



Content of the slide

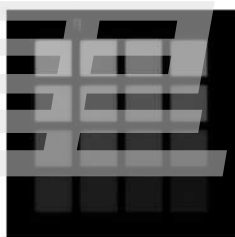
Each Argo-LM slide contains 5 fluorescent patterns.



3D Crossing stairs

PAT-AG03-EM3-I9

This pattern, consists of twice 21 empty cylinders embedded at different depths, like two crossing stairs, with a step of 2.5 μm and surrounded by four pillars.



4x4 Intensity gradation

PAT-AG03-EM3-C3

This pattern consists of two layers of sixteen 100 μm - wide squares, on top of each other, having different fluorescence intensity levels following a linear



Field of rings

PAT-AG03-EM3-B3

This pattern consists of a matrix of 53x53 rings, separated by 50 μm , on a total field of 2600 μm x 2600 μm . The field of rings is surrounded by eight landmarks



Repositioning crosses

PAT-AG03-EM1-H3

The repositioning crosses are 40 μm long.



Word Argolight

PAT-AG03-EM3-J3

This pattern consists of the letters forming the company name "Argolight", rotated by 180° around the horizontal axis, and surrounded by a 220 μm x 50 μm frame.

上海昊量光电设备有限公司
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Lifetime warrantied fluorescence presence

Dimensions:75x25x1.5 mm

Materials:Anodized aluminum enclosure with an AG03 glass core

Excitation range:continuum 250-650 nm

Emission range:continuum from the excitation wavelength plus 15 nm,to 800 nm

Immersion medium compatibility:dry, oil: no limitation,water objectives: less than 20 min at a time


















Storage conditions:room temperature (10-40 °C)and under normal relative humidity(20-70 % RH)

Imaging technology compatibility:any fluorescence-based imaging except depletion-based technology and multiphoton imaging

Light exposure damage threshold:50 GW/cm² irradiance (peak or average)

Analyze

More than 12 automated quality tests, several tens of relevant metrics.

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|---|---|--|---|--|---|
|  FIELD UNIFORMITY |  FIELD DISTORTION |  LATERAL CO- REGISTRATION ACCURACY |  LINE SPREAD FUNCTION |  RING SPREAD FUNCTION |  LATERAL RESOLUTION |
|  OPTICAL SECTIONING STRENGTH |  STAGE REPOSITIONING REPEATABILITY |  STAGE DRIFT DURING TIMELAPSE |  STAGE DRIFT DURING Z STACKING |  ACCURACY OF 3D RECONSTRUCTION |  INTENSITY RESPONSE |
|  SPECTRAL RESPONSE |  POWER METER |  POINT SPREAD FUNCTION |  ACCURACY OF CO- REGISTRATION |  UNIFORMITY OF FIELD | |