped with 3/8" screw, such as camera cranes, tripods.

Four  $\varnothing 4,2\text{mm}$  holes (Manfrotto spacing) allow to mount X-HEAD head directly on Slidekamera 75/100mm half ball equipped with four M4 holes.

X-HEAD base is equipped with holes that allow to lead steering cables through X and Y rotation axis, thus allowing to achieve full rotation in both axes without the risk of damaging the cables.



X-HEAD is equipped with a TRIGGER socket to connect our device with a photo camera using a proper shutter release cable, thus allowing for interval shots synchronized with a slow movement of the head.

To connect the head with the controller use a steering cable.

Controller socket [1]

Socket for additional drives [2]

Power socket [3]

TRIGGER - Shutter release cable socket [4]



### Driving motor markings:

<b>LINK</b>	Indicates that controller cable is properly connected.
<b>Rx</b>	When orange light flashes slowly the user is informed that the driving motor is powered but has not yet received any command from the controller. When orange light starts flashing rapidly this indicates that the driving motor received a command from the controller.
<b>FAULT</b>	Flashing light indicates existing error.

### Possible X-HEAD power supply:

- AC adapter
- external battery - Slidekamera AF-7 power pack (purchased separately)

### 3. Mounting

#### 3.1. Mounting remote controlled head on camera cranes equipped with 75mm/100mm socket

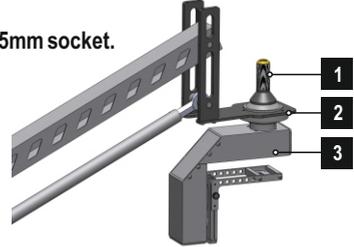
X-HEAD 2D remote controlled head can be mounted on camera cranes equipped with 75mm/100mm bowl with the use of leveling half ball or rigidly, with the use of Slidekamera HSZ-2 quick mounting screw.

##### Examples of mounting the head on the crane equipped with 75mm socket.

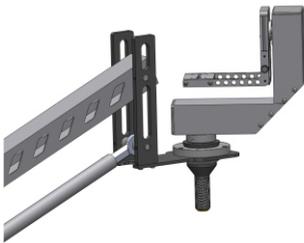
Slidekamera 75mm or 100mm leveling half ball [1]

Camera crane bracket with 75mm socket [2]

X-HEAD 2D remote controlled head [3]



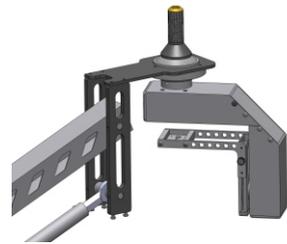
Bracket bottom position  
head reversed



Bracket bottom position  
head on the top



Bracket upper position  
head on the top



Bracket upper position  
head reversed

#### 3.2. Mounting accessories and cabling system

To connect the head with the controller use a steering cable. Additionally, connect the head with a power source.

Cables that run between remote controlled head and the controller or cables that control the camera/photo camera are attached to the arm of the crane with velcro straps.



## 4. Working with X-HEAD 2D remote controlled head

To operate X-HEAD use the controller connected to the head with steering cable.

### Basic features of the X-HEAD controller:

- intuitive controls - speed of the rotation is linearly proportional to the joystick deflection
- wide range of speeds that can be changed very smoothly
- rotation direction can be changed for each axis separately
- smooth regulation of gentle start/ stop
- possibility to disable the gentle start
- 3 memory banks to store and playback motion trajectory ( Bank 1 - 3min 20s, Banks 2 and 3 – 1 min 40s)
- possibility to playback the recorded motion from the saved starting point
- smooth change of speed of the played trajectory

### 4.1. Joystick

Linear deflection of the joystick corresponds to head rotation speed in a given axis thus making the steering easy and intuitive.

### 4.2. SPEED knobs

In order to change the set point speed use the SPEED knob. Turning the knob right increases speed and corresponds to the maximum deflection of the joystick. Turning the SPEED knob maximally to the left results in turning off the given axis (REVERSE button light switches off)

### 4.3. REVERSE buttons

In order to change the direction of the rotation use REVERSE buttons. Pushing the button for a moment changes the direction of the rotation for a given axis (button light changes from green to red or vice versa). Pushing the REVERSE button for a longer time (>0,7s) either enables or disables the gentle start for a given axis. Disabling gentle start is signaled by REVERSE button flashing.

#### Possible options of REVERSE buttons lights:

- turned off – given axis is disabled
- green/red light on – given axis is active, gentle start enabled
- green/red light flashes – given axis is active, gentle start disabled

### 4.4. RAMP knobs

Use the RAMP knobs to change gentle start/stop. Turning the knob right extends time of the gentle start/stop (maximum acceleration for a given axis reduces). In order to achieve gentle stop let go of the joystick when the head is in motion (the joystick comes back to the neutral position).

NOTE! Deflecting joystick in the opposite direction will terminate the gentle stop (the head will instantly stop and start to rotate in the opposite direction).

### 4.5. SAVE buttons (memory banks)

The controller is equipped with three memory banks that allow to store and playback the information about the motion. Every memory bank stores three movements of both axes. Maximum recording times are respectively 3m 20s, 1m 40s, 1m 40s. The recordings are stored in permanent memory (they are not deleted after the power is switched off or the safety coupling is disconnected).

To activate a recording from a particular memory bank hold the appropriate SAVE button for a moment (>0,7s) (button light flashes). The recording starts when the joystick leaves the neutral position. Pushing the flashing SAVE button again ends the recording. To playback the movement push the appropriate SAVE button (the light turns on). It is possible to correct the speed range (SPEED knob) and to set the speed with the use of joystick (so called mixing) during the playback. Pushing the appropriate SAVE button again ends the playback.

**Possible options of SAVE buttons lights:**

- turned off - memory bank disabled
- turned on – playingback the stored movement
- flashes – recording the movement

## 5. Technical specification

Weight:	4kg
Head dimensions:	345 x 288 x 109mm
Head load capacity:	8 kg
Maximum size of the camera / photo camera:	width: 280mm height: 300mm
Range of head rotation angles:	in the X-axis and Y-axis N x 360°
Maximum rotation speed:	73°/s (360°/4,9s)
Maximum acceleration:	264°s <sup>2</sup>
Supply voltage:	10..17V DC max 40W
Battery working time:	12V 7Ah min. 3h
Operating temperature range:	+20..+40°C
Recommended relative humidity:	do 90°

## 6. Maintenance and operation

X-HEAD 2D remote controlled head does not need any additional service or lubrication of the components. Maintenance procedures are reduced to keeping the equipment clean.

## 7. Terms of warranty

All Slidekamera products are covered manufacturer's warranty for a period of 12 months from the date of sale. Warranty covers any design faults or of the material of the product which resulted in the product malfunctioning. The warranty covers the repair, or, if the repair proves impossible, replacement of the product with a new one. However, the cost of repair of the product cannot overrun the catalogue value of the product. The warranty does not cover damage and / or product defects resulting from the improper usage, as well as not following product maintenance specifications.

**The warranty excludes:**

- unauthorized attempts to repair or modify
- mechanical damage caused during transport and operation of such features as scratches, dents, pits, dirt, etc ...
- flooding, moisture

To obtain warranty service the purchaser should deliver the damaged product together with a proof of purchase and proof of payment (invoice, cash register receipt). The product will be accepted for warranty service on condition that it is delivered with correctly filled in complaint form and properly protected during transport. You can download the complaint from: [www.slidekamera.com](http://www.slidekamera.com)

**After the warranty period is exceeded any spare parts can be purchased directly from the manufacturer or in any selected points of sale.**

**PLEASE NOTE:** Any package sent at the expense of HET-CNC s.c., 80-175 Gdańsk, Ul. Kartuska 386

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