

oconnor

O-Focus DM Photo Set
O-Focus DM Cine Set

C1242-0001
C1242-0002

Caution

- DO NOT hang heavy items over the O-Focus DM handwheel.

- DO NOT attempt to move the camera by pulling on the O-Focus DM handwheel.

- AVOID overtightening the drive gear onto the lens focus drive.

- ALWAYS use genuine OConnor parts and accessories with the O-Focus DM.

- ALWAYS dismantle when not in use and before transporting.

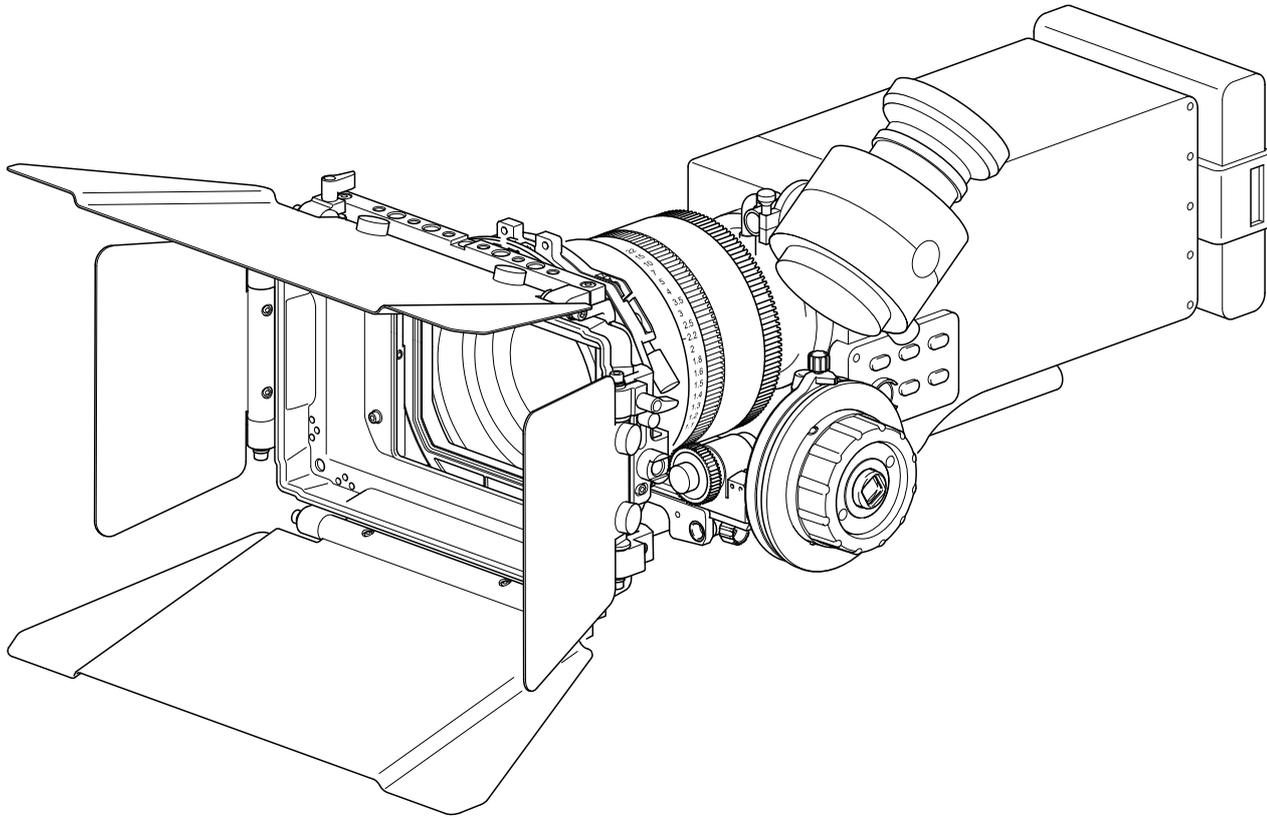
- Never use solvents to clean the O-Focus DM. Wipe clean with a damp cloth.

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The O-Focus DM Cine



Congratulations on the purchase of your new OConnor O-Focus DM!

We want you to get the most from your new O-Focus Dual Mini, and therefore encourage you to read this user guide to familiarize yourself with its many features, some of which may be new to you. It also covers essential information about safety and product care.

Features and benefits of your new O-Focus DM

The O-Focus Dual Mini, the latest addition to the range of genuine accessories from OConnor, offers a host of inspired and productive features:

- **the double-sided follow focus is constructed of lightweight, durable black anodized aluminum**
- **the low-profile design with a direct-drive gear is ideal for large barrel diameter lenses**
- **optimized focus throw: the O-Focus DM Photo offers a longer, more exacting focus pull for short throw lenses and the O-Focus DM Cine offers a shorter, more exacting focus pull for cine lenses**
- **multi-functional, modular design: the bridge features a sliding dovetail design and accommodates an LWS rod bridge (included) or, optionally, a heavy-duty bridge for 15/19 mm studio setups, as well as interchangeable gears, mixed or matched handwheels, and a handwheel extension**

Special features

The O-Focus DM is the first compact cine-specific unit. The O-Focus DM Photo has been optimized for use with still photo lenses in cine setups.

The highly adaptable O-Focus DM Cine has been designed for precision movement control of higher sustained torque loads. The eccentric design means it can be adjusted for optimal 'line of sight' as well as for reach.

The O-Focus DM follow focus integrates seamlessly with standard equipment such as cranks, gears, and whips, thus protecting your investment in equipment by ensuring compatibility also in the future.

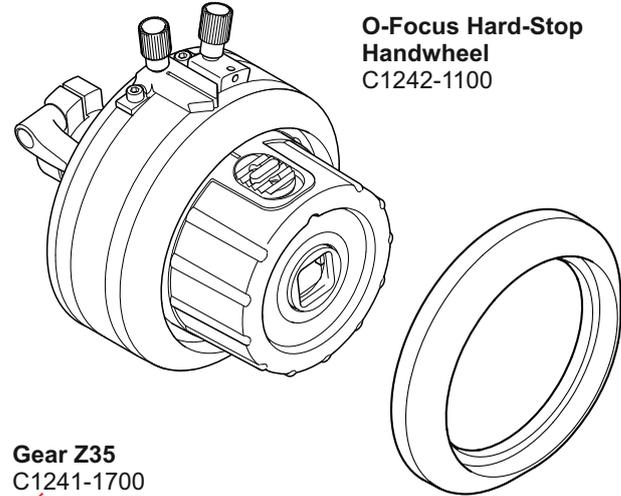
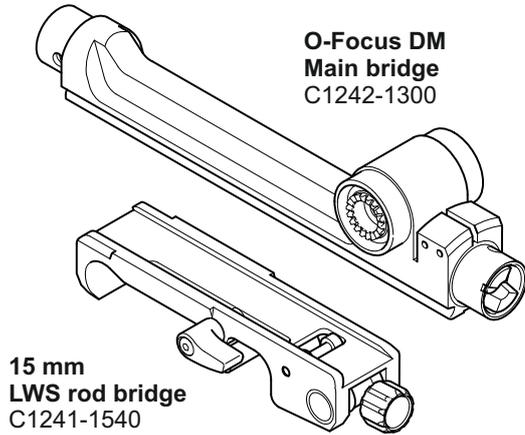
Specification

O-Focus DM Photo Set (C1242-0001)

Weight of unit (incl. LWS rod bridge, handwheel)	1.23 lbs (0.56 kg)
Weight of bridges (excl. handwheel).	0.73 lbs (0.33 kg)
Dimensions (excl. handwheel)	7.2 x 2.2 x 1.5 in. (182 x 57 x 37 mm)
Dimensions of hard-stop handwheel	Ø3.2 x 3.7 in. (Ø82 x 94 mm)
Max. lens diameter (with LW rods).	Ø116 mm
Gear ratio	19:25 (0.:75)
Positioning of driver gear	main bridge interlock (back / front)
Module coupling system	backlash-free
Drive gear coupling	standard serrated star
Rod system compatibility	15 mm LWS, studio 15 mm/19 mm
Gears and friction wheel (see table on page 10 for details)	

Specifications are subject to change without notice

O-Focus DM Photo Set C1242-0001



Matching OConnor accessories:

Studio rod bridge
C1241-1100 (depending on lens)

Handwheel (for double-sided use)
C1241-1100 (Cine)
C1242-1100 (Photo)

Handwheel extension (70 mm)
C1241-1500

Marking disc
C1242-2421 (single, small)

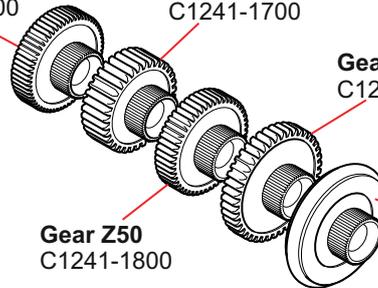
Gear Z60
C1241-1900

Gear Z35
C1241-1700

Gear Z43
C1241-1600

Gear Z50
C1241-1800

Friction Driver 35
C1242-1001



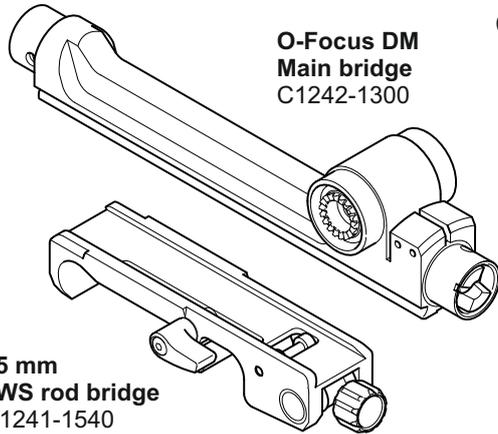
(for details about driver sizes and lenses see table on page 10)

Specification

O-Focus DM Cine Set (C1242-0002)

Weight of unit (incl. LWS rod bridge, handwheel)	1.52 lbs (0.69 kg)
Weight of bridges (excl. handwheel).	0.73 lbs (0.33 kg)
Dimensions (excl. handwheel)	7.2 x 2.2 x 1.5 in. (182 x 57 x 37 mm)
Dimensions of Cine handwheel.	Ø4 x 3.2 in. (Ø102 x 81 mm)
Max. lens diameter (with LW rods).	Ø116 mm
Gear ratio	35:19 (1:1.84)
Positioning of driver gear	main bridge interlock (back / front)
Module coupling system	backlash-free
Drive gear coupling	standard serrated star
Rod system compatibility.	15 mm LWS, studio 15 mm/19 mm
Gears and friction wheel (see table on page 10 for details)	

Specifications are subject to change without notice



**O-Focus DM
Main bridge**
C1242-1300

**15 mm
LWS rod bridge**
C1241-1540

Matching OConnor accessories:

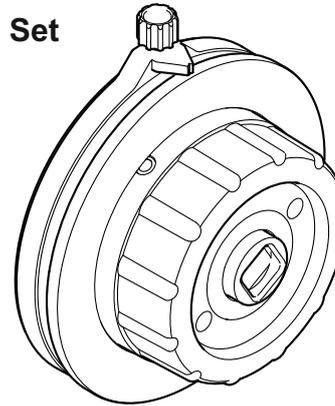
Studio rod bridge
C1241-1300 (depending on lens)

Handwheel (for double-sided use)
C1241-1100 (Cine)
C1242-1100 (Photo)

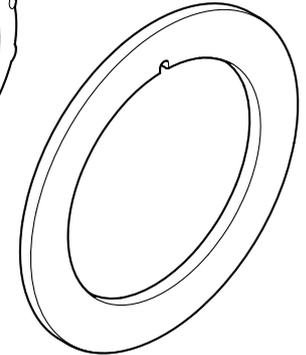
Handwheel extension (70 mm)
C1241-1500

“Glow-in-the-dark” marking disc
C1241-2117 (single disc, large)
C1241-1531 (10 pack, large)

O-Focus DM Cine Set
C1242-0002



**CFF-1 Studio Handwheel
(full-size offset knob)**
C1241-1100



**Marking Discs
(10 pack)**
C1241-1530

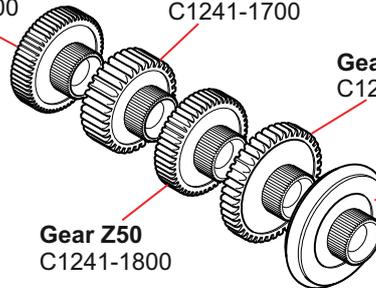
Gear Z60
C1241-1900

Gear Z35
C1241-1700

Gear Z43
C1241-1600

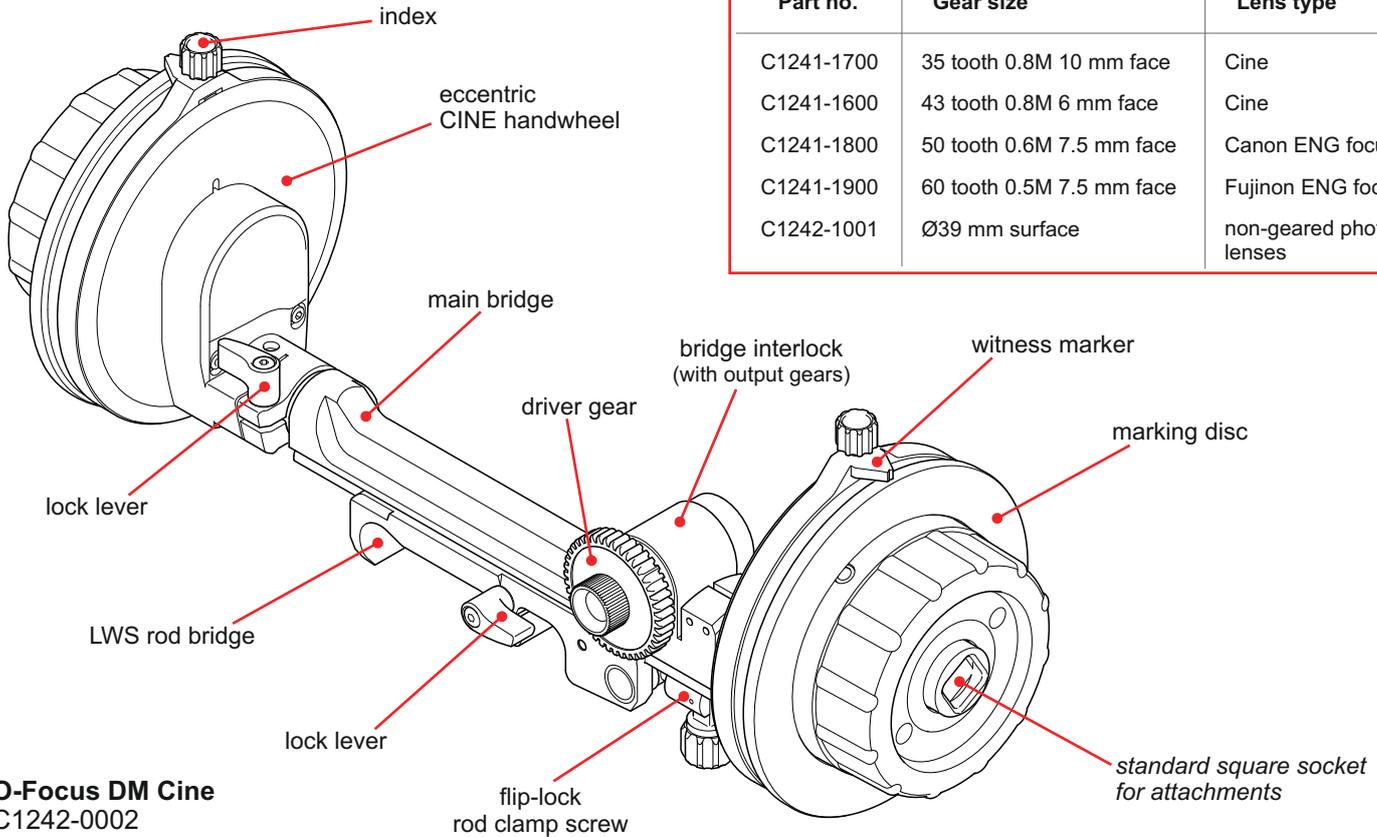
Gear Z50
C1241-1800

Friction Driver 35
C1242-1001



(for details about driver sizes and lenses see table on page 10)

Components

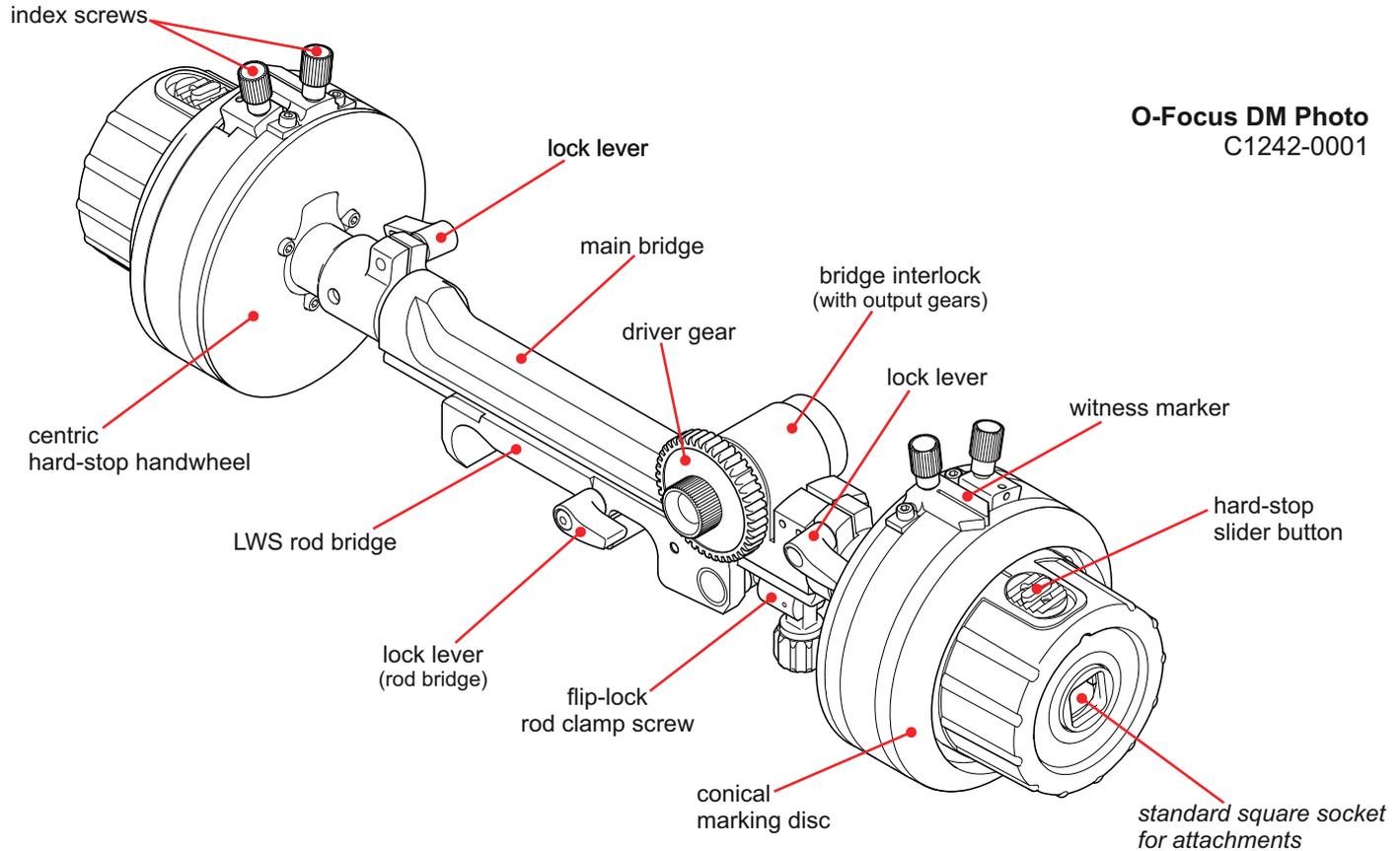


Part no.	Gear size	Lens type
C1241-1700	35 tooth 0.8M 10 mm face	Cine
C1241-1600	43 tooth 0.8M 6 mm face	Cine
C1241-1800	50 tooth 0.6M 7.5 mm face	Canon ENG focus
C1241-1900	60 tooth 0.5M 7.5 mm face	Fujinon ENG focus
C1242-1001	Ø39 mm surface	non-geared photo lenses

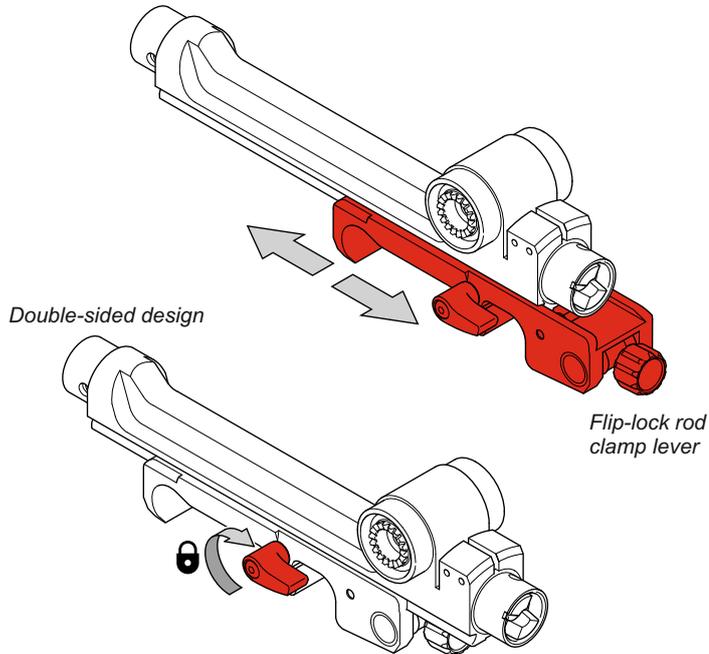
O-Focus DM Cine
C1242-0002

Components

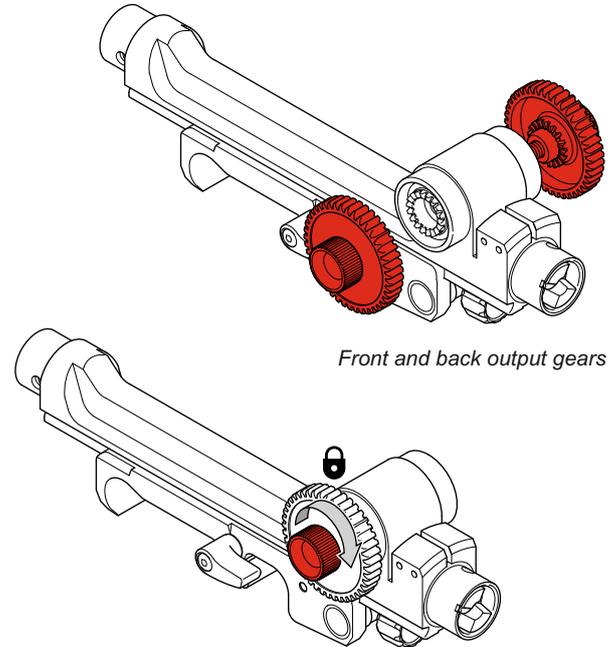
O-Focus DM Photo
C1242-0001



Assembly – assembling the bridge



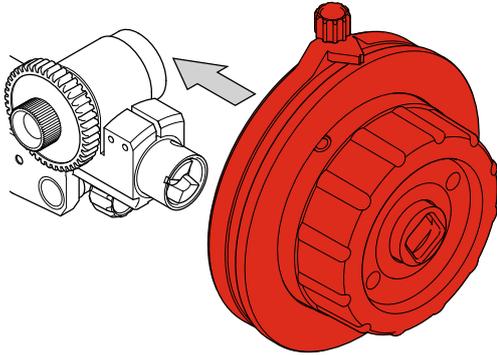
- 1 Assemble the bridges. Slide the LWS rod bridge onto the main bridge. Turn the lock lever clockwise to secure the LWS bridge in position.
The position of the main bridge can be adjusted using the sliding dovetail when mounting the O-Focus DM to the lens (see page 14).



- 2 Mount the driver gear. Choose a compatible driver gear for your lens (see page 10). Locate the driver on the output gear at the front or back of the interlock bridge as desired. Ensure the serrations fully interlock, then tighten the hollow knurled screw.

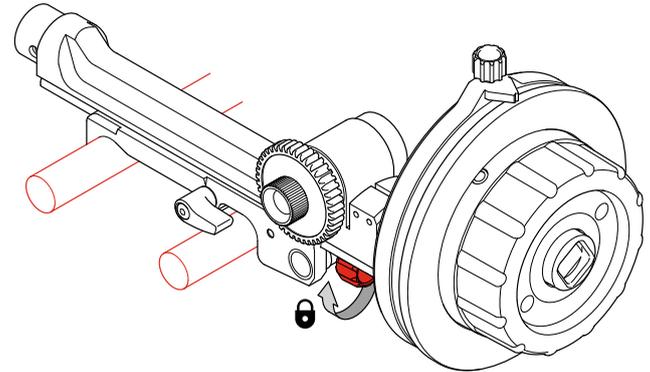
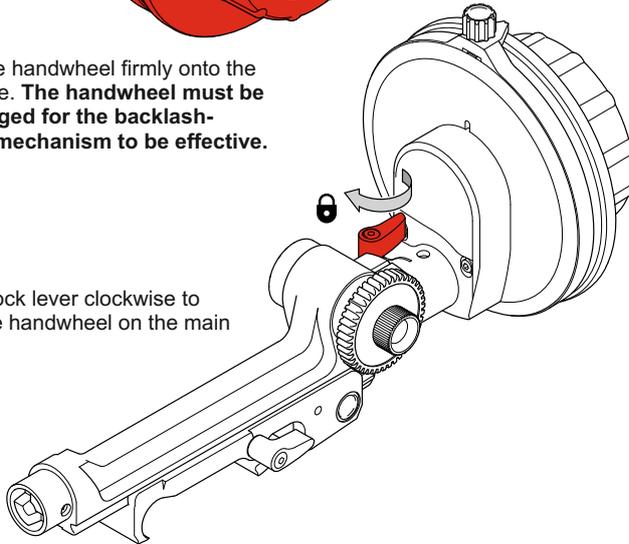
mounting the handwheel

The O-Focus DM incorporates a Minimal Backlash Mechanism to guarantee precision focus pull with less play and higher accuracy. Note that the assembly instructions apply to both types of handwheel.



1 Push-fit the handwheel firmly onto the main bridge. **The handwheel must be fully engaged for the backlash-reducing mechanism to be effective.**

2 Turn the lock lever clockwise to secure the handwheel on the main bridge.



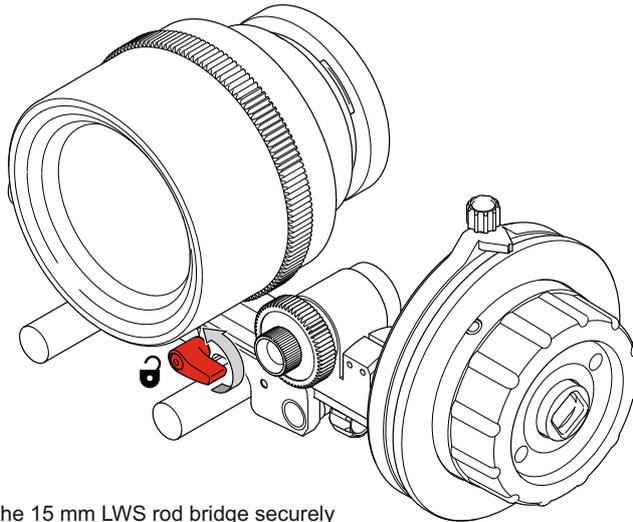
3 When mounting the assembled bridges and handwheel onto the camera rods underneath the lens: Turn the knurled screw clockwise to tighten the rod clamp, then flip down to lock the O-Focus DM securely on the rod.

NOTE: Lock levers are fitted with a spring. Should a lever obstruct the path of a camera rod, for example, adjust its position: Pull the lever off the shaft as far as possible, turn it a few degrees, then let it retract. Check the clamping is tight.

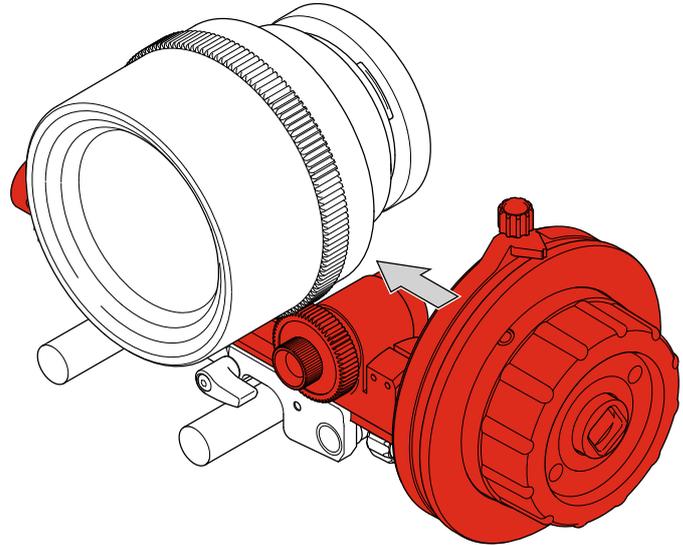
mounting onto the camera rods

Mounting the O-Focus DM to the lens requires the assembly to be adjusted in two steps: first assemble and mount the O-Focus on the camera rods, then adjust the main bridge, until the driver gear engages with the lens focus drive.

For more information about the focal length and diameter of a wide range of camera lenses visit OConnor Labs online at the OConnor website (OConnor > Labs > 'Lens Diameters').



1 With the 15 mm LWS rod bridge securely mounted underneath the lens, turn the lock lever counter-clockwise to release the main bridge assembly.

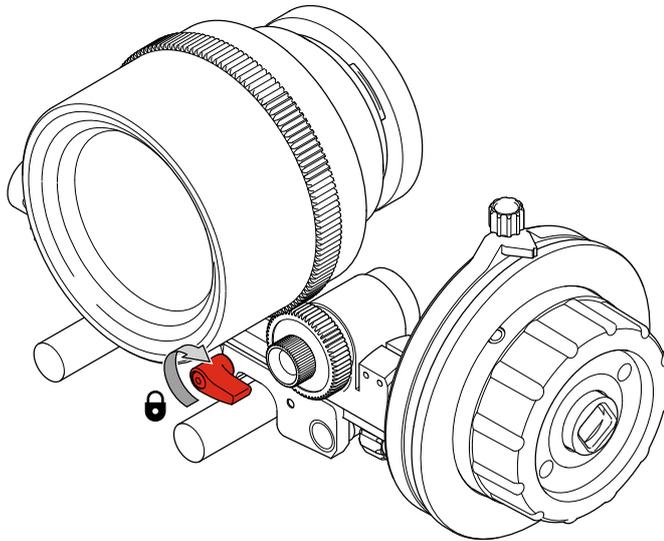


2 Mount the O-Focus DM to the lens focus drive. Push the main bridge towards the lens focus drive, until the serrations of the driver gear fully engage. Take care not to overtighten the gear on the lens focus drive.

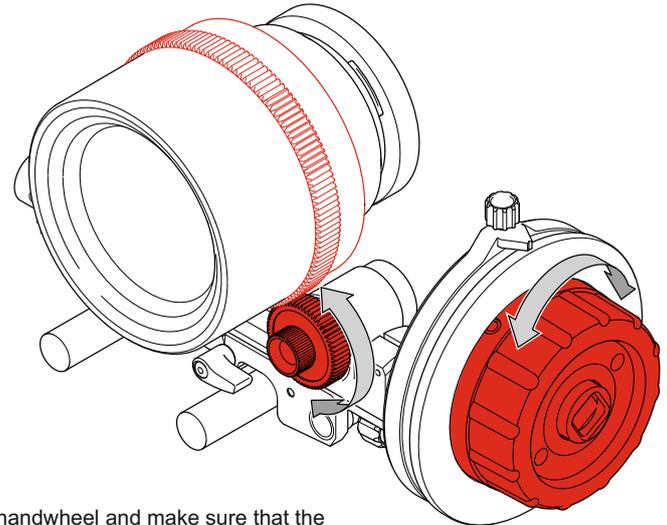
mounting the O-Focus to the lens

Depending on the setup, the LWS rod bridge can also be replaced with a studio bridge to accommodate heavy-duty 15 mm or 19 mm studio camera rods (see page 10).

For more information about different types of camera rods visit OConnor Labs online at the OConnor website (see OConnor > Labs > 'Rod Standards Explained').



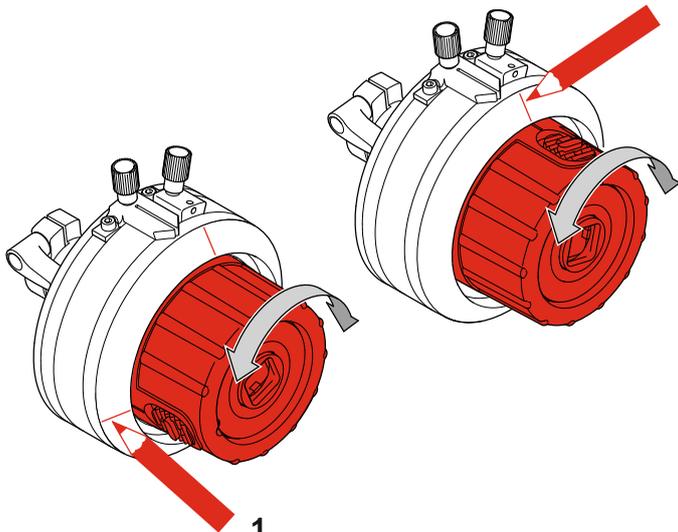
- 3** Turn the lock lever clockwise to secure the main bridge in position. Ensure the bridge is firmly locked to avoid backlash.



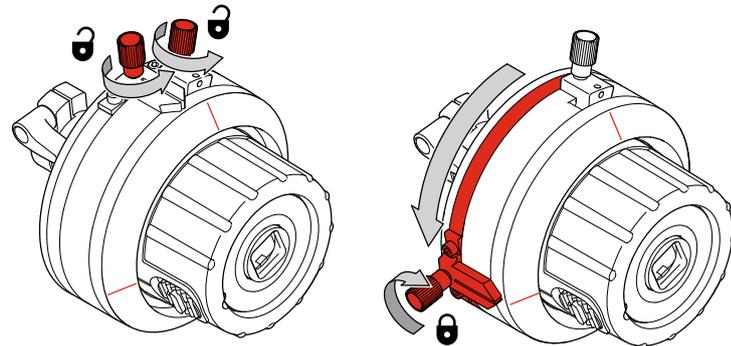
- 4** Turn the handwheel and make sure that the driver gear engages with the lens focus drive adjusting the lens focus smoothly in either direction.

setting the focal distances

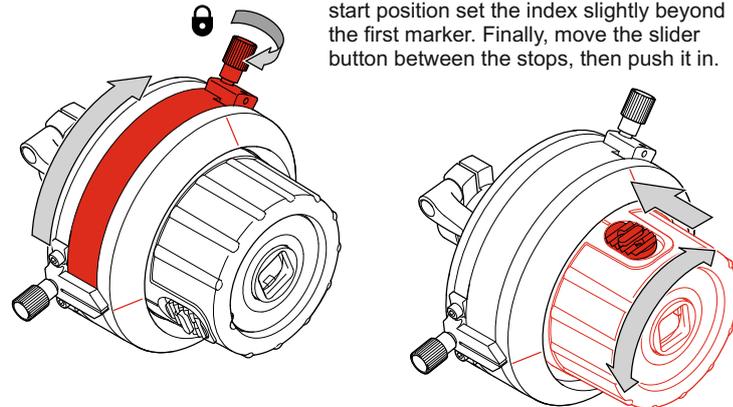
Set the lens focal range for the O-Focus DM Photo. Using a suitable pen mark the reference points for the maximum and minimum focal distances. Hard stops prevent lenses with infinite rotation from being turned too far. The hard stops can also be used as hard focus points for run and gun shooting.



- 1** Using the handwheel find the start focal point, mark this point and set the index. Turn the handwheel and establish the end stop of the focus pull. Mark with a pen, then adjust the index stoppers.

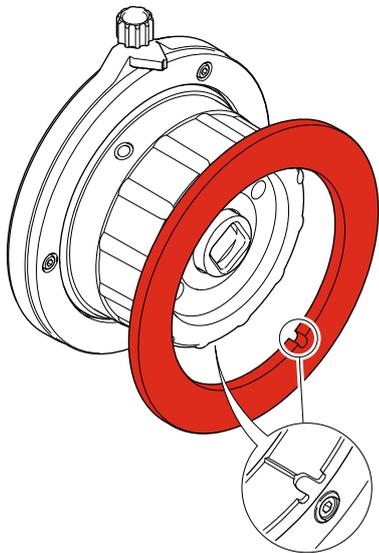


- 2** Set the focal distances. Loosen the index, move the large witness marker to the end position, and tighten the screw. For the start position set the index slightly beyond the first marker. Finally, move the slider button between the stops, then push it in.

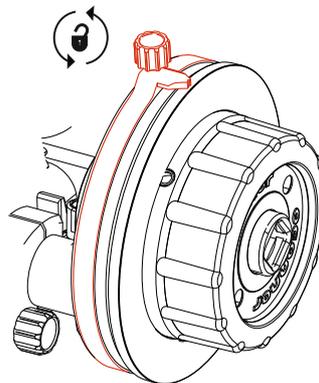


setting the focal distances

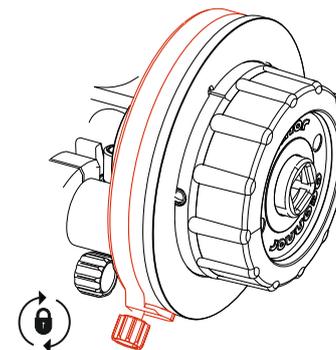
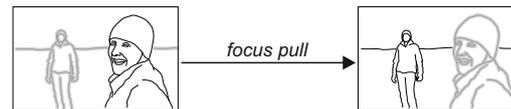
Set the focal distances for the O-Focus DM Cine. Using a suitable pen mark the lens focal reference points. The focus throw is optimized for cine lenses to provide a shorter, more exacting focus pull.



- 1 Mount the marking disc. Align the tongue on the handwheel with the cutout on the marking disc, then push the disc onto the handwheel until it audibly 'clicks' into place.



- 2 Set the initial lens focus and loosen the index to set it to the preferred eye level. Use a pen to mark the focal reference points on the marking disc, until the desired distance is marked out.



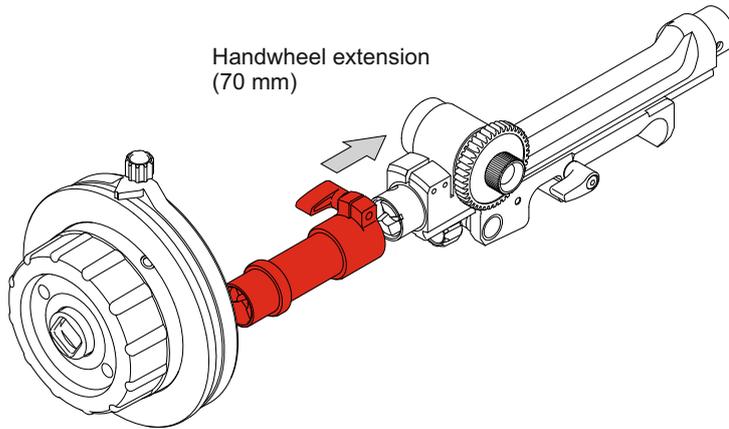
- 3 If preferred, set the witness mark to another focal reference point. Adjust the index as required.

The O-Focus DM is now set up and ready for use.

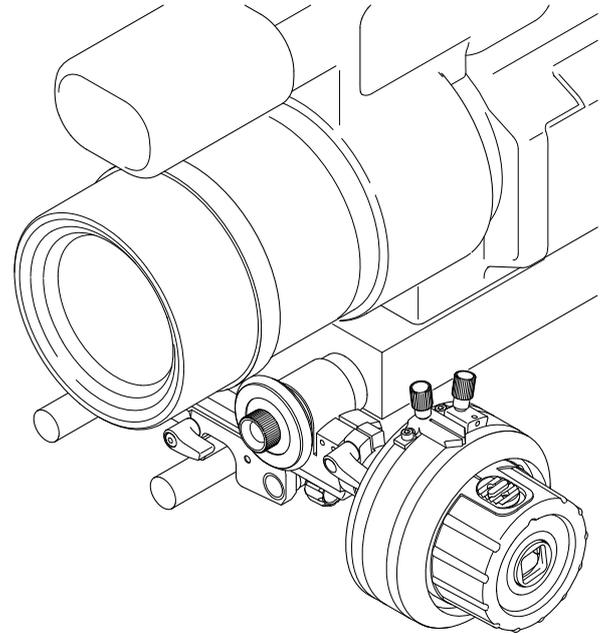
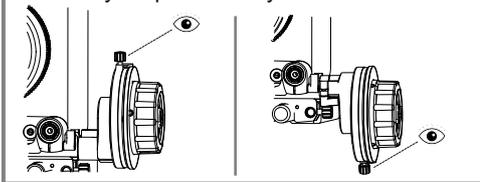
CAUTION: Always remove the marking disc before cleaning. Do not use solvents on the O-Focus DM. Follow the instructions supplied with the marking pen when cleaning the marking discs.

Options and extras

For larger camera packages the O-Focus DM can also be used with an optional 70 mm handwheel extension (see page 7 for details). The eye level of the eccentric CFF-1 studio handwheel can be adapted for optimal 'line of sight' and for reach.



Note: Adjust the handwheel index up or down for your preferred eye level.



The O-Focus DM has been optimized to work with still photography lenses used in cinema applications. A toothless friction driver wheel is included for use with non-g geared, rubber focus barrel still lenses.

OConnor Offices worldwide

ASIA

CHINA

Room 706, Tower B
Derun Building
YongAn Dongli A No. 8
Jianwai Ave.
Chaoyang District
100022 Beijing, China
Tel.: +86 10 8528 8748
Fax: +86 10 8528 8749

JAPAN

P.A. Building 5F
3-12-6 Aobadai
Meguro-ku
Tokyo 153-0042
Japan
Tel.: +81 3 5456 4155
Fax: +81 3 5456 4156

SINGAPORE

6 New Industrial Road
#02-02 Hoe Huat Industrial
Building
Singapore 536199
Tel.: +65 6297 5776
Fax: +65 6297 5778

EUROPE

FRANCE

171 Avenue des Grésillons
92635 Gennevilliers CEDEX
France
Tel.: +33 8 20 82 13 36
Fax: +33 8 25 82 61 81

GERMANY

Gebäude 16
Planiger Straße 34
55543 Bad Kreuznach
Germany
Tel.: +49 671 483 43 30
Fax: +49 671 483 43 50

Erfurter Straße 16
85386 Eching
Germany
Tel.: +49 89 321 58 200
Fax: +49 89 321 58 227

UK

William Vinten Building
Western Way
Bury St Edmunds
Suffolk IP33 3TB
United Kingdom
Tel.: +44 1284 752 121
Fax: +44 1284 750 560
Sales Fax: +44 1284 757 929



www.ocon.com - sales@ocon.com

HEADQUARTERS

2701 N. Ontario St.
Burbank, CA 91504
USA
Tel.: +1 818 847 8666
Fax: +1 818 847 1205

USA

709 Executive Blvd
Valley Cottage, NY 10989
USA
Tel.: +1 845 268 0100
Fax: +1 845 268 0113

BRAZIL

Vitec Group Brazil
Vitec Brazil Tecnologias Ltda.
Rua Quintana, 950 – cj. 32
Brooklin
São Paulo, 04569-011
Brazil
Tel.: +55 11 5102 4001
Fax: +55 11 5103 1164





<http://www.ocon.com>