User Guide

### O-Focus DM Photo/Cine Pro Kit



Part No. C1242-0001/C1242-0002

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### **A**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 Pro Kit (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)
Dimensions of hard-stop handwheel
Max. lens diameter (with LW rods)Ø116 mm
Gear ratio
Positioning of driver gear main bridge interlock (back / front)
Module coupling system backlash-free
Drive gear coupling
Rod system compatibility
Gears and friction wheel (see table on page 10 for details)

We reserve the right to alter specifications or change materials where absolutely necessary. All sizes or images shown throughout this publication are approximate and images shown are as accurate as modern reproduction methods will allow. No liability can be accepted for any variation.

# **Specification**

### O-Focus DM Cine Pro Kit (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)
Dimensions of Cine handwheel
Max. lens diameter (with LW rods)Ø116 mm
Gear ratio
Positioning of driver gear
Module coupling system backlash-free
Drive gear coupling
Rod system compatibility
Gears and friction wheel (see table on page 10 for details)

### In the box

#### O-Focus DM Photo Pro Kit C1242-0001



# In the box

#### O-Focus DM Cine Pro Kit C1242-0002



## Components



# Components



# 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



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

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.



**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').





**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.

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**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.







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



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.

**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.

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.

**í** 

focus pull



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.

# **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.





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-geared, rubber focus barrel still lenses.

# **Options and extras**

Mount a flexi-drive to the Cine Follow Focus One to enable the focus to be adjusted quickly and easily. The flexi-drive assembly comprises a handwheel, hand grip and shaft.

**2** Connect the end of the flexi-drive to the Cine Follow Focus One handwheel.





**3** Hold the hand grip and rotate the flexidrive handwheel to adjust the focus.

### Flexidrive Assembly Kit:

Handwheel C1241-1514

Shaft Assembly C1241-1515

Hand Grip C1241-1516



Always ensure that the flexi-drive is free from grease and dirt, before and after use.



# **Options and extras**

Mount a crank handle to the Cine Follow Focus One to enable the focus to be adjusted with minimum effort.



**2** Rotate the crank handle to adjust the focus.



# Maintenance

Adjusting the handwheel tension belt (if required).

- **1** Using a 2mm Allen key, loosen the two screws that secure the tension belt housing.

**2** Taking care, push down on the top of the tension belt housing to increase the tension of the belt.



**3** While holding the tension belt housing in place, tighten the two screws using a 2mm Allen key.



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