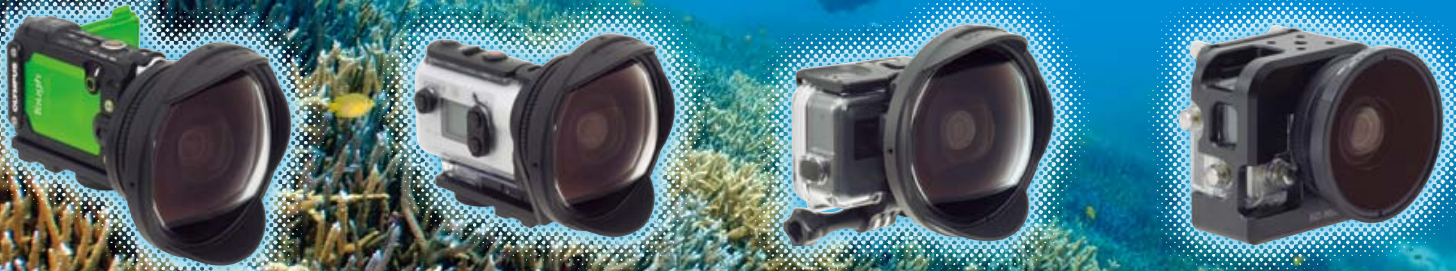


Attachment Lens for Action Camera Get Wider, Get Closer Even Underwater



The UFL-G140 SD provides wild wide underwater footage nearly same view angle as on land.

UFL-G140 SD

Underwater Semi-fisheye Conversion Lens

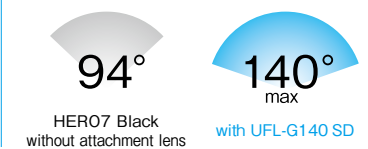


Mfr.	Camera	Depth of field with UFL-G140 SD *5
GoPro *6	HERO7 Black, HERO6 Black, HERO5 Black, HERO, HERO+, HERO+ LCD, HERO4, HERO3+ Black	4cm(1.6in) to ∞
	HERO3 Black	10cm(3.9in) to ∞
OLYMPUS	TG-Tracker	1cm(0.4in) to 80cm(2.6ft)
SONY	FDR-X3000, HDR-AS300	4cm(1.6in) to ∞

► Ultra Wide Even Underwater

Though an action camera is equipped with ultra wide lens, its coverage underwater will dramatically narrow down due to different refraction ratio between air and water. For example, GoPro® HERO7 Black provides approx. 151° on land but gets narrow down to approx. 94° underwater. The UFL-G140 SD provides ultra wide 140° semi-

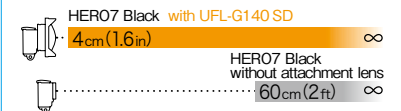
fish-eye imaging underwater enabling wild underwater video work only with action cameras *1 *2.



► Dynamic CFWA Imaging

Shooting through the UFL-G140 SD lens enables you to shoot a subject at close range to benefit deformed and perspective result. The native depth of field (DoF) of the GoPro® HERO7 Black on land is approx. 60cm/2ft to ∞. With the UFL-G140 SD, DoF underwater will be extended to 4cm/1.6in to ∞ closer

to camera side *3.



The UCL-G165 SD enables you to shoot a subject from close range of the lens.

UCL-G165 SD

Underwater Wide Close-up Lens



Mfr.	Camera	Depth of field with UCL-G165 SD *5
GoPro *6	HERO7 Black, HERO6 Black, HERO5 Black, HERO, HERO+, HERO+ LCD, HERO4, HERO3+ Black	5cm(2.0in) to 35cm(1.1ft)
	HERO3 Black	7cm(2.8in) to ∞
OLYMPUS	TG-Tracker	2cm(0.8in) to 15cm(5.9in)
SONY	FDR-X3000, HDR-AS300	5cm(2.0in) to 35cm(1.1ft)

► Get Closer Minimum Focus Distance

An action camera is a deep focus camera but prevents a subject gets in focus in close range (within 60cm/2ft range in theory for GoPro® camera). Using standard macro lens would create vignetting and very shallow depth of field. The UCL-G165 SD lens is so-called "wide close-up lens" specifically designed for action cameras based on their optical characteristic.

DoF underwater will be 5cm/2.0in to 35cm/1.1ft when using the lens for GoPro® HERO7 Black *3. Shorter minimum focusing distance creates wild result shot at close distance from subject.



► Ideal Coverage for Macro

The UCL-G165 SD produces maximum angle of view underwater 110° (for GoPro® HERO7 Black) to capture dynamic marine lives as the lens frames subject larger than UFL-G140 SD which delivers ultra wide 140° coverage underwater *1 *4.

Coverage by UFL-G140 SD

Coverage by UCL-G165 SD



HERO7 Black without attachment lens (out of focus)

*1. Measured angle of view by INON or calculated angle of view underwater based on the measured angle of view. Not confirmed by camera manufacture. The measured angle of view of "HERO3+ Silver" / "HERO3 Silver" is approx. 142°(air) which is less wide than the Black Edition. So angle of view underwater with this lens is less than Black Edition. The "HERO3+ White" has not been tested. *2. The UFL-G140 SD is designed only for underwater use. When using on land, distant subject is not in focus, angle of view is not as wide as rated and vignetting is observed. *3. DoF on land is based on focal length/aperture of camera lens and pixel pitch of the image sensor. DoF underwater is measured from "the forefront of the lens". *4. The UCL-G165 SD is designed only for underwater use. Using the lens on land will have vignetting. *5. Measured DoF from foreground of the lens surface. Divide by 1.33 for visual distance underwater. *6. Measured distance underwater for GoPro® HERO7 Black/HERO6 Black/HERO5 Black/HERO4/HERO3+ Black/HERO3 Black/HERO/HERO+/HERO+ LCD. Other Edition has not been tested.

SD Mount Base for TG-Tracker

Compatible Cameras
OLYMPUS STYLUS TG-Tracker



Speedy Lens Exchange

Equipped with INON "SD Mount" bayonet system to support easy and speedy exchange of "UFL-G140 SD" or "UCL-G 165 SD" lens. Of course the SD Mount Base for TG-Tracker is usable without any attachment lens ^{*1 *2}.



Compact Lightweight Mount Base

Compact yet durable Mount Base is designed not to compromise benefit of lightweight TG-Tracker. Easy to install to snap on the front of the UP-T01 Underwater Protector and fix with tripod screw on the bottom ^{*3}.

Versatility

INON "Direct Base III", "Z Joint" or "Z Adapter MV" can be attached on the bottom of the Mount Base to install TG-Tracker on various systems for broad application.



Usability

Packaged "Male Adapter (GoPro)" enables to utilize "SG-T01 Steady Grip" that comes with TG-Tracker or your GoPro® compatible mounts.



Stability

Packaged "Mount Adapter" enables to add one INON "D Holder" on this product in 3 ways (right/left/back) for steady underwater imaging. The Mount Adapter is designed to attach the system on a tripod/monopod as well.



Model	SD Mount Base for TG-Tracker
Size	Width: 65.4mm(2.6in), Height: 65.4mm(2.6in), Depth: 94.7mm(3.7in) (including protruded parts)
Weight	[air] 78g(2.8oz), [underwater] approx. 45g(1.6oz)
Material/finishing	Corrosion-resistant aluminum alloy / rigid black alumite, POM etc.

SDMount Base UWH1

Compatible Cameras
SONY FDR-X3000/X3000R [In combination with packaged MPK-UWH1 Housing]
SONY HDR-AS300/AS300R [In combination with packaged MPK-UWH1 Housing]



Male Adapter
(GoPro) for
SD Mount Base/
SD Front Mask
Sold Separately

Speedy Lens Exchange

Equipped with INON "SD Mount" bayonet system to support easy and speedy exchange of "UFL-G140 SD" or "UCL-G 165 SD" lens. Of course the SD Mount Base UWH1 is usable without any attachment lens ^{*4 *5}.



Compact Lightweight Mount Base

Compact yet durable Mount Base is designed not to compromise benefit of lightweight action cam. Easy to install to snap on the front of a housing and fix with tripod screw on the bottom.

Versatility

INON "Direct Base III", "Z Joint" or "Z Adapter MV" can be attached on the bottom of the Mount Base. Optional "Male Adapter (GoPro)" utilizes GoPro® compatible mounts.



Stability

Packaged "Mount Adapter" enables to add one INON "D Holder" on the left or right side for steady underwater imaging. The Mount Adapter is designed to attach the system on a tripod/monopod as well.



Monitor Housing for LVR3

Dedicated underwater housing can bring the RM-LVR3 Live-View Remote up to 60m/197ft assisting to check composition. The housing is fixed on the SD Mount Base UWH1 and has access to the power switch of the RM-LVR3.

*1. Activate image stabilization function of the camera while shooting video to avoid vignetting. *2. When taking still images, do not use attachment lens to avoid significant vignetting on image corners. *3. Built-in headlamp of the TG-Tracker is not usable as this product covers it. Make sure to turn off the headlamp while using the camera with this product. *4. Select SteadyShot (Movie) [Act] when shooting video as [Std] and [OFF] cause slight vignetting. Select SteadyShot (Still) [ON] when shooting still image. Excessive camera movement may result vignetting even SteadyShot (Movie) [Act] is selected. *5. Vignetting on image corners even without attachment lens on land when [W: wide] is selected in angle setting. No vignetting underwater.

SD Front Mask for HERO5/6/7

Compatible Cameras

GoPro HERO7 Black	[In combination with optional Super Suit Housing]
GoPro HERO6 Black	[In combination with optional Super Suit Housing]
GoPro HERO5 Black	[In combination with optional Super Suit Housing]



SD Mount Bayonet with Locking System

Equipped with INON "SD Mount" bayonet system with additional locking feature to support easy and speedy exchange as well as reliable installation of "UFL-G140 SD" or "UCL-G165 SD" lens. Of course the SD Front Mask for HERO5/6/7 is usable without any attachment lens *1 *4.



Lightweight Reinforced Plastic

Made of reinforced plastic (FRP) for durability and not to compromise benefit of lightweight GoPro® camera. Easy to install to snap on the front of a housing and fix with a thumbscrew.

Versatility

INON "Direct Base III", "Z Joint" or "Z Adapter MV" can be attached on the bottom of the SD Front Mask for HERO5/6/7. Installing packaged "Male

Adapter (GoPro)" utilizes your GoPro® compatible accessories.



Stability

Packaged "Mount Adapter" enables to add the optional "D Holder" on the left side for steady underwater imaging. Double handle configuration is also supported by installing "Grip Base D4" and "D Holder" enabling you to hold the system with both hands providing more photos/clips with less camera shake. The double handle system can further evolve to serious underwater camcorder system with video lights on both handles. The Mount Adapter is designed to attach the system on a tripod/monopod as well.



Model SD Front Mask for HERO5/6/7

Size Width: 67.9mm(2.7in), Height: 82.3mm(3.2in), Depth: 39.0mm(1.5in) (including protruded parts)

Weight [air] 40g(1.4oz), [underwater] approx. 15g(0.5oz)

Material/finishing Polycarbonate, POM etc.

SD Front Mask STD

Compatible Cameras

GoPro HERO+ LCD, HERO+, HERO	
GoPro HERO4	[In combination with packaged Standard Housing - 131' (40m)]
GoPro HERO3+	[In combination with packaged Standard Housing - 131' (40m)]
GoPro HERO3	[In combination with optional Standard Housing - 131' (40m)]



Lockable Bayonet Mount

Equipped with INON "SD Mount" bayonet system with locking feature. It's simple yet secure to attach and remove attachment lens. Of course the SD Front Mask STD is usable without any attachment lens *1 *2.

Lightweight Reinforced Plastic

Made of reinforced plastic (FRP) for durability and not to compromise benefit of lightweight GoPro® camera. Easy to install

to snap on the front of a housing and fix with a thumbscrew.

Versatility

INON "Direct Base III", "Z Joint" or "Z Adapter MV" can be attached on the bottom of the SD Front Mask STD. "Male Adapter (GoPro)" and "Mount Adapter" are included in the package.

LCD/Battery BacPac™ Compatibility

Model SD Front Mask STD

Size Width: 88.5mm(3.5in), Height: 79.3mm(3.1in), Depth: 37.8mm(1.5in) (including protruded parts)

Weight [air] 42g(1.5oz), [underwater] approx. 13g(0.5oz)

Material/finishing Polycarbonate, POM etc.

SD Mount Cage for HERO3/3+/4

Compatible Cameras

GoPro HERO4	[In combination with optional Dive Housing - 197' (60m)]
GoPro HERO3+	[In combination with optional Dive Housing - 197' (60m)]
GoPro HERO3	[In combination with packaged housing]



SD Mount Bayonet

Equipped with INON "SD Mount" bayonet system to support easy and speedy exchange of attachment lens. Of course the SD Mount Cage is usable without any attachment lens *1 *2.

Durable Aluminum Protector

Durable construction machined from an aluminum block protects a housing even in rough condition.

Upgradable for Serious Shooters

The SD Mount Cage can hold INON "Direct Base III", "Z Joint", "Z Adapter MV" or packaged "Male Adapter (GoPro)" at its top/bottom surface. Double handle configuration is also supported by installing INON "D Holder" directly on the bottom surface. The tripod screw hole (1/4 inch) enables to use tripod/monopod *3.

LCD/Battery BacPac™ Compatibility

Model SD Mount Cage for HERO3/3+/4

Size Width: 88.5mm(3.5in), Height: 79.9mm(3.1in), Depth: 51.3mm(2.0in) (excluding protruded parts)

Weight [air] 183g(6.5oz), [underwater] approx. 114g(4.0oz)

Material/finishing Corrosion resistant aluminum alloy / rigid black alumite, POM etc.

*1. When using on land, set FOV mode other than [Wide] / [Ultra Wide] or use without the SD Front Mask / SD Mount Cage to prevent vignetting observed mainly in Wide / Ultra Wide mode even without an attachment lens. No vignetting underwater. *2. Not usable for [SuperView™] as this mode adds software-based deformation effect resulting from processing original 4:3 aspect ratio to 16:9 enhancing more aberrations when using an attachment lens. *3. Depending on tripod head design, some tripod/monopod may not fit to this product. Check if your tripod head can hold this product before actual use. *4. When using on land, without using [Video Stabilization] even without an attachment lens will have vignetting. So make sure to activate [Video Stabilization] on land. No vignetting underwater.

Compatible Options ▶

D Holder

A grip supporting arm feature to add LED torch etc.



Direct Base III

A metal ball-joint adapter providing secure installation of combined product by lightly fastening a clamp.



Z Adapter MV

A plastic ball-joint adapter providing flexible yet secure positioning without loosening a clamp.



Z Joint

A joint adapter to attach on YS type arm, base or port arm.



AD Lens Holder for Float Arm

A lens holder for a Float Arm or "M5 Joint" installed on Stick Arm to carry compatible attachment lens.



Color Filter Set for HERO5

Packaged three different color correction filters for green water, shallow water or deep water to reproduce natural color without blue cast for HERO5 Black.



UWL-100 Neoprene Carry Pouch

Neoprene carry pouch best suited for "UFL-G140 SD" underwater semi-fisheye conversion lens.



UCL-330 Neoprene Carry Pouch

Neoprene carry pouch for "UCL-G165 SD" underwater wide close-up lens to protect the lens during transportation.



SETUP EXAMPLE ▶



SPECIFICATIONS ▶

Model	UFL-G140 SD Underwater Semi-fisheye Conversion Lens		UCL-G165 SD Underwater Wide Close-up Lens	
Size	Diameter: 93.4mm(3.7in)	Length: 41.8mm(1.6in)	Diameter: 77mm(3.0in)	Length: 25.2mm(1.0in)
Weight	[air] 300g(10.6oz)	[underwater] approx. 153g(5.4oz)	[air] 200g(7.1oz)	[underwater] approx. 121g(4.3oz)
Body material / finishing	Corrosion-resistant aluminum alloy / rigid black alumite, PC etc.		Corrosion-resistant aluminum alloy / rigid black alumite, PC etc.	
Mount system	INON SD Mount		INON SD Mount	
Depth rating	60m(196.9ft)		60m(196.9ft)	
Lens material/coating	Optical glass/both side coating, Optical plastic/both side hard coating, inner multi-coating		Optical glass/both side coating	
Lens construction	4 groups 4 elements		2 groups 2 elements	
Max.view angle/ Focal length	Max. view angle 140.0° [underwater] *1		Focal length 165mm [underwater] *2	

*1.Maximum angle of view underwater. It varies among different action cameras.

*2.Standalone focal length of UCL-G165 SD and not combined focal length with camera's master lens.

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