Mounting Kits

Benefits:

- **Easy assembly and 90° image rotation**

- **Flexible adjustment of working distance and orientation**

- **Robust construction out of anodized aluminum**

- **Vibration proof**

- **Resist displacement forces of up to 2000N**

- **Adapts to any standard T-slot profile**
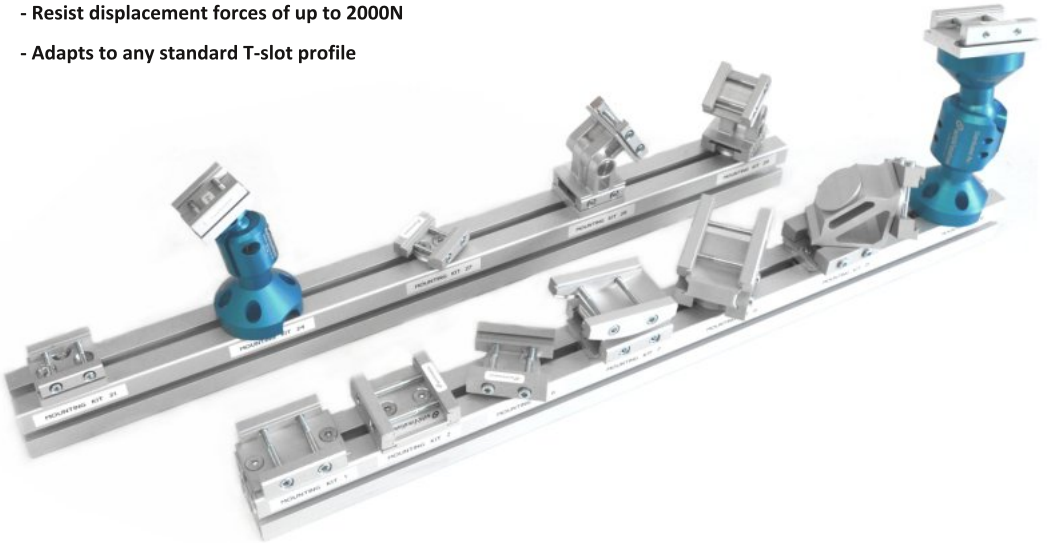
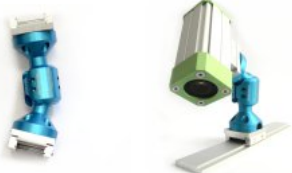| Product	Images	Order Number
Mounting Kit 1 - Parallel mounting pattern - 90° image rotation - Working distance adjustment		5.010.000
Mounting Kit 2 - Vertical mounting pattern - 90° image rotation - Working distance adjustment		5.020.000

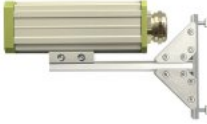| Product	Image	Order Number
Mounting Kit 6 - 360° pan - 90° image rotation - Working distance adjustment		5.060.000
Mounting Kit 7 - +/- 8° tilt - 90° image rotation - Working distance adjustment		5.070.000
Mounting Kit 9 - 360° pan - +/-8° tilt - 90° image rotation - Working distance adjustment		5.090.000
Mounting Kit 15 - 360° pan - 360° tilt - 90° image rotation - Working distance adjustment		5.150.000

Product	Image	Order Number
Mounting Kit 16 - 360° pan - >120° tilt - 90° image rotation - Working distance adjustment		5.160.000
Mounting Kit 17 - 360° pan - >120° tilt - 90° image rotation - Working distance adjustment - Adapts to 40mm dovetail profile		5.170.000
Mounting Kit 18 - 360° pan - >30° tilt - 90° image rotation - Working distance adjustment		5.180.000
Mounting Kit 19 - 360° pan - >30° tilt - 90° image rotation - Working distance adjustment - Adapts to 40mm dovetail profile		5.190.000
Clamp Handle for Knuckle - Tool-free adjustment - Perfect for laboratory use		10.100.001
V2A Cylinder Head Srew UNC 10-24 3/4" - for Mounting Kit 16 and 17 - Recommended for outdoor use **V2A Cylinder Head Srew UNC 10-24 1/2"** - for Mounting Kit 18, 19, 24 and 26 - Recommended for outdoor use		40.043 40.044

Product	Image	Order Number
Mounting Kit 21 - Parallel mounting pattern - Vertical mounting pattern - 90° image rotation - Working distance adjustment - For Colibri enclosures		5.210.000
Mounting Kit 24 - 360° endlless pan - >35° tilt - 90° image rotation - Working distance adjustment - For Colibri enclosures		5.240.000
Mounting Kit 26 - 360° endless pan - >35° tilt - 90° image rotation - Working distance adjustment - For Colibri enclosures		5.260.000
Mounting Kit 27 - 360° endless pan - 90° image rotation - Working distance adjustment - For Colibri enclosures		5.270.000
Mounting Kit 28 - +/- 90° tilt - 90° image rotation - Working distance adjustment - For Colibri enclosures		5.280.000
Mounting Kit 29 - 360° endless pan - +/- 90° tilt - 90° image rotation - Working distance adjustment - For Colibri enclosures		5.290.000

Wall Mounts

Product	Components	Image	Order Number
Wall Mount 101 (without enclosure) - Parallel mounting - 90° image rotation - Working distance adjustment	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.040.201		7.101.XXX Arm length (mm)
Wall Mount 102 (without enclosure) - Vertical mounting - 90° image rotation - Working distance adjustment	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.044.984		7.102.XXX Arm length (mm)
Wall Mount 106 (without enclosure) - 360° endless pan - 90° image rotation - Working distance adjustment	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.040.860		7.106.XXX Arm length (mm)
Wall Mount 107 (without enclosure) - +/- 8° tilt - 90° image rotation - Working distance adjustment	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.054.638		7.107.XXX Arm length (mm)
Wall Mount 109 (without enclosure) - 360° endless pan - +/- 8° tilt - 90° image rotation - Working distance adjustment	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.054.638 1x 10.040.860		7.109.XXX Arm length (mm)
Wall Mount 115 (without enclosure) - 360° endless pan - 360° endless tilt - 90° image rotation - Working distance adjustment	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 2x 10.040.202 1x 10.045.852		7.115.XXX Arm length (mm)
Wall Mount 117 (without enclosure) - 360° endless pan - >120° tilt - 90° image rotation - Working distance adjustment	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 5.170.000		7.117.XXX Arm length (mm)

Wall Mounts for Colibri enclosures

Product	Components	Image	Order Number
Wall Mount 121 (without enclosure) - Parallel mounting - 90° image rotation - Working distance adjustment - For Colibri enclosures	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.062.979		7.121.XXX Arm length (mm)
Wall Mount 122 (without enclosure) - Vertical mounting - 90° image rotation - Working distance adjustment - For Colibri enclosures	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.062.979 1x 6.036.199 1x 10.062.830		7.122.XXX Arm length (mm)
Wall Mount 126 (without enclosure) - 360° endless pan - >30° tilt - 90° image rotation - Working distance adjustment - For Colibri enclosures	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 5.260.000		7.126.XXX Arm length (mm)
Wall Mount 127 (without enclosure) - 360° endless pan - 90° image rotation - Working distance adjustment - For Colibri enclosures	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.062.979 1x 6.036.199 2x 10.030.202 1x 10.030.857		7.127.XXX Arm length (mm)
Wall Mount 128 (without enclosure) - +/- 90° tilt - 90° image rotation - Working distance adjustment - For Colibri enclosures	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.062.979 1x 6.036.201 1x 10.062.830		7.128.XXX Arm length (mm)
Wall Mount 129 (without enclosure) - 360° endless pan - +/- 90° tilt - 90° image rotation - Working distance adjustment - For Colibri enclosures	1x 6.041.144 2x 10.059.296 1x 1.020.XXX (length in mm) 1x 10.062.979 1x 6.036.199 2x 10.030.202 1x 10.030.857 1x 6.036.201, 1x 10.062.830		7.129.XXX Arm length (mm)
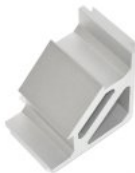
Mounting Brackets

Product	Image	Order Number
Parallel Slim Bracket - Parallel assembly of two dovetail profiles - For 40mm dovetail profile		10.040.201
Parallel Slim Bracket with Hand Knob - Parallel assembly of two dovetail profiles - Tool-free assembly - Perfect for laboratory use - For 40mm dovetail profile		10.054.598
Parallel Slim Bracket Short - Parallel assembly of two dovetail profiles - For lighter objects - For 40mm dovetail profile		10.041.190
Parallel Wide Bracket - Parallel assembly of two dovetail profiles - For 40mm dovetail profile		10.045.942
Adapter Bracket 30mm to 40mm Dovetail Profile - Parallel assembly of a 30mm dovetail profile (Colibri) with a 40mm dovetail profile		10.062.979
Adapter Bracket 20mm to 40mm Dovetail Profile - Parallel assembly of a 20mm dovetail profile (aser enclosure) with a 40mm dovetail profile		10.049.051
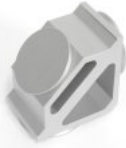
Product	Image	Order Number
Repeatable Position Bracket - Accurate re-positioning of camera enclosures - nables the use of one camera in several positions without re-adjustment - For 40mm dovetail profile		10.044.421

Product	Image	Order Number
Angle Small - For light mechanical stress - For 40mm dovetail profile		10.044.607
Angle Medium - For medium mechanical stress - For 40mm dovetail profile		10.059.296
Angle Large - For heavy mechanical stress - For 40mm dovetail profile		10.059.297
45° Angle - For medium mechanical stress - For 40mm dovetail profile		10.045.241
Adapter Angle M8 to Dovetail Profile - For heavy mechanical stress - For assembly to T-slot profiles or any other environment with M8 screws - For 40mm dovetail profile		10.045.715
Adapter Angle 3x Dovetail Profile - For heavy mechanical stress - For 40mm dovetail profile		10.045.716

Product	Image	Order Number
Rotational Adjustment Angle - Multi-axle, endless 360° rotation - Usable in combination with Rotational Bracket Product Number: 10.040.202 - For 40mm dovetail profile		10.045.852

Product	Image	Order Number
40mm Adapter Plate for 2x M6 CSK Screws - 40mm dovetail profile		6.041.142
64mm Adapter Plate for 2x M6 CSK Screws - 40mm dovetail profile		6.041.141
150mm Adapter Plate for 2x M6 CSK Screws - 40mm dovetail profile		6.041.144
90° Mounting Plate - 40mm dovetail profile		6.046.199
90° Mounting Plate for 2x M6 CSK Screws - 40mm dovetail profile		6.046.200

Adapter Plates/Profiles

Product	Image	Order Number
Tripod Mounting Plate - 1/4" and 3/8" threads - 40mm dovetail profile		6.041.935
Rotational Mounting Disk for 2x M6 CSK Screws - Usable in combination with Rotational Bracket Product Number: 10.040.202		6.042.388
Fine Adjustment Table - +/- 3mm fine adjustment in two axes - Separate locking mechnism - 40mm dovetail profile		6.045.836

Product	Image	Length in mm	Order Number
8 x 40mm Dovetail Profile - Single sided dovetail - Weight: 0.73kg/m - Wx = 0.32cm³ | Wy = 1.36cm³ - Max. length 2000mm - 40mm dovetail		300 500 1000 2000 Individual	1.010.300 1.010.500 1.011.000 1.012.000 1.01X.XXX
12 x 56mm Dovetail Profile - Single sided dovetail - Weight: 1.62kg/m - Wx = 1.04cm³ | Wy = 4.83cm³ - Max. length 2000mm - 40mm dovetail		300 500 1000 2000 Individual	1.050.300 1.050.500 1.051.000 1.052.000 1.05X.XXX
16 x 40mm Dovetail Profile - Double sided dovetail - Weight: 0.98kg/m - Wx = 1.03cm³ | Wy = 1.64cm³ - Max. length 2000mm - 40mm dovetail		300 500 1000 2000 Individual	1.020.300 1.020.500 1.021.000 1.022.000 1.02X.XXX

Product	Image	Length in mm	Order Number
66 x 66mm Light Dovetail Profile - Weight: 2.19kg/m - Wx = Wy = 13.00cm³ - Max. length 3000mm - 40mm dovetail		300 500 1000 2000 Individual	1.070.300 1.070.500 1.071.000 1.072.000 1.07X.XXX
66 x 66mm Stable Dovetail Profile - Weight: 4.00kg/m - Wx = Wy = 23.00cm³ - Max. length 3000mm - 40mm dovetail		300 500 1000 2000 Individual	1.040.300 1.040.500 1.041.000 1.042.000 1.04X.XXX
96 x 96mm Stable Dovetail Profile - Weight: 4.77kg/m - Wx = Wy = 37.82cm³ - Max. length 3000mm - 40mm dovetail		300 500 1000 2000 Individual	1.060.300 1.060.500 1.061.000 1.062.000 1.06X.XXX
Cable Channel - Snap on - Weight: 0.549kg/m - Max. length 2000mm - 40mm dovetail		300 500 1000 2000 Individual	1.080.300 1.080.500 1.081.000 1.082.000 1.08X.XXX

Adapter Plates and Brackets for 30mm Dovetail

Product	Image	Order Number
180° Joint - +/- 90° tilt - 30mm dovetail profile		6.036.201

Product	Image	Order Number
Front Adapter Colibri with 30mm Dovetail - 30mm dovetail profile - Incl. 4x M5 x 20 Torx screws		6.036.200
Angle Small for 30mm Dovetail Profile - For light mechanical stress - For 30mm dovetail profile		10.034.607
Angle Medium for 30mm Dovetail Profile - For lmedium mechanical stress - For 30mm dovetail profile		10.039.296
10 x 44mm Dovetail Profile - Single sided - Weight: 1.06kg/m - Wx = 0.54cm³ | Wy = 2.51cm³ - Max. length 2000mm - 30mm dovetail		1.10X.XXX ength in mm
50 x 50mm Dovetail Profile - Weight: 1.53kg/m - Wx = 7.20cm³ | Wy = 7.20cm³ - Max. length 3000mm - 30mm dovetail		1.09X.XXX ength in mm

Benefits:

- **Robust and cost-effective camera mount**
- **Perfect where no overall IP protection is required**
- **Good heat dissipation**
- **Flexible mounting options**
- **Camera mount included**

Technical Details:
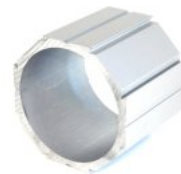
Salamander Mounting Block	
Profile Material	Anodized Aluminum
Dimensions (w x h x l) **60mm Block** **100mm Block** **164mm Block**	66 x 66 x 60mm 66 x 66 x 100mm 66 x 66 x 164mm
Weight **60mm Block** **100mm Block** **164mm Block** (without camera mount)	272g 426g 698g
Order Number **60mm Block** **100mm Block** **164mm Block** (specify camera type)	15.010.060 15.010.100 15.010.164

Orca Mounting Block	
Profile Material	Anodized Aluminum
Dimensions (w x h x l)	96 x 96 x 80mm
Weight (without camera mount)	384g
Order Number (specify camera type)	15.030.080

Assembly example

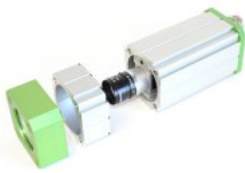# Enclosure Extensions

Benefits:

- **Enables easier lens access**
- **Extension of standard enclosure length**
- **For Salamander and Orca enclosures**
- **Front or backside assembly possible**
- **30mm or 60mm length**
- **IP protection class is conserved**

Technical Details:

30mm Extension for Salamander	
Seal	NBR
Dimensions (w x h x l)	66 x 66 x 30mm 55mm (inner diameter)
Weight	116g
Order Number	15.015.030

60mm Extension for Salamander	
Seals	NBR
Dimensions (w x h x l)	66 x 66 x 60mm 55mm (inner diameter)
Weight	234g
Order Number	15.015.060

30mm Extension for Orca, Mammoth and Chameleon	
Seal	EPDM
Dimensions d x l, without thread)	96 x 30mm 78mm (inner diameter)
Weight	158g
Order Number	15.030.030

60mm Extension for Orca, Mammoth and Chameleon	
Seals	EPDM
Dimensions (d x l, without thread)	96 x 60mm 78mm (inner diameter)
Weight	290g
Order Number	15.030.085

Position Rings and Deflection Mirror

Benefits:

- Precise re-positioning after camera disassembly
- The ring remains inside the enclosure and
  "remembers" the exact position
- For Salamander, Orca, Nautilus, Dolphin und Shark
- Easy handling

Technical Details:

Position Ring for Feuer-/Salamander/Dolphin	
Dimensions (d x l, without screws)	55 x 13mm
Weight	26g
Order Number	20.020.003

Position Ring for Orca/Nautilus/Shark	
Dimensions (d x l, without screws)	85 x 10mm
Weight	38g
Order Number	20.040.002

Benefits:

- Allows image acquisition at limited space
- Suitable for mid and long focal lenses
- Avoids costly prisms
- 4-6λ surface mirror, reflection >90%

Technical Details:

| Deflection Mirror	
Reflection (visible light)	>90%
Dimensions (l x w x h)	168 x 56 x 85mm
Weight	458g
Order Number	20.020.004

Water Cooling System

Benefits:

- Extends the temperature range
  for the use of cameras up
  to -50°C to +200°C
- Automatic cooling and heating
  therefore perfect for the use
  in clima chambers
- High efficiency
- Cooling or heating of up to five enclosures
  with one single Cooling Unit
- Manifold safety features
- No cooling liquid is pumped through the enclosure
  (exeption: Mammoth cooling module)
- Easy handling
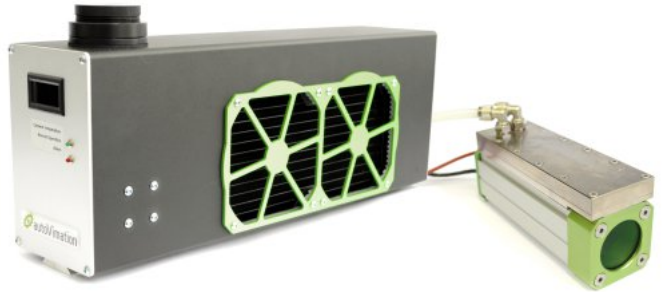
Camera and Laser temperature with water cooling

all values valid for our testing conditions only!
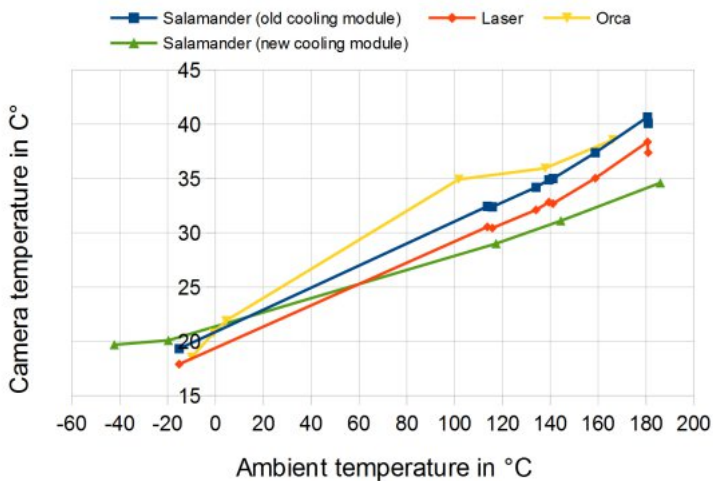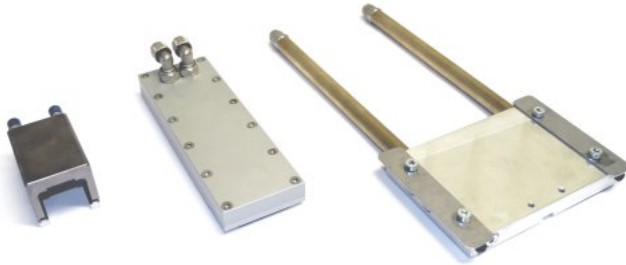
Laser Cooling Module		Standard Cooling Module		Mammoth Cooling Module	
Tube Connectors	4mm	Tube Connectors	1/4" (~8mm)	Tube Connectors	1/4" (~8mm)
Filling Capacity	Approx. 10ml	Filling Capacity	Approx. 40ml	Filling Capacity	Approx. 40ml
Dimensions (l x w x h)	90 x 28 x 35mm	Dimensions (l x w x h)	115 x 44 x 36mm	Dimensions (l x w x h)	115 x 64 x 40mm
Weight	Approx. 150g	Weight	Approx. 650g	Weight	Approx. 1250g
Order Number	60.100.030	Order Number	60.100.010	Order Number	60.100.020

Water Cooling Unit	High Power
Tube Connectors	1/4" (~8mm)
Max. Flow	15l/min
Max. Camera Distance	20m
Max. Pumping Height	5.7m
Input Voltage	12V/DC
Filling Capacity	Approx. 400ml
Max. Power Consumption	Approx. 25W
Max. Switching Power	Approx. 5W
Safety Features (incl. alarm function)	Constant monitoring of: - Camera temperature - Flow and fan
Dimensions (l x w x h)	456 x 105 x 203mm
Weight	Approx. 5.40kg
Order Number	60.101.520

Water Cooling System

Included in the system:
- Water Cooling Unit
- 250ml cooling concentrate
- 6m Polyurethane tube
- 3m high temp. thermometer cable incl. sensor
- 3m DC power cable
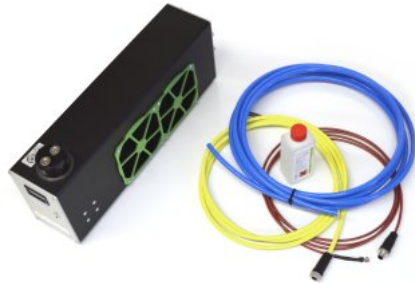
Accessories:

Product	Image	Order Number
8 x 1mm Polyurethane (PU) water tube, -20 to +80°C, filling capacity ~50ml/m, price per meter		60.101.478
6.35 x 9.5mm Polyurethane (PU) water tube, drag chain usable, -20 to +60°C, filling capacity ~40ml/m, price per meter		60.101.474
8 x 1mm Teflon high temperature water tube, -40 to +200°, filling capacity ~50ml/m, price per meter		60.101.477
Fitting to connect two 8 x 1mm water tubes		60.100.501
Quick disconnect coupling for two 8 x 1mm water tubes, 0 – 71°C, max. 8.3bar		60.101.480
Pressure control valve (TÜV safety valve) with connectors		60.101.479
Divider for parallel cooling of camera (8mm tube) and laser (4mm) enclosures		60.100.071
4 x 1mm Polyethylene (PE) water tube (Laser), -20 to +60°C, price per meter		60.101.476
250ml cooling concentrate		60.101.333
Thermometer cable extension (>3m), price per meter		60.100.500
Power supply 12V/DC, 40W, Din rail mount		60.101.422

Controlled Heating Plate

Benefits:

- Controlled heating
- No overheating possible
- Up to two plates with one controller
- Easy handling
- Usable in combination with the sun roof

Product	Image	Order Number
Controlled heating plate for Orca/Gecko/Salamander from size M, IP65, incl. controller, temperature sensor and 5m cable, heats to max. 20°C, 39W, 24V/DC		70.100.011
Set of two heating plates for Orca/Gecko/Salamander from size M, IP65, with one controller and temperature sensor, heats to max. 20°C, 78W, 24V/DC		70.100.012

Sun Roof

Benefits:

- Highly reflective stainless steel
- Insulated to enclosure
- Easy assembly
- Adjustable position
- Usable in combination with electric heating plate
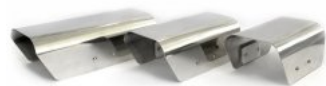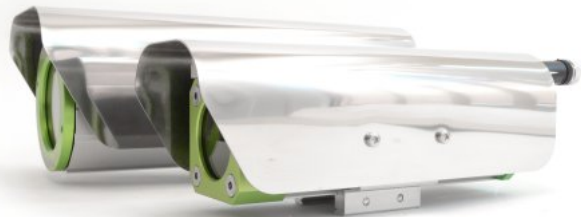
	Sun roof for Salamander and Gecko			Sun roof for Orca		
Size	S	M	L	S	M	L
Length	192mm	245mm	275mm	187mm	237mm	307mm
W x H	108 x 78mm	108 x 78mm	108 x 78mm	140 x 90mm	140 x 90mm	140 x 90mm
Weight	400g	480g	550g	490g	600g	770g
Order Number	20.010.001	20.010.002	20.010.003	20.011.001	20.011.002	20.011.003

Meganova Ringlight

Benefits:

- Onboard flash controller
- Designed for the integration into Orca enclosures
  with 3" window
- Flashing with up to 570% nominal current possible
- Excellent heat dissipation
- Colors: R, G, B, IR, white
- Radiation angles: 14°, 23°, 36°, 76°
- Trigger in-/output
- LED protection due to emergency shut down
- Temperature monitoring possible
- Easy programming due to intuitive application surface

Technical Details:

Operating voltage	24VDC (+-10%)	Pulse Width	50µs - 650ms 10µs steps
Max. Power @permanent operation	12W	Max. Pulse Frquency	1000Hz
Nominal LED Current	350m@100% amplitude	Max. Pulse Delay	10µs
Amplituide Range	50 - 570% (flash)	Max. Jitter Delay	2µs
Trigger Voltage	5-24VDC	Dimensions (d x l)	84.8 x 31mm
Trigger Input Current	10mA	Inner Diameter	36mm
Programming Interface	rs232@9600Baud (TTL level)	Weight	Approx. 150g

Color	Wave Length	Light Current	Light Efficiency	LED Type
Red	623nm	600mW	59%	OSLON SSL80 LR CQ7P
Green	528nm	90lm	87lm/W	OSLON SSL80 LT CQ7P
Blue	470nm	28lm	25lm/W	OSLON SSL80 LB CQ7P
IR	850nm	770mW@1.65W	n/a	SFH 4715A
White 1	4500K	90lm	100lm/W	OSLON SSL80 LCW CR7P.CC
White 2	4500K	144lm	144lm/W	OSLON SSL80GW CS8PM1.PM

Meganova Control User Interface

Order Numbers:

LED Color	Radiation Angle	Order Number	LED Color	Radiation Angle	Order Number
Red	14°	36.634.014	White 1 - CRI>90 - 100lm/W	14°	36.450.014
	23°	36.634.023		23°	36.450.023
	36°	36.634.036		36°	36.450.036
	76°	36.634.076		76°	36.450.076
Green	14°	36.521.014	White 2 - CRI>70 - 144lm/W	14°	36.452.014
	23°	36.521.023		23°	36.452.023
	36°	36.521.036		36°	36.452.036
	76°	36.521.076		76°	36.452.076
Blue	14°	36.465.014	IR	14°	36.860.014
	23°	36.465.023		23°	36.860.023
	36°	36.465.036		36°	36.860.036
	76°	36.465.076		76°	36.860.076

Cables	Order Number
5m Power/Trigger, angled connector	36.200.010
5m Programming, angled connector	36.200.020
5m Power/Trigger, straight connector	36.200.030
5m Programming, straight connector	36.200.040

Lighting Adapters and Mounting Accessories

Benefits:

- Universal plate to mount ring lights into Orca enclosures
- 34mm inner diameter
- For flashing only

Technical Details:

Spider Ring Light Adapter Plate		Mounting Holes	4x 2.2mm
Dimensions (d x h)	85 x 2mm	**Weight**	15g
Inner Diameter	34mm	**Order Number**	30.160.010

Benefits:

- Easy working distance adjustment
- Flexibly combinable
- Robust buildt

Technical Details:

Mounting Arm		Front Threads	2x M4
Dimensions (l x w x h)	175 x 40 x 8mm	**Weight**	126g
		Order Number	30.009.175
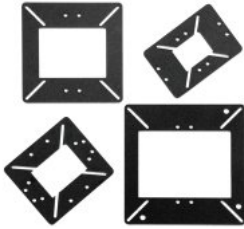
Spider Adapter Plate		
Type	Size	Order Number
Spider 1, M4	70 x 98mm	30.150.011
Spider 2, M4	90 x 98mm	30.150.021
Spider 3, M4	120 x 120mm	30.150.031
Spider 4, M4	144 x 144mm	30.150.041

Spider 1   Spider 2   Spider 3   Spider 4

Aperture: 40 x 30mm   54 x 40mm   80 x 60mm   110 x 80mm

Albatross Adapter Plate		
Type	Size	Order Number
Albatross 1, M4	40 x 58mm	30.200.011
Albatross 2, M4	40 x 128mm	30.200.021
Albatross 3, M4	40 x 158mm	30.200.031

Tools

Tools:

Product	Image	Order Number
Allen Key 4mm, - T-handle - Length = 100mm		90.000.002
Allen Key 4mm, - T-handle - Length = 150mm		90.000.008
Allen Key 3mm, - T-handle - Length = 150mm		90.000.003
Allen Key 3mm, - T-handle - Length = 200mm		90.000.006
Allen Key 3mm, - T-handle - Length 350mm		90.000.007
Allen Key 2.5mm, - T-handle - Length = 100mm		90.000.012

Product	Image	Order Number
Mounting Tool with 4mm pins for Orca and Feuersalamander lids		90.000.004
Spreading Pliers, - helpful for cable inserts		90.000.011
Adjustor, tool for fine adjustment of the rotation angle of an enclosure		90.000.005
Ratched Wrench AF10 - 72 teeth - 5° movement		90.000.009
TX20H bit, - for tamper-proof screws with Torx pin		90.000.010

The Adjustor enables fine tuning of the rotary angle of a camera enclosure

The Spreading Pliers are helpful to insert clables into the cable gland insert

The Mounting Tool helps to tigthen the front and back lids