



MACHINE VISION SOLUTIONS

Continuous Innovation with Vision



www.bestintech.com.tw

>> ABOUT US

Founded in 2009, Best Integration Technology (Bestintech) is a leading innovator in mechatronics, optical imaging, and industrial automation. By redefining integration for best efficiency, we strive to become the most competitive solution provider in the machine vision industry.

Our passionate R&D team brings together expertise in Opto-Mechatronics, Image Processing, Digital IC Design, and System Integration (Software & Hardware), enabling us to develop and manufacture key components and total solutions in-house. Leveraging Taiwan's fully developed ecosystem in automation, electronics, and electrical engineering, we continuously strengthen our core R&D competence to deliver high-precision, reliable, and efficient machine vision technologies.

Through this integrated approach, Bestintech provides cutting-edge AOI (Automated Optical Inspection) solutions that empower industries such as semiconductors, smart manufacturing, and biotechnology to achieve next-generation innovation.

>> OUR PRODUCTS



>> OUR STRENGTHS

- Cross-disciplinary R&D expertise in mechatronics, optics & imaging
- Proven solutions trusted by global partners
- Integrated approach – combining optics, electronics & system design
- Flexible customization for diverse industrial applications



>> AUTOFOCUS MICROSCOPE SYSTEM

The industrial-grade autofocus microscope system designed for high-speed, real-time focusing on both static and dynamic samples. It supports **Area-scan** and **Line-scan** imaging, ensuring precise results across semiconductor inspection, biomedical imaging, and advanced manufacturing. Its modular design allows flexible integration into various setups.

- **Ultra-Fast Autofocus:**
Provides up to 3,000 focus updates per second (3 kHz) with Z-axis position tracking at the same 3,000 updates/sec, ensuring high-speed and precise focusing.
- **Optics & Compatibility:**
Supports up to 30 mm image field with C-Mount or M42-Mount.
- **Focusing Range:**
offers a focusing range from about $\pm 700 \mu\text{m}$ at 20x to $\pm 10,000 \mu\text{m}$ at 2x objective, covering both high-magnification precision and wide-range applications.
- **High Precision:**
FPGA-based digital algorithm ensures reliable and accurate focusing.
- **Modular Upgrades:**
Expandable with lens changers, dual imaging optical paths, DIC, or fluorescence imaging systems.
- **Industrial Connectivity:**
Supports Gigabit Ethernet for robust system control and integration.
- **Flexible Illumination:**
Built-in high-uniformity LED illumination, with optional ultra-high-intensity Bright-Field or Dark-Field modules delivering brightness of several million Lux.

Engineered for speed. Designed for precision.



▲ Various configurations and customizations are available



>> PROGRAMMABLE LED DRIVER

- USB, RS232/485, Ethernet interface with digital knob for current adjustment.
- Buck, boost & buck-boost topology with 12-bit programmable resolution.
- Linear constant current control with high-speed strobe ($<5\mu\text{s}$) dimming.
- Multi-channel output: 1, 2, 3, 4, 6, 8 & 12.
- Wide output range: Current 50mA~36A, Voltage DC 1.5V~95V.
- Pass EMC and CE Safety test: CE compatible.

Full line-up drivers with ultimate linearity, extreme accuracy, and easy-to-use

 SCLD Light Series 1 Channel Lightweight LV: 12~24V	 QCLD2 Series 4 Channel Wide Range 1.5~24V / 12~24V / 5~52V
 DCLD3 Series 2 Channel Strobe-Opt LV: 1.5~24V	 OCLD Series 8 Channel LV: 1.5~24V
 DCLD2 Series 2 Channel Wide Range 1.5~24V / 9~50V / 24~95V	 OCLDS-LS Series 8 Channel Strobe-Opt LV: 12~24V
 QCLD Light Series 4 Channel Lightweight LV: 1.5~22V	 SkyDRV Series 3 / 6 / 12 Channel 12~24V / 24~51V
 QCLD2S Series 4 Channel Small-sized 1.5~24V / 12~24V	 QCLD Series 4 Channel Ethernet 12~48V
 CQCLD Series 4 Channel Compact-Size LV: 1.5~22V	 PSU Series Power Source Unit High current up to 36A



>> MACHINE VISION CAMERA

SkyCAM 16M/12M Series

- 16MP/12MP CMOS Sensor
- Compact C/CS-Mount for Cost-effectiveness
- Electronic Global Shutter with precise exposure control
- Support CameraLink Base and Full configuration
- Compatible USB3 Vision & GenICam
- Provide DK for Camera control / image acquisition
- Support pixel based flat field correction (FFC)



SkyCAM USB3/GigE Series

- Newest Global & Rolling Shutter CMOS Image Sensor
- Compact C/CS-Mount for Cost-effectiveness
- Ultra-compact camera size with screw lock USB3/GigE connector
- Support USB/PoE power transmit without external power
- Additional external power supply can be used when using a longer cable or AOC cable
- Compatible USB3/GigE Vision interface & GenICam interface
- Provide SDK for Camera control / image acquisition



SkyCAM Line Scan Series

- Teledyne e2v 4K/2K Line Scan Image Sensor
- High speed 100KHz/160KHz line-rate & flexible exposure control
- Trilinear color line scan technology up to 33KHz/66KHz line-rate
- Provide C-Mount and M42 Mount
- Support CameraLink Base and Full configuration
- Provide SDK for Camera control / image acquisition
- Compatible USB3 Vision interface & GenICam interface
- Supports pixel based flat field correction (FFC)





»» LIGHT SOURCE UNIT

Our advanced light source system is engineered to deliver high performance, flexibility, and reliability for industrial inspection applications:

- **High-efficiency LED architecture** providing up to 10M lux brightness.
- **White laser technology** with exceptionally high luminous flux, reaching 50M lux.
- **Versatile connectivity** with USB, RS232, RS485, and Ethernet interfaces for seamless system integration.
- **Comprehensive wavelength coverage:** R/G/B/A/Y/W, UV (365/385/395/405 nm), IR (730/780/850/940 nm), and SWIR (1050/1300 nm).
- **Tunable high-brightness source** with 5 nm resolution, 1 nm accuracy, and up to 15K lux at 555 nm.
- **Fully configurable illumination**, supporting customization across wavelength, beam profile, and brightness.

Ultra-High Brightness Laser Light Source Unit
DLSU2 Series



Compact High Power Light Source Unit
LSU2S Series



Mini-split High Power Light Source Unit
MLSP Series



PSU-200

High Power Light Source Unit
LSU2 Series



Optical Filter Rotation Light Source Unit
LSU-FR Series



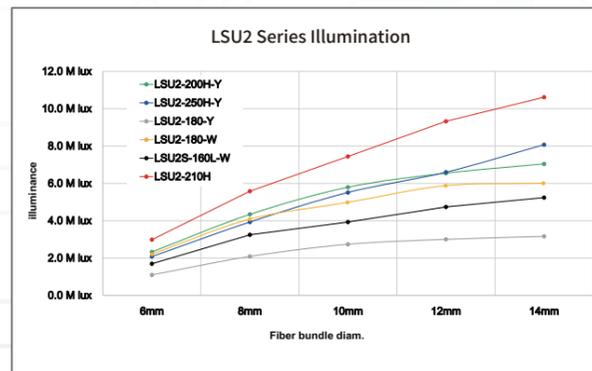
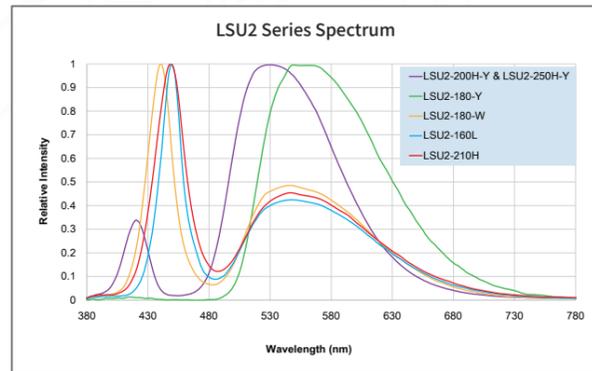
Variable Wavelength Light Source Unit
LSU2-VAR Series



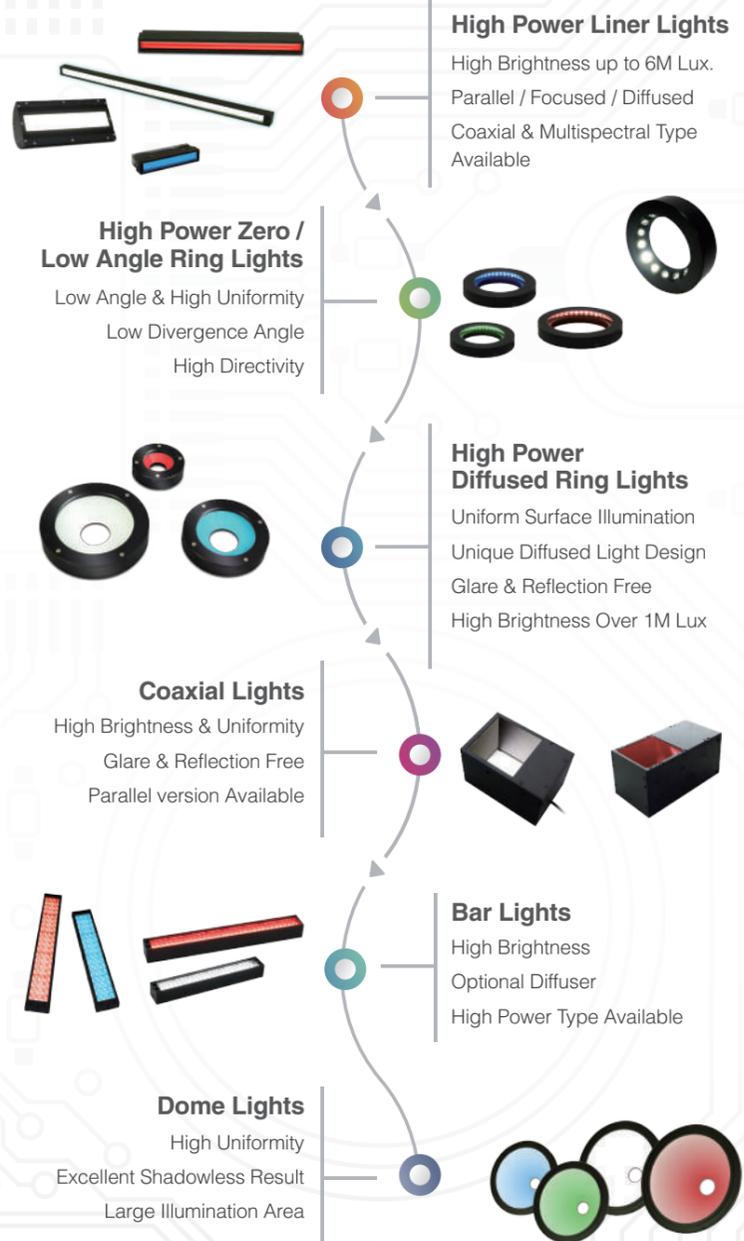
Multispectral LED Light Source Unit
LSU-COLORS Series



Product Spectrum & Illumination



»» LED LIGHTING



Precision Light. Limitless Applications.

