P/N:24101K1

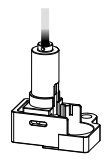
KM-01 Knob Motor User Guide

Dino-Lite Digital Microscope

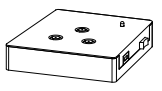
NOTICE BEFORE ASSEMBLY

- *The KM-01 works with a certain range of Dino-Lite. If not certain whether the Dino-Lite is compatible to the KM-01, please consult your reseller or distributor.*
- *The KM-01 can work alone or work together with PC's using DinoCapture 2.0 software version 1.4.1 or newer.*
- *Some Dino-Lite models have the ability to lock the knob to prevent it from scrolling. Please make sure the knob is NOT locked to avoid damage to the knob motor.*

Package contents



Knob motor



Control box



C-clip



Short / Long handscrew



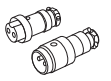
Power adapter



USB 2.0 cable



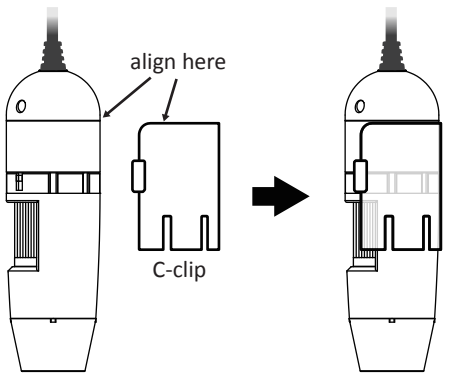
DinoCapture 2.0 CD



Male / Female 2 pin circular DIN connector

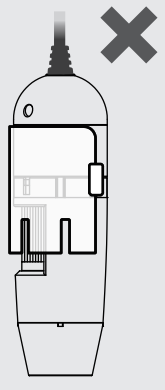
Assembly instructions

1

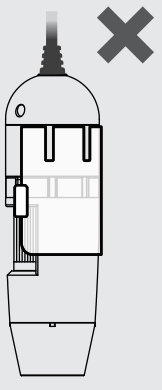


Align and snap together the c-clip to Dino-Lite.

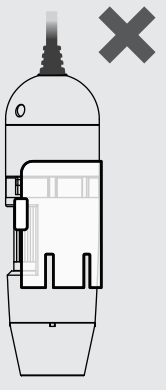
WRONG POSITIONS:



Covering the knob

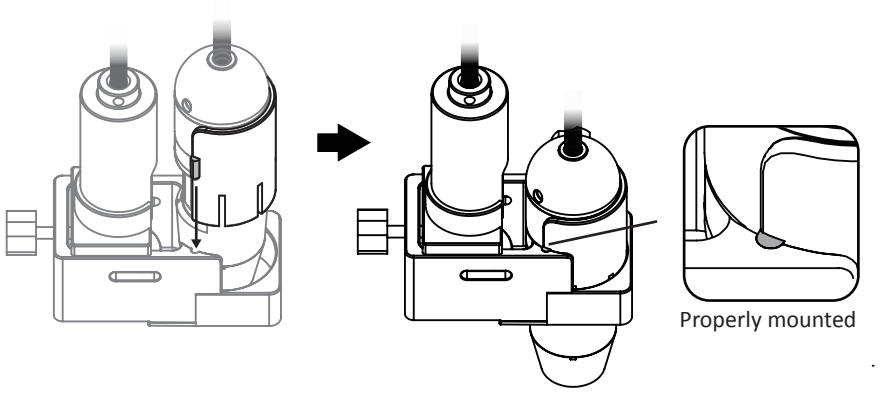


Slits facing up



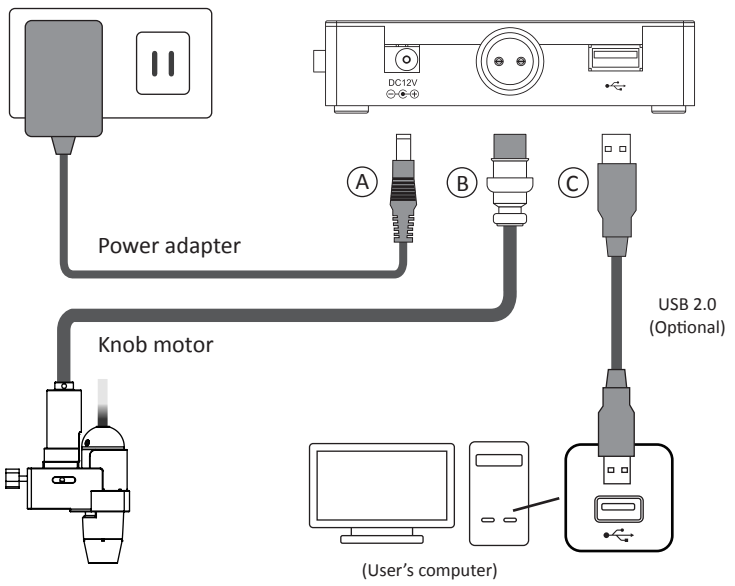
Not aligned

2



Mount the c-clip onto the knob motor.

3

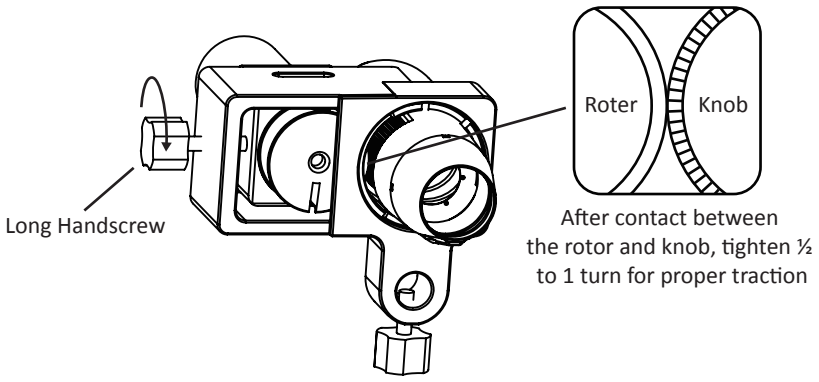


A. Plug in the power adapter and connect it to the control box.
B. Connect the knob motor to the control box.

NOTE:
An extension cable can be made for extending the distance between the knob motor and the control box with a 0.5mm² x 2C cable and supplied 2 pin circular DIN connectors. The recommended length of the extension cable should be within 10 meters.

C. (Optional) Connect the USB cable to the control box and PC. The KM-01 Left/Right rotation control can then be controlled by either the control box or the DinoCapture 2.0 software. Additionally, the MicroTouch on the control box can trigger the DinoCapture 2.0 software to take a picture.

4

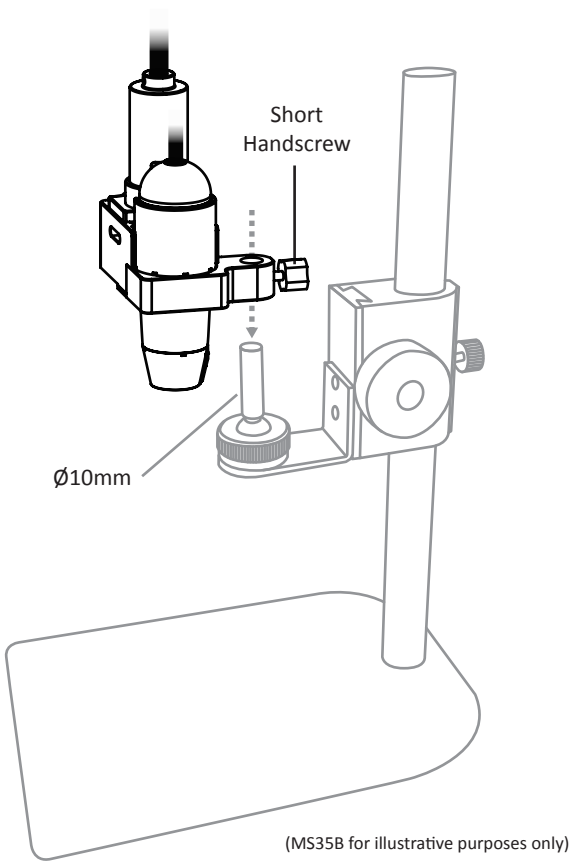


Turn the long handscrew clockwise until the knob motor's rotor contacts the focus knob of the Dino-Lite, then another ½ to 1 turn for appropriate traction.

NOTE:

- *If the knob motor rotor turns but the Dino-Lite focus knob doesn't:*
  - *Make sure the focus knob is in the unlocked position if the Dino-Lite has the scroll lock feature.*
  - *Make sure the Dino-Lite focus knob has not reached the end by rotating the knob in the other direction.*
  - *There maybe not enough contact between the knob motor and Dino-Lite knob; try tightening the long handscrew another ½ to 1 turn.*
- *If the knob motor rotor does not rotate:*
  - *Make sure the Dino-Lite focus knob has not reached the end by rotating the knob in the other direction.*
  - *There maybe not enough torque to rotate the Dino-Lite knob; try switching the torque to 2 on the control box(See control box functions) for more torque.*
  - *There is possibly too much pressure between the rotor and Dino-Lite knob; try loosening the long handscrew.*

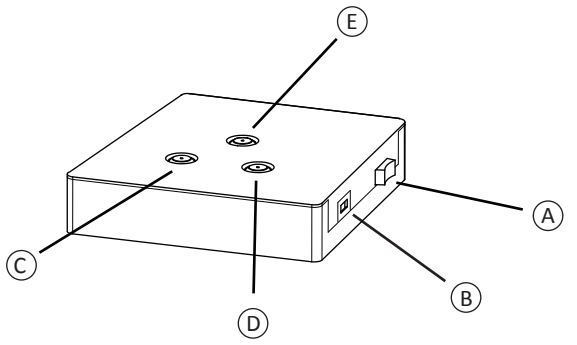
5



(MS35B for illustrative purposes only)

The knob motor can be mounted to a 10mm diameter rod often found on Dino-Lite stands such as the MS35B or MS36B, and secure it with the short handscrew.

Control box functions



A. Power switch
B. Torque adjustment
C. Left control (knob rotates clockwise)
D. Right control (knob rotates counterclockwise)
E. MicroTouch (works with DinoCapture 2.0 only)

How to use with the control box

NOTE:

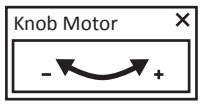
- *The KM-01 will not change the working distance of the Dino-Lite. So please position the Dino-Lite for intended working distance/ magnification before using.*
- *The MicroTouch on the control box will be activated to take pictures ONLY when it is configured to use with the DinoCapture 2.0 software.*

1. Turn on the power to the control box.
2. Tap the left or right control to rotate the knob for fine adjustment.
3. Tap and hold the left or right control for incrementally faster rotation.

How to use with DinoCapture 2.0 software

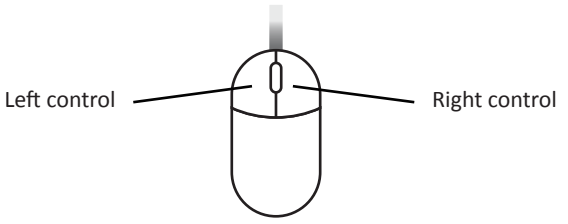
NOTE:
The KM-01 can be controlled by DinoCapture 2.0 software but limited to version 1.4.1 or later.

1. Connect the USB cable to the control box and PC.
2. Turn on the power to the control box.
3. Start the DinoCapture 2.0 software, and the Knob Motor Control Window should pop up as shown below. It can also be found under: Settings > Knob Motor



Knob Motor Control Window

4. The knob motor can then be controlled by using a mouse. Move the mouse cursor INTO the Knob Motor Control Window, and use the Left or Right mouse button the same way as the Left or Right controls on the control box.



(User's Mouse)

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