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CHIOPT
PRODUCT MANUAL

INDUSTRIAL LENS

C H I O P T

제품 및 기술 문의는 ChiOpt 국내 1등 파트너
비투에스 공식계정으로 부탁드립니다.
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P R O D U C T

M A N U A L

CHIOPT
OPTOTECH
2025

CHIOPT

HUNAN CHIOPT OPTOTECH CO., LTD.

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Committed To Becoming A Global Industrial Lens Giant

Machine Vision Core Technology Leader

www.chiopt.com

CATALOGUE

COMPANY PROFILE

Chiopt was founded in 2010 and headquartered in Changsha, Hunan Province. We have established the Chiopt Machine Vision Industrial Park and, with a well-integrated optical industry chain, are dedicated to R&D, production, and sales of core components for machine vision systems. Over the years, we have crafted each product with ingenuity, from high-precision lenses to complex systems, we are consistently pursuing excellent quality.

Since 2020, Chiopt has embarked on a new journey by expanding the optical technology into the field of intelligent inspection equipments and cinema lenses. Intelligent inspection equipments enhance the efficiency of production, while cinema lenses add brilliance to the art of film making. This is not only a technological breakthrough, but also a brave exploration of optical application boundaries for Chiopt.

Scan the QR code to get the electronic manual of industrial lenses!

CHIOPTOPTECH

PRODUCT HISTORY

2024 250MP Large Format Lens/Lens Inspection Equipment/2.5D Defect Inspection Equipment

2023 Industrial Microscope / Cine Lens Fixed Focus Set

2022 Scheimpflug Lens

2021 Light Field Camera Lens/Cine lens Zoom Series/High Reflectivity 3D Inspection Equipment

2020 Infrared Lens

2019 Standard Telecentric Lens Series / Infrared Lens

2018 150MP Large Format Lens/Aerial Photography and Aerial Survey Lens

2017 FA Lens Serialization/Ultra-high Resolution Line-scan Lens

2016 360° Imaging Lens

2015 Line-scan Lens Serialization

2013 Fa Lens

2012 Industrial Camera OEM

2011 Line-scan Lens/Telecentric Lens

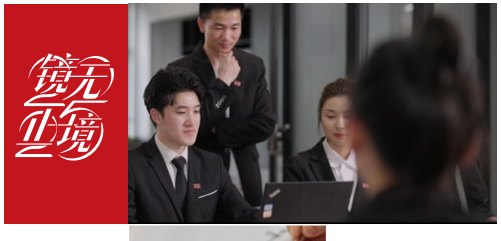
2010 Company Established

email: b2s@b2s.kr
www.b2s.kr

People

R & D CAPABILITY

Research and development staff 92



INTELLECTUAL PROPERTY

IMenber **219** until 2025/3

56	129	13	9	12
Invention Patent	Utility Patent	Appearance patents	Software Copyright	Registered Trademarks

Consumer Lens

Small size creates big achievements

Intelligent Instruments

Focus on the development of automated testing equipment in the field of optical production

Industrial Lens

Equip smart manufacturing with "smart eyes"

Cine Lens

Pursuing the ultimate in optics to inspire creativity

Industrial Camera

Machine Vision Core Components

PRODUCT INTRODUCTION

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APPLICATION SCENARIOS

- Lithium Battery
- Solar
- 3C Electronics
- PCB
- Semiconductor
- Display Panel
- Automobile Manufacturing
- Intelligent Logistics
- Packaging And Printing
- Food And Beverage
- Medical And Pharmaceutical
- Plastic Products

SERVICE ADVANTAGES

Original Manufacturer	Manufacturer of core machine vision compontens	100% self-developed and self-produced core components 44200m² Chiopt Machine Vision Industrial Park
Global Coverage	Complete sales channels	4 Domestic Offices 30+ Overseas Distributors
Fast Delivery	Fast Delivery capability	Domestic Delivery within 2 Hours Overseas Delivery within 24 Hours
Professional Customization	Precise customised Service	90+ Employees of R&D Team 70+ Customized Projects Per Year
Product Diversity	Machine vision core compontens/Cine Lens / Inspection Instruments	80+ Product Series Provide Service for 4000+ Enterprises

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FA LENS

The full spelling of FA is Factory Automation, which means factory automation. FA lenses refer to lenses used for factory automation, referred to as industrial lenses, which can be used in scenes such as visual alignment, dimension inspection, and surface visual inspection.
With the widespread application of standard fixed-focus lenses in the field of machine vision, FA lenses have now become a general term for fixed-focus lenses.

APPLICATION SCENARIO

				
Automotive Manufacturer	Food and Beverage	Electronics Manufacturing	Logistics and warehousing	Automated assembly
Automobile assembly, incoming material screening and Inspection	**Packaging inspection**	**Appearance defect、inspection**	**Scan the QR code**	**Robotic Arm gripping positioning and identification**

1/1.8" 5MP LENS

Focal length range: 4mm-75mm (full series)
5 megaresolutions, suitable for 2MP, 3MP, and 5MP cameras
TV distortion < 0.1%
Compact and ultra-small design
High-contrast industrial FA lens

1/1.7" 12MP LENS

Focal length range: 4mm-75mm (full series)
Compatible with 1.85μ resolution-size cameras
Supports up to 12 megaresolutions
Ultra-high imaging quality
Optimized for IMX226 sensor
Compact and ultra-small design

2/3" 5MP LENS

Focal length range: 8mm-50mm (full series)
5 megaresolutions, compatible with 2MP, 3MP, and 5MP cameras
High relative illumination with large aperture
Focusing range from 0.1m to infinity
F/NO 1.4-16 ultra-large aperture with excellent consistency
High-contrast imaging

2/3" 10MP LENS

Focal length range: 8mm-75mm (full series)
Ultra-high imaging quality
Compatible with 2.4μ resolution-size cameras, supports up to 10 megaresolutions
High relative illumination with large aperture
Focusing range from 0.1m to infinity
Compact and ultra-small design

1" 5MP LENS

Focal length range: 12.5mm-75mm (full series)
5 megaresolutions, compatible with 2MP, 3MP and 5MP cameras
Manually adjustable aperture, C-mount
High relative illumination with large aperture
TV distortion < 0.1%
Focusing range from 0.1m to infinity

1.1" 20MP LENS

Focal length range: 6mm-50mm (full series)
Ultra-High Image Quality
Supports 20MP area scan cameras
High Relative Illumination with Large aperture
Distortion < 0.1%
Focus Range: 0.1m to Infinity
Compatible with 1" and 2/3" Sensors

4/3" 20MP LENS

Focal length range: 12mm-50mm (full series)
Supports 4/3" sensors with 1.1" & 2/3" sensor compatibility
20MP resolution support for area scan cameras
High relative illumination with large aperture design
Stable optical performance in compact mechanical structure
High-contrast industrial FA lens assembly

1.1" 25MP LENS

Focal length range: 8mm-50mm (full series)
Matches SONY high-resolution senosr IMX540/IMX183
Applicable to 2.4um resolution camera, with up to 25 megaresolutions
Compatible with 1.2" 25MP and 1" 20MP sensor
High uniformity, high relative illumination
TV distortion < 0.1%

1.4" 45MP LENS

Focal length range: 12mm-50mm (full series)
Applicable to 2.3um resolution camera resolutions up to 45 million
Matched with SONY high-resolution Sensor IMX492
Supports 1.4" Sensor, compatible with 4/3" and 1.1" sensor
Optimized optical structure for large-size sensor, with standard C-Mount
Maintains excellent performance at any working distance

MACRO LENS

Focal length coverage: 16mm-75mm (full series)
12 megaresolutions high resolutions
Designed for precise macro imaging, working distance: 52-546mm
Large format sensor , can be match with IMX253LLR sensor (1.1" 12MP)
Magnification range: 0.03×-0.8×
Ultra-low distortion (< 0.05%)
High contrast, low distortion

ANTI-VIBRATION LENS

Focal length range: 6mm-75mm (full series)
Stable structural design
Can withstand strong vibration and impact
Fixed aperture, multiple aperture specifications are optional
Support 1/1.7", 2/3" and 1.1" sensor respectively
Suitable for high vibration and high impact environments such as robots

AUTO-FOUS LENS

Focal length range: 8mm-50mm (full series)
Stable autofocus performance
Supports multiple communication methods: RS232/ Pulse
Autofocus accuracy ±0.001°
Fast response speed, response time < 1ms
Focal length covers 8-50mm

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LINE SCAN

LINE SCAN LENS

Industrial lens used with line scan cameras. The scanning working mode requires the industrial lens to move relative to the format , and can continuously collect each piece of data and finally synthesize a complete image.

Line scan lenses are commonly used in printing inspection, PCB inspection, lithium battery inspection, etc.

APPLICATION SCENARIO


Printing


PCB


Lithium battery


Textile

Measurement、Defect、Inspection

4K7μLINE SCAN LENS

Focal length range: 20mm-40mm (full series)
Designed for small line scan cameras
Standard focal lengths and magnifications available
Magnifications range from 0.02x to 0.33x
V-Mount, flexible for cameras with different mount
Suitable for printing and packaging inspection

4K7μNEW SERIES LINE SCAN LENS

Focal length range: 20mm-80mm (full series)
Multi-focal length and multi-magnification coverage, wide focus range design
Uniform MTF design
Ultra-low distortion, high relative illumination
Interface M42×P1, specially designed for small line scan cameras
Suitable for printing and packaging inspection

8K5μ LINE SCAN LENS

Focal length range: 25mm-80mm (full series)
Ultra-high resolution, good consistency
Standard focal lengths and magnifications are available
Optimized optical design for different magnifications
Adopting floating focus structure design, effectively ensuring that the lens still has good optical performance in a wide working distance range
Suitable for high-precision inspection of liquid crystals, semiconductors, electronic parts, etc.

8K7μ LINE SCAN LENS

Focal length range: 40mm-100mm (full series)
Designed for 8k7μ line scan cameras
Standard focal lengths and magnifications available
Magnifications range from 0.001x to 0.4x
V-Mount, flexible for cameras with different mount
Suitable for large-size inspections such as lithium batteries

12K5μ LINE SCAN LENS

Focal lengths: 116mm(full series)
Image plane up to ϕ62
Suitable for 8k/12k resolution cameras
Standard magnification covers 0.18X-1.29X area
Large light aperture design up to F4.5
Ultra-low optical distortion

16K3.5μ LINE SCAN LENS

Focal length range:41mm-116mm (full series)
Developed specifically for 16K3.5μ ultra-high-definition line scan cameras
To meet the 3.5μ resolution, the actual resolution of the lens can reach 160lp/mm
The maximum image size can reach 66mm, compatible with 12K5μ cameras
Optical distortion is less than 1resolution
Large light flux design can reach Fno 3.8

16K5μ LINE SCAN LENS

Focal length range:116mm-150mm (full series)
Developed specifically for 16K5μ ultra-large format line scan cameras
Lens resolution can reach 160lp/mm
Provide higher contrast for the camera
Image size can reach Φ82, compatible with 16K3.5μ/12K5μ cameras
Optical distortion is less than 1 resolution
Standard magnification covers 0.13x-4.5x

COAXIAL ILLUMINATED LINE SCAN LENS

Focal length range:116mm-120mm (full series)
Designed specifically for coaxial lighting systems
Eliminates the loss in resolution caused by using a splitter prism
Achieve high resolution and high contrast inspection requirements
16K/5μ and compatible with 16K/3.5μ and 12K/5μ line scan cameras
Comes with 30*80mm beam splitter prism
Ultra-small optical distortion less than 0.001%, less than 1Piexl
High light aperture design up to F3.8

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LARGE FORMAT LENS

Lenses with a maximum image size of >=1.4" are called large format lenses. Because the matchingsensor size is relatively large, it is necessary to have good center-edge consistency, The MTF of both the center and the edge has good performance. Large format lens is mainly used for large field of view and high precision inspection, such as screen panels, semiconductors, rail transportation and other fields.

APPLICATION SCENARIO


Screen Panel


Semicon-ductor


Rail Transit


Glass

Measurement、Defect、Inspection

120MP/151MP LARGE FORMAT LENS

Focal length range:50mm-90mm (full series)
Can achieve uniform imaging of the entire field of view with a large image size (66.7mm)
Meet the needs of high-precision resolutions (3.76um)
Supports a range of magnifications from 0.01x to 0.57x
The ultra-large magnification range can meet more different field of view requirements
At the same magnification, the common distance is reduced by half compared to traditional solutions
Suitable for OLED screen inspection, from electronic watch screens to TV screens

250MP LARGE FORMAT LENS

Developed specifically for 250 megaresolutions cameras (LI8020SA)
Compatible with Canon 410 megaresolutions sensor
80mm fixed focal length
ϕ46 large image size, 1.5μ high-precision imaging capability
Achieve uniform imaging of the entire field of view, maintaining high resolution and low distortion
Support magnification inf-0.391X magnification range
Suitable for high-precision inspections such as screen inspection, PCB board inspection, and semiconductor inspection

65MP HIGH RESOULTION LARGE FORMAT LENS

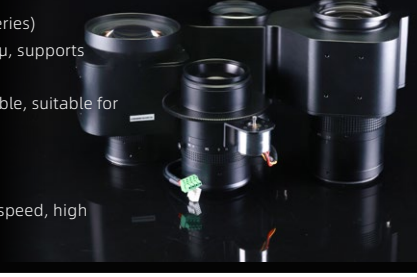
Focal length range:25mm-98.7mm (full series)
Ultra-high resolution corresponding to 3.2μ
Supports 29-65 megaresolutions sensor
Optical performance is better than SLR lenses
Standard focal lengths and magnifications are available
Suitable for large-format high-precision inspection

29MP LARGE FORMAT LENS

Focal length range:35mm-80mm (full series)
Image size can reach Φ43, supporting 29 megaresolutions sensor
Can be adapted to 4k line scan cameras, corresponding to 5μ/7μ resolutions
Optical performance is better than SLR lenses
Standard focal lengths and magnifications are available
Suitable for printing and packaging inspection

65MP LARGE FORMAT AUTO-FOUS LENS

Focal length range:25mm-80mm (full series)
Ultra-high resolution corresponds to 3.2μ, supports 65MP-151MP sensor
A wide range of magnifications is available, suitable for large-format high-precision inspection
Excellent autofocus performance
Supports RS232 communication method
Embedded drive module, fast response speed, high autofocus accuracy ±0.01°



151MP LARGE FORMAT AUTO-FOUS LENS

Focal length range:55mm-90mm (full series)
Ultra-high resolution corresponds to 3.2μ, supports 65MP-151MP sensor
A wide range of magnifications is available, suitable for large-format high-precision inspection
Excellent autofocus performance
Supports RS232 communication method
Embedded drive module, fast response speed, high autofocus accuracy ±0.01°

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TELECENTRIC

TELECENTRIC LENS

It is mainly designed to correct the parallax of traditional industrial lenses. It can keep the image magnification unchanged within a certain object distance range. The purpose of telecentric lens design is to eliminate the different magnifications caused by the different distances between the measured object (or CCD sensor) and the lens. Its high resolution, ultra-wide depth of field, ultra-low distortion and unique parallel light design have brought a qualitative leap to machine vision precision inspection.Telecentric lenses are used in dimensional measurement, identification and positioning of precision parts, semiconductor component inspection, etc.

APPLICATION SCENARIO


Lithium battery


3C Electronics


semiconductor


Screen panel

Positioning and measurement

65mm 2/3" STANDARD TELECENTRIC LENS

Standard working distance: 65mm
Standard magnification: 0.2x-6x
High resolution, supports 5MP 2/3" camera
High telecentricity, ultra-low distortion, ultra-high cost effective
Supports coaxial and non-coaxial
Adopts dual telecentric (object space, image space) design

110mm 2/3" STANDARD TELECENTRIC LENS

Standard working distance: 110mm
Standard magnification: 0.2x-6x
High resolution, supports 5MP 2/3" camera
High telecentricity, ultra-low distortion, ultra-high cost effective
Supports coaxial and non-coaxial
Adopts dual telecentric (object space, image space) design

65mm 1.1" STANDARD TELECENTRIC LENS

Standard working distance: 65mm
Standard magnification: 0.75x-4x
High telecentricity, ultra-low distortion, ultra-high cost effective
High resolution, supports 12MP 1.1" camera
Adopts dual telecentric (object space, image space) design
Proprietary recognition of integrated circuits, glass, LCD panels and other features to facilitate
Automated high-speed operation

110mm 1.1" STANDARD TELECENTRIC LENS

Standard working distance: 110mm
Standard magnification: 0.3x-4x
High telecentricity, ultra-low distortion, ultra-high cost effective
High resolution, supports 12MP 1.1" camera
Adopts dual telecentric (object space, image space) design
Proprietary recognition of integrated circuits, glass, LCD panels and other features to facilitate
Automated high-speed operation

65MP TELECENTRIC LENS

Supports 29-65 megaresolutions sensor
ϕ44 large image size, compatible with 3.2μ resolutions
Excellent RGB confocal effective
Adjustable aperture, large depth of field
Suitable for high-precision semiconductor inspection

NON STANDARD TELECENTRIC LENS

Supports multiple sensor sizes (1/1.8"–APS-C)
High telecentricity, high resolution, low distortion design
Magnification coverage: 0.1x-0.75x
Adjustable aperture, large depth of field

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SPECIALIZED LENS

Refers to special lenses used in scenes or projects that standard lenses cannot be used. They are not designed according to standard specifications, but are specially designed and manufactured according to the needs of the scene or project.

APPLICATION SCENARIO

				
Automobile manufacturing	Food and beverage	Electronic manufacturing	Logistics storage	Automated assembly
Vehicle Assembly Screening test	**Packaging testing**	**Appearance Defect Detection**	**Scan code**	**Robot gripping positioning and identification**

360°IMAGING OUTER WALL LENS

Compact design and high resolution
360 ° side view imaging for small objects
WD: 5.13mm-65.13mm
Suitable for inspecting drug containers,
plastic caps, preforms,
bottlenecks, screws and other threaded objects
Min. object diameter 4.5mm(outer surface)

360°IMAGING INNER WALL LENS

Highlight the tiny inspect of the inspection object
Can inspect tiny defects from a super wide angle of view
High resolution and compact design
Suitable for the objects whose internal features can
only be inspected
through the inner surface inspection lens, such as
engine parts, containers,pipes, etc., super large DOF
Measuring objects, whose diameter is min. 4.5mm,with big view angle

360°IMAGING INNER AND OUTER WALL (EIGHT REFLECTION LENS)

A single camera captures images of both the inner and
outer surfaces of an object
Shooting objects inside and outside the wall, no need to
set up multiple cameras
45 ° wide angle imaging, the side of the object can be
photographed at eight different angles of the image
High resolution, high light flux
It is suitable for inspection the inner and outer walls of
screws, sealing rings, preforms and other objects.

360°IMAGING SYSTEM APPEARANCE INSPECTION BOX

Through four visual angles, the side of the object is inspection
without dead angle
The special aspect ratio makes it perfect for slender objects
Built-in integrated light source, effectively reduce the object
surface reflection
It can take pictures of all kinds of shapes and sizes
The shapes and sizes can be inspect in Φ75MM × 175mm high.

SWIR LENS

Focal length range:12mm-50mm (full series)
The working wavelength is 900-1700nm
Optimized design for near infrared band
Suitable for various infrared applications
High transmittance, high uniformity
Compact and ultra-small design

VISIBLE NEAR INFRARED LENS

Focal length range:12mm-35mm (full series)
Specially designed for SWIR Sensor IMX990/IMX991
The wavelength range covers visible light + near-infrared
band (400-1700nm)
Fully corrected focus shift over an ultra-wide wavelength
range using ultra-low dispersion glass
High transmittance, high uniformity
Widely used in wafer defect inspection, plastic classification and
recycling, etc.

UV LENS

Focal lengths: 25mm(full series)
Maximum compatible format ϕ 11
Working distance from 0.1m - ∞
240-1000nm wide spectrum design
Special glass is used to completely correct the focus shift in the ultra-wide wavelength range
It is applied to material sorting and material sorting by using ultraviolet and infrared light inspection, testing the quality of transparent resin, and checking the aging of high-voltage cables, etc

3CMOS LENS

Focal length range:12mm-28mm (full series)
Specially designed for 3CMOS cameras, redefines color reproduction
Working distance from 0.1m- ∞
Compatible with ϕ9/ϕ30 sensor size
Low distortion, full field of view distortion < 0.2%
Applicable to projects with high color requirements, such as food and agricultural product sorting, printing and packaging quality inspection, textile testing, etc.

SCHEIMPFLUG LENS

Focal length range:12mm-35mm (full series)
Unique Sham Angle Adjustment Mechanism Design
Perfectly solve the problem of ordinary lens depth of field limitation
Various focal length lenses are optional
Support 1.1" camera with up to 20 million resolutions
Suitable for SMT, 3D inspection and other applications

SCHEIMPFLUG CAMERA

Compatible with ϕ16 format, interface C-Mount
The rotation angle is ±15° , and the vernier scale is as small as 6 minutes
Allow lens outer diameter up to ϕ70
Giving ordinary lenses a special scheimpflug structure to perfectly solve the depth of field limitation problem

ZOOM MICROSCOPE

Maximum image plane support ϕ6.3
The magnification range can reach 0.315x-3.15x
It has the function of zooming and focusing
Specifically corrects concentricity to reduce center deviation in
the process of changing visual field
Suitable for semiconductor, microelectronics and other high
precision inspection

VARI-MAGNIFICATION TELECENTRIC LENS

Focal lengths: 65mm(full series)
Double telecentric optical path design, telecentricity ≤ 0.05° in the full magnification range
No need to change the working distance, 0.5x-2x realizes continuous zoom
Can support electric motor regulation
Widely used in high-precision industries such as electronics and semiconductors

MOTORIZEDBI-TELECENTRIC LENS

Object space, image space bi-telecentric, aperture adjustable
Automatic fast focusing inside the lens to achieve super depth of field 22mm
Integrated controller and software inside the lens
The lens communication interface is a serial port RS232 interface, directly connected to the industrial computer
Applied to objects with large height differences, it can quickly achieve focus and accurate measurement. Objects with inclined surfaces can achieve accurate measurement through the fusion of multiple images

ULTRA HIGH RESOLUTION LINE SCAN LENS

Focal lengths: 100mm(full series)
The ultra-high resolution line scan lens has a resolution of 1μ
Compatible with 16K5μ/3.5μ cameras
Distortion <0.01%
Max image size can supportϕ82
High uniformity from the center of the screen to the periphery
Applied to OLED screen inspection

1/1.8" 5MP M12 MOUNT INDUSTRIAL LENS

Focal length range:3.37mm-25mm (full series)
Ultra-low distortion, less than 0.1%, 5 million resolutions
Excellent optical performance, high edge brightness
Compact lens design
Suitable for industrial inspection, barcode scanning, monitoring, video conferencing, sports cameras, etc.

MAGNIFYING LENS

Installed between the lens and the camera
The industrial distance can be unchanged and the multiplier can be increased
When a magnifying mirror is used, the aperture shrinks by the corresponding coefficient
MAGNIFYING LENS 1.5x、2.0x AVAILABLE
Use with 2/3" lens and use with C mount lens

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INDUSTRIAL MICROSCOPE

Microscopes are mainly used to magnify tiny objects. Long-path microscopes can observe real-time images of parts or components directly on the display without an eyepiece. They are used in high-precision inspections of screen panels, semiconductors, PCBs, etc.

APPLICATION SCENARIO


Screen panel


semicon-ductor


PCB

Appearance defect、Inspection

OBJECTIVE LENS

Focal length range:4mm-200mm (full series)
Magnification: 1x to 50x
Working distance: 10-35.1mm
Flat-field Apochromatic Design

TUBE LENS

Focal length range:100mm-320mm (full series)
Format surface support 2/3"-full frame
The magnification is 0.5x to 1.6x
Coaxial lighting and non - coaxial optional

INDUSTRIAL MICROSCOPE

Sensor size support 2/3"- full frame,
Mgnification support 0.5x-80x
Working distance: 10-35.1mm
The microscope system is divided into two components: objective lens and tube lens
With long working distance, parallel light design, no field curvature and monochromatic aberration in the entire field of view.
Applied to high-precision inspection of screen panels, semiconductors, PCBs, etc.

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ACCESSORIES

Adapter can accurately connect lenses and cameras of different specifications with its flexible interface adaptation and flange distance adjustment functions. Combined with the inner wall extinction technology, it can effectively eliminate stray light interference, achieving clear and sharp images and greatly improving contrast.

LENS HOLDER

V-mount to M thread mount design,Easy to transfer to other rings
The V port of the lens can realize the 360° rotation and adjustment of the lens, find the best imaging point, and lock
And fix it with the inner hexagonal screw

FOCUSING RING

Adjustable length, can meet multiple magnifications at the same time
Used for fine-tuning the flange distance of the lens, and can realize the conversion of M58 and M72
Matting treatment on inner wall to reduce stray light caused by surface reflection of structural parts

EXTENSION RING

Extension barrel, fixed length, with consistent threads on both ends, used to extend the flange distance of the lens
Matting treatment on inner wall to reduce stray light caused by surface reflection of structural parts

ADAPTER

For connecting the camera part, it can correspond to various camera mounts such as: C-Mount, F-Mount, M42, M58, M72, M90, M95, etc.

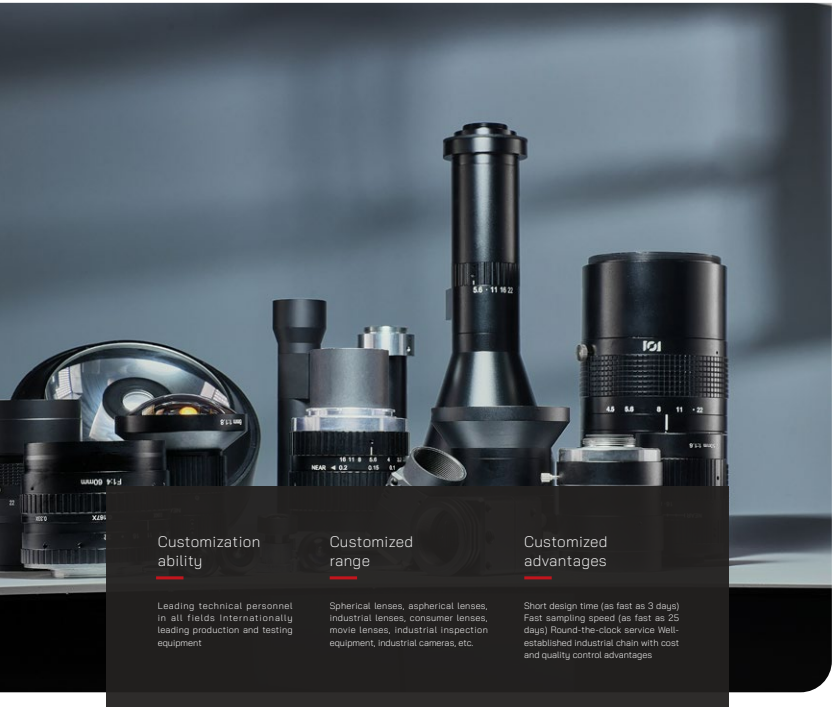
C-mount Spacer

For fine-tuning flange focal distance of C-Mount interface lenses
Multiple specifications for flexible adaptation, with a total of 7 length specifications (0.5mm-40mm)

OPTICAL CUSTOMIZATION

70+ Items

Customized cases of the year



Customization ability

Leading technical personnel in all fields Internationally leading production and testing equipment

Customized range

Spherical lenses, aspherical lenses, industrial lenses, consumer lenses, movie lenses, industrial inspection equipment, industrial cameras, etc.

Customized advantages

Short design time (as fast as 3 days) Fast sampling speed (as fast as 25 days) Round-the-clock service Well-established industrial chain with cost and quality control advantages

OPTICAL CUSTOM PRODUCT DISPLAY

151MP LARGE FORMAT LENS

cine lens

Medical Lens

Spectral lens

email: b2s@b2s.kr
www.b2s.kr
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CUSTOM LENS

CUSTOMIZATION

Motion Capture Lens

The reflective ball tracks accurately, captures dynamic trajectories in milliseconds, and keeps all motion data under control

SPECTRAL LENS

Large-angle measurement without fear of tilt, 4KHz high-frequency sampling, scanning imaging restores surface contour details

SHORT FOCUS FA LENS

High resolution + Ultra-telephoto focus, easily adaptable to multiple scenes in industry and scientific research

3D Tilt-shift LENS

Laser triangulation technology, micron-level measurement of height changes, more accurate 3D modeling

LITHOGRAPHIC MACHINE LENS

Replica photo printing process Precisely engraving nanoscale patterns into silicon wafers to create the future

3X LARGE FORMAT PLANE TELECENTRIC LENS

Large format sensor, high magnification, four-color confocal technology, consistent accuracy under multiple light sources

LOW MAGNIFYING LENS

Intelligent switching of dual filters, infrared penetrates dense fog and is still clearly visible thousands of meters away

FOG LENS

Intelligent switching of dual filters, infrared penetrates dense fog and is still clearly visible thousands of meters away

DRONE MAPPING LENS

Lightweight multi-focal length design, built-in shutter, one-shot filming, aerial survey efficiency soars

EDUCATIONAL VIDEO RECORDER

4K ultra-clear image quality, zero-distortion portraits, and every detail of the class is clearly visible

MEDICAL MICRO-SCOPE LENS

High resolution + compact body, uniform and clear medical images, more reliable diagnosis

OPTICAL SYSTEM FOR FLUORES-CENCE INSPECTION

Small size, high power, wide spectrum coverage, sensitive and efficient spot Inspection

LASER COAXIAL LENS

Coaxial optical path, focus withering offset; light image synchronization, millisecond response; anti-interference imaging, precise adaptation, assisting precision machining inspection

Welcome to consult and customize. We are dedicated to serving you

B2S

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