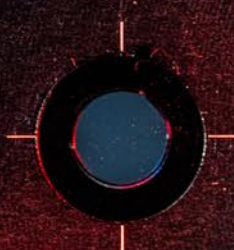




ARGOLIGHT
A Precision Company

QUALITY CONTROL & QUALITY ASSURANCE SOLUTIONS TO IMPROVE REPRODUCIBILITY IN FLUORESCENCE MICROSCOPY



**Upright microscopes:
this side upwards**

Argo-HM v2.0

S/N: SLJ-019

**PERFORMANCE CHECKS FOR MICROSCOPES,
BASED ON IMAGE ANALYSIS OF STABLE FLUORESCENT
INORGANIC SUB-MICRON STRUCTURES**

Combining all of Argolight's expertise, we successfully designed the first long-lasting and complete quality control solution for fluorescence microscopes

Argolight provides a comprehensive range of quality control (QC) solutions designed to help users seamlessly perform regular or one-time performance checks. Our off-the-shelf and custom solutions enable users to assess fluorescence microscopes performance quickly. With our long-lasting fluorescent patterns and complete solution workflow, microscopists can easily monitor the performance of their microscopes over time.

**No preparation, no special handling,
no special storage, non-perishable**

Argolight uses a patented technology process called “fluorescent brush” to induce inorganic sub-micron fluorescent patterns in its registered Argoglass®. By acquiring images of the fluorescent patterns with known features, it is then possible to measure microscope drifts affecting system performance and data reliability.

Argolight specializes in:

- Innovative optical material development and synthesis
- Image analysis software development
- Photonics and lasers
- Microscope science and metrology

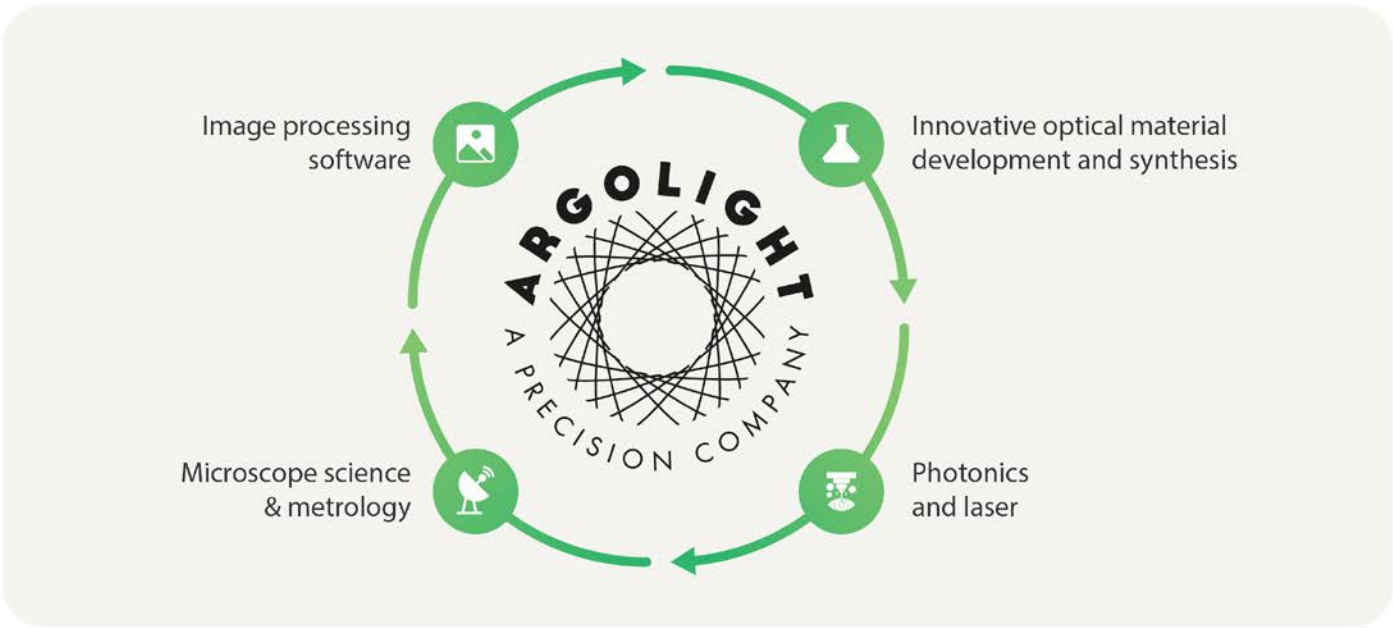


Figure 1: Argolight's expertise.

Argolight solutions are used by **400+ imaging facilities worldwide and numerous microscope manufacturers**, from production lines to microscope installation and yearly maintenance. It is used to ensure consistency in quality control checks.

Since the last decade, Argolight slides have become the must-have tool to improve reliability and reproducibility between instruments and/or between measurements performed on the same microscopes for the systems lifetime.

The unmatched combination of gold-standard slides and empowering software

- **Long-lasting:** presence of fluorescence is warranted for life
- **Complete:** One Argolight solution enables to perform up to 14 QC tests
- **QC a microscope in 1 hour only** (compared to 4 hours using other tools for fewer tests)
- Improves **quality control reproducibility:** diminish user bias, use trustable fluorescent patterns that stay the same year after year
- Argolight Solutions benefit from **community recognition:** the QUAREP-LiMi mentions Argolight Solutions in its publications; manufacturers include Argolight slides as OEM; more than 75 publications using Argolight...



Argolight benefits from community recognition:

- Argolight benefits from community recognition: **national and international metrology groups** mention Argolight in many publications, like the QUAREP-LiMi¹.
- **Manufacturers** also give their endorsement to use Argolight solutions in microscopy facilities to ensure a regular high level of microscope performance and use the Argolight products themselves to perform IQ/OQ/PQ protocols (<https://argolight.com/blog/>).
- Argolight is a trusted partner of every **scientist** developing state-of-the-art microscopes (75+ publications mention Argolight products – see <https://argolight.com/publications/>).

¹ Quality Assessment and Reproducibility for Instruments & Images in Light Microscopy

Fluorescence management

Specialty glass and polymers

We can design glassy materials, polymer gels and other materials tailored to specific requests. Argolight has extensive expertise in fluorescence within two media: specialty glass and polymer.

- **Polymers:** very precise variations in intensity are possible to qualify an instrument according to a particular wavelength.
- **Glassy materials:** Argoglass® is now in its 3rd generation. Its composition obeys very precise characteristics and allows you to select the specifications: choose the level of intrinsic intensity of each generation of glass, its resistance to etching, immersion environments, etc. This material is only available in square or round format for a diameter or side of 10 mm and a thickness of 0.7 mm. A raw glass will present an excitation of 230 to 270 nm, for a short emission band of 325 to 500 nm. A connection to a NIST Standard is possible.:

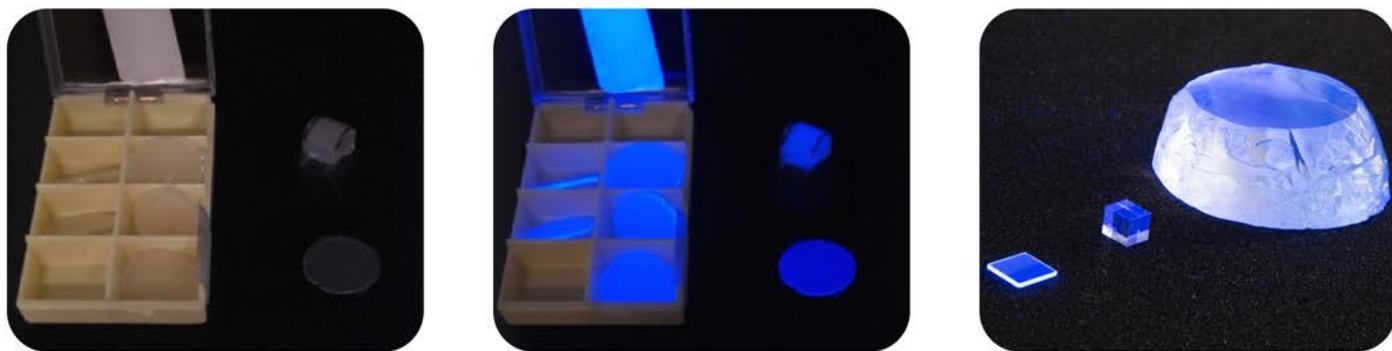


Figure 2: Polymers and glass under UV light.

Glass composition and improvement

Argoglass® has undergone significant improvements over the years. We have enhanced various aspects of this specialty glass, including its intrinsic fluorescence intensity, compatibility with immersion media (air, water, glycerin, oil), and robustness (i.e. the laser dose it can withstand before irreversible damage occurs).

Hardware design

The glass is sourced from a block, cut, polished, and then mounted into its final holder before being patterned with the “fluorescent brush” process. We offer three types of standard holders in our catalogue: 96 well-plate-like, 1.5 mm-thick and 6 mm-thick microscope slide formats. We can also offer custom holders.



Figure 3: From left to right: 96 well-plate format ANSI SLAS 1 to 4 – 2004 (R2012); standards 1.5 mm-thick microscope slide format; 6 mm-thick microscope slide format.

From fluorescent species to patterns

Elementary structures

Argolight solutions are based on long-lasting fluorescent patterns with specific properties, making them efficient for numerous necessary quality control tests (see Table 1: Standard and custom patterns, and their associated quality controls). Pattern sizes are suited to various field of view sizes (up to 2.6 mm width with standard slides and up to 21 mm width for custom projects).

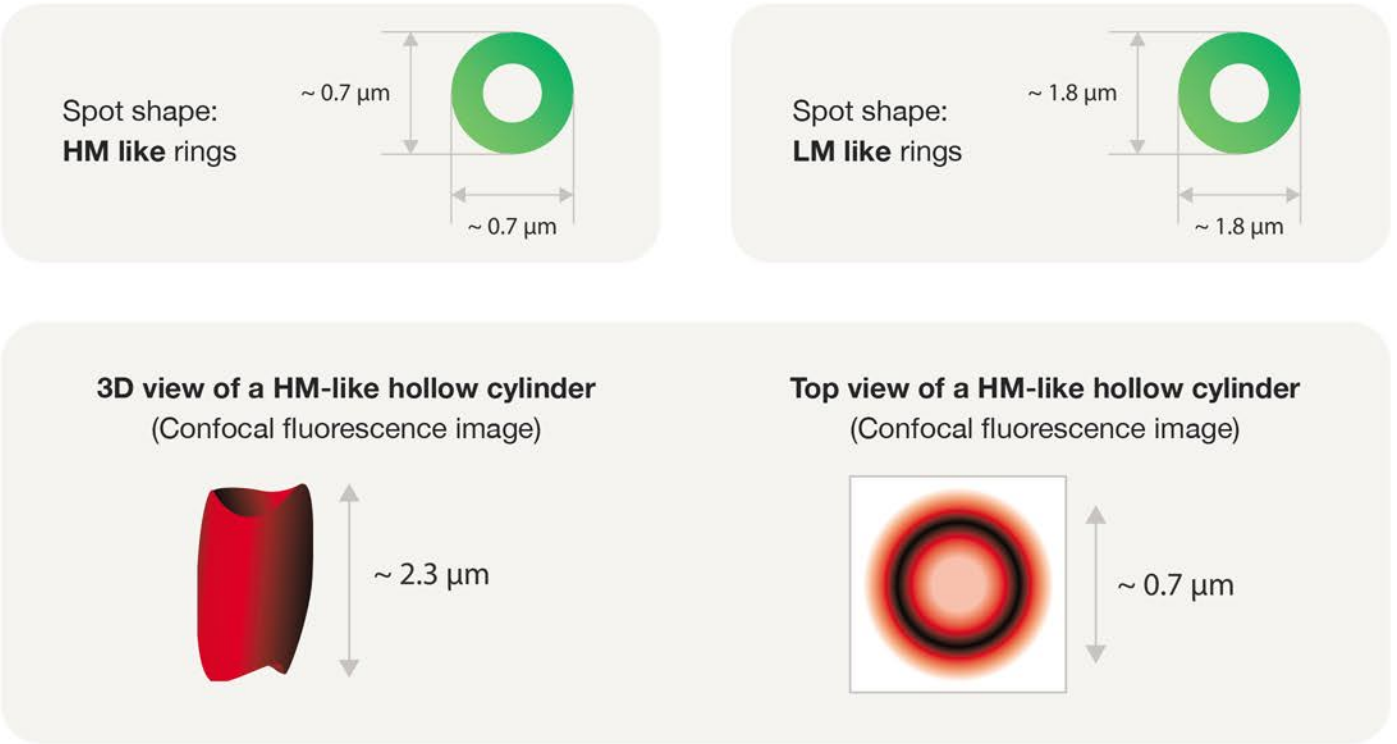


Figure 4: Elementary structures' shapes and sizes.

Each pattern is created from our “fluorescent brush” technology. It induces a hollow cylinder as an elementary pattern, whose diameter depends on fabrication parameters. From this cylinder, more more complex patterns such as lines, circles, grids, targets, and so on can be generated.

The smallest structure is a hollow cylinder of ~0.7 μm diameter.

Absorbance spectrum

Within the third generation of Argoglass®, the patterns feature an absorbance spectrum that makes them excitable from 250 to 650 nm with a correct signal.

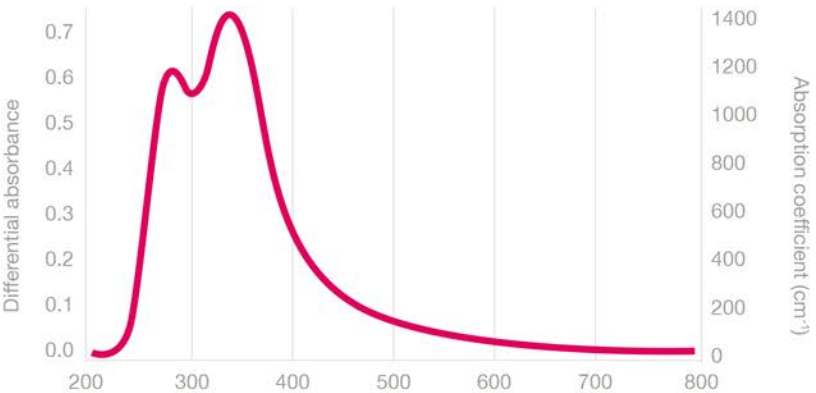


Figure 5: Typical absorbance/absorption spectrum of the patterns.

Fluorescence decay and recovery

Argolight fluorescent patterns feature a transient decay of intensity. It will recover its nominal intensity after enough time.

In the following example, the power density was about 10 W.cm^{-2} , the excitation wavelength (470 ± 20) nm, and the collection window (525 ± 25) nm. After one minute of acquisition and four minutes of waiting time, the fluorescence fully recovers for these irradiation conditions.

More information on: <https://argolight.com/stability-of-argolight-fluorescent-slides/>

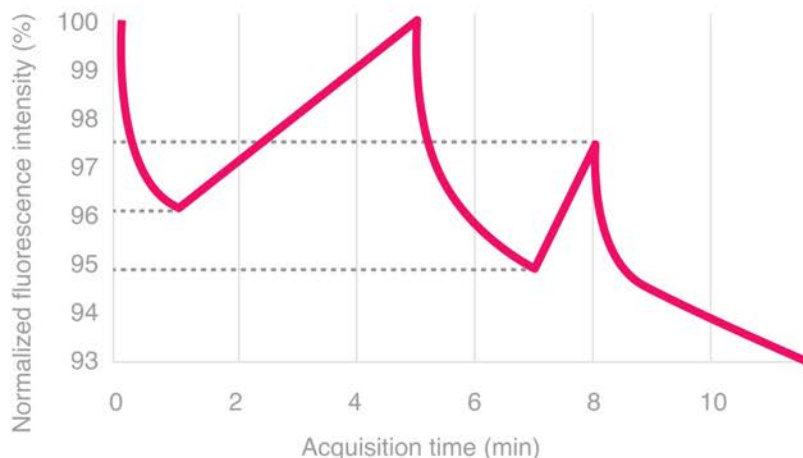


Figure 7: Intensity recovery behavior after slight fluorescent intensity decay.

The fluorescence intensity decay recovers its nominal intensity after enough time.

The Argo-LM/HM/SIM

Argolight offers different pattern sizes, spread on three standard slide models to cover microscope magnifications from 5x to 100x.

- The Argo-LM (for Low Magnification) model features pattern sizes up to 2.6 mm to match low magnification microscopes.
- The Argo-HM (High Magnification) model features many more patterns, thanks to their smaller sizes, and is suited for magnifications ranging from 20x to 100x. It is the most versatile product for performing regular quality control in a core imaging facility. It contains 3D patterns.
- The Argo-SIM (Structured Illumination Microscope) model completes the offer at the other side of the spectrum with even more patterns dedicated to microscopes based on structured illumination in general and/or deconvolution algorithms.
- They are designed to evaluate the performance of microscopes for magnifications ranging from 5x to 100x. Each slide's specifications are described in the table below.

² <https://argolight.com/blog/testimonial-2ndgen/>
<https://argolight.com/blog/2nd-generation-slides/>

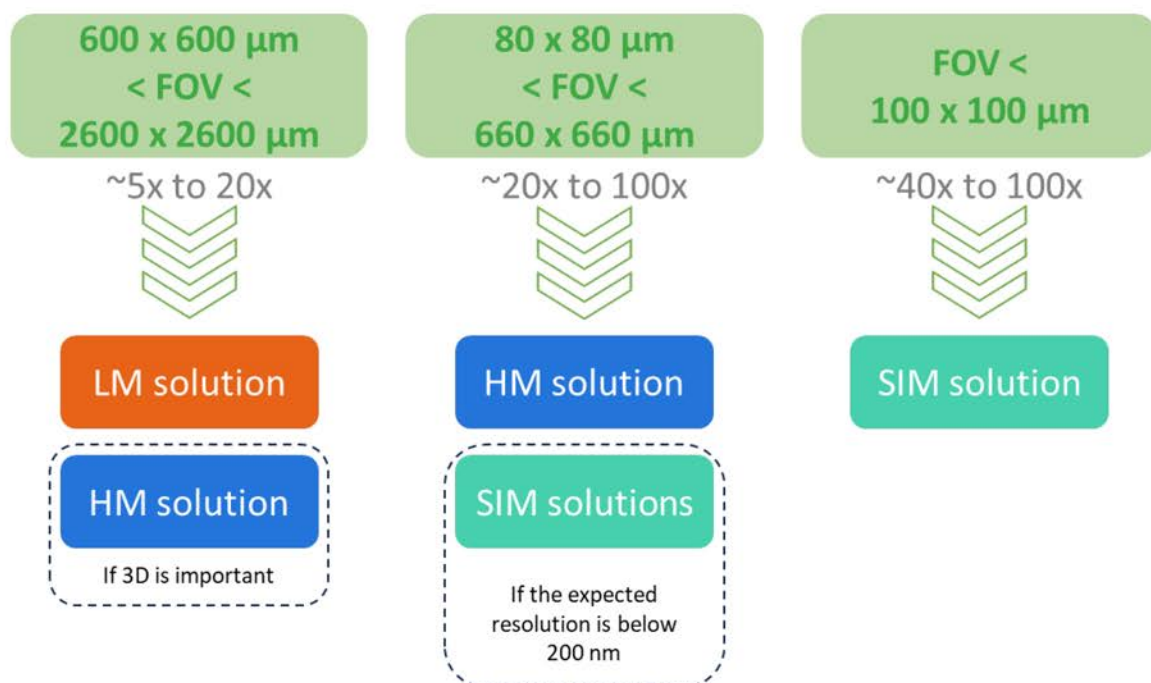


Figure 8: Link between Field of view sizes and Argolight slides models.

	Argo-LM v2	Argo-HM v2	Argo-SIM v2
Product type			
Typical magnification range	From 5x to 20x	From 20x to 100x	From 40x to 100x
Typical NA range	From 0.3 to 0.8	From 0.8 to 1.5	From 1.3 to 1.5
Microscope compatibility	For fluorescence imaging systems, such as wide-field, confocal laser scanning or confocal spinning disk microscopes, with low magnifications	For fluorescence imaging systems, such as wide-field, confocal laser scanning or confocal spinning disk microscopes, with high magnifications	For fluorescence imaging systems based on structured illumination and/or deconvolution algorithms
Medium compatibility	Air, Water (up to 20 min), Glycerol, Oil		
Excitation wavelength range	From 250 nm to 650 nm		
Emission wavelength range	Continuum spectrum ranging from excitation wavelength + ~15 nm to 800 nm		
Glass damage irradiance threshold	50 GW.cm ⁻² (peak or average)		
Operating environment	Room temperature (10 – 40 °C) and under normal relative humidity (20 – 70 % RH)		
External dimensions	75 mm x 25 mm x 1.5 mm		

The Argo-POWER^{LM/HM/SIM} the most complete devices

All three models (LM, HM, SIM) can be completed by an optical power meter unit (making them the Argo-POWER^{LM/HM/SIM} devices). They measure the illumination power and irradiance in live, through a USB connection to any computer where Daybook is installed.

The Argo-POWER does not need a separate display.

Different inputs can be set up to fine-tune the measurement, such as illumination wavelength, integration time, sampling period, acquisition duration, and illumination power settings.

The irradiance measurement considers the objective field number, magnification, numerical aperture, and the number of illumination spots. All parameters are spread across three acquisition modes: wide-field, confocal laser scanning and confocal spinning disk microscopes.

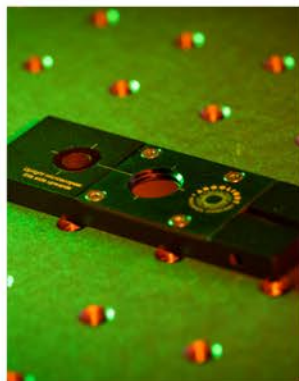
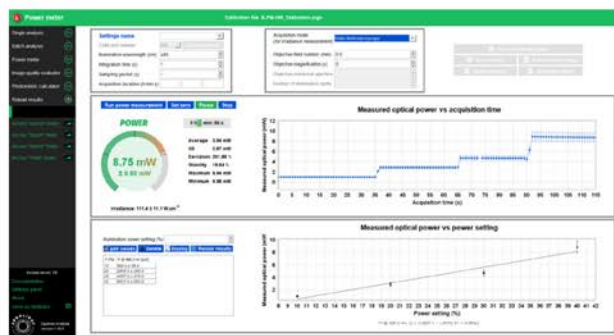


Figure 9: Argo-POWER devices coupled with the three main slides (LM, HM, SIM).

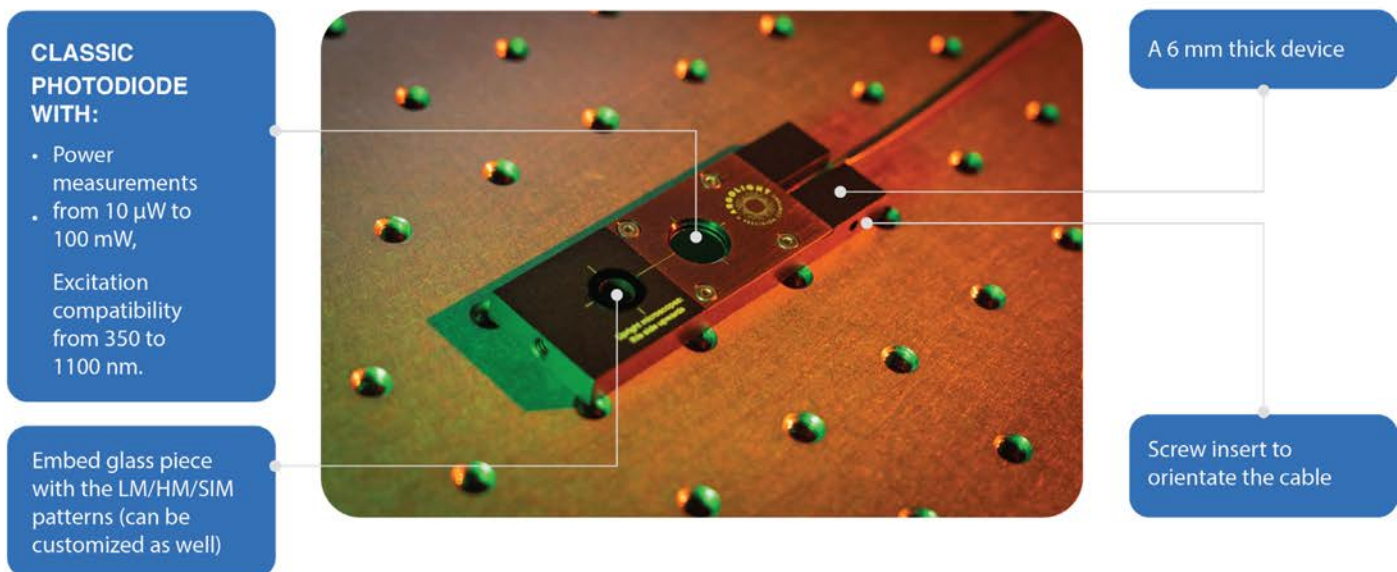


Figure 10: An Argo-POWER device picture - The glass containing fluorescent patterns and the optical power meter are on the same device.

	Argo-POWER ^{LM}	Argo-POWER ^{HM}	Argo-POWER ^{SIM}
Product type			
Typical magnification range	From 5× to 20×	From 20× to 100×	From ~40× to 100×
Typical NA range	From 0.3 to 0.8	From 0.8 to 1.5	From 1.3 to 1.5
Microscope compatibility	For fluorescence imaging systems, such as wide-field, confocal laser scanning or confocal spinning disk microscopes, with low magnifications	For fluorescence imaging systems, such as wide-field, confocal laser scanning or confocal spinning disk microscopes, with high magnifications	For fluorescence imaging systems based on structured illumination and/or deconvolution algorithms
Medium compatibility	For the patterns: Air, Water (up to 20 min), Glycerol, Oil For the optical power meter: Air only		
Excitation wavelength range	From 250 nm to 650 nm		
Emission wavelength range	Continuum spectrum ranging from excitation wavelength + ~15 nm to 800 nm		
Glass damage irradiance threshold	50 GW.cm ⁻² (peak or average)		
Operating environment	Room temperature (10 – 40 °C) and under normal relative humidity (20 – 70 % RH)		
External dimensions	75 mm × 25 mm × 6 mm		
Detector type	Silicon photodiode		
Active detector range	10 mm diameter		
Neutral density filter	Reflective (OD 2)		
Input aperture	9 mm		
Wavelength range	350 to 1100 nm		
Power measurement range	10 μW to 100 mW		
Linearity	± 2 %		
Resolution	< 3 μ W (350 to 400 nm) < 2 μ W (400 to 460 nm) < 1 μ W (460 to 1100 nm)		
Calibration uncertainty	± 10% maximum over the whole wavelength range. Typically, ±2% at 633 nm		
Response time	100 ms (minimum), 3 s (to ensure stable reading)		
Objective compatibility	Air coupled objectives, with FOV diameters less than 9 mm		

The Argo-WP (Well Plate) format for HCS-HTS imaging systems

The Argo-WP is designed with respect to the ANSI SLAS SBS 96-well plate standard format.

Four of its wells are filled with fluorescent patterns designed to monitor HCS-HTS imaging systems behavior prior to, during and past long-term imaging campaigns.

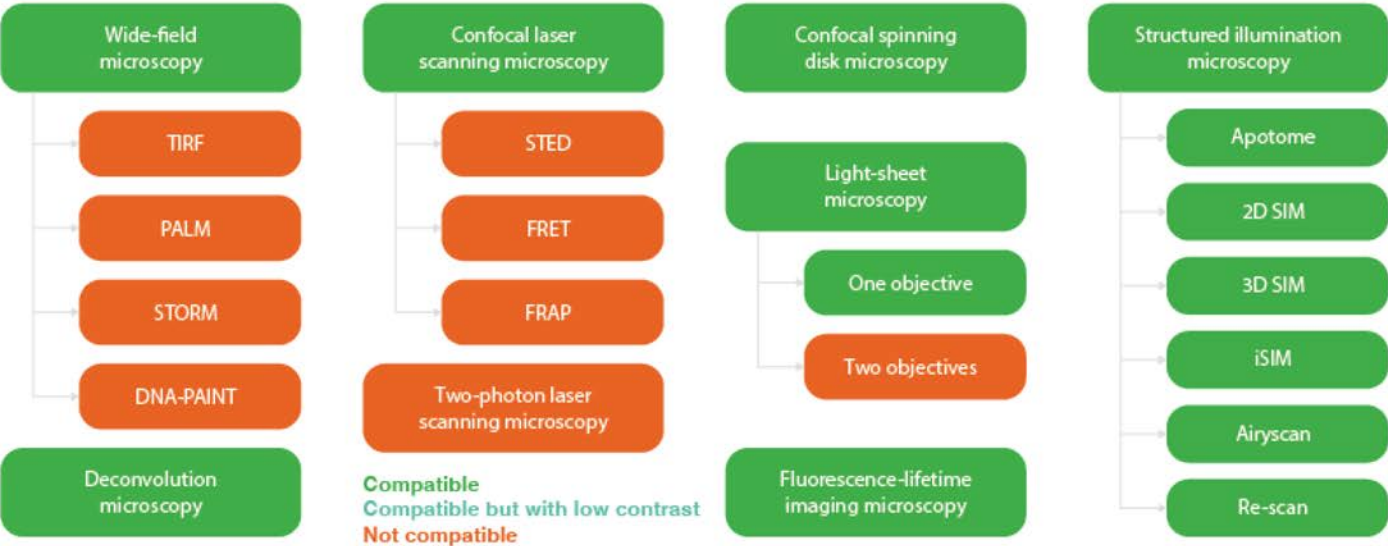
HCS (and other synonyms) are automated systems designed to capture numerous images of sensitive samples. Considering the time required for specific image campaigns and the large amount of data generated within each screening, it is critical to ensure the systems perform consistently across time, that repeatability between screens is accurate and the systems do not fluctuate.

The potential of the Argo-WP is enhanced by the automation features of the Daybook companion software, which allows for efficient integration into the HCS-HTS stream. This is particularly true when automated microscopes are used to identify shapes, structures, dimensions, and intensity signals. When these microscopes are trained on instruments with minimal drift, machine learning will be more accurate than on instruments with unknown or unmeasured weaknesses.

	Argo-WP plate
Product type	
Typical magnification range	From 10× to 60×
Typical NA range	From 0.3 to 1.5
Medium compatibility	Air, Water (up to 20 min), Glycerol, Oil
Excitation wavelength range	From 250 nm to 650 nm
Emission wavelength range	Continuum spectrum ranging from excitation wavelength + ~15 nm to 800 nm
Glass damage irradiance threshold	50 GW.cm ⁻² (peak or average)
Operating environment	Room temperature (10 – 40 °C) and under normal relative humidity (20 – 70 % RH)
External dimensions	ANSI SLAS SBS 96-wells plate standard
Patterns locations	Wells C5, C8, F5, F8

Imaging modalities compatible with the Argolight technology

Fluorescence contrast



Other contrasts



- TIRF:** Total Internal Reflection Fluorescence
PALM: Photo-Activated Localization Microscopy
STORM: Stochastic Optical Reconstruction Microscopy
DNA-PAINT: DNA-based Point Accumulation for Imaging in Nanoscale Topography
STED: Stimulated Emission Depletion
FRAP: Fluorescence Recovery After Photobleaching
FRET: Forster Resonance Energy Transfer

Software development and image analysis

Argolight has gathered its software expertise into a companion software, Daybook 4.

Gather all measurements in the same place: a regular user of this software platform can perform 14 QC analyses developed with Argolight hardware and 3 additional QC analyses associated with non-Argolight products.

The software is now at such a level of maturity that all available image analyses can be run automatically.

Main functionalities of Daybook software:

- 17 quality control analyses available,
- 200+ performance metrics calculated,
- 200+ performance thresholds provided by default for each metric, fit for wide-field, confocal laser scanning and confocal spinning disk microscopes,
- Automated image importation,
- Personalized tracking of microscope and configuration performance (with color-coded timeline of events),
- Ability to export PDF, CSV, TXT, PNG, JPEG files,
- 150+ images formats compatible,
- The ability to integrate Daybook's API into other software for microscope manufacturers.

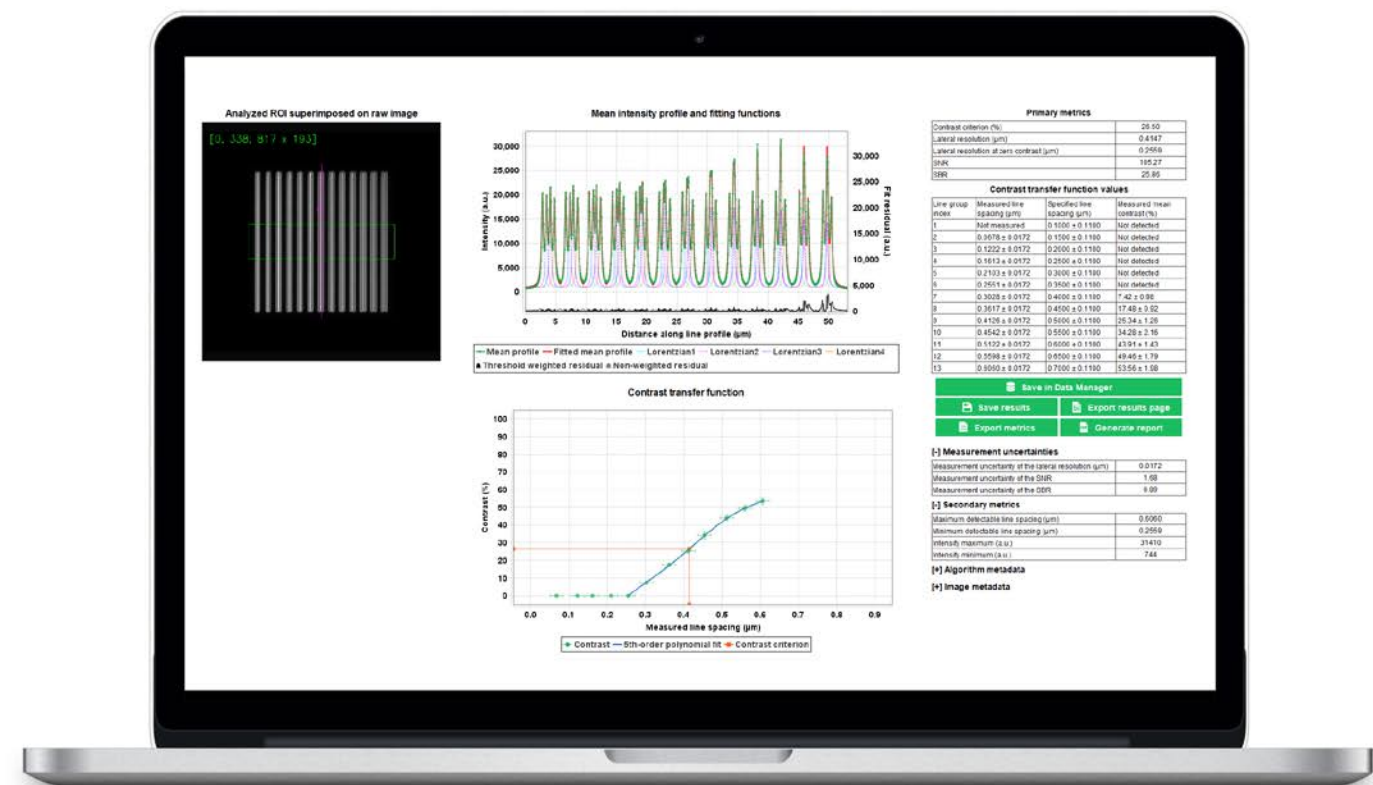


Figure 12: Daybook Analysis results pages for “Lateral resolution” analysis.

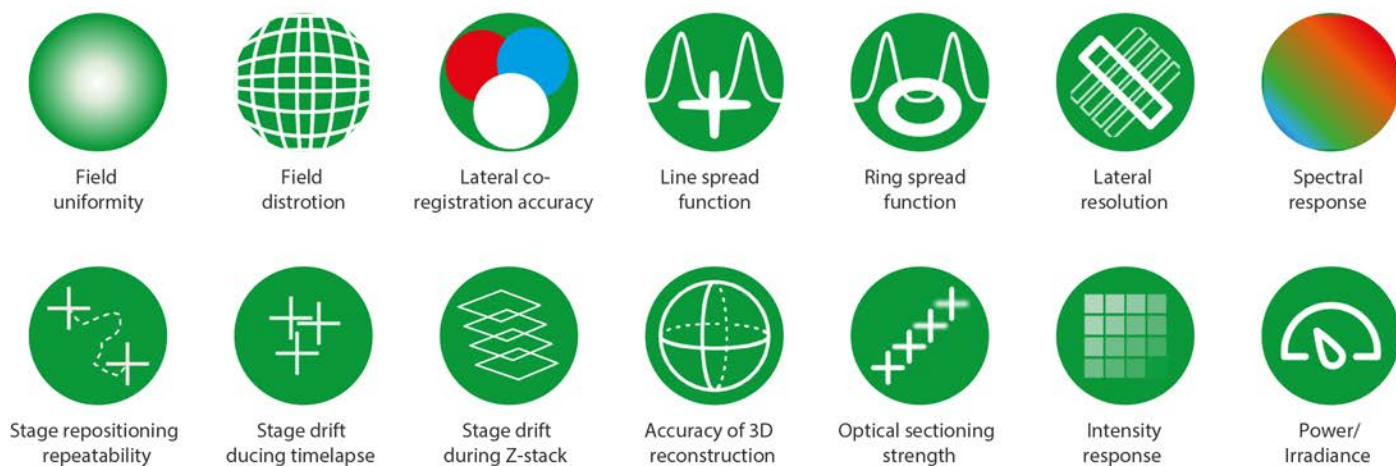


Figure 13: Available analyses with Argolight hardware.

Available standardized patterns library

TARGET

✓ Daybook compatibility



STANDARDIZED SIZES

✓ Argo-SIM / Argo-FOR-SIM / Argo-IG-SIM / Argo-GSL-SIM:
240 μm diameter (Step radius of 10 μm)

✓ Argo-HM / Argo-FOR-HM / Argo-IG-HM / Argo-GSL-HM:
650 μm diameter (Step radius of 25 μm)

EFFICIENT FOR

- Spatial scaling (XY distances)
- Parfocality and parcentrality
- Camera alignment
- Stitching behavior
- Spectral response
- Alignment of different channels
- Scanning rotation
- Scanning performance
- Optical axis determination

2x16 INTENSITY GRADATION

✓ Daybook compatibility



STANDARDIZED SIZES

✓ Argo-SIM / Argo-IG-SIM: 36 μm x 36 μm

✓ Argo-HM / Argo-IG-HM: 50 μm x 50 μm

TEST IN DAYBOOK

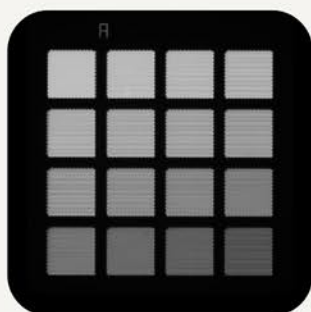
- Intensity response

EFFICIENT FOR

- Intensity response stability
- Comparison of cameras' performance
- Intensity response linearity
- Intensity response conservation after deconvolution

4x4 INTENSITY GRADATION

✓ Daybook compatibility



STANDARDIZED SIZES

- ✓ **Argo-SIM / Argo-IG-SIM:** 36 μm x 36 μm (6 μm -wide squares)
- ✓ **Argo-HM / Argo-IG-HM:** 50 μm x 50 μm (8.5 μm -wide squares)
- ✓ **Argo-LM / Argo-WP / Argo-IG-LM:** 490 μm x 490 μm (100 μm -wide squares)
- 4X4IG-AG1-O3-L20S6:** 98 μm x 98 μm (20 μm -wide squares)
- 4X4IG-AG2-O1-L300S30:** 1290 μm x 1290 μm (30 μm -wide squares)
- 4X4IG-AG2-O2-L200S300:** 1700 μm x 1700 μm (300 μm -wide squares)
- 4X4IG-AG3-O2-L200S60:** 980 μm x 980 μm (60 μm -wide squares)
- 2X2IG-AG3-O2-L200S50:** 200 μm x 200 μm (50 μm -wide squares)

TEST IN DAYBOOK

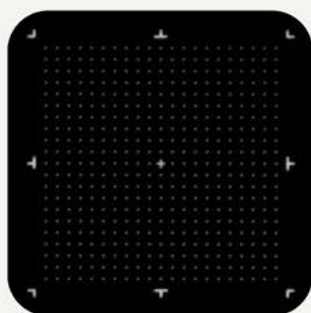
- Intensity response

EFFICIENT FOR

- Intensity response stability
- Comparison of cameras' performance
- Intensity response linearity
- Intensity response conservation after deconvolution

FIELD OF RINGS

✓ Daybook compatibility



STANDARDIZED SIZES

- ✓ **Argo-SIM / Argo-FOR SIM:** 100 μm x 100 μm (5 μm ring spacing)
- ✓ **Argo-HM / Argo-FOR HM:** 660 μm x 660 μm (15 μm ring spacing)
- ✓ **Argo-LM / Argo-FOM-LM:** 2600 μm x 2600 μm (50 μm ring spacing)
- ✓ **Argo-WP:** 1700 μm x 1700 μm (50 μm ring spacing)
- FOR-AG3-O2-L1500S300:** 1500 μm x 1500 μm (300 μm ring spacing)
- FOR-AG3-O1-L150S30:** 150 μm x 150 μm (30 μm ring spacing)
- FOR-AG3-O2-L1700x1300S50:** 1700 μm x 1300 μm (50 μm ring spacing)
- FOR-AG3-O2-L4300x3200S50:** 4300 μm x 3200 μm (50 μm ring spacing)
- FOR-AG3-O1-L975x660S15:** 975 μm x 660 μm (15 μm ring spacing)
- FOR-AG3-O1-L900x500s50:** 900 μm x 500 μm (50 μm ring spacing)
- FOR-AG3-O2-L9000x5000s500:** 9000 μm x 5000 μm (500 μm ring spacing)

TEST IN DAYBOOK

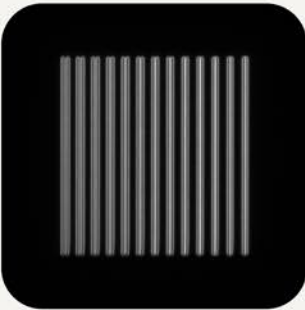
- Field uniformity
- Field distortion
- Ring Spread Function (RSF)
- Lateral co-registration accuracy
- Line Spread Function (LSF)

EFFICIENT FOR

- Field uniformity
- Field distortion
- Lateral co-registration accuracy
- Axial co-registration accuracy
- Comparison of objectives' performance

GRADUALLY SPACED LINES

✔ Daybook compatibility



STANDARDIZED SIZES

- ✔ **Argo-SIM / Argo-GSL-SIM:** 36 μm x 36 μm (increase from 0 nm to 390 nm, 30 nm step)
- ✔ **Argo-HM / Argo-GSL-HM:** 50 μm x 50 μm (increase from 100 nm to 700 nm, 50 nm step)
- GSLV-AG3-O2-L50-F500L2500S100:** 200 x 50 μm (increase from 500 nm to 2500 nm, 100 nm step)
- GSLH-AG3-O2-L50-F500L2500S100:** 50 x 200 μm (increase from 500 nm to 2500 nm, 100 nm step)

TEST IN DAYBOOK

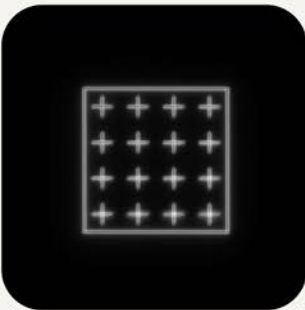
- Lateral resolution

EFFICIENT FOR

- Lateral resolution for a given contrast, associated with signal-to-noise ratio (SNR) and signal-to-background ratio (SBR)

MATRIX OF CROSSES

✔ Daybook compatibility



STANDARDIZED SIZES

- ✔ **Argo-SIM:** 40 μm x 40 μm (4x4 with 0.1 μm step)
- ✔ **Argo-HM:** 50 μm x 50 μm (6x6 with 0.1 μm step)

TEST IN DAYBOOK

- Optical sectioning strength

EFFICIENT FOR

- Depth of field

MERIDIANS OF A SPHERE

✔ Daybook compatibility



STANDARDIZED SIZES

- ✔ **Argo-SIM:** 25 μm diameter (sphere center Z-position from top surface: -182.5 μm)
- ✔ **Argo-HM:** 50 μm diameter (sphere center Z-position from top surface: -195 μm)
- ✔ **SPH-AG3-O1-D50Z215:** 50 μm diameter (sphere center Z-position from top surface: -215 μm)

TEST IN DAYBOOK

- Accuracy of 3D reconstruction

EFFICIENT FOR

- Accuracy of 3D reconstruction
- Z-distances

REPOSITIONING CROSSES

✓ Daybook compatibility



STANDARDIZED SIZES

- ✓ **Argo-SIM:** 20 μm x 20 μm
- ✓ **Argo-HM / Argo-LM:** 40 μm x 40 μm
- RC-AG3-O2-S40-L2E3.6:** 40 μm x 40 μm (double lines)

TEST IN DAYBOOK

- Line spread function
- Stage repositioning repeatability
- Stage drift during timelapse

EFFICIENT FOR

- Stage repositioning repeatability
- Stage drift during timelapse
- Objectives issues
- Line Spread Function (LSF)

3D CROSSING STAIRS

✓ Daybook compatibility



STANDARDIZED SIZES

- ✓ **Argo-SIM:** 36 μm x 36 μm (with 0.125, 0.25, 0.5 and 1 μm steps)
- ✓ **Argo-HM:** 50 μm x 50 μm (with 0.125, 0.25, 0.5 and 1 μm steps)
- ✓ **Argo-LM / Argo-WP:** 300 μm x 95 μm (with 2.5 μm step)
- 3DCS-AG3-O1-L50W50S0.5H6-H:** 60 μm x 50 μm (with 0.5 μm step)
- 3DCS-AG3-O1-L50W50S0.5H6-V:** 60 μm x 50 μm (with 0.5 μm step)
- 3DCS-AG3-O2-L300W95-HC:** 300 μm x 95 μm (with 2.5 μm step)

TEST IN DAYBOOK

- Stage drift during Z-stacking

EFFICIENT FOR

- 3D reconstruction accuracy
- Lateral stage drift during Z-stacking
- Focus drift
- Objectives' optical aberrations
- Ring Spread Function (RSF)

ARGOLIGHT WORD

✓ Daybook compatibility



STANDARDIZED SIZES

- ✓ **Argo-SIM / Argo-FOR SIM / Argo-IG SIM / Argo-GSL SIM:** 80 μm x 18 μm
- ✓ **Argo-HM / Argo-FOR HM / Argo-IG HM / Argo-GSL HM:** 220 μm x 50 μm
- ✓ **Argo-LM / Argo-WP / Argo-FOR-LM / Argo-IG-LM:** 220 μm x 50 μm

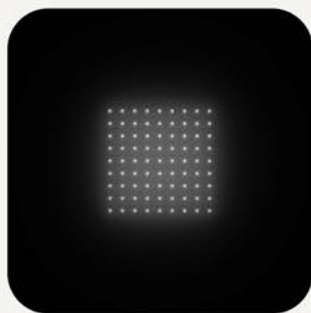
TEST IN DAYBOOK

- Spectral response

EFFICIENT FOR

- Rotated or mirrored image
- System's spectral response
- Evolution of the system's time response (FLIM)

3D MATRIX OF RINGS



STANDARDIZED SIZES

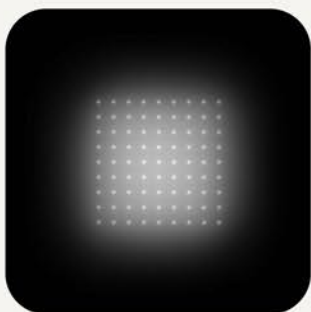
Argo-SIM: 40 μm x 40 μm x 40 μm (with 5 μm inter ring spacing)

3DMOR-AG3-O4-L200s25: 200 μm x 200 μm x 200 μm (with 25 μm inter ring spacing)

EFFICIENT FOR

- Field distortion in 3D
- Lateral co-registration accuracy
- Axial co-registration accuracy
- Comparison of objectives' performance
- Deconvolution performance

FIELD OF RINGS ON A BACKGROUND



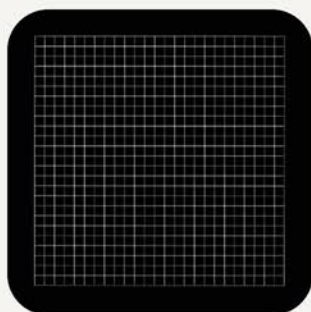
STANDARDIZED SIZES

Argo-SIM: 40 μm x 40 μm

EFFICIENT FOR

- Accuracy and limits of deconvolution and/or SIM reconstruction algorithms

GRID



STANDARDIZED SIZES

Argo-SIM: 110 μm x 110 μm (step of 10 μm)

Argo-WP: 1000 μm x 1000 μm (step of 40 μm)

EFFICIENT FOR

- Spatial scaling (XY distances)
- Camera alignment
- Alignment of different channels
- Field distortion

GEOMETRICAL FIGURES



STANDARDIZED SIZES

Argo-SIM

GEOM-AG3-O1-T30: Triangle of 30 μm side

GEOM-AG3-O1-C30: Circle of 30 μm diameter

GEOM-AG3-O1-Hp13.35: Heptagon of 13,35 μm side

GEOM-AG3-O1-Hx15: Hexagon of 15 μm side

GEOM-AG3-O1-O11.48: Octagon of 11,48 μm side

GEOM-AG3-O1-P18.52: Pentagon of 18,52 μm side

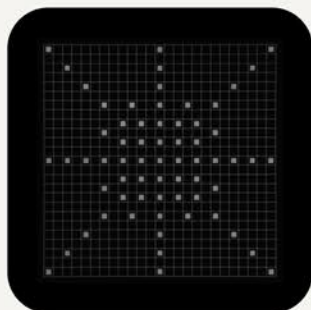
GEOM-AG3-O1-Sq30: Square of 30 μm side

GEOM-AG3-O1-St30: Star of 30 μm side

EFFICIENT FOR

- Accuracy and limits of deconvolution and/or SIM reconstruction algorithms

GRID WITH SQUARES



STANDARDIZED SIZES

GRID-AG3-O2-L2500S100C: 2500 μm x 2500 μm (step of 100 μm)

EFFICIENT FOR

- Field uniformity
- Field distortion

SQUARE



STANDARDIZED SIZES

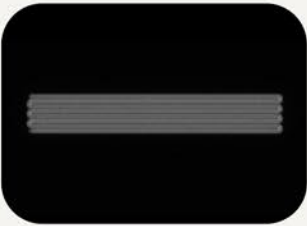
SQUA-AG3-O2-L50N15: 50 μm x 50 μm (with 15 lines)

SQUA-AG3-O2-L100N26: 100 μm x 100 μm (with 26 lines)

EFFICIENT FOR

- Intensity signal stability

RECTANGLE



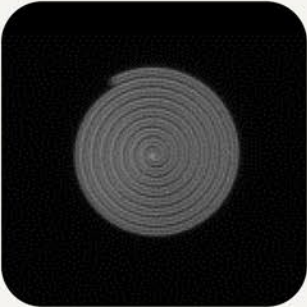
STANDARDIZED SIZES

RECT-AG3-O2-L150W20N8S1.4: 150 μm x 20 μm (with 8 lines)
RECT-AG3-O2-L150W30N11S1.4: 150 μm x 20 μm (with 11 lines)

EFFICIENT FOR

- Intensity signal stability

SPIRAL



STANDARDIZED SIZES

SPIR-AG3-O2-D20R1S2: $\varnothing$ from 2 μm to 20 μm
SPIR-AG3-O2-D50R1S2: $\varnothing$ from 2 μm to 50 μm

EFFICIENT FOR

- Intensity signal stability

Table 1: Standard and custom patterns, and their associated quality control analyses.



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