Make inspection 「“More Precise, Faster, and Brighter”」 with iCore’s Products

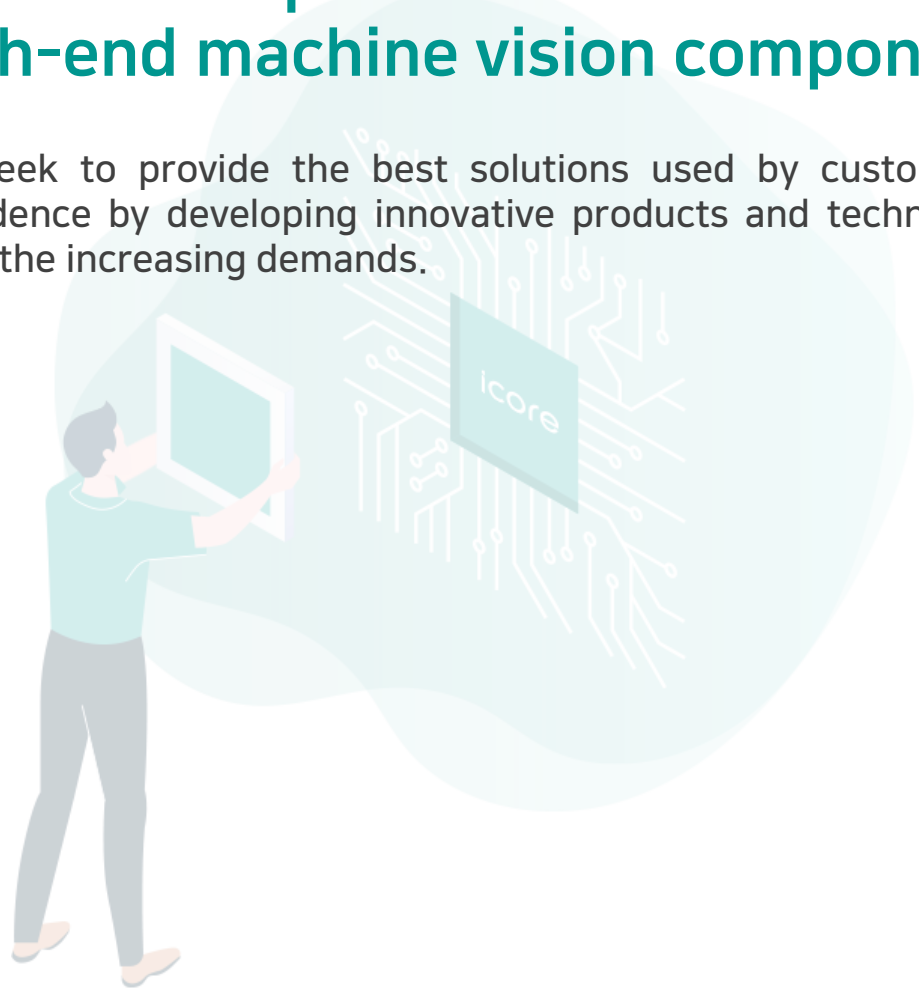
icore


INNOVATION TO THE CORE

# Innovation to the Core

## iCore develops and manufactures high-end machine vision components and modules.

We seek to provide the best solutions used by customers with confidence by developing innovative products and technologies to meet the increasing demands.




**Established**
2019. 03

**Location**
South of Korea

**Main Products**
Machine vision
Component & Module

**No. of MV Experts**
21

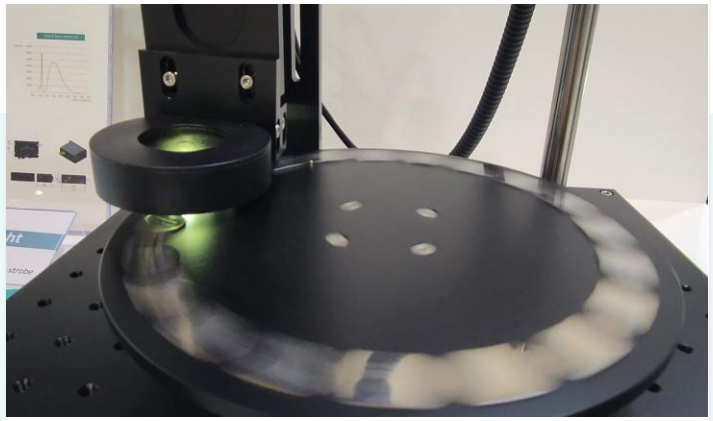
**No. of Patents**
34

**Funds Raised**
USD 4M

# Philosophy of iCore

Improve inspection capability and productivity via More Accurate, Brighter, and Faster

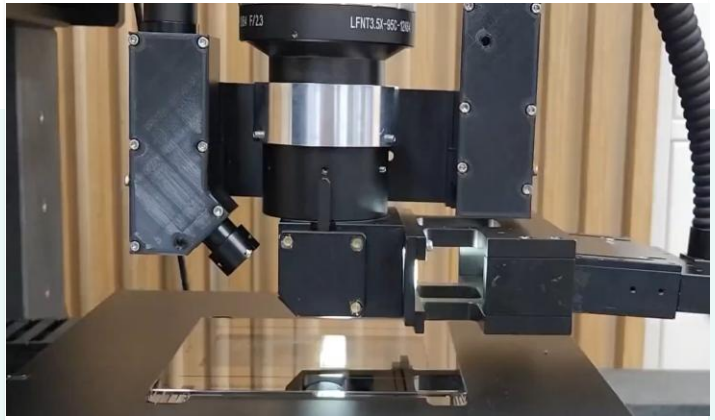
## Strobe Controller (iPulse)



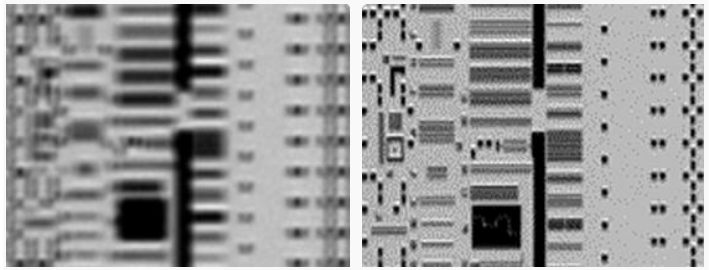
More Faster x4 Inspection Speed

Flying Mode OFF  Flying Mode ON

## Auto Focus Module (iFocus)



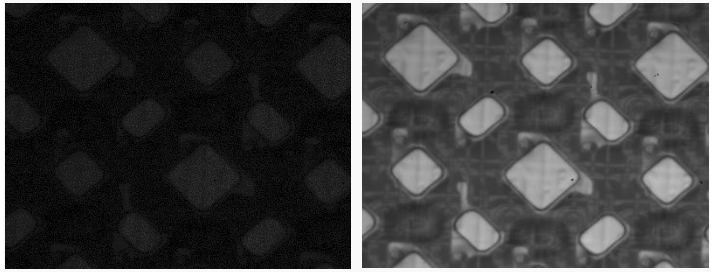
More Accurate Real Time Tracking



AF OFF  AF ON

## Hybrid Spot Light (iLight)


More Brighter x30 than LED



LED ON, Laser OFF  LED ON, Laser ON

# History of iCore

## 2019

- Established iCore Co., Ltd.
- Launched iPlus

## 2020

- Selected for Promising S&M Exporters
- Launched iPulse

## 2021

- First Penguin Company from (KODIT)
- Launched iLight iFocus

## 2024

- Selected for the Si-Tech Innovation Award Program
- Korean Government R&D Project (US$ 3M)

## 2023

- Korean Advanced startup 1000+
- Attract investment from VC(US$ 4M)
- GSI ISO 9001/14001 certifi cation

## 2022

- Selected for 100 Materials, Parts and Equipment Startups
- Received SPLASH Award, 2022
- Awarded a minister prize from the Ministry of Science and ICT(MSIT) Grand Prize
- Winner of K-Challenge Start up in 2022 (Best Prize)

# Patents & Certifications

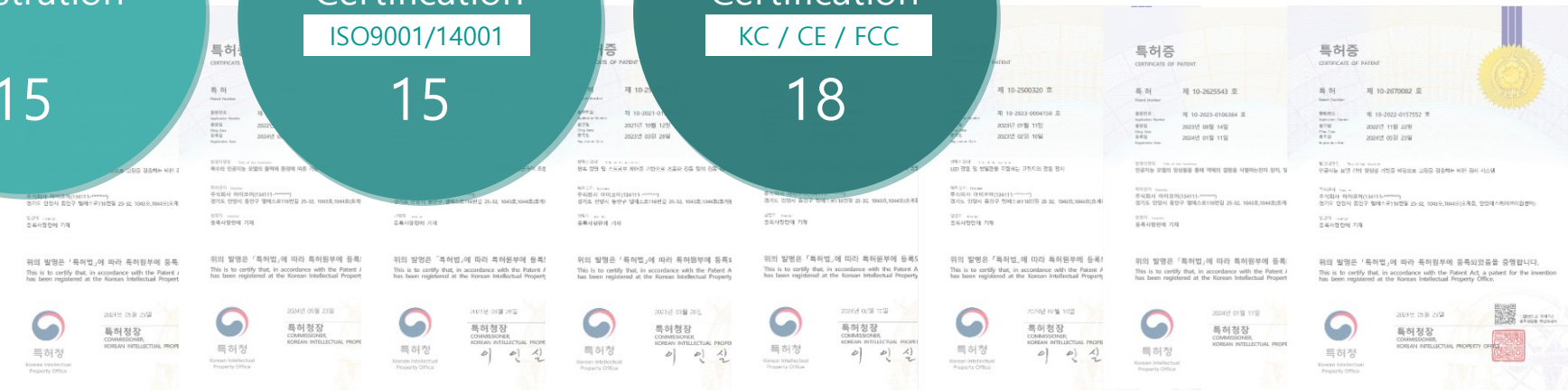
34 patent applications (15 registered), 18 product certifications and compliances

**Patents Application**
34

**Patents Registration**
15

**Corporate Certification**
ISO9001/14001
15

**Product Certification**
KC / CE / FCC
18




# Top Innovation Awards 2025

inVISION TOP INNOVATION 2025

## inVISION NEWS

### INVISION TOP INNOVATION 2025

Home » inVISION » High-Speed LED Controller

### High-Speed LED Controller


Image: Rauscher GmbH Bildverarbeitung

The high-performance LED controllers iPulse from iCore (distributed by Rauscher) can provide currents of over 200A with a pulse duration of less than 0.5µs. The sequencer function enables multi-strobing, i.e. up to eight sequences can be assigned to control eight LEDs individually with a trigger signal.

[Reference : inVISION NEWS]

# 4 Product Lineups

iCore developed 4 types of key components and modules with world-class performance and has been mass-producing about 80 products.

## Strobe Controller


### iPulse

- High Current Driving Performance(World Best)
- Suitable for On-the-Fly Inspection
- Ultra-precision control (0.5us)

## Auto-focus Module


### iFocus

- Real-time Auto Focus
- Precision (below 1um)
- Wide range of detection
- Through The Lens (TTL) Type / External Laser Triangulation Type

## High Brightness Lighting

### iLight

- Laser+LED Technology with 1,600W Brightness
- 30 times brighter
- Ultra-precision control (0.25us)

## Repeater & Splitter


### iPlus

- Maximum transmission distance (more than 2 times)
- Maximum transmission speed
- Stable data transmission

# Strobe Controller

iPulse

# Strobe Controller - iPulse


- **High-power LED controller**

  Designed for machine vision applications with iCore's unique expertise

- **High-speed, high-efficiency current control**

  Generates ultra-precise pulses of 0.5µs at 200A current.

- **Advantages in High-speed Inspection**

  Enables precise lighting control and clear imaging

### Over-driving

Over-driving to maximize LED performance

### High capacity

High speed pulse generation of not longer than 0.5us at a current of up to 200A

### Multi Sequence

Multi-strobing imaging function with the sequence function

### Fast Current Response

World's Highest Response Speed

### Auto Voltage

Reduction of heat generation and Wide power supply selection

### LED Protection

LED protection by automatically adjusting the current drive waveform

# Strobe Controller - iPulse

inVISION TOP INNOVATION 2025

- **High-power LED controller**
  Designed for machine vision applications with iCore's unique expertise
- **High-speed, high-efficiency current control**
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- **Advantages in High-speed Inspection**
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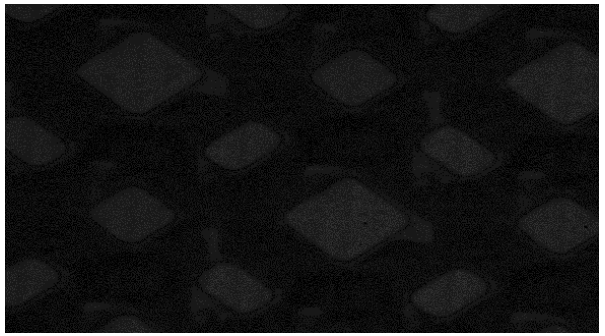
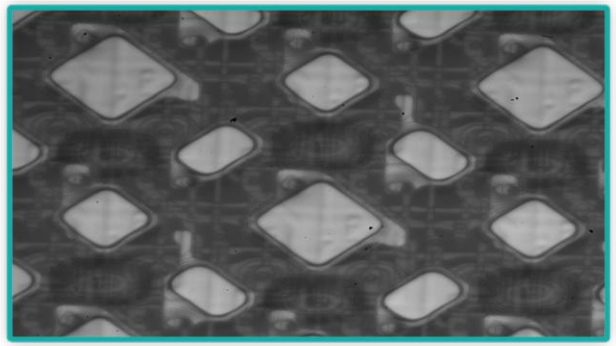





Over-driving

Over-driving to maximize LED performance

# Strobe Controller - iPulse

inVISION TOP INNOVATION 2025

- **High-power LED controller**

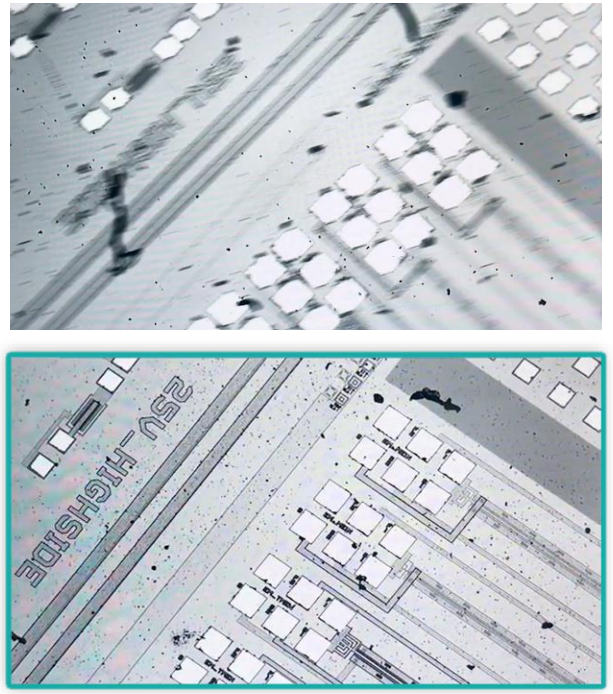
  Designed for machine vision applications with iCore's unique expertise

- **High-speed, high-efficiency current control**

  -precise pulses of 0.5µs at 200A current.

- **s in High-speed Inspection**

  lighting control and clear imaging




MAX

200A

## High capacity

High speed pulse generation of not longer than 0.5us at a current of up to 200A

# Strobe Controller - iPulse


inVISION TOP INNOVATION 2025

- **High-power LED controller**

  Designed for machine vision applications with iCore's unique expertise

- **High-speed, high-efficiency current control**

  Generates ultra-precise pulses of 0.5µs at 200A current.

- **Advantages in High-speed Inspection**

  Enables precise lighting control and clear imaging

X10

### Over-driving

Over-driving to maximize LED performance

MAX 200A

### High Capacity

High speed pulse generation of not longer than 0.5us at a current of up to 200A

### Multi Sequence

Multi-strobing imaging function with the sequence function

< 0.5us

### Fast Current Response

World's Highest Response Speed

### Auto Voltage

Reduction of heat generation and Wide power supply selection

### LED Protection

LED protection by automatically adjusting the current drive waveform

# iPulse - Performance Comparison

icore

## ■ LineScan camera's Application – Maximum Frequency

| iCore | |
|---|---|
| **Model** | **Max. Frequency** |
| IP-1P1S-20A | 300kHz |
| IP-1P1S-50A | 300kHz |
| IP-1P1S-100A | 300kHz |
| IP-2P2S-20A | 300kHz |
| IP-2P2S-50A | 300kHz |
| IP-2P2S-100A | 300kHz |
| IP-4P4S-20A | 300kHz |

| Gardasoft | |
|---|---|
| Model | Max. Frequency |
| RCxxx | 0.1kHz |
| RTxxx | 1kHz |
| PP5xx | 50kHz |
| PP4xx | 50kHz |
| PP8xx | 100kHz |
| PP16xx | 100kHz |
| HT | 100kHz |

[Reference : Gardasoft Application Note]

300kHz **Max. Frequency** 50-100kHz

# iPulse - Performance Comparison

## ■ Max Pulse Current and High Power LED

| iCore | |
|---|---|
| **Model** | **Max. Pulse Current** |
| IP-1P1S-200A | 200A |
| IP-2P2S-200A | 200A |
| IP-2P2S-200B | 200A |

| Gardasoft | |
|---|---|
| **Model** | **Max. Pulse Current** |
| HTxxx | 50A |
| RTxxx / PP8xx / PP16xx | 20A |
| PP4xx / PP5xx | 10A |

[Reference : Gardasoft Application Note]

| | | |
|---|---|---|
| 200A | Max. Pulse Current | 50A |
| 80V | Max. LED Voltage | 48V |
| 9,600W | Max. Total Power | - |

# iPulse - Performance Comparison

icore

## ■ Min. Pulse Width and Delay time

| iCore | |
|---|---|
| **Model** | **Min. Delay** |
| All iPulse | 0.5μs |

| Gardasoft | |
|---|---|
| **Model** | **Min. Delay** |
| RTxxxF | 4μs to 10μs |
| PP8xx | 4μs to 10μs |
| PP4xx / PP5xx | 20μs |
| PP4xxF / PP5xxF | 4μs to 10μs |

[Reference : Gardasoft Application Note]

# iPulse - Performance Comparison

■ Built In 'Sequence, Auto Voltage, LED Protection Function'

## iCore

### Multi Sequence

Multi-strobing imaging function

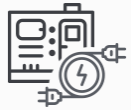
### Fast Current Response

World's Highest Response Speed

## Built-In on All iPulse

### Led Protection

LED protection by automatically adjust ing the current drive waveform



### Auto Voltage

Reduction of heat generation and Wide power supply selection

## Gardasoft

| Model | SafeSense | SafePower |
|---|---|---|
| RC4xx | ○ | ○ |
| RT8xx | ○ | ○ |
| PP5xx | ○ | X |
| PP4xx | ○ | X |
| PP8xx | X | X |
| PP16xx | X | X |
| HTxxx | ○ | ○ |

[Reference : Gardasoft Application Note]

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# iPulse - Line up

## Offer a wide range of series to suit various applications

### 'A' Series


#### Short Pulse Width & Overdrive

| 1CH | 2CH |
|---|---|
| 1P1S-20A | 2P2S-20A |
| 1P1S-50A | 2P2S-50A |
| 1P1S-100A | 2P2S-200A |
| | 2P2S-200B |
| 4CH | 8CH |
| 4P4S-20A | 8P8S-20A |
| 4P4S-50A | |

### 'C' Series for Linescan


#### Strobe & Continuous Mode (No-Overdrive)

| 1CH | 2CH |
|---|---|
| 1P1S-2C | 2P2S-2C |
| 1P1S-5C | 2P2S-5C |
| 4CH | 8CH |
| 4P4S-3C | 8P8S-3C |

### Low Speed Series

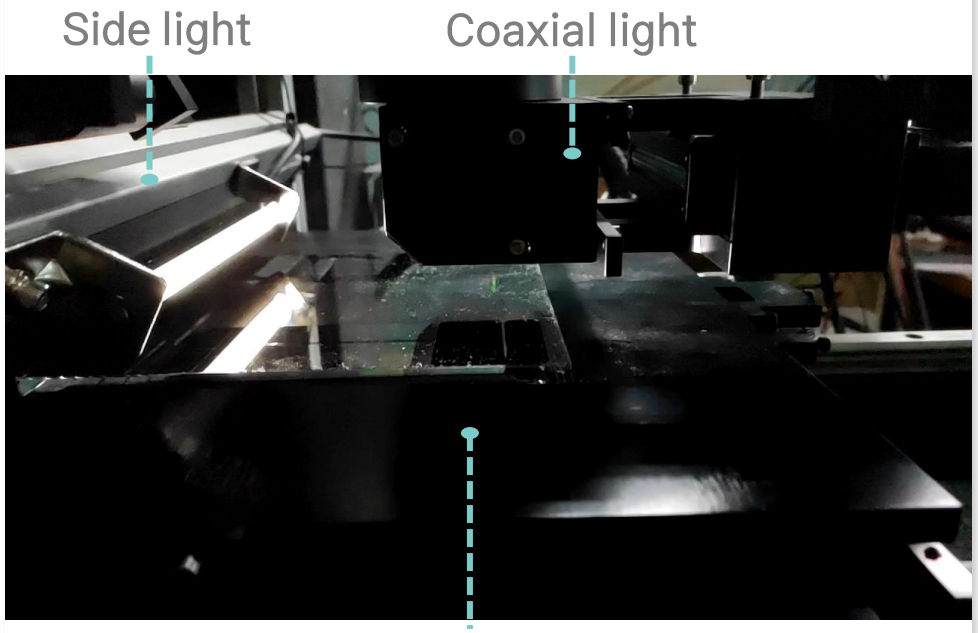

#### Long Pulse Width & Overdrive

| 1CH | 4CH |
|---|---|
| 1P1S-200A | 1P4S-20A |
| | 1P4S-50A |
| | 1P4S-100A |

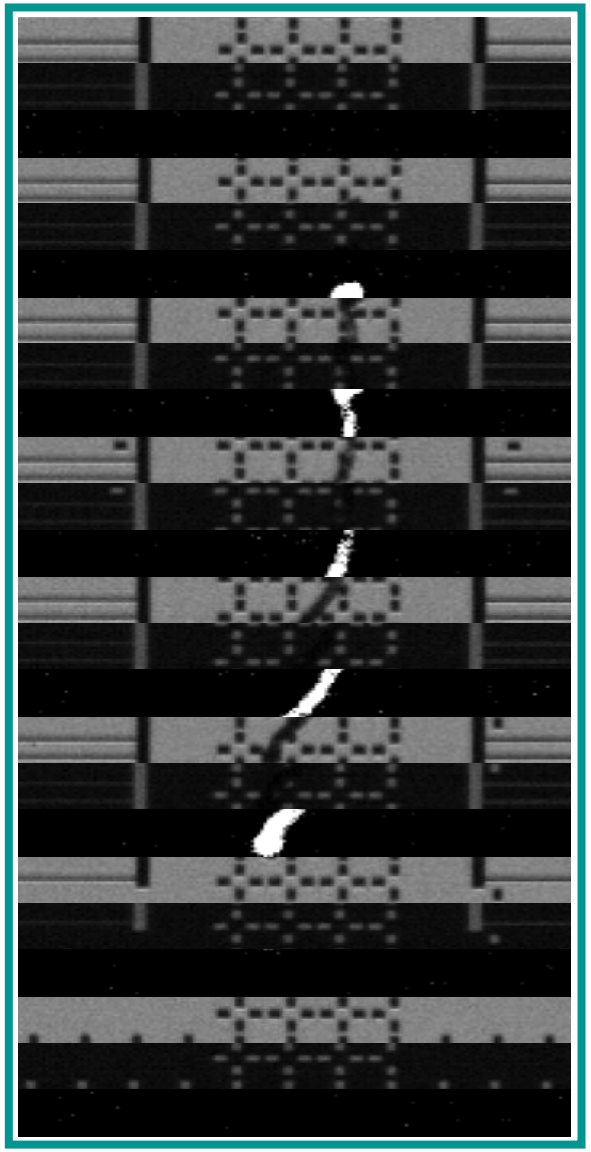
# iPulse - Demonstration

## Multistrobing Demonstration

Multi strobing using 3 lights




## Image Buffer



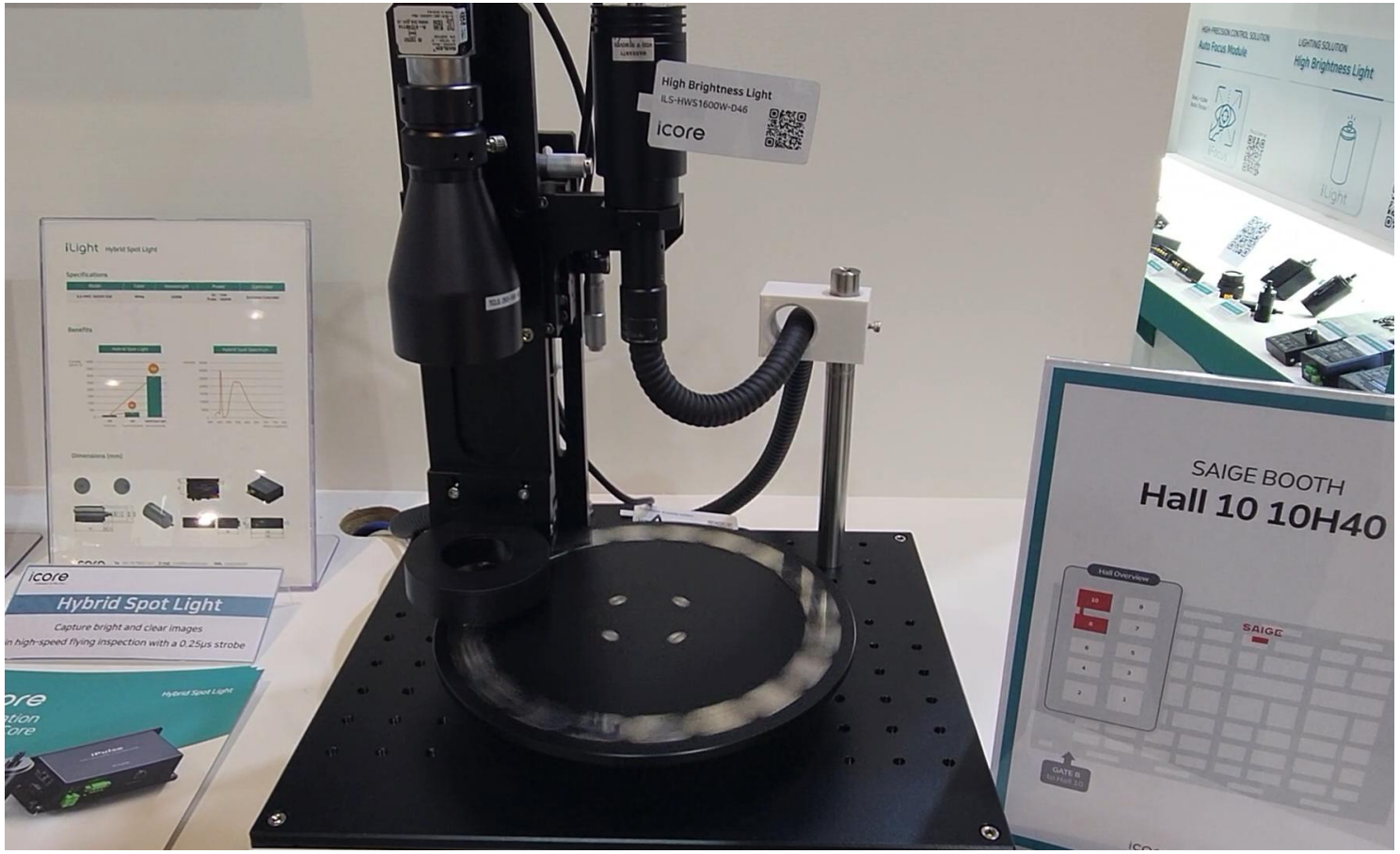
## Back Light

## Coaxial Light

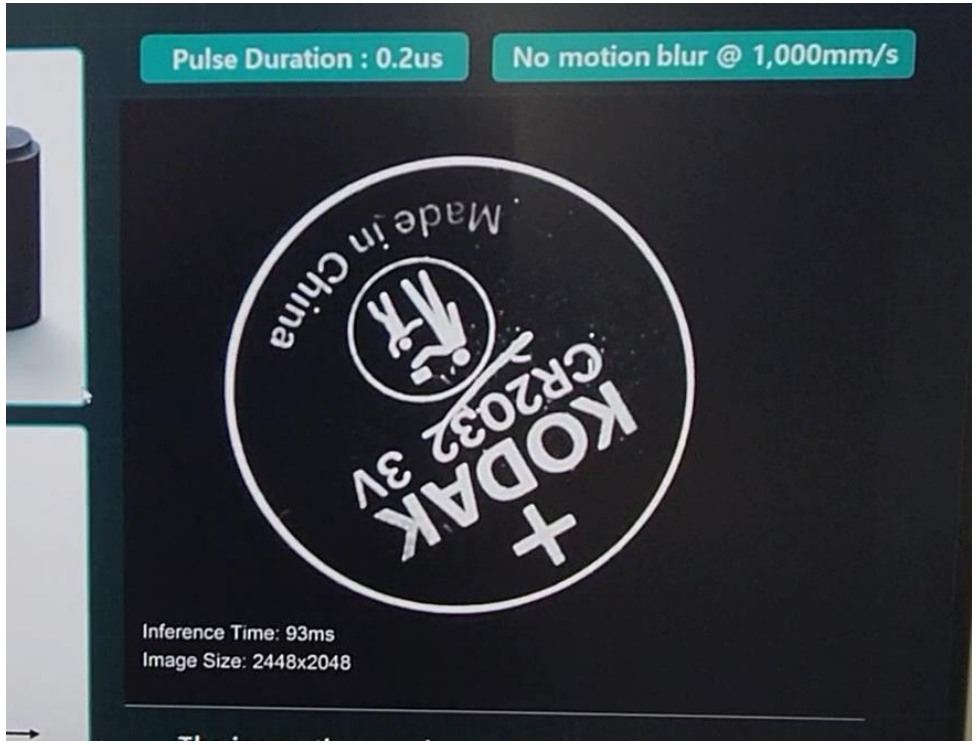
## Side Light

# iPulse - Demonstration

On The Fly applications, providing a complete image at travel speeds up to 1000 mm/s.




**0.2us** Pulse Width,
Spinning Speed at **1,000mm/s**



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# iPulse - COM Series (TBD)

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## Powerful, cost-effective products

NEW



Feature

- 0.5μs high-speed response
- Min. Pulse Width 4μs
- Up to 10× overdrive
- Max. Frequency 70kHz
- Cost-effective product
- individual channel triggering

Sample will be available within 2Q 2025

Lineup

| 2CH | 4CH | 8CH | 16CH |
|---|---|---|---|
| IP-COM0202 | IP-COM0402 | IP-COM0802 | IP-COM1602 |
| IP-COM0210 | IP-COM0410 | IP-COM0810 | IP-COM1610 |
| IP-COM0220 | IP-COM0420 | IP-COM0820 | IP-COM1620 |

# iPulse - Performance Comparison

## Powerful Performance at a Competitive Price Compared to Other Brands

| iCore (COM Series) | | Gardasoft (PPXXX) |
|---|---|---|
|  | |  |
| 4µs | Min. Pulse Width | 4µs |
| 20A | Max. Current | 20A |
| 0.5µs | Delay Time | 8µs |
| 70kHz | Max. Frequency | 70kHz |

# High Brightness Light

iLight

# High Brightness Light - iLight


- **Ultra-High-Brightness Lighting Solution**

  An alternative to standard LED and xenon lamps

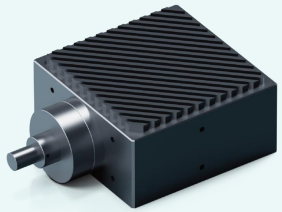
- **The optimal solution for high-speed, high-magnification inspection when paired with iPulse (strobe controller)**

- **Offers a diverse lineup of high-brightness lighting solutions**

  Includes Hybrid Spot Light with Laser and LED technology and high-brightness Spot Lights with a 0.5µs response time.

Line up

Hybrid Spot Light



RGB Spot Light

LED Spot Light (29mm)

High Power LED Spot Light (45mm)

# iLight - Hybrid Spot Light (M1)

## Hybrid Spot Light combining Laser and LED, offering an alternative to standard LED and xenon lamps


### Feature

- **Hybrid Spot Light with Laser and LED**

  An alternative to standard LED and xenon lamps

- **Superior Brightness and Long Lifespan**

  30 times brighter than standard LEDs with a stable 10,000-hours lifespan

- **Advantages in High-speed, High-magnification Inspection**

  Enables precise lighting control and clear imaging

### Line up

| Model | Color | Wavelength | Power | Controller |
|---|---|---|---|---|
| ILS-HWS1600G-D46 | Green | 540nm | DC : 10W<br>Pulse : 1600W | IP-HYBRID-M1 |
| ILS-HWS1600W-D46 | White | 5500K | DC : 10W<br>Pulse : 1600W | IP-HYBRID-M1 |

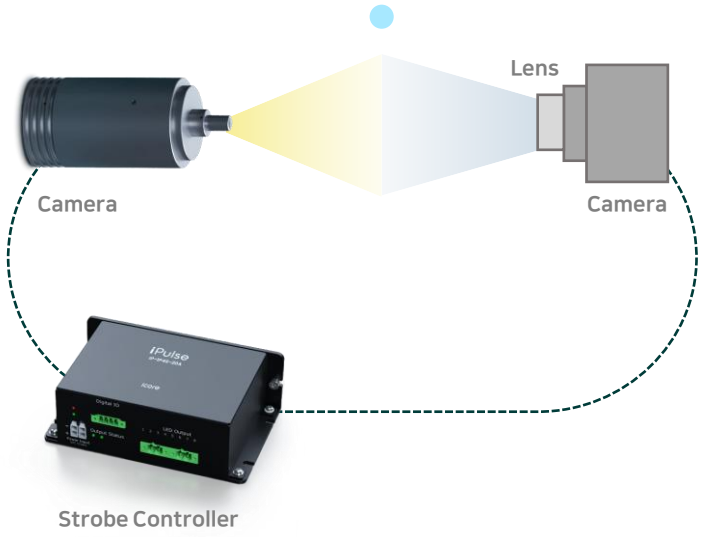
# iLight - Performance Comparison

| iCore (Hybrid Spot M1) | | XENON (NP-3/NPL-180) |
|---|---|---|
|  | |   |
| Not required | Charging | Required |
| Good | Brightness | Good |
| Good | Modularization | NG |
| Good | Power Consumption | NG |
| Mid | Cost | High |
| 10,000 ~ 30,000H | Lifespan | 1,000~3,000H |

# iLight - Application

Drop Watcher - iCore's lighting solutions are optimized for high-speed, high-precision inspection.

[Drop Watcher Application]





International Printing Technology Association
New Technology Registration

Presentation at APT 2024
(Advances in Printing Technology)

# iLight - Hybrid Spot Light (M2)

PRELIMINARY

NEW


Feature

3X brighter than Hybrid Spot light M1

Sample will be available within 2Q 2025

Line up

| Model | Color | Wavelength | Power | Controller |
|---|---|---|---|---|
| ILS-HWS4800W-S46 | White | 5500K | 4800W@Pulsed | IP-HYBRID-M2 |

# iLight - RGB Spot Light Coaxial

## High Brightness Spot Light with Independent RGB Control

NEW

Feature

- **Various Color Output**

  Generates diverse light colors through individual or combined RGB control
  Capable of detecting various defects

- **Compact Design**

  With its compact product size, it can be combined with iPulse for stable use

Line up

| Model | Color | Wavelength | Power | Controller |
|---|---|---|---|---|
| ILS-RGB80A-COA | RGB | 613(R) / 555(G) / 455(B) | 20W x 3 | 4A(R) / 5A(G) / 5A(B) |

# iLight - Line up

Offering a range of series to suit diverse needs.

## LED Spot Light (29mm)

- 29mm Spot Light with higher brightness and uniformity
- Enhanced performance over typical spot lights
- Compatible with iPulse for reliable overdrive

## High Power LED Spot Light (45mm)

- High Power Spot Light with excellent light concentration and uniform output
- AR-coated optical system for high efficiency
- Condenser & focusing lens for precise focus adjustment
- Wide wavelength range from UV to NIR

# iLight - Performance Comparison

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## ■ Stroboscopic Light Levels

## Hybrid Spot VS 20W Spot Light

☐ Test Conditions

Light (Strobe Controller)
: Hybrid Spot Light – ILS-HWS1600W-D46 (IP-HYBRID-M1)
: LED Spot Light - ILS-W20A-D29 (IP-1P1S-50A)

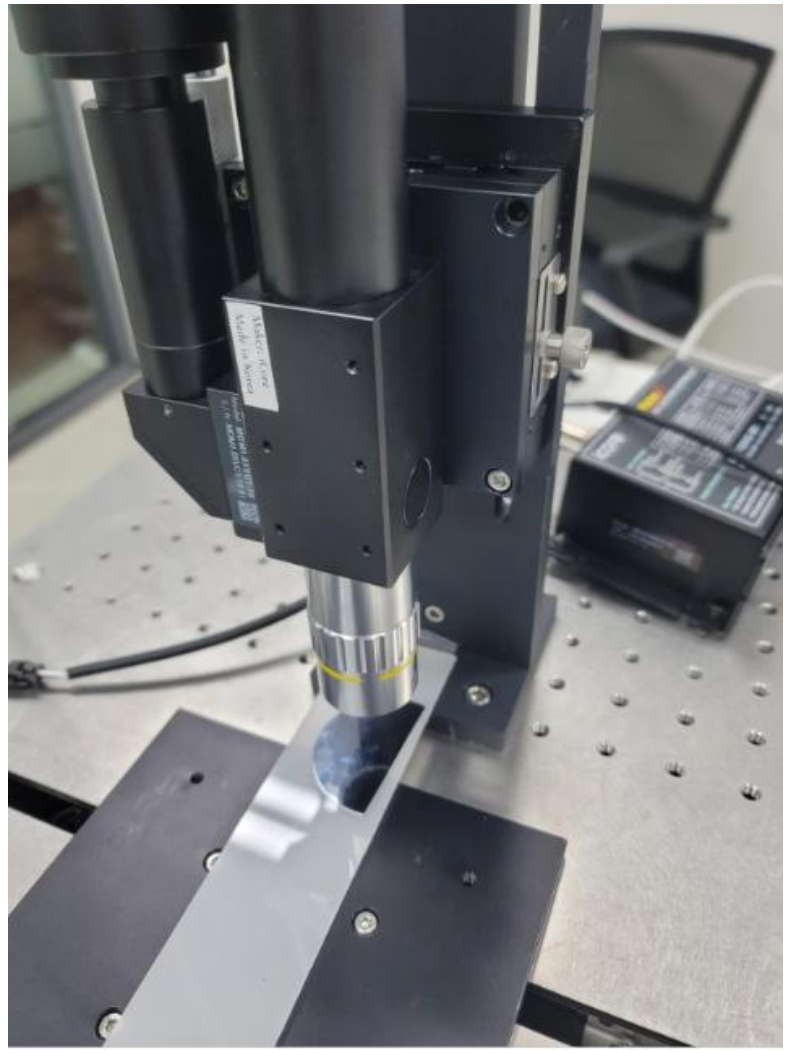
Camera : Aca2500-60um (Basler)

Lens : M Plan Apo 10x (Siwon)

Resolution : 0.48um

Acquistion : 20fps, free-run

Pulse Duration : 0.3 / 1us – 1000% Overdrive



# iLight - Performance Comparison

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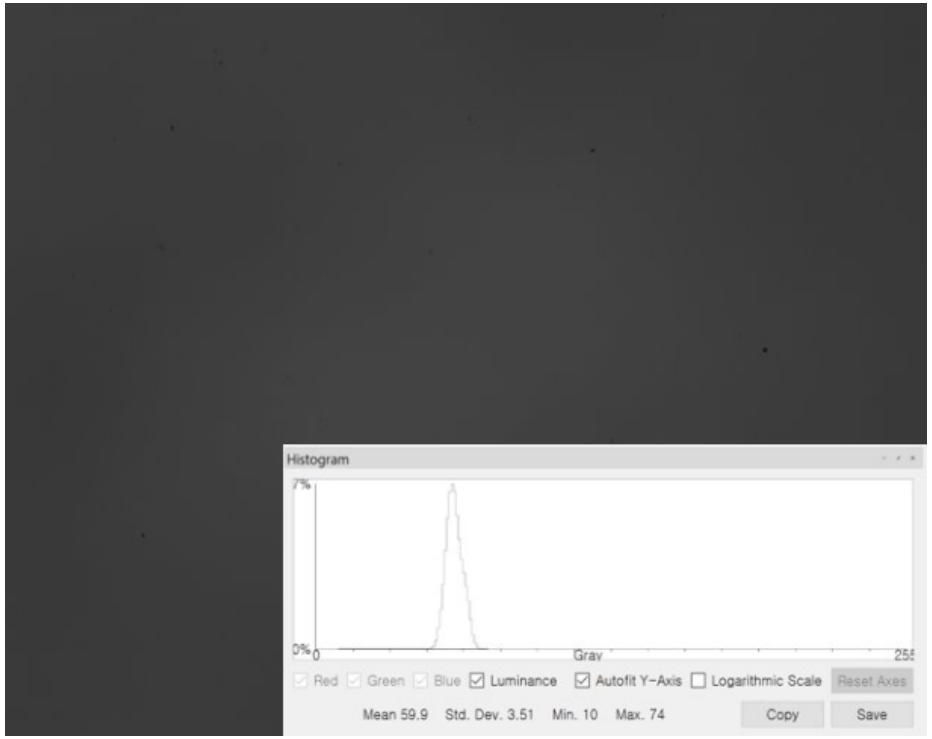
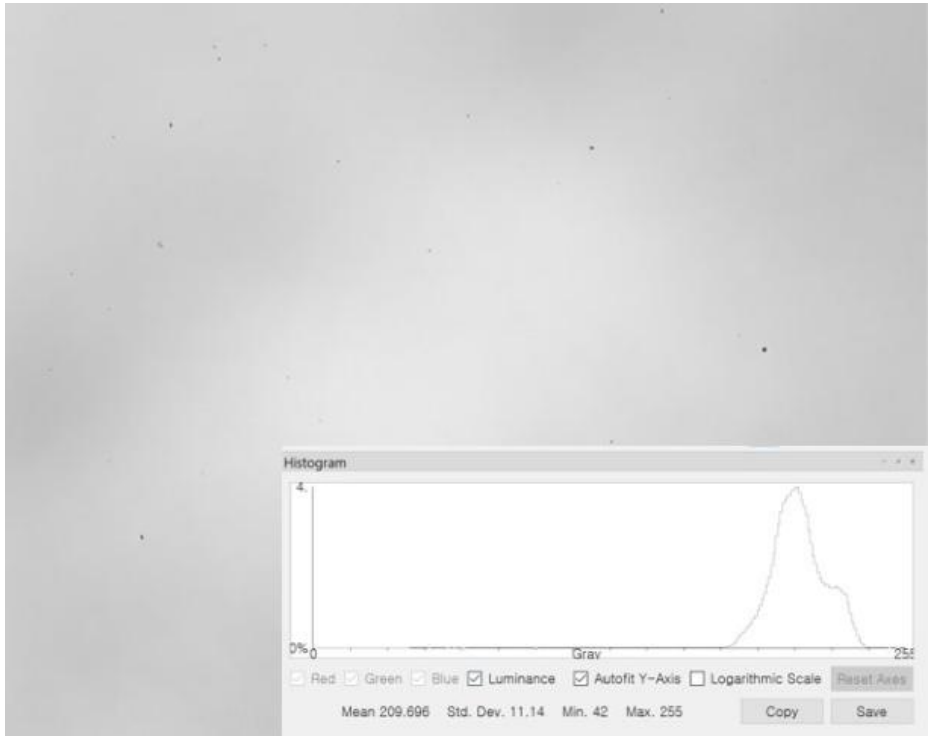
☐ Test Result @ 1us




1us LED GL : 59.9

x 3.5




1us Hybrid GL : 209.7

**The Hybrid Spot Light is 3.5~3.7 times brighter than the LED Spot Light**

# iLight - Performance Comparison

## ■ Stroboscopic Light Levels

## Hybrid Spot VS R company's 600W light source

☐ Test Conditions

Light (Strobe Controller)
: Hybrid Spot Light – ILS-HWS160W-D46
: SLG-600V2(φ8mm Fiber)

Camera : STC-MBS122BU3V
(Omron Sentech)

Lens : M Plan Apo 5x, 10x 20x
(Mitutoyo)

Camera Exposure : 12μs

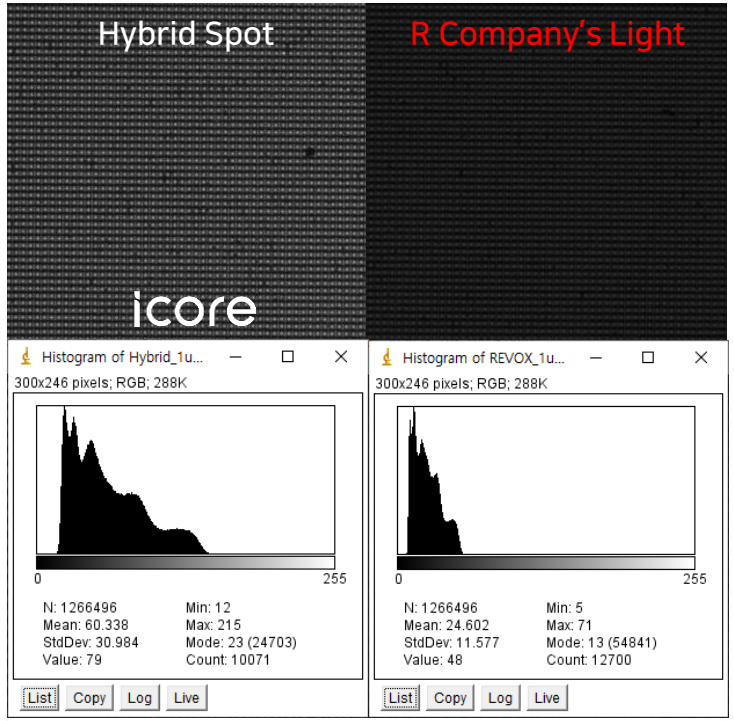
Pulse Duration : 1μs / 2μs

Pulse Brightness : 1000% (Overdrive)
SLG-600V2 (Light Value : 1,023)

# iLight - Performance Comparison

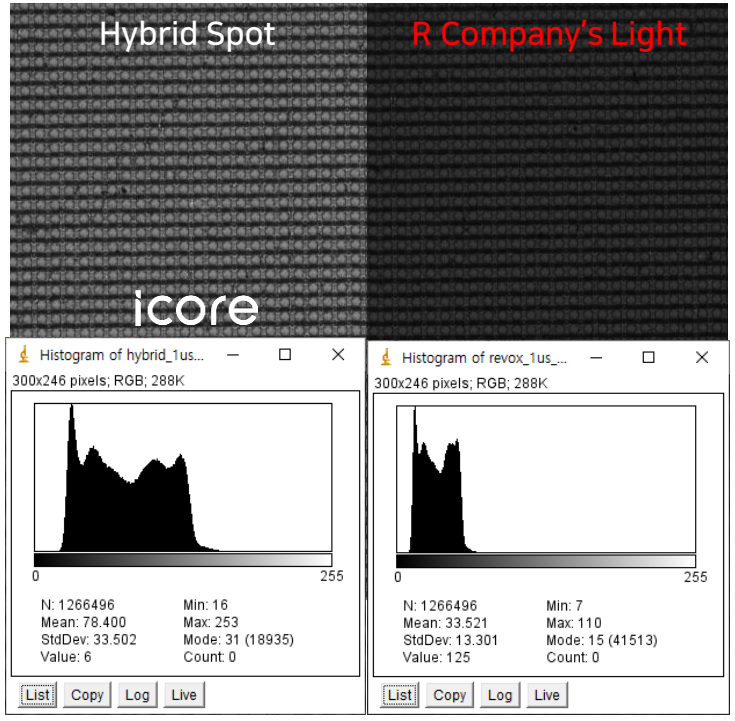
☐ Test Result @ Hybrid spot lights are twice as bright as light sources at strobe pulse widths below 50us

## Lens : 5x
## Duration : 1usec



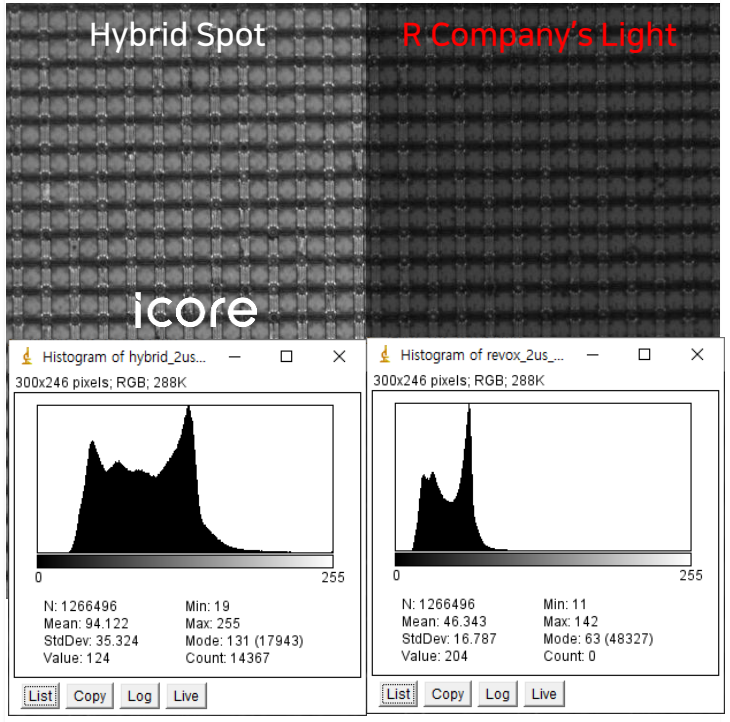

| 60.388 | 24.6032 |
|---|---|

## Lens : 10x
## Duration : 1usec




| 78.400 | 33.521 |
|---|---|

## Lens : 20x
## Duration : 2usec




| 94.122 | 46.343 |
|---|---|

# iLight - Performance Comparison

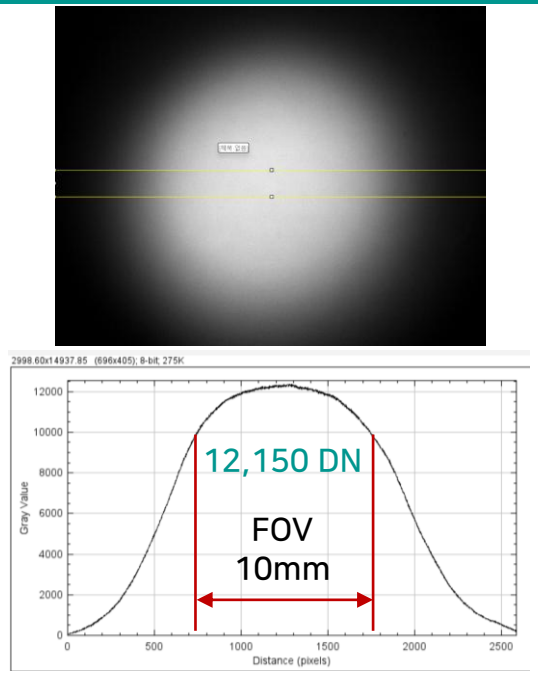
■ Hybrid Spot Light can be connected fiber with small FOV for high speed inspection


# iLight - Performance Comparison

icore

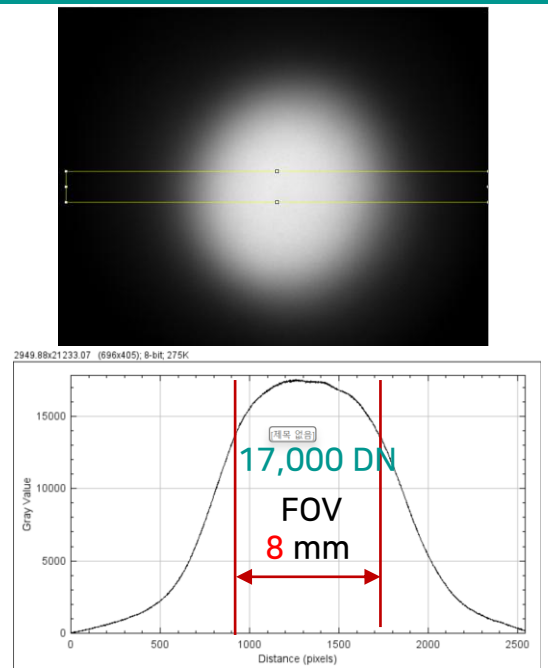
## ☐ Test Result @ Brightness comparison

### R社 600W2



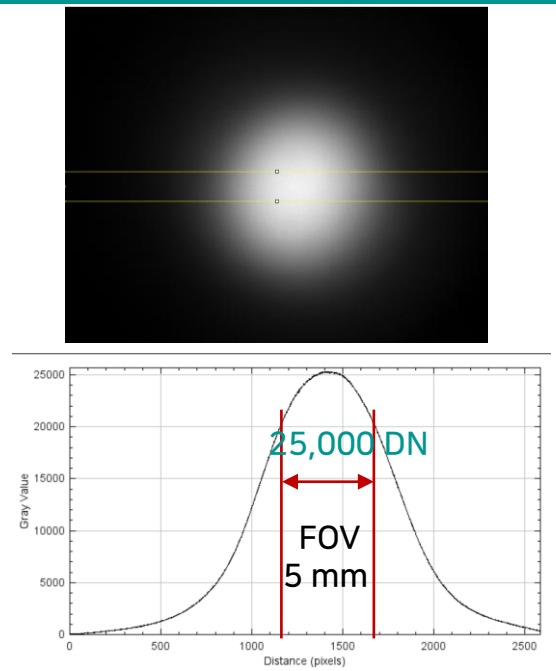

| Brightness of Center | FOV Size **2) |
|---|---|
| 12150 DN | 10 mm |

### iCore Hybrid 1600W




| Brightness of Center | FOV Size |
|---|---|
| 17000 DN | 9 mm |

### iCore Hybrid 1600W + (Beam Adjustment) **1)




| Brightness of Center | FOV Size |
|---|---|
| 25000 DN | 5 mm |

**1) The fiber incident angle is adjusted to increase the amount of light in the center.

**2) In the measured image, the illumination FOV based on center brightness and 80% uniformity is measured by measuring the profile of the Horizontal Box in the yellow area.

# iLight - Performance Comparison

☐ Test Result @ Brightness comparison in the 30us On-Time interval based on maximum output

| | R社 600W V2 | Hybrid 1600W + Fiber | iCore LED 250W (Over –Driving) |
|---|---|---|---|
| Total amount of light [mV] **1) | 536 | 406 | 548 |
| Total amount of light after passing through 5mm fiber [mV] **1) | 138 | 216 | 66 |
| Brightness in Fiber Output [cd/mm^2] **2) | 1180 | 2400 | 486 |

**1) The total amount of light is measured by measuring the total amount of light emitted from all angles measured through the integrated sphere and measuring the voltage measured by the Lumen Meter.

**2) The measured value is measured using a high speed luminance meter. As a result of measuring the brightness output at a unit radiation angle in an area of 1 mm^2, the higher the luminance, the more advantageous it is to concentrate light in a small FOV area such as a microscope.

# Auto Focus Module

iFocus

# Auto Focus Module - iFocus

- **FPGA-Based Real-Time Autofocus Module**

  Using Through The Lens (TTL) Type / Optical Triangulation Type

- **High-Precision Defect Detection in automatic optical inspection (AOI)**

  Applied in high-magnification optical systems for real-time detection of defects smaller than 1μm.

- **Customization Optimized for Inspection Environments**

  Enhanced precision through the selection of optical lenses, autofocus sensors, and Z-axis actuators

### FPGA

High-speed FPGA-based

### Real Time

Real-time location measurement

### Capture Range

± 1500um

Capture Range :
± 1500μm

### Focus Update Rate

1.2kHz

Focus Update Rate
Max. 1KHz

### Multi Layer

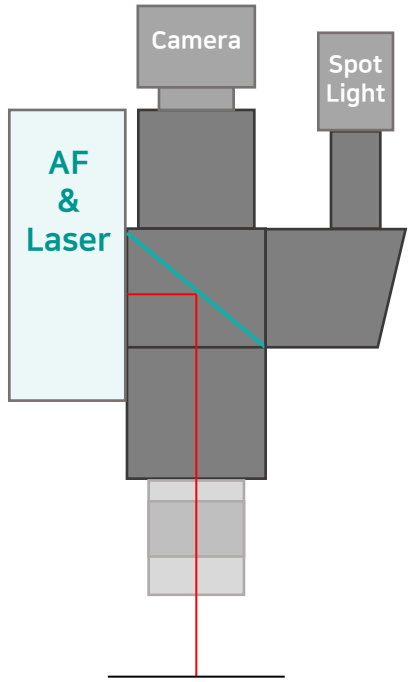
Available Multi Layer
(Max. 5)

# Auto Focus Module - iFocus

## iFocus using Through The Lens (TTL) Type / Optical Triangulation Type

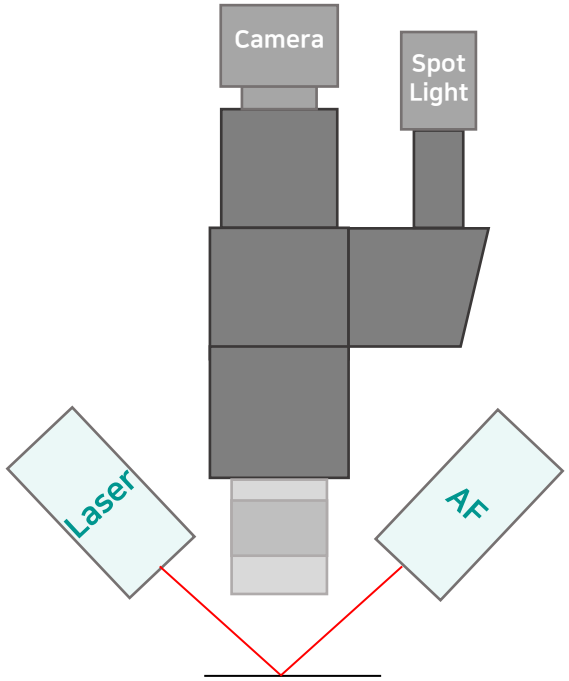
### Through The Lens (TTL)

NEW



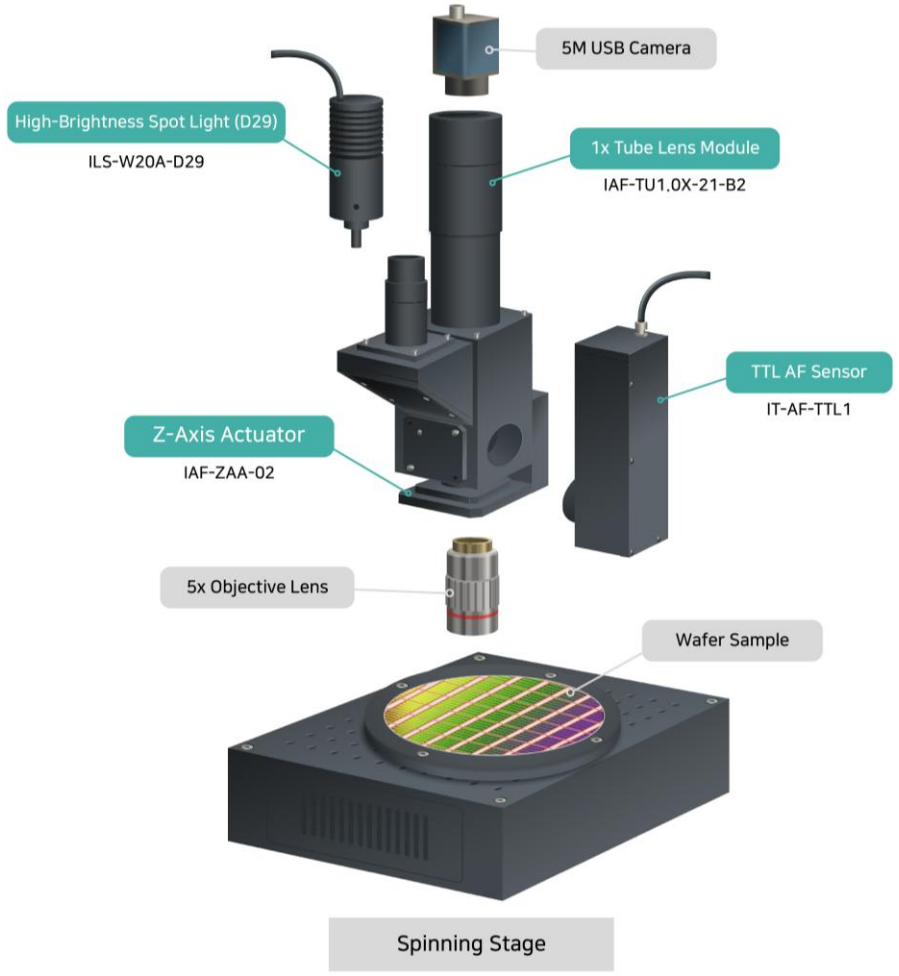

Measures the distance to the sample based on laser light entering through the internal path of the lens to adjust the focus.

### Optical Triangulation

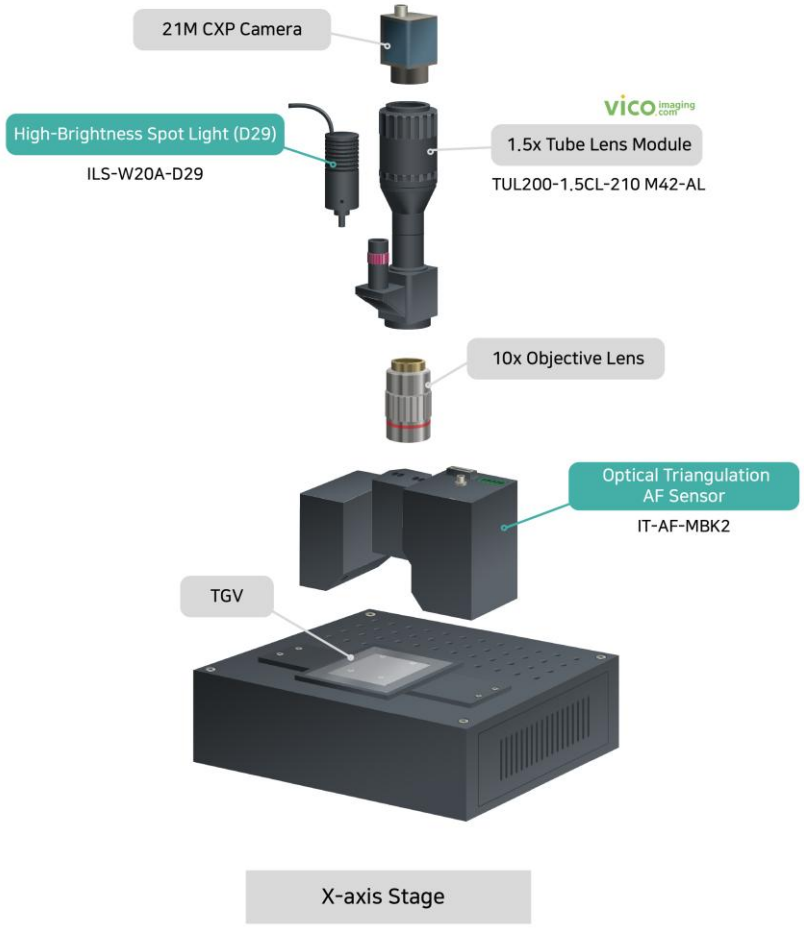



Measures distance by detecting laser beam displacement and adjusts focus in real time using optical triangulation

# Auto Focus Module - iFocus




## Through The Lens (TTL)




## Optical Triangulation

# iFocus – Through The Lens

**IT-AF-TTL1**

NEW

Feature

- Wide-range lighting can be used without laser interference
- Specialized for high-magnification optical systems of 20x or higher

* Requires a custom-designed tube lens and Z-axis control

Specification

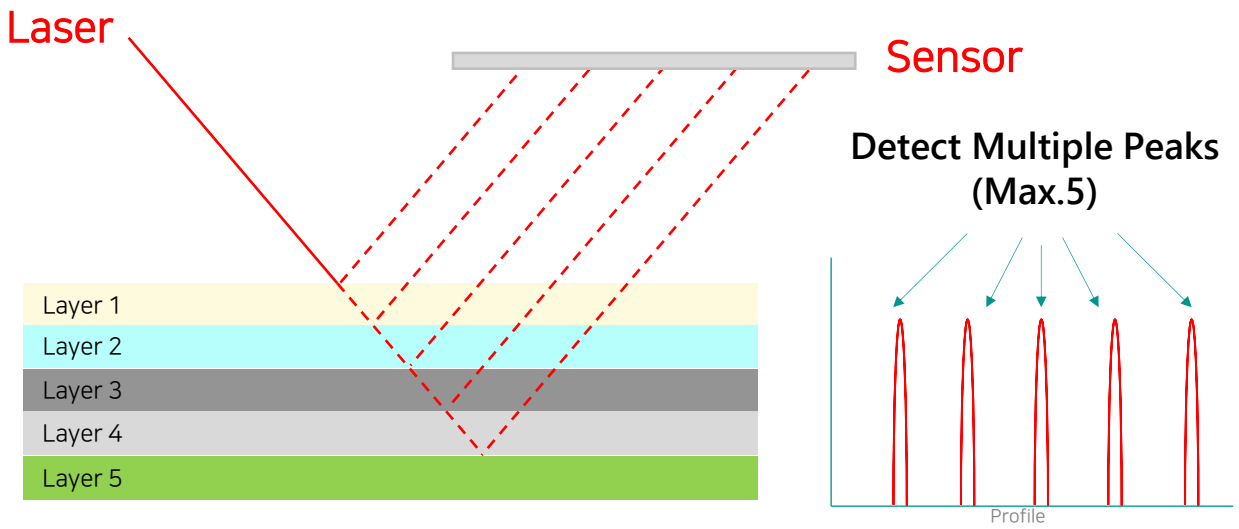
| | |
|---|---|
| Focus Update Rate | 1.2kHz |
| Sensing Type | Through The Lens |
| Interface | RS485 (9,600bps~921,600bps) |
| Input Voltage | 24V, 0.5A |
| Function | Auto Exposure / Auto Laser Control / Laser Brightness Control by PD Feedback |

# iFocus – Triangulation Type


Feature

- ±1,500μm Wide Capture Range
- Supports Up to 5 Multi-Layer Measurements

Multi Layer Tracking



# iFocus – Auto Focus Sensor for Triangulation Type

## IT-AF-MBK2

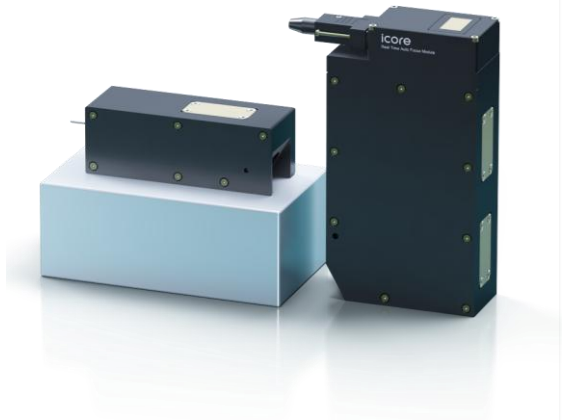
NEW

- Optimized for objective lenses
- An integrated unit of AF sensor and l aser module
- Compact size that wraps around the tube lens

## IT-AF-M1

- Auto Exposure / Auto Laser Control
- Combines displacement, motion, an d laser control for auto focus
- Multiple Layer Detection (Max.5)

## IP-AF1



- Outputs height values as analog dat a
- Fast sampling speed of 50kHz
- Output Gain / Offset Control

# iFocus – Tube Optic & Z-Axis

## IAF-TU Series Lens

It can be customized to meet customer needs, including changes to the magnification of the tube lens, adding a beam splitter for coaxial lighting, and further configurations for TTL Autofocus.

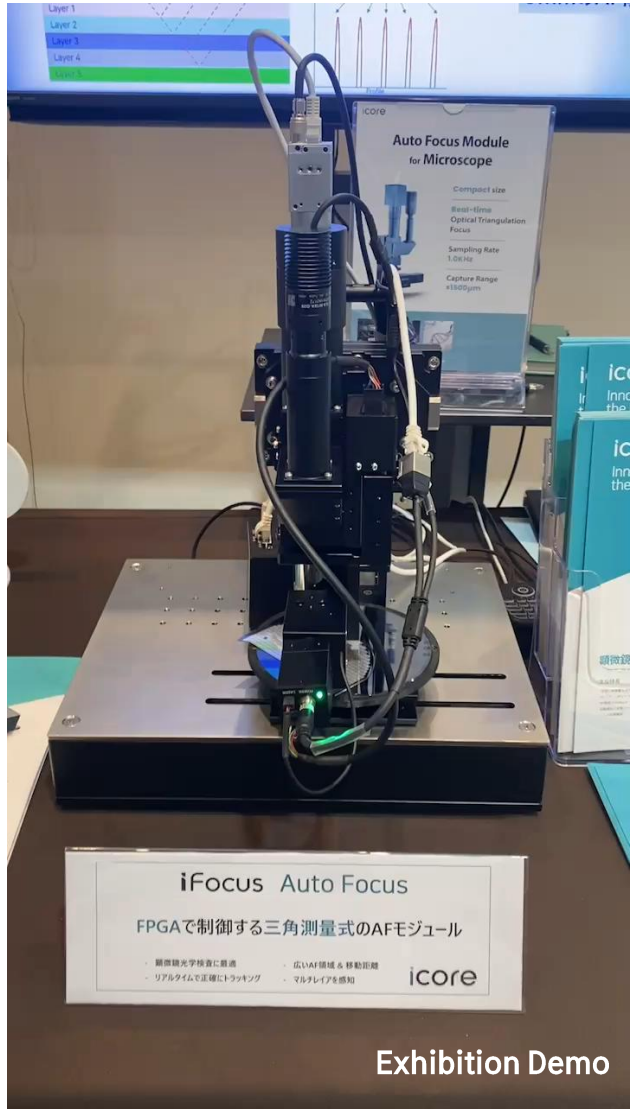
IT-AF-TTL1 IT-AF-MBK2

## IAF-ZAA-01 Z-axis Actuator

Z-Axis Actuator for Entire Optical System Movement
This universal Z-Axis Actuator is suitable for a wide range of lenses, including general FA lenses, large-diameter lenses, and microscope lenses.

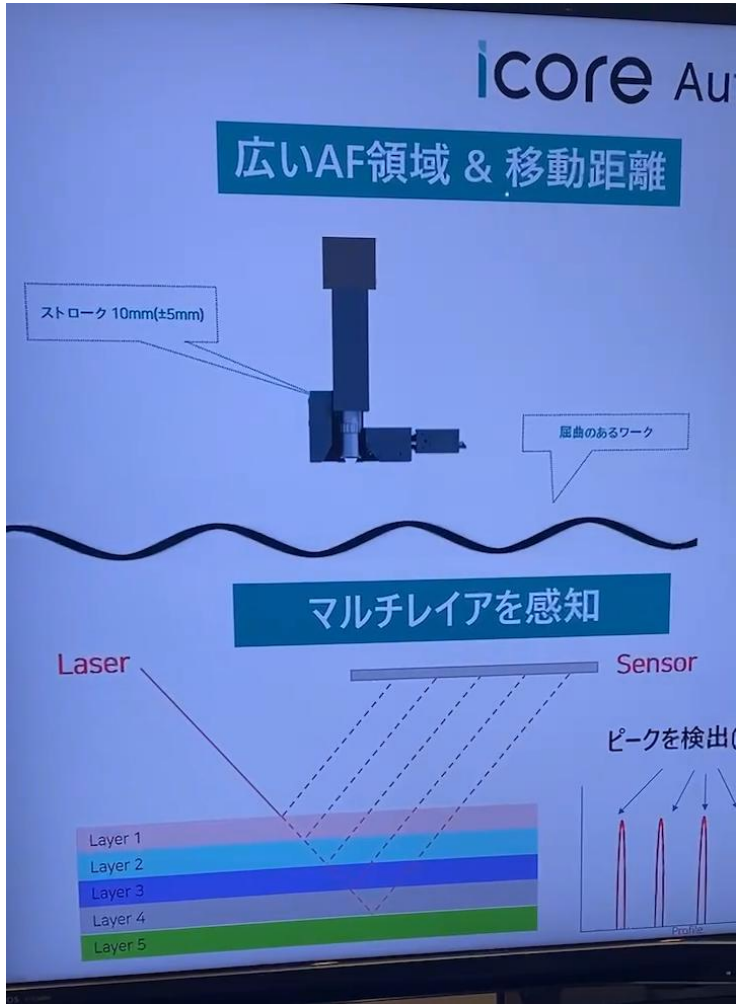
IT-AF-MBK1 IT-AF-MBK2 IT-AF-M1

# iFocus – Demonstration of Triangulation Type



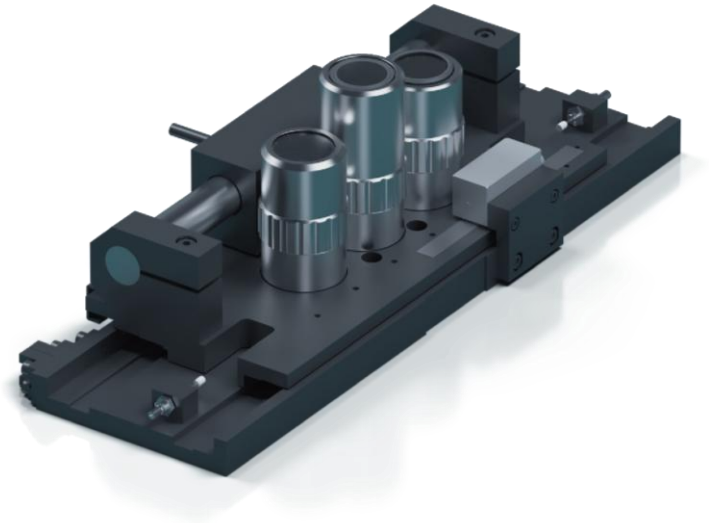

Exhibition Demo

Magnification @ 5x, 10x, 20x



# iFocus – Linear Lens Changer

## An Objective Lens Changer based on a high-speed Linear Shaft motor



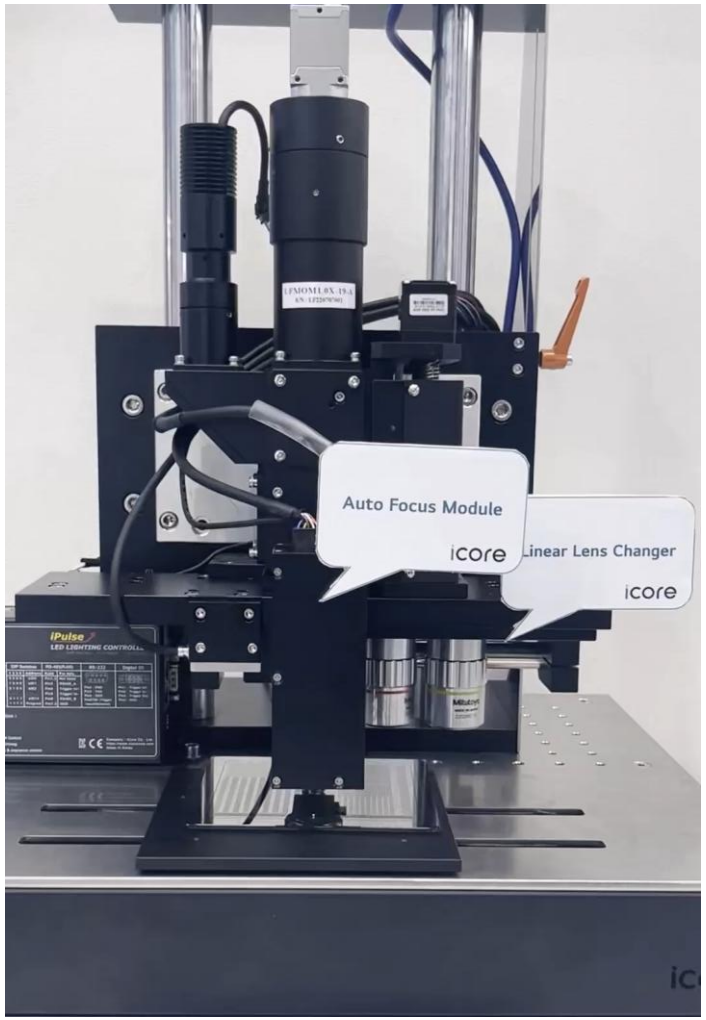
### Feature

- Shift the adjacent lenses within 0.2 seconds, ensuring ±1μm accuracy
- Supports mounting from 3 up to 5 lenses.

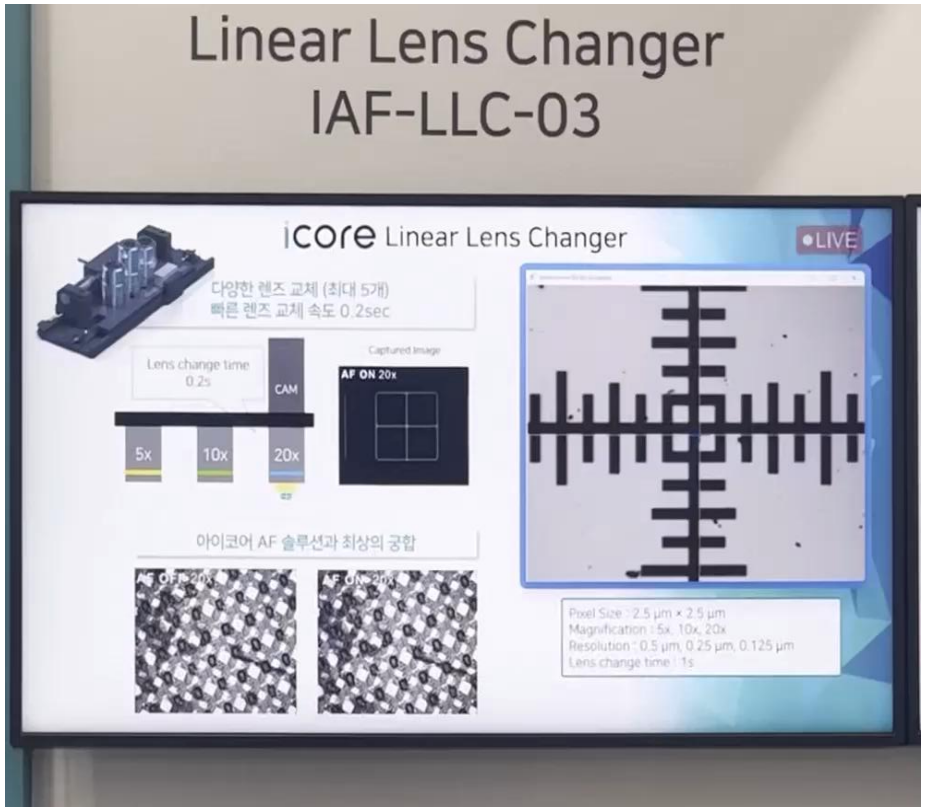
### Specification

| | |
|---|---|
| # of Lens port | 3 - 5 |
| Lens Spacing Center to Center | 38mm |
| Lens Changing Time | 0.2s |
| Linear Scale Encoder Resolution | 0.1㎛ |
| Accuracy | ±1㎛ |

# iFocus – Linear Lens Changer




Magnification @ 5x, 10x, 20x



# iFocus - How to choose RIGHT auto focus module?

icore

## Customized Selection of Optical Lens, Autofocus Sensor, and Z-Axis Control

### 01 Optical Lenses

**Microscope Lens**

Outstanding Resolution
at High Magnification

**FA Lens**

Compatible with Large-Dia
meter Cameras

### 02 AutoFocus Sensors

**IT-AF-MBK**

Optimized for Objective Lenses


**IT-AF-M**

Suitable for Large-Diameter
FA Lenses


**IT-AF-S**

Outputs Displacement Values
via RS232 Only

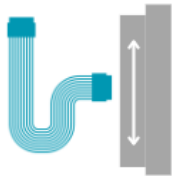
### 03 Z-axis actuators

**IAF-ZAA**

Controls Only the Z-Axis of
the Objective Lens

**IAF-XXX**

Controls the Z-Axis of the Entire
Optical System



**IAF-XXX**

Based on Customer's Motor
Driver

# Repeater & Splitter

iPlus

# Repeater & Splitter - iPlus


## Camera Link Repeater

Increases the transmission distance between the camera and the frame grabber without data loss


## Camera Link Splitter

Splits data captured by the Camera and transmits it to two or more Frame Grabbers

# CXP12 Repeater - iPlus

icore

CXP12 repeater guarantees transmission distances up to 10m + 10m


| CXP 12 Repeater | | | |
|---|---|---|---|
| **Model** | **IPULS-CXPR-HDB1** | **IPULS-CXPR-HDB2** | **IPULS-CXPR-HDB4** |
| Channel | 1CH | 2CH | 4CH |
| Downlink Data Rate | CXP-1 / CXP-2 / CXP-3 / CXP-5 / CXP-6 / CXP-10 / CXP-12 | | |
| Uplink Data Rate | 20.83Mb/s / 41.66Mb/s | | |
| Connector Type | Micro BNC (HD BNC) | | |
| Operating Temperature | 0℃ - 50℃ | | |
| Power Requirements | PoCXP 8 -30V DC | | |
| Power Supply | Power adapter (not included) or PoCXP compliant | | |
| Power Consumption | Typ. 0.3W | Typ. 0.5W | Typ. 0.8W |
| Dimension (W x H x L) | 54.4 x 27.8 x 29.5 (mm) | | 104.4 x 28.3 x 29.5 (mm) |

The Maximum Allowed Cable Length

| Model | CXP-6 | CXP-12 |
|---|---|---|
| Length between Camera and Repeater | 20m | 10m |
| Length between Camera and Grabber | 20m | 10m |

# Global Activities

We participate in global vision exhibitions to establish partnerships with global customer

- In 2024, Participated in 9 exhibitions across 7 countries


Vision China 2024
(China)

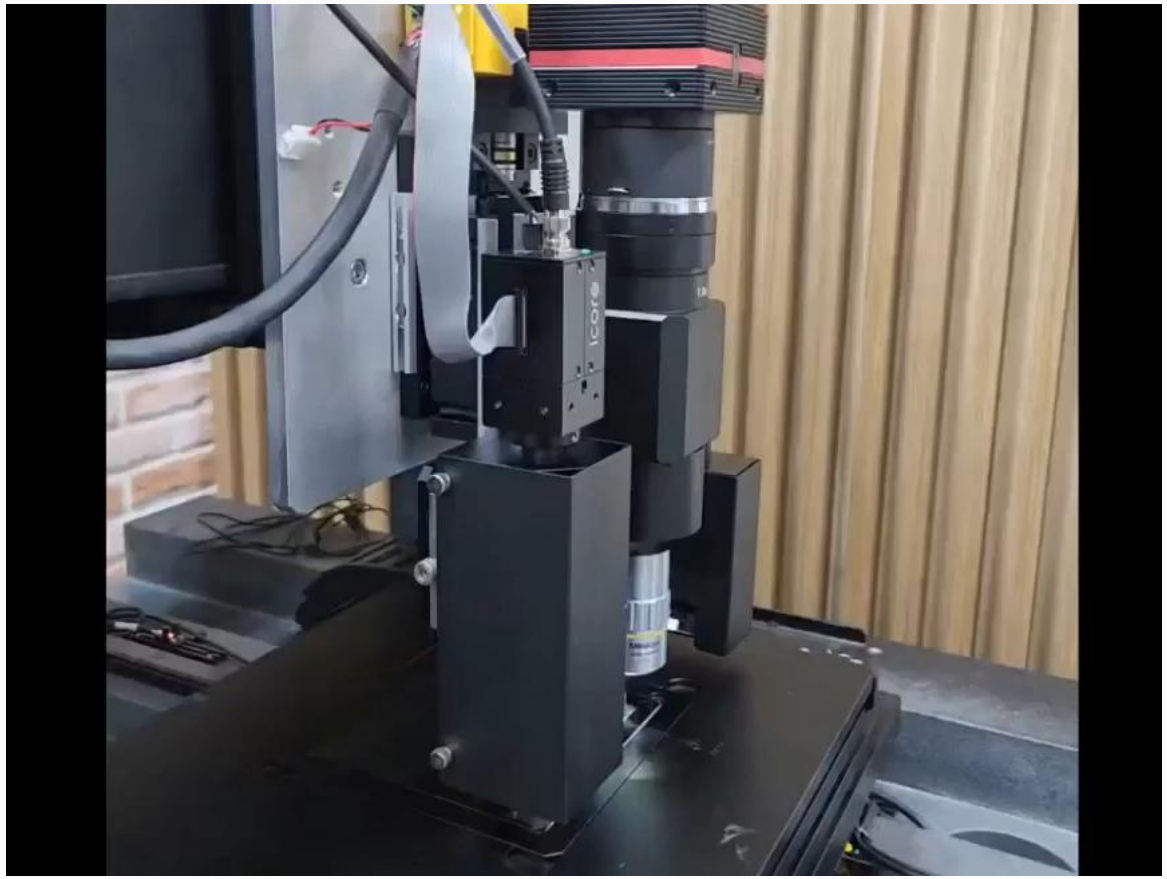

Vision 2024
(Germany)


ITE 2024 in YOKOHAMA
(Japan)

# Application - Large Format Camera AF

## Pattern Glass

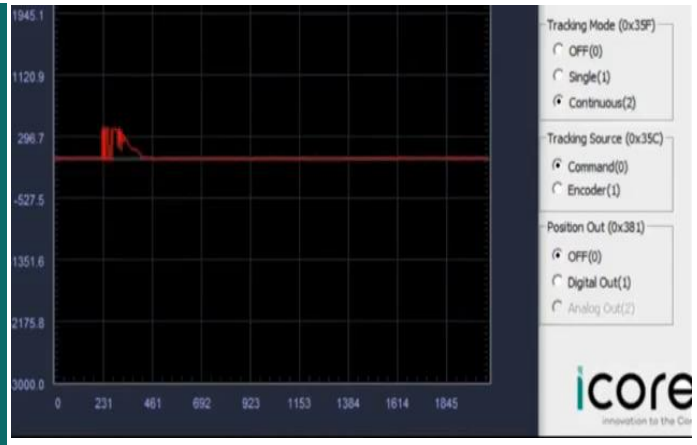
- Auto Focus Module : IT-AFM-V1
- Camera : VC-65MX- M35
- Image Sensor : Gpixel社 GMAX 3265
  (Pixel Size: 3.2 ㎛ × 3.2 ㎛)
- Lens : 10X (Mitutoyo Plan Apo)
- Tube Lens : 1x (Chiopt)
- Stage Speed : 200mm/s
- Warpage : 500 ㎛



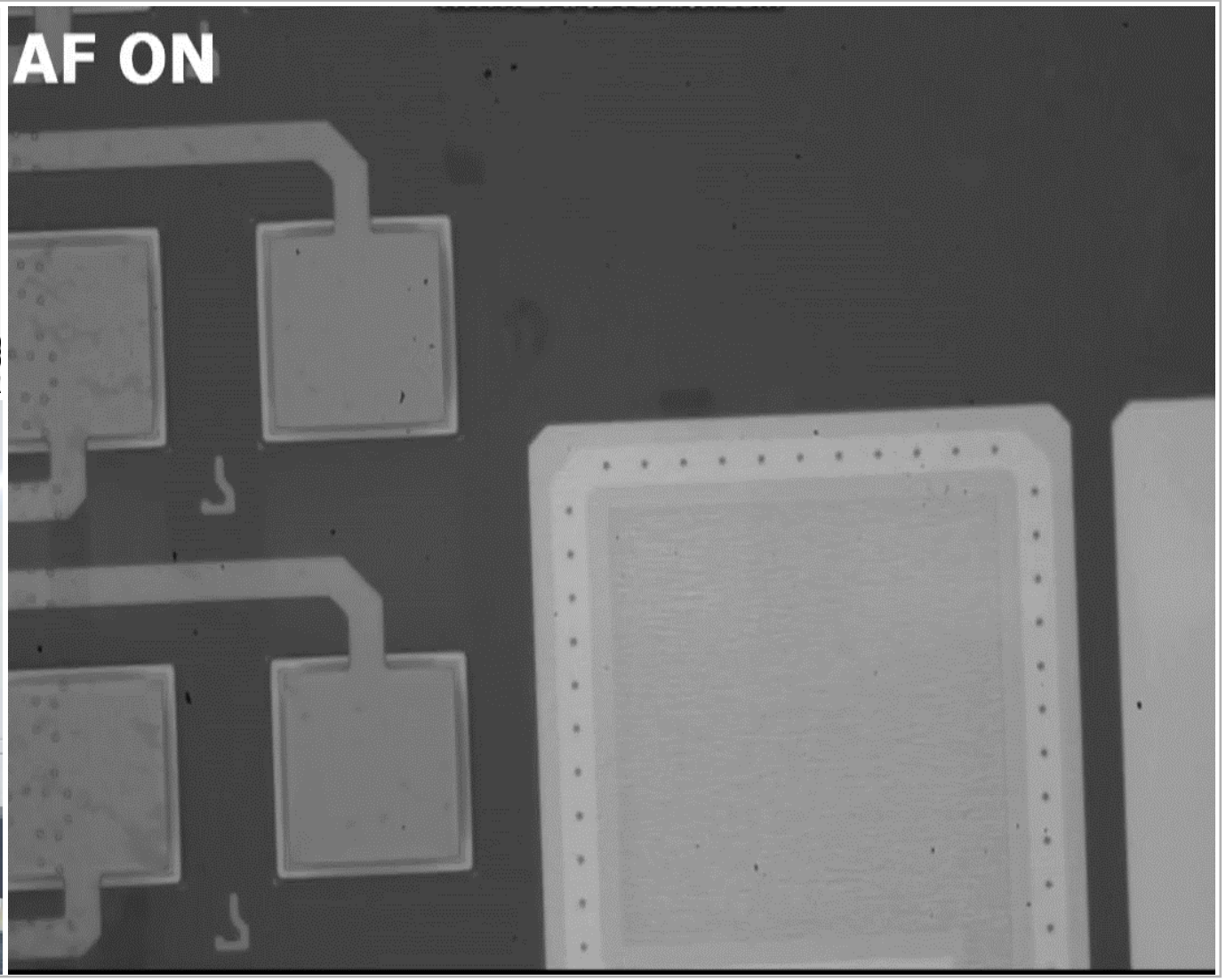
# Auto Focus Module – iFocus

Microscopy

Display



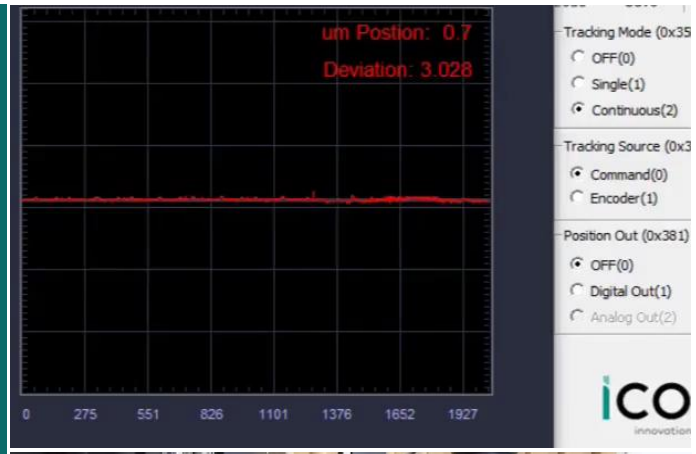




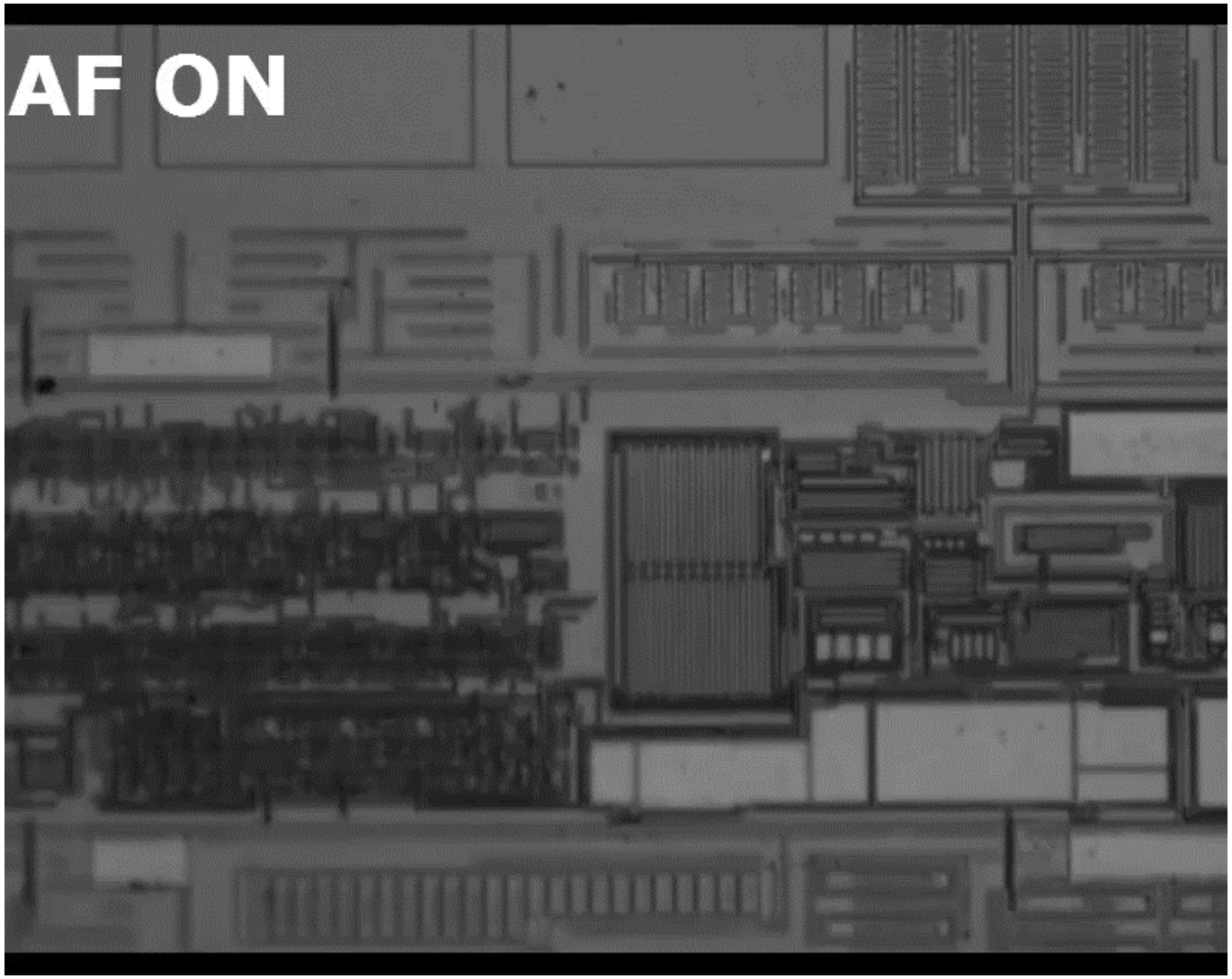
# Auto Focus Module – iFocus

Microscopy

Wafer (Patterned)



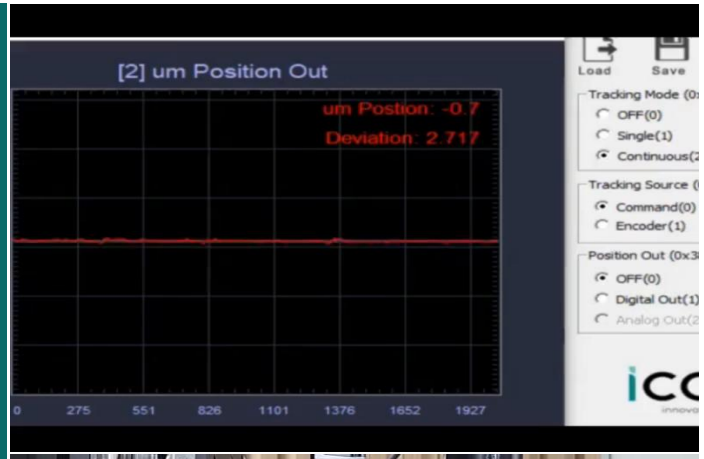




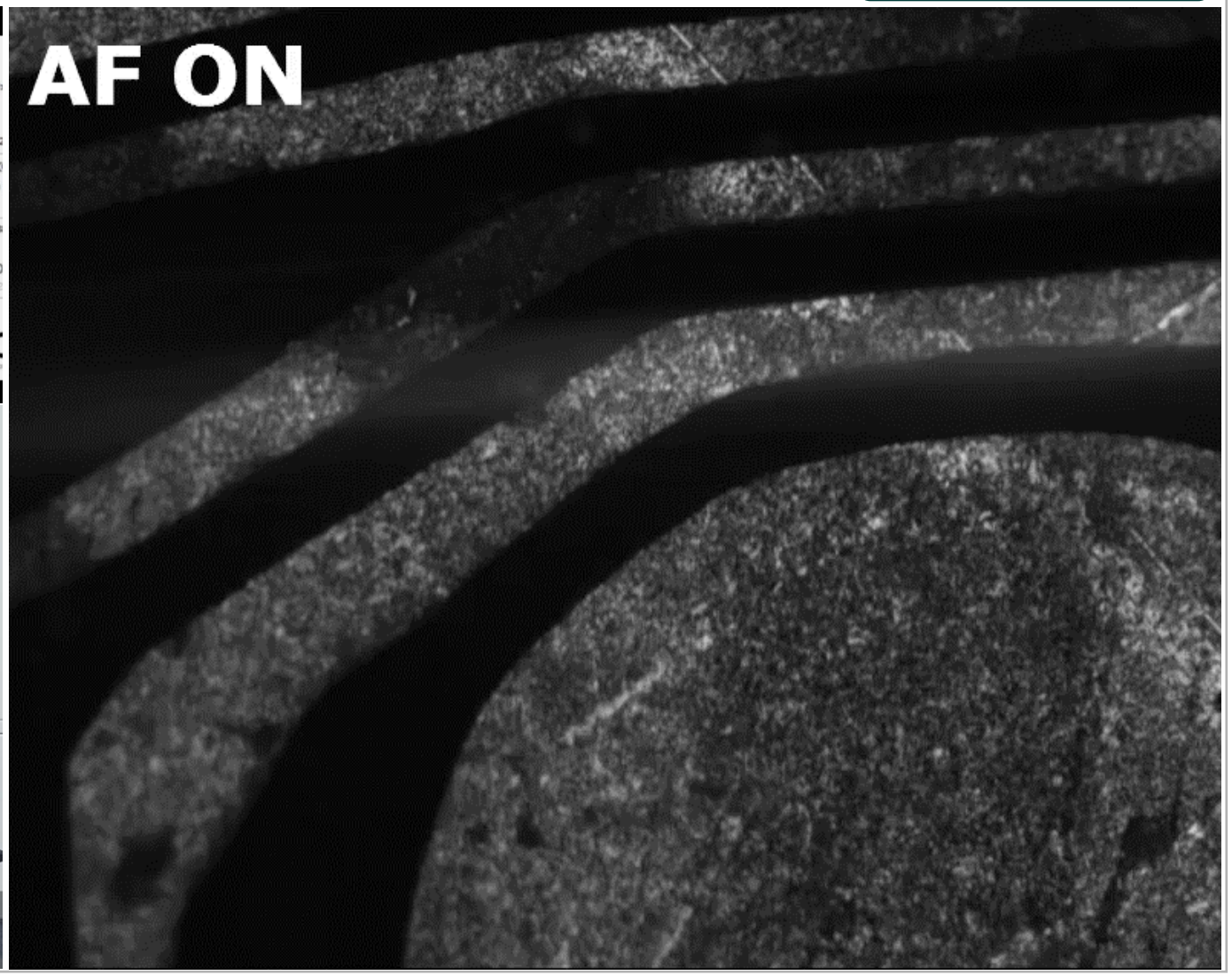
# Auto Focus Module – iFocus

Microscopy

PCB





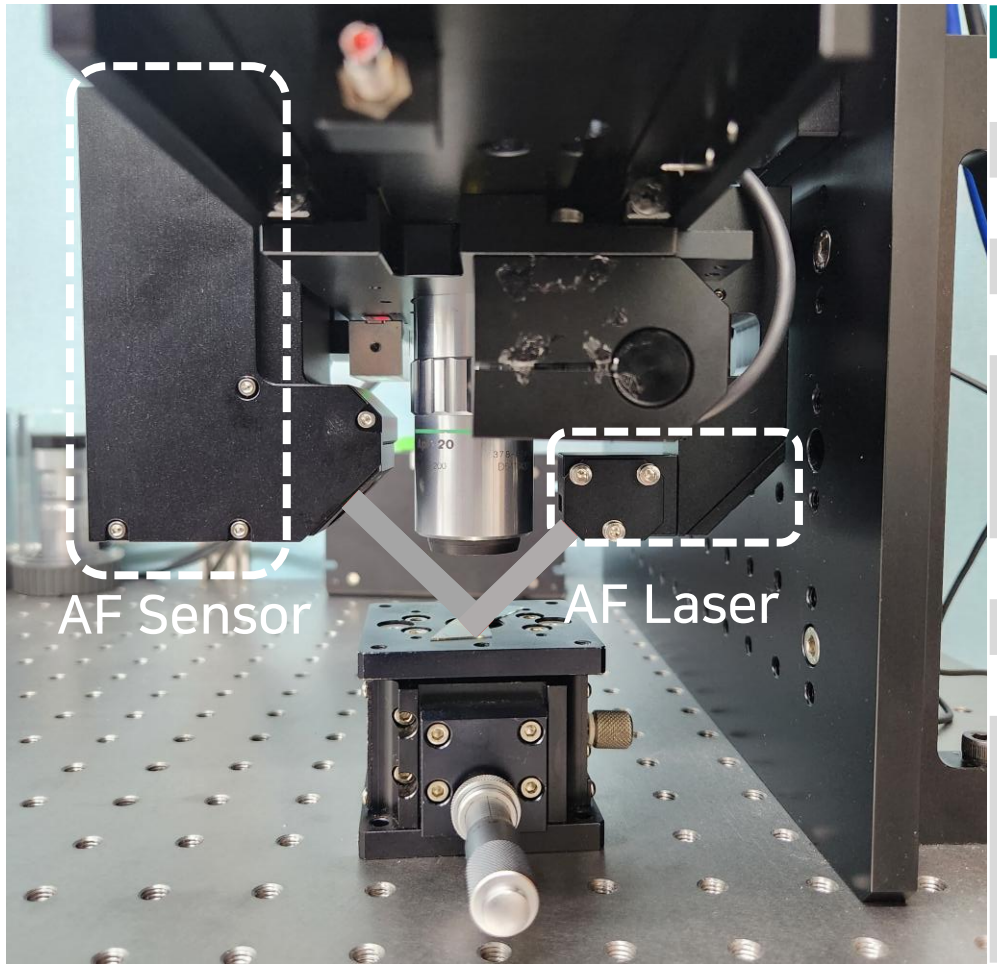


# Larger Format Line Scan Inspection with IT-AFM-V1 Demonstration

Large Format Line Scan

icore

# Auto Focus Module with Lens Changer




| Model | IT-AFM-V1 |
|---|---|
| Focus Update Rate | 1kHz |
| Sensing Type | Optical triangulation |
| Tube Module | 1.0X Mag, 21mm Image Circle |
| Resolution | 0.05㎛/pulse |
| Tracking Mode | OFF / Single / Continuous |
| Motion Control | Support Jog / Absolute / Incremental Move<br>Support HW Limit & SW Limit<br>Auto Calibration |
| Interface | RS-485(Up to 921,600bps) |
| Linearity Error | 0.1% (Varies Depending on the Optic Performance) |
| Repeatability | 〈 0.2 um(Varies Depending on the Optic Performance) |
| AF Sensor | Auto Exposure / Auto Laser Control<br>Laser Brightness Control by PD Feedback<br>Multiple Layer Detection (Max.5)<br>Support Real-time Graph Display |

Leading the Global Machine Vision Industry,

# iCore continues to create “Innovative Products”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