

상 세 규 격 서

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상 세 내 역

1. 구성

1. N-BK7 Plano-Convex Lens Ø1", f = 30mm, AR Coating: 350~700nm
2. N-BK7 Plano-Convex Lens Ø1", f = 60mm, AR Coating: 350~700nm
3. N-BK7 Plano-Convex Lens Ø1", f = 50mm, AR Coating: 350~700nm
4. N-BK7 Plano-Convex Lens Ø1", f = 75mm, AR Coating: 350~700nm
5. N-BK7 Plano-Convex Lens Ø2", f = 100mm, AR Coating: 350~700nm
6. N-BK7 Plano-Convex Lens Ø2", f = 175mm, AR Coating: 350~700nm
7. N-BK7 Plano-Convex Lens Ø2", f = 200mm, AR Coating: 350~700nm
8. N-BK7 Plano-Convex Lens Ø2", f = 250mm, AR Coating: 350~700nm
9. N-BK7 Plano-Convex Lens Ø2", f = 300mm, AR Coating: 350~700nm
10. N-BK7 Plano-Convex Lens Ø2", f = 400mm, AR Coating: 350~700nm
11. N-BK7 Plano-Convex Lens Ø2", f = 500mm, AR Coating: 350~700nm
12. N-BK7 Plano-Convex Lens Ø2", f = 750mm, AR Coating: 350~700nm
13. Lens Mount with Retaining Ring for Ø1" Optics, M4 Tap, 5 Pack

14. Lens Mount with Retaining Ring for Ø2" Optics, M4 Tap, 5 Pack
15. Ø1" Broadband Dielectric Mirror, 400 - 750 nm, 10 Pack
16. Kinematic Mirror Mount for Ø1" Optics
17. 1.4 Megapixel Mini Industrial USB 2.0 Camera, Mono
18. Mounted Standard Iris, Ø25 mm Max Aperture, TR75/M Post
19. Mounted Standard Iris, Ø36 mm Max Aperture, TR75/M Post
20. M6 x 1.0 Stainless Steel Cap Screw, 12 mm Long, 25 Pack
21. M6 x 1.0 Stainless Steel Cap Screw, 16 mm Long, 25 Pack
22. 20X Olympus Plan Achromat Objective, 0.4 NA, 1.2 mm WD
23. Translating Lens Mount for Ø1" Optics, 1 Retaining Ring Included, Metric
24. 5-Axis Locking Kinematic Mount for Ø1" Optics

2. 구성

1. N-BK7 Plano-Convex Lens Ø1", $f = 30\text{mm}$, AR Coating: 350~700nm
 - Item # : LA1805-A
 - Diameter : 1"
 - Focal length : 30mm
 - Radius of curvature : 15.5mm
2. N-BK7 Plano-Convex Lens Ø1", $f = 60\text{mm}$, AR Coating: 350~700nm
 - Item # : LA1134-A
 - Diameter : 1"
 - Focal length : 60mm
 - Radius of curvature : 30.9mm
3. N-BK7 Plano-Convex Lens Ø1", $f = 50\text{mm}$, AR Coating: 350~700nm
 - Item # : LA1131-A
 - Diameter : 1"
 - Focal length : 50mm
 - Radius of curvature : 25.8mm
4. N-BK7 Plano-Convex Lens Ø1", $f = 75\text{mm}$, AR Coating: 350~700nm
 - Item # : LA1608-A
 - Diameter : 1"
 - Focal length : 75mm
 - Radius of curvature : 38.6mm
5. N-BK7 Plano-Convex Lens Ø2", $f = 100\text{mm}$, AR Coating: 350~700nm
 - Item # : LA1509-A
 - Diameter : 1"

- Focal length : 100mm
 - Radius of curvature : 51.5mm
6. N-BK7 Plano-Convex Lens Ø2“, f = 175mm, AR Coating: 350~700nm
- Item # : LA1229-A
 - Diameter : 1”
 - Focal length : 175mm
 - Radius of curvature : 90.1mm
7. N-BK7 Plano-Convex Lens Ø2“, f = 200mm, AR Coating: 350~700nm
- Item # : LA1708-A
 - Diameter : 1”
 - Focal length : 200mm
 - Radius of curvature : 103mm
8. N-BK7 Plano-Convex Lens Ø2“, f = 250mm, AR Coating: 350~700nm
- Item # : LA1461-A
 - Diameter : 1”
 - Focal length : 250mm
 - Radius of curvature : 128.8mm
9. N-BK7 Plano-Convex Lens Ø2“, f = 300mm, AR Coating: 350~700nm
- Item # : LA1484-A
 - Diameter : 1”
 - Focal length : 300mm
 - Radius of curvature : 154.5mm
10. N-BK7 Plano-Convex Lens Ø2“, f = 400mm, AR Coating: 350~700nm
- Item # : LA1172-A
 - Diameter : 1”
 - Focal length : 400mm
 - Radius of curvature : 206mm
11. N-BK7 Plano-Convex Lens Ø2“, f = 500mm, AR Coating: 350~700nm
- Item # : LA1908-A
 - Diameter : 1”
 - Focal length : 500mm
 - Radius of curvature : 257.5mm
12. N-BK7 Plano-Convex Lens Ø2“, f = 750mm, AR Coating: 350~700nm
- Item # : LA1978-A
 - Diameter : 1”
 - Focal length : 750mm

- Radius of curvature : 386.3mm
13. Lens Mount with Retaining Ring for Ø1" Optics, M4 Tap, 5 Pack
 - Item # : LMR1/M-P5
 - Diameter : 1"
 - Max Optic Thickness : 7.1mm
 - Optical Height : 22.1mm
 14. Lens Mount with Retaining Ring for Ø2" Optics, M4 Tap, 5 Pack
 - Item # : LMR2/M-P5
 - Diameter : 2"
 - Max Optic Thickness : 9.2mm
 - Optical Height : 34.3mm
 15. Ø1" Broadband Dielectric Mirror, 400~750nm, 10 Pack
 - Round Mirror Diameters : 1"
 - Four Broadband Coating Options : 400 - 750 nm
 - Fused Silica Substrates : $R_{avg} > 99\%$ for S- and P- Polarization
 16. Kinematic Mirror Mount for Ø1" Optics
 - Front Surface of Mirror Aligned with Post-Mounting Hole to Simplify Beam Alignment
 - Rear Loaded Double-Bored Mounting Cell with Nylon-Tipped Set Screw Secures Optic
 - Mounts Ø1" Optics at Least 3 mm (0.12") Thick
 - 5/64" (2.0 mm) Hex Sockets in Lead Screws Accessible With or Without Knobs Removed
 17. 1.4 Megapixel Mini Industrial USB 2.0 Camera, Mono
 - Model : LM135
 - Image Sensor : Sony Super HAD ICX205, 1/2" format, color or mono, 6.5 x 4.8 mm array
 - Effective Pixels : 1392 x 1040, 4.65µm square pixels
 - Frame Rate : 15 fps at 1392 x 1040, 30 fps at 640 x 480
 - Dynamic Range : High
 18. Mounted Standard Iris, Ø25 mm Max Aperture, TR75/M Post
 - Item # : ID25/M
 - Aperture : 1"
 - # of leaves : 14
 19. Mounted Standard Iris, Ø36 mm Max Aperture, TR75/M Post
 - Item # : ID36/M

- Aperture : 1.3"
 - # of leaves : 16
20. M6 x 1.0 Stainless Steel Cap Screw, 12 mm Long, 25 Pack
- Item # : SH6MS12
 - Total shank length : 12mm
 - Threaded Length : 12mm
21. M6 x 1.0 Stainless Steel Cap Screw, 16 mm Long, 25 Pack
- Item # : SH6MS16
 - Total shank length : 16mm
 - Threaded Length : 16mm
22. 20X Olympus Plan Achromat Objective, 0.4 NA, 1.2 mm WD
- Item # : RMS20X
 - WD : 1.2mm
 - EFL : 9mm
 - NA : 0.4
23. Translating Lens Mount for Ø1" Optics, 1 Retaining Ring Included, Metric
- Item # : LM1XY/M
 - Travel : 0.04"
 - Drive Type : M3 Adjustment screw
24. 5-Axis Locking Kinematic Mount for Ø1" Optics
- Five Axes of Lockable Adjustment
 - Pitch/Yaw: $\pm 4^\circ$ at 8 mrad/rev
 - X and Y Translation: $\pm 0.04"$ (± 1.0 mm) at 254.0 $\mu\text{m}/\text{rev}$
 - Z Translation: $\pm 0.13"$ (± 3.2 mm) at 318 $\mu\text{m}/\text{rev}$
 - SM1-Threaded (1.035"-40) Bore for Ø1" (25 mm) Optics up to 0.38" Thick
 - Two #8 (M4) Counterbores for Post Mounting
 - Compact Size: 2.54" x 2.54" x 2.10" (64.4 mm x 64.4 mm x 53.3 mm)

3. 기타사항

가. 설치위치 : 경북 구미시 구미대로 350-27 3D디스플레이 부품소재실용화지원센터 106호

나. 설치개요 : 규격서의 조건에 맞는 광학 소자 납품

다. 납품기한 : 계약일로 부터 90일 이내

라. 계약의 이행

- 1) 본 규격서에 대한 주계약자(이하 "계약자" 라 한다)와 발주기관 간의 해석상 이견은 발주기관의 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 전

적으로 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.

4. 기타조건

가. 납품기한 : 계약 후 90일 이내

나. 규격관련 문의사항 : 실감미디어연구센터 우성수 선임연구원(054-460-9092)