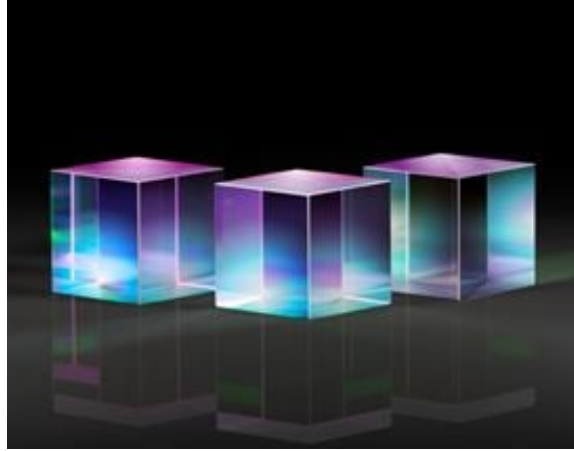


12.7mm 815nm, Polarizing Cube Beamsplitter

#72-220



해당 제품은 트랩 이온, 선형 광학, 중성 원자 양자 컴퓨팅 및 양자 암호화 & 통신 어플리케이션에서 사용하기에 적합합니다. 여러 어플리케이션에서 보편적으로 사용되는 이온(이터븀/스트론튬/칼슘)의 주요 파장을 포괄하는 UV-NIR 스펙트럼을 활용하며 리드버그 여기(Rydberg excitation), 도플러 냉각(Doppler cooling)은 물론 라만 효과, 이온 트래핑(trapping) 등에 의한 작업을 수행할 수 있습니다.

해당 제품은 S-편광 빛에 대해서는 99.5%가 넘는 반사율을, P-편광 빛에 대해서는 96%가 넘는 투과율을 제공합니다. 컴팩트한 12.7mm 큐브 구조로 이루어진 제품이며, 벤치탑 어플리케이션이나 OEM 디바이스에 쉽게 통합할 수 있고 시스템 공간을 절약하는 데 도움이 됩니다. 해당 제품은 온도 안정성이 높은 용융 실리카 기판이 특징이며, 설계 파장에서 투과율이 최대가 되도록 무반사(AR) 코팅 처리가 되어 있어 저조도 신호에서 최적의 성능을 보장합니다. 서로 접합된 한 쌍의 정밀 직각 프리즘으로 구성되어 $\lambda/6$ 의 표면 평탄도와 20-10의 표면 품질을 제공합니다. 에드몬드옵틱스는 Half Waveplate for Quantum Computing도 보유하고 있으며, 두 제품 모두 특정 파장 대역에 맞는 설계가 가능합니다.

General

Type: Linear Polarizer

Physical & Mechanical Properties

Bevel:	Protective bevel as needed
Clear Aperture CA (mm):	>90
Construction:	Cube
Dimensions (mm):	12.7 x 12.7 x 12.7 +0.0/-0.3

Optical Properties

Beam Deviation (arcmin):	<3
Design Wavelength DWL (nm):	815
Extinction Ratio:	>1000:1
P-Polarization Transmission (%):	>96
S-Polarization Reflection (%):	>99.5
Substrate:	Fused Silica
Surface Flatness (P-V):	$\lambda/6$ @ 632.8nm
Surface Quality:	20-10
Wavelength Range (nm):	810 - 825



June 21, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
72-220	12.7mm 815nm, Polarizing Cube Beamsplitter

This item is EU RoHS (2015/863/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance

June 21, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | Compliance@edmundoptics.com



June 21, 2025

재고 번호

72-220

제품설명

12.7mm 815nm, Polarizing Cube Beamsplitter

Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations



June 21, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
72-220	12.7mm 815nm, Polarizing Cube Beamsplitter

This item does not contain any of the substances listed on the Reach SVHC list as of 21 January 2025 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts "non-hazardous" glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance
June 21, 2025

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