

Frame DL-Slider



Dual Length Slider with Stepper Motor

Instruction manual and description

Version: 1.0
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Features:

- Operation on the ground or tripod
- Double travel length for tripod mounting
- Adjustable feet for operation on the ground
- Easy mounting on a tripod
- Locking function
- Operation in inclined position up to 20°
- Low weight (2200g) 33cm version
- Powerful stepper motor
- Available in 2 different lengths
- Integrated spirit level for precise alignment

Foreword

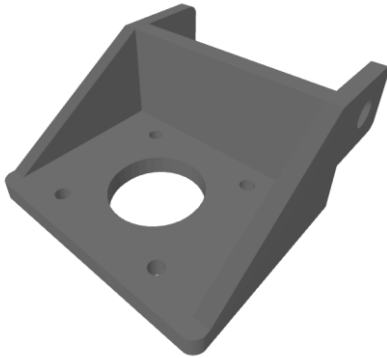
As with the other Frame products, it was also the intention of the Frame DL-Slider to offer a cost-effective alternative to expensive sliders of this type.

Due to the small size and the small pack size, Dual-Length Sliders are predestined for outdoor use and for taking along on trips.

Dual-length sliders are better known from the video sector for manual camera movements.

To use this type of sliders for motion timelapse it was necessary to motorize them.

The basis for the Frame DL slider is a dual length slider from PROAIM that is affordable compared to other similar products:



On the PROAIM slider, the textile belt is replaced by a toothed belt and a stepper motor is mounted using a specially designed motor bracket.



This equips the Frame DL slider to be controlled with the Frame MoCo.

Locking function

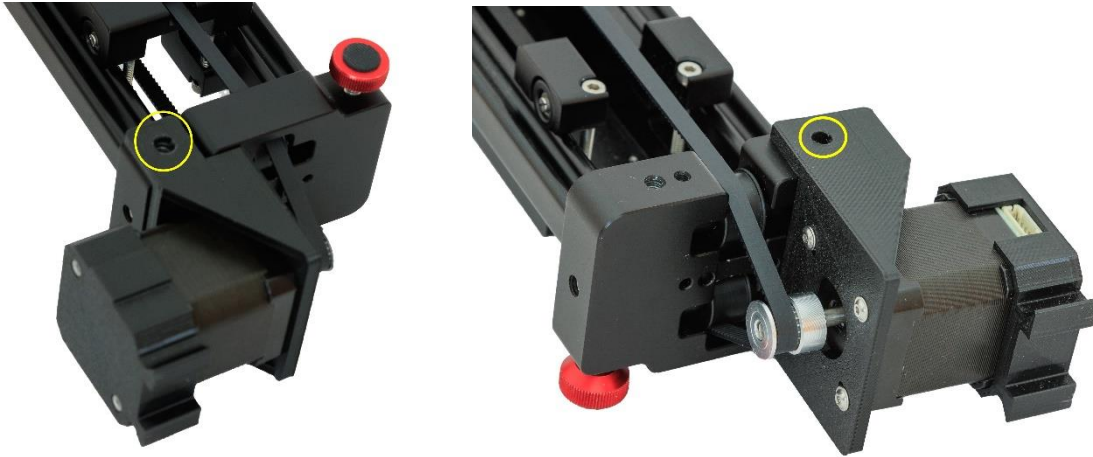
Due to the locking function attached to the end of the rail, the carriage can be fixed in any position.



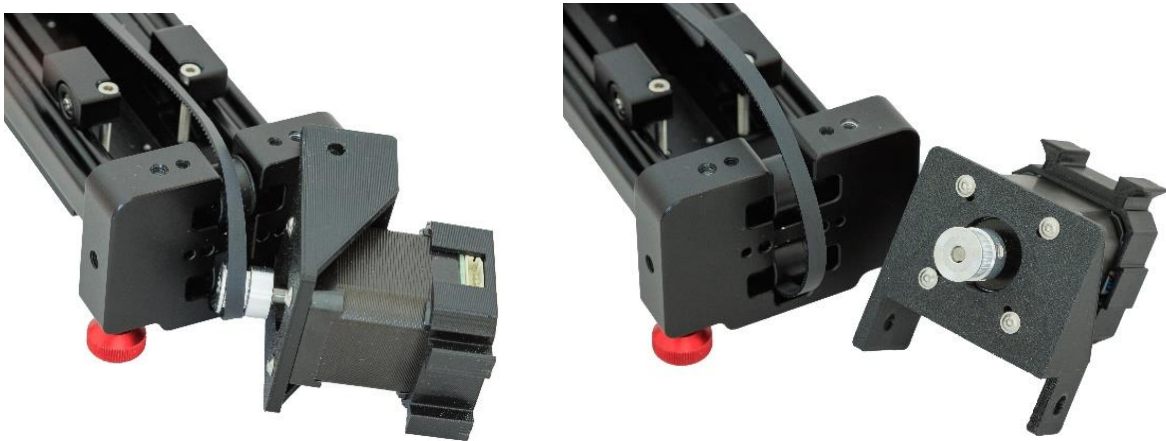
Motor assembly / disassembly

To transport the slider, especially in the supplied transport case, it is necessary to disassemble or assemble the motor.

The motor mount is attached to the front of the slider with 2 screws. These two screws are removed for disassembly.



The motor is then tilted to one side to remove the tension from the belt and can then be removed.



The assembly is carried out in reverse order.

Adjust belt tension

After some time of operation, it may be necessary to tighten the timing belt. This necessity can be recognized when the belt can be pushed through very easily.

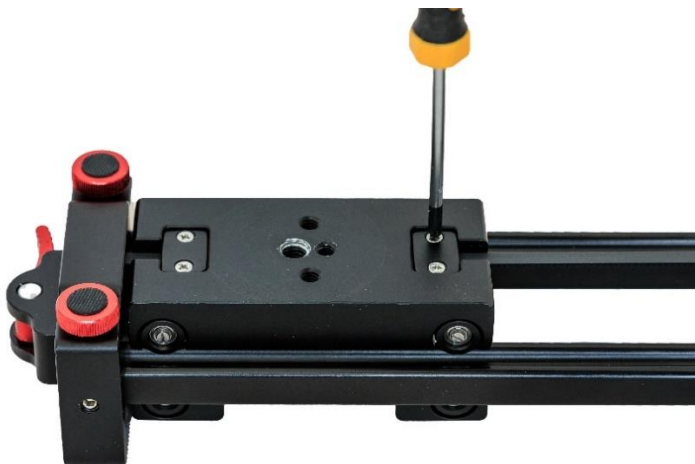
To do this, the carriage of the slider is first brought into this position by hand.



The lower part of the carriage is thus opposite in this position.



In this position, the carriage is fixed with the locking function and the two screws of the belt holder are loosened with a screwdriver as shown below.



The belt is pushed by hand in the direction of the arrow until tension is felt. In this position, the two screws are tightened again.



Operation of the slider in sloping position

The slider can be operated mounted on a tripod, at an angle of up to 20°.



For this, the following must be observed.

In the MoCo frame, in the menu **Motor type settings / Edit motor type** the **holding current** for the motor, which is used for the slider, must be set to **100%**. The maximum weight of the equipment that can be moved in the slider position is 2Kg.

Mount the slider on a very stable tripod with a large leg spread.

Carefully test the stability on the tripod by moving the cart with mounted equipment by hand in both maximum positions.

Fix the carriage in the lower position on the rail with the locking function.

In the MoCo, activate the motors and only then release the fixation.

In Jog Mode move the carriage while observing whether the rail remains stable in position.

Never deactivate the motors, or switch off the MoCo without first fixing the carriage.

Technical data

Motor:	NEMA17 Bipolar Stepper Motor 59Ncm
Tripod mount	1/4 and 3/8
Camera mount	1/4 and 3/8"

Technical data 33cm (13") version

Dimensions	44,5 x 12 x 9 cm (L/W/H)
Driving distance (floor)	22cm
Driving distance (tripod)	44cm
Load capacity (floor)	12kg
Load capacity (tripod)	7kg
Weight	2,2Kg

Technical data 43cm (17") version

Dimensions	54.5 x 12 x 9 cm (L/W/H)
Driving distance (floor)	32cm
Driving distance (tripod)	64cm
Load capacity (floor)	10kg
Load capacity (tripod)	5kg
Weight	2,7Kg