상세규격서

Mini-Series Kinematic Mount for 12.7 mm Tall Rectangular Optics, Right Handed, M3 Taps Kinematic Mount for 12.7 mm Tall Rectangular Optics, Left Handed, ea 2 Kinematic Mount for 12.7 mm Tall Rectangular Optics, Left Handed, ea 2 Mini-Series Adjustable Clamping Arm, M3 Threaded Post ea 8 Cage Rotation Mount for 01" Optics, SM1 Threaded, M4 Tap ea 8 Cage Rotation Mount for 01" Optics, Double Bored with Setscrew, M4 Tap ea 6 Cage Rotation Mount for 01" Optics, Double Bored with Setscrew, M4 Tap ea 6 Prism Mount Accessory for K8X5 6-Axis Mount, Metric ea 8 Mini-Series Kinematic Prism Mount, M3 Taps ea 9 Mini-Series Kinematic Prism Mount, M3 Taps ea 9 Mini-Series Kinematic Prism Mount, M3 Taps ea 9 Mini-Series Kinematic Prism Mount For 10 Time M3 Time M	구분	품명	단위	수량	비고
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Compact Cage Assembly Rod, 1.5" Long, Ø4 mm, 4 Pack Compact Cage Assembly Rod, 2" Long, Ø4 mm, 4 Pack Compact Cage Assembly Rod, 3" Long, Ø4 mm, 4 Pack Compact Cage Assembly Rod, 3" Long, Ø4 mm, 4 Pack Compact Cage Assembly Rod, 4" Long, Ø4 mm, 4 Pack Compact Cage Assembly Rod, 4" Long, Ø4 mm, 4 Pack and a seminary and a seminar	18	Compact Cage Assembly Rod, 1" Long, Ø4 mm, 4 Pack	ea	2	
Compact Cage Assembly Rod, 2" Long, Ø4 mm, 4 Pack 21 Compact Cage Assembly Rod, 3" Long, Ø4 mm, 4 Pack 22 Compact Cage Assembly Rod, 4" Long, Ø4 mm, 4 Pack 23 30 mm Cage Cube with Dichroic Filter Mount 24 Ø1" Aspheric Lens, f = 79.0 mm, NA = 0.143, Uncoated 25 Ø25.0 mm UVFS Aspheric Lens, f = 20.0 mm, NA = 0.65, Uncoated 26 M6 x 1.0 Stainless Steel Cap Screw, 10 mm Long, 25 Pack 27 12.7 mm Dovetail Translation Stage, M4 Taps 28 Angle Bracket for DT12 Stages 29 Basler Ace acA4024-29um USB 3.0 Monochrome Camera 30 1" Polarizing Beamsplitter Cube, 420 - 680 nm 20 92 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter 21 ea 4 22 ea 6	19	Compact Cage Assembly Rod, 1.5" Long, Ø4 mm, 4 Pack	ea	4	
Compact Cage Assembly Rod, 3" Long, Ø4 mm, 4 Pack 22 Compact Cage Assembly Rod, 4" Long, Ø4 mm, 4 Pack 23 30 mm Cage Cube with Dichroic Filter Mount 24 Ø1" Aspheric Lens, f = 79.0 mm, NA = 0.143, Uncoated 25 Ø25.0 mm UVFS Aspheric Lens, f = 20.0 mm, NA = 0.65, Uncoated 26 M6 x 1.0 Stainless Steel Cap Screw, 10 mm Long, 25 Pack 27 12.7 mm Dovetail Translation Stage, M4 Taps 28 Angle Bracket for DT12 Stages 29 Basler Ace acA4024–29um USB 3.0 Monochrome Camera 30 1" Polarizing Beamsplitter Cube, 420 – 680 nm ea 4 31 110 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter ea 6	20	Compact Cage Assembly Rod, 2" Long, Ø4 mm, 4 Pack	ea	4	
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28 Angle Bracket for DT12 Stages ea 2 29 Basler Ace acA4024-29um USB 3.0 Monochrome Camera ea 1 30 1" Polarizing Beamsplitter Cube, 420 - 680 nm ea 4 31 110 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter ea 10 32 92 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter ea 6	27		ea	4	
29Basler Ace acA4024-29um USB 3.0 Monochrome Cameraea1301" Polarizing Beamsplitter Cube, 420 - 680 nmea431110 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitterea103292 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitterea6	28		ea	2	
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32 92 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter ea 6	30		ea	4	
32 92 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter ea 6	31	110 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter	ea	10	
	32	92 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter	ea	6	
	33			6	

1. 주요규격

- 1-1. Mini-Series Kinematic Mount for 12.7 mm Tall Rectangular Optics, Right Handed, M3 Taps
 - Hold 1/2" Tall Square or Rectangular Optics Using a Nylon-Tipped Setscrew
 - Compact Nominal Footprint: 0.80" x 0.62" (20.2 mm x 15.8 mm)
 - Resolution: 13.4 mrad (0.76°) per Revolution via Two M2.5 x 0.20 Precision Adjusters
 - Two 4-40 (M3) Mounting Holes Enable Mini-Series Post Mounting
 - 모델 사진



- 1-2. Kinematic Mount for 12.7 mm Tall Rectangular Optics, Right Handed, M4 Tap
 - Hold 1/2" Tall Square or Rectangular Optics
 - ±4° Tip/Tilt Adjustment Range
 - 13 mrad per Adjuster Revolution
 - Two 8-32 (M4) Taps for Ø1/2" Posts
 - 모델 사진



- 1-3. Kinematic Mount for 12.7 mm Tall Rectangular Optics, Left Handed, M4 Tap
 - Hold 1/2" Tall Square or Rectangular Optics
 - ±4° Tip/Tilt Adjustment Range
 - 13 mrad per Adjuster Revolution
 - Two 8-32 (M4) Taps for Ø1/2" Posts
 - 모델 사진



- 1-4. Mini-Series Adjustable Clamping Arm, M3 Threaded Post
 - Provide Clamping Force for Our Platform Mounts
 - Extension Posts Available to Increase Max Optic Height
 - Max Optic Height: 0.23" (6.3 mm)
 - Clamping Distance: 0.37" (9.4 mm)
 - Post Thread: 4-40 (M3 x 0.5)
 - 모델 사진



- 1-5. Cage Rotation Mount for Ø1" Optics, SM1 Threaded, M4 Tap
 - 360° of Continuous Rotation, Lockable
 - 2° Graduations on Dial, Labeled Every 20°
 - Accepts Ø1" (Ø25.4 mm) Optics
 - Maximum Optic Thickness: 0.37" (9.4 mm)
 - 8-32 (M4) Tapped Mounting Hole to Mount on TR Series Posts
 - 모델 사진



- 1-6. Cage Rotation Mount for Ø1" Optics, Double Bored with Setscrew, M4 Tap
 - 360° of Continuous Rotation, Lockable
 - 2° Graduations on Dial, Labeled Every 20°
 - Accepts Ø1" (Ø25.4 mm) Optics
 - Maximum Optic Thickness: 0.31" (7.9 mm)
 - 8-32 (M4) Tapped Mounting Hole to Mount on TR Series Posts
 - 모델 사진



- 1-7. Prism Mount Accessory for K6XS 6-Axis Mount, Metric
 - Mounts on the Face of the K6XS Translating Cell
 - 0.5" x 1.68" (12.7 mm x 42.7 mm) Platform
 - 1/4" (6 mm) Adjustment Range
 - Designed to be mounted on the rotation ring on the K6XS 6-axis kinematic mount and cage-compatible rotation mounts using the included 4-40 screws and hex key
 - 모델 사진



- 1-8. Mini-Series Kinematic Prism Mount, M3 Taps
 - Mounting Platform(Maximum Depth / Tapped Holes): 0.74" (18.7 mm) / 4-40 (M3) (3 Places)
 - Adjuster Thread: M2.5 x 0.20
 - Adjustment Per Revolution: 13.4 mrad
 - Post Mounting: 4-40 (M3) Tapped Through Hole (2 Places)
 - 모델 사진



- 1-9. 30 mm Cage Mounting Bracket
 - Compatible with 30 mm Cage Systems
 - Cage Rods (Not Included) are Locked into Place with Top-Located Setscrews [5/64" (2.0 mm Hex)]

- Brackets Offer Clearance for SM1 Lens Tubes
- Allow secure mounting into a larger system
- 모델 사진



1-10. 30 mm Cage Mounting Bracket with M4 Captive Screw

- Compatible with 30 mm Cage Systems
- Cage Rods (Not Included) are Locked into Place with Top-Located Setscrews [5/64" (2.0 mm Hex)]
- Brackets Offer Clearance for SM1 Lens Tubes
- Includes a low-profile, captive 8-32 (M4 x 0.7) mounting screw with a 5/64" (2.0 mm) hex in its one mounting hole that protrudes 0.22" (5.0 mm) below the bracket
- 모델 사진



1-11. 60 mm Cage Mounting Bracket

- 60 mm Cage System Compatible
- Firmly Lock onto Ø6.0 mm ER Rods with Flexure Locking Design
- Allow 60 mm Cage Systems to be incorporated into other optomechanical assemblies
- Three #8 (M4) counterbored holes for post mounting
- 모델 사진



1-12. 60 mm Cage Mounting Bracket with M4 Captive Screw

- 60 mm Cage System Compatible
- Firmly Lock onto Ø6.0 mm ER Rods with Flexure Locking Design
- Allow 60 mm Cage Systems to be incorporated into other optomechanical assemblies
- Includes a low-profile, captive 8-32 (M4 x 0.7) mounting screw with a 5/64" (2.0 mm)

hex in its one mounting hole that protrudes 0.22" (5.0 mm) below the bracket

- 모델 사진



1-13. Adapter with External SM1 Threads and Internal SM05 Threads, 0.15" Long

- Typical Application : Step Up/Down Lens Tube Size

External Threads : SM1 (1.035"-40)Internal Threads : SM05 (0.535"-40)

- 모델 사진



1-14. 30 mm to 16 mm Cage Adapter Plate, M4 Tap

- Couples 16 mm to 30 mm Cage Systems
- Accepts ER and SR Series Rods
 - · Four 0.05" (1.3 mm) Hex, 4-40 Locking Screws for SR Series Rods
 - · Four 5/64" (2.0 mm) Hex, M4 x 0.7 Locking Screws for ER Series Rods
- Tapped with Our Standard SM05 Thread (0.535"-40)
- 8-32 (M4 x 0.7) Tapped Hole for Mounting to Ø1/2" Posts
- 모델 사진



- 1-15. Ø1/2" (12.7 mm) Stainless Steel Precision Pinhole Kit, Ø30 μm to Ø500 μm
 - Stainless Steel Foils are Blackened on Both Sides for Increased Absorbance
 - Ø1/2" or Ø1" Black-Anodized Aluminum Housings Engraved with Item #
 - Pinhole Diameter (Item #) of Included Parts
 - Ø 30 um (P30HK)
 - Ø 40 um (P40HK)
 - Ø 50 μm (P50HK)
 - Ø 75 µm (P75HK)
 - Ø100 μm (P100HK)
 - Ø 150 μm (P150HK)
 - Ø 200 um (P200HK)
 - Ø 300 μm (P300HK)
 - Ø 400 μm (P400HK)
 - Ø 500 um (P500HK)
 - 모델 사진



- 1-16. 16 mm Cage Rotation Mount for Ø1/2" Optics
 - Mount Ø1/2" Optics up to 0.24" Thick in a 16 mm Cage System
 - 360° Continuous Rotation Lockable via 0.05" (1.3 mm) Hex Setscrew
 - 2° Graduations on Dial
 - Rotation Carriage with SM05 (0.535"-40) Threads
 - 모델 사진



- 1-17. Compact Cage Assembly Rod, 1/2" Long, Ø4 mm, 4 Pack
 - For use with 16 mm Compact Cage Systems
 - Available in Lengths Ranging 1/2"
 - Ø4 mm Precision-Ground Stainless Steel Rods

- 4-40 Removable Setscrew at Both Ends
- 모델 사진



- 1-18. Compact Cage Assembly Rod, 1" Long, Ø4 mm, 4 Pack
 - For use with 16 mm Compact Cage Systems
 - Available in Lengths Ranging 1"
 - Ø4 mm Precision-Ground Stainless Steel Rods
 - 4-40 Removable Setscrew at Both Ends
 - 모델 사진



- 1-19. Compact Cage Assembly Rod, 1.5" Long, Ø4 mm, 4 Pack
 - For use with 16 mm Compact Cage Systems
 - Available in Lengths Ranging 1.5"
 - Ø4 mm Precision-Ground Stainless Steel Rods
 - 4-40 Removable Setscrew at Both Ends
 - 모델 사진



- 1-20. Compact Cage Assembly Rod, 2" Long, Ø4 mm
 - For use with 16 mm Compact Cage Systems
 - Available in Lengths Ranging 2"
 - Ø4 mm Precision-Ground Stainless Steel Rods
 - 4-40 Removable Setscrew at Both Ends
 - 모델 사진



- 1-21. Compact Cage Assembly Rod, 3" Long, Ø4 mm, 4 Pack
 - For use with 16 mm Compact Cage Systems
 - Available in Lengths Ranging 3"
 - Ø4 mm Precision-Ground Stainless Steel Rods
 - 4-40 Removable Setscrew at Both Ends
 - 모델 사진



- 1-22. Compact Cage Assembly Rod, 4" Long, Ø4 mm, 4 Pack
 - For use with 16 mm Compact Cage Systems
 - Available in Lengths Ranging 4"
 - Ø4 mm Precision-Ground Stainless Steel Rods
 - 4-40 Removable Setscrew at Both Ends
 - 모델 사진



1-23. 30 mm Cage Cube with Dichroic Filter Mount (Metric)

- Mount Rectangular Dichroic Mirrors and Other Optics up to 3 mm Thick
- Four SM1-Threaded (1.035"-40) Through Ports for Emission and Excitation Filter Attachment
- 30 mm Cage System Compatible
- CM1-DCH cubes have four 4-40-threaded holes on each face for 30 mm cage system integration and are post mountable via an 8-32 (M4) tap
- 모델 사진



1-24. Ø1" Aspheric Lens, f = 79.0 mm, NA = 0.143, Uncoated

- Effective Focal Length(EFL): 79.0 mm

- Numerical Aperture(NA): 0.143

- Outer Diameter of Unmounted Lens(OD): 1.00"

- Clear Aperture(CA) : >90% of OD - Working Distance(WD) : 74.84 mm

- Design Wavelength(DW): 780 nm

- Wavefront Error(WFE): Diffraction Limited for Discrete Wavelengths from 350 to 1620 nm

- Refractive Index(n): 1.459

- f/# : 3.11

- Substrate : UV Fused Silica

- 모델 사진



1-25. Ø 25.0 mm UVFS Aspheric Lens, f = 20.0 mm, NA = 0.65, Uncoated

- Outer Diameter(OD): 25.00 mm

- Effective Focal Length(EFL): 20.0 mm

- Working Distance(WD): 9.9 mm

- Collimation(Aspheric Side) / Focusing(Plano Side) Clear Aperture : Ø22.86 mm / Ø17.4 mm

- Center Thickness / Edge Thickness: 14.90 mm / 3.6 mm

- 모델 사진



1-26. M6 x 1.0 Stainless Steel Cap Screw, 10 mm Long, 25 Pack

- Total Shank Length: 10 mm (0.39")

- Threaded Length: 10 mm (0.39")

- Hex : 5 mm

- Material: 18-8 Stainless Steel

- Quantity: 25

- 모델 사진



1-27. 12.7 mm Dovetail Translation Stage, M4 Taps

- Travel Range 0.5" (12.7 mm)
- Travel per Revolution 0.014" (0.35 mm)
- Single-Axis Dovetail Translation Stage

- Bottom-Located 8-32 (M4) Tap for Ø1/2" Post Compatibility
- Top-Located 8-32 (M4) Tap for Mounting Components
- Lockable Moving Platform
- 모델 사진



1-28. Angle Bracket for DT12 Stages

- DT12A Angle Bracket Mounts Two DT12 Stages Perpendicular to One Another
- The DT12A Angle Bracket, which is compatible with both imperial and metric stages, allows two stages to be mounted perpendicular to each other
- This bracket is required when assembling stages in an XZ, YZ, or XYZ configuration and is attached to the stages using the two supplied 8-32 (M4) countersunk screws
- 모델 사진



1-29. Basler Ace acA4024-29um USB 3.0 Monochrome Camera

- Type : Monochrome Camera

- Imaging Sensor : Sony IMX226

- Type of Sensor: Progressive Scan CMOS

- Type of Shutter: Rolling

- Pixels (H x V) : 4,024 x 3,036

- Pixel Size, H x V (μ m) : 1.85 x 1.85

- Sensing Area, H x V (mm) : 7.44 x 5.62

- Frame Rate (fps) : 31.00

- Interface Port Orientation : Back Panel

- Dynamic Range (dB): 70.3

- 모델 사진



1-30. 1" Polarizing Beamsplitter Cube, 420 - 680 nm

- Cube Size : 1" x 1" x 1" (25.4 mm x 25.4 mm x 25.4 mm)

- Wavelength Range : 420 - 680 nm

- Material : N-SF1

- Transmission : $T_P > 90\%$ - Reflection : Rs, Avg > 95%

- Surface Quality: 40-20 Scratch-Dig

- 모델 사진



1-31. 110 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter

- Groove Density (grooves/mm): 110

- Design Wavelength DWL (nm): 632.8

- Dimensions (mm) : 25.0 x 25.0 \pm 0.5

- Construction : Blazed Grating

- Length (mm): 25.00

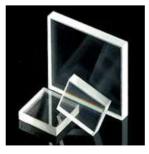
- Substrate: B270

- Thickness (mm) : 3.00 ± 0.5

- Type: Transmission Diffraction Grating

- Width (mm): 25.00

- 모델 사진



1-32. 92 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter

- Groove Density (grooves/mm): 92

- Design Wavelength DWL (nm): 632.8

- Dimensions (mm) : 25.0 x 25.0 \pm 0.5

- Construction : Blazed Grating

- Length (mm) : 25.00

- Substrate: B270

- Thickness (mm) : 3.00 ± 0.5

- Type: Transmission Diffraction Grating

- Width (mm): 25.00

- 모델 사진



1-33. 80 Grooves/mm, 25mm Sq, Transmission Grating Beamsplitter

- Groove Density (grooves/mm): 80

- Design Wavelength DWL (nm): 632.8

- Dimensions (mm) : 25.0 x 25.0 \pm 0.5

- Construction : Blazed Grating

- Length (mm): 25.00

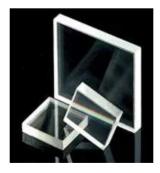
- Substrate : B270

- Thickness (mm) : 3.00 ± 0.5

- Type: Transmission Diffraction Grating

- Width (mm): 25.00

- 모델 사진



2. 기타사항

가. 납품위치 : 경북 구미시 구미대로 350-27 XR 디바이스 개발 지원센터 207호

나. 납품개요 : 규격서의 조건에 맞는 시제품 납품

- 다. 납품기한 : 계약일로 부터 30일 이내
- 라. 계약의 이행
 - 1) 본 규격서에 대한 주계약자(이하 "계약자"라 한다)와 발주기관 간의 해석상 이견은 발주 기관의 해석에 따라야 하며, 본 규격서에 특별히 명시되지 않은 사항은 정부계약법 등의 규정과 일반 관례에 따른다.
 - 2) 발주기관은 계약내용 전부에 대한 권리를 행사할 수 있으며 계약자는 이에 대하여 전적으로 동의해야 한다.
 - 3) 본 규격서에 명시된 모든 조항은 본 사업의 원활한 추진에 필요한 최소한의 사항만을 규정하였으므로 상세히 기술하지 않았거나 누락된 사항에 대해서도 정상운영 및 서비스에 문제가 발생되지 않도록 계약자는 사전 조치를 취하여야 한다.
- 4) 본 규격서에서 요구하는 성능 및 특성에 대해 계약자의 오인 또는 누락된 상태로 계약 체결되어, 계약 후 이를 보완하기 위한 설계 변경, 물품 등을 추가해야 할 경우 계약자 부담으로 시행한다.
- 5) 계약자는 공급하는 제품의 성능, 품질 등에 대한 최종적인 책임을 진다.
- 마. 하자보증기간 : 납품 후 1년
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