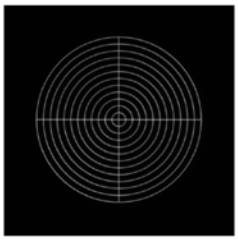
Content of the slide

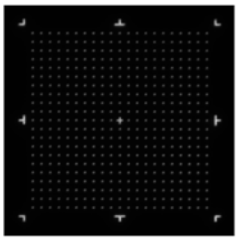
Each Argo-SIM slide contains 27 fluorescent patterns.



Target

PAT-AG03-EM2-A2

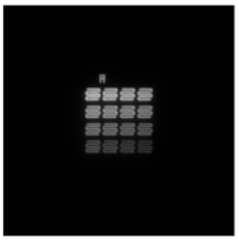
This pattern consists of concentric circles with increasing radii from 10 µm to 120 µm with a step of 10 µm, featuring a target.



Field of rings

PAT-AG03-EM2-B2

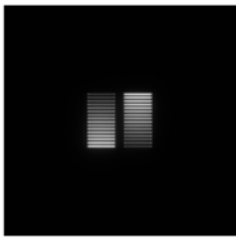
This pattern consists of a matrix of 21×21 rings, separated by 5 µm, on a total field of 100 µm × 100 µm. The field of rings is surrounded by eight landmarks and exhibits a 3 µm long cross in its center.



4×4 Intensity gradation

PAT-AG03-EM2-C2

This pattern consists of sixteen 6 µm-wide squares having different fluorescence intensity levels following a linear evolution, organized in a 4×4 matrix.



2×16 Intensity Gradation

PAT-AG03-EM2-D2

This pattern consists of twice sixteen 15.0 µm × 0.7 µm rectangles having different fluorescence intensity levels following a linear evolution, organized in a 2×16 matrix.

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3D Crossing stairs 1μm step

PAT-AG03-EM2-I5

This pattern consists of twice 11 empty cylinders embedded at different depths, like two crossing stairs, surrounded by four pillars. The step is: 1 μm.

3D Crossing stairs 0.5 μm step

PAT-AG03-EM2-I6

This pattern consists of twice 11 empty cylinders embedded at different depths, like two crossing stairs, surrounded by four pillars. The step is: 0.5 μm.

3D Crossing stairs 0.25 μm step

PAT-AG03-EM2-I7

This pattern consists of twice 11 empty cylinders embedded at different depths, like two crossing stairs, surrounded by four pillars. The step is: 0.25 μm.

3D Crossing stairs 0.125 μm step

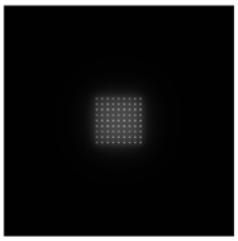
PAT-AG03-EM2-I8

This pattern consists of twice 11 empty cylinders embedded at different depths, like two crossing stairs, surrounded by four pillars. The step is: 0.125 μm.

Word ARGOLIGHT

PAT-AG03-EM2-J2

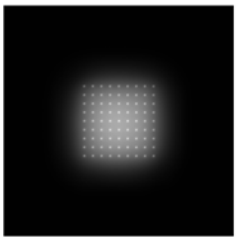
This pattern consists of the letters forming the company name “Argolight”, and surrounded by an 80 μm × 18 μm frame.



3D Matrix of rings

PAT-AG03-EM2-K1

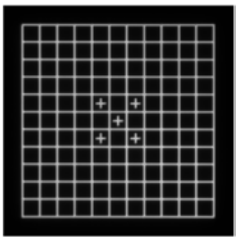
This pattern consists in a 3D matrix of 9×9×9 rings, separated by 5 μm, on a total volume of 40 μm × 40 μm × 40 μm.



Field of rings on a background

PAT-AG03-EM2-L1

This pattern consists in a matrix of 9×9 rings, separated by 5 μm, on a total field of 40 μm × 40 μm, on a fluorescent



Grid

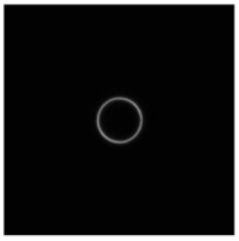
PAT-AG03-EM2-N1

This pattern consists of a grid with a size of 110 μm × 110 μm and a step of 10 μm, containing crosses of 5 μm length in five squares around the center.

Geometrical figure: triangle

PAT-AG03-EM2-M2

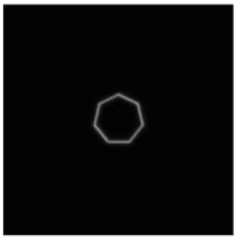
One of the geometrical figures: a triangle.



Geometrical figure: circle

PAT-AG03-EM2-M1

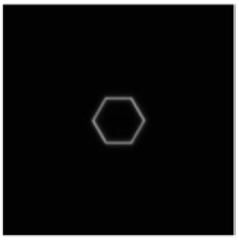
One of the geometrical figures: a circle.



Geometrical figure: heptagon

PAT-AG03-EM2-M6

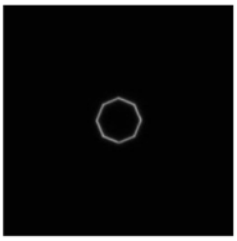
One of the geometrical figures: a heptagon.



Geometrical figure: hexagon

PAT-AG03-EM2-M5

One of the geometrical figures: a hexagon.



Geometrical Figure octagon

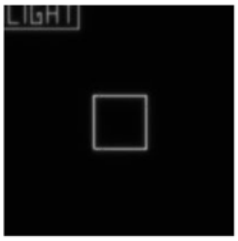
PAT-AG03-EM2-M6

One of the geometrical figures: an octagon.

Geometrical figure pentagon

PAT-AG03-EM2-M4

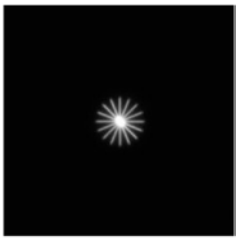
One of the geometrical figures: a pentagon.



Geometrical figure: square

PAT-AG03-EM2-M3

One of the geometrical figures: a square.



Geometrical figure: star

PAT-AG03-EM2-M8

One of the geometrical figures: a star with 16 arms.

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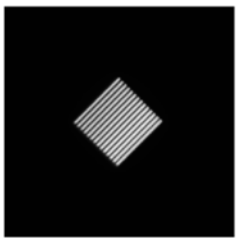
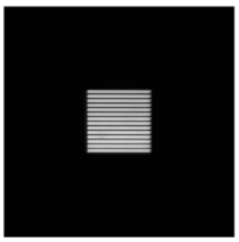


Gradually spaced lines

PAT-AG03-EM2-E8

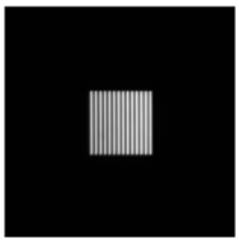
This pattern consists of pairs of 36 µm-long lines whose spacing gradually increases, from 0 nm to 390 nm, with a step of 30 nm. One set of lines is present: ascending (+ 45°).



Gradually spaced lines

PAT-AG03-EM2-E5

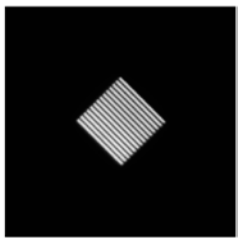
This pattern consists of pairs of 36 µm-long lines whose spacing gradually increases, from 0 nm to 390 nm, with a step of 30 nm. One set of lines is present: horizontal.



Gradually spaced lines

PAT-AG03-EM2-E6

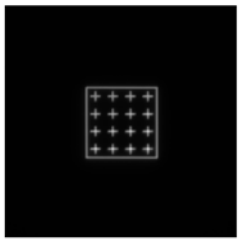
This pattern consists of pairs of 36 µm-long lines whose spacing gradually increases, from 0 nm to 390 nm, with a step of 30 nm. One set of lines is present: vertical.



Gradually spaced lines

PAT-AG03-EM2-E7

This pattern consists of pairs of 36 µm-long lines whose spacing gradually increases, from 0 nm to 390 nm, with a step of 30 nm. One set of lines is present: descending (- 45°).



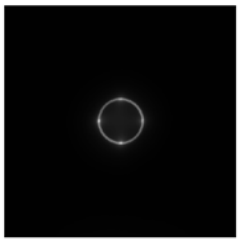
Matrix of crosses

PAT-AG03-EM2-F2

This pattern consists of a matrix of 4×4 crosses, having a length of 5 µm and a step of 10 µm, surrounded by a 40 µm-wide frame.

The crosses are composed of vertical lines that are in the same plane, and by horizontal lines, going gradually deeper within the glass.

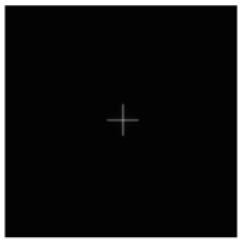
The spacing between the vertical and horizontal lines gradually increases, from 0.1 µm to 1.6 µm, with a step of 0.1 µm.



Sphere

PAT-AG03-EM2-G2

This pattern consists of three circles with a diameter of 25 µm in different orthogonal planes, featuring the equator and two meridians of a sphere.



Repositionning crosses

PAT-AG03-EM2-H2

The repositioning crosses are 20 µm long.

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)

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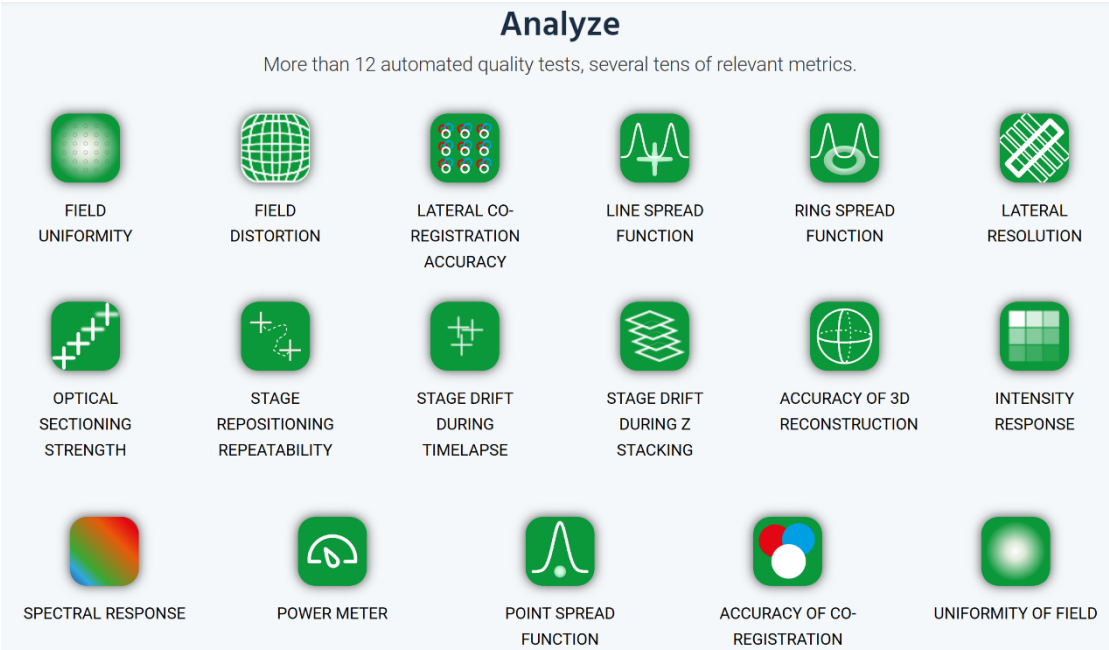

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