

Medical And Life Science Cameras

GigE
VISION

USB3
VISION



PROFESSIONAL HIGH QUALITY IMAGE CAMERAS

Medical and Life science cameras are widely used in various medical fields, including but not limited to the manufacturing of medical products, components and equipment for medical technology. Their digital image acquisition and processing also offer numerous possibilities for investigating, analyzing and diagnosing diseases. Vision Datum cameras with the latest sensor technology provide high quality imaging, which is an optimal choice for applications in the fields of medicine, medical technology and life sciences, such as Microscopy, Laboratory Automation, Ophthalmology Dentistry, Dermatology, Imaging Procedure in Surgery, Motion Analysis and Therapy etc.

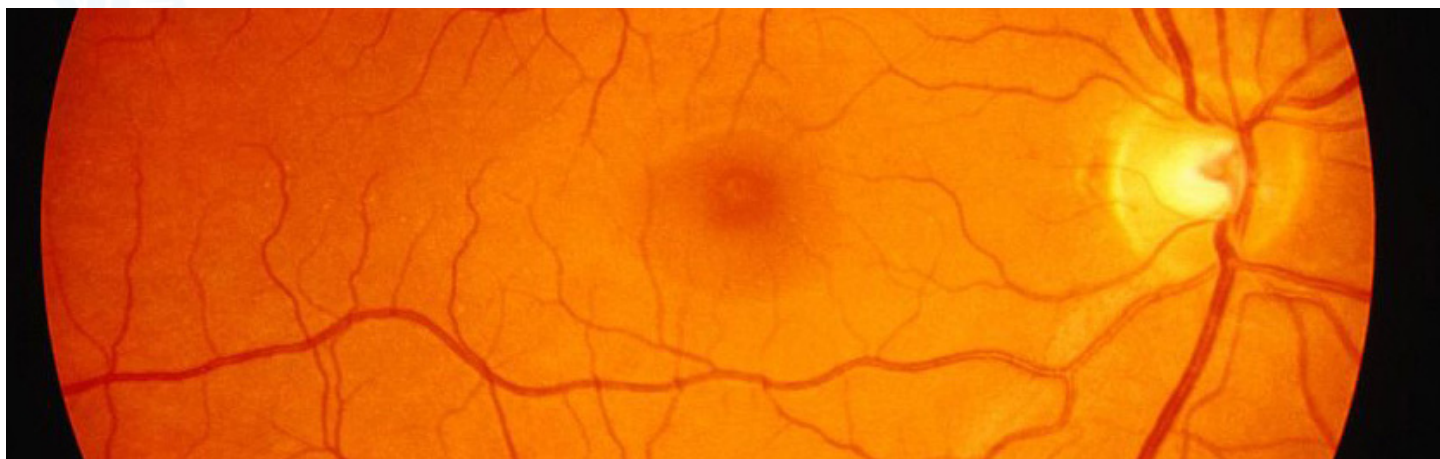
PRODUCT FEATURES

1. USB3.0 / GigE Interface
2. Mono/Color/NIR optional
3. Resolution from 2MP to 20MP
4. Excellent cost performance ratio

PRODUCT LIST

Camera Model	Resolution (HxV)	Resolution	Sensor	Mono/Color	Interface
VT MED-L2.3CU	1920 x 1200	2.3 MP	IMX249	Color	USB 3.0
VT MED-L2.3MU	1920 x 1200	2.3 MP	IMX249	Mono	USB 3.0
VT MED-L5CU	2448 x 2048	5 MP	IMX264	Color	USB 3.0
VT MED-L5MU	2448 x 2048	5 MP	IMX264	Mono	USB 3.0
VT MED-L5CU	2448 x 2048	5 MP	IMX250	Color	USB 3.0
VT MED-L6MU	3072 x 2048	6 MP	IMX178	Mono	USB 3.0
VT MED-L6CU	3072 x 2048	6 MP	IMX178	Color	USB 3.0
VT MED-L12CU	4096 x 3000	12 MP	IMX304	Color	USB 3.0
VT MED-L12MU	4096 x 3000	12 MP	IMX304	Mono	USB 3.0
VT MED-L20MU	5472 x 3648	20 MP	IMX183	Mono	USB 3.0
VT MED-L20CU	5472 x 3648	20 MP	IMX183	Color	USB 3.0
VT MED-L12CU-BC	3072 x 2048	12 MP	IMX226	Color	USB 3.0
VT MED-L6CU-BS	3072 x 2048	6MP	IMX178	Color	USB 3.0
VT MED-L6CU-BC	3072 x 2048	6MP	IMX178	Color	USB 3.0

APPLICATION CASE



OPHTHALMOLOGY

Many diagnostic equipment used in modern ophthalmology has gained advantages from visual technology. Ophthalmic applications require very high imaging quality to visualize extremely fine capillary structures, and require that the camera's color processing process can be configured. Infrared light can penetrate certain materials - including organic materials. For example, OCT (Optical Coherence Tomography) uses near-infrared light to make cross-sectional imaging of the human retina, enabling ophthalmologists to see each unique layer of the retina. Vision Datum provide a series of medical cameras suitable for various applications, which can offer extremely reliable support for diagnosis, laser treatment or surgery and progress monitoring.

RECOMMENDED CAMERAS

VT MED-L5CU

VT MED-L6CU

VT MED-L12CU

VT MED-L20CU





MICROSCOPY

In the fields of science, biomedicine and clinical laboratory, many conventional microscopic applications are based on optical microscopes using different light sources and contrast methods. Camera is the core part of these microscope applications. It helps track, discuss, record, analyze, and archive images in real time. Vision Datum medical cameras can guarantee the high-resolution clear images and maintain outstanding color identity.

RECOMMENDED CAMERAS

VT MED-L2.3C/MU

VT MED-L5C/MU

VT MED-L6C/MU

VT MED-L12C/MU

VT MED-L20C/MU





LABORATORY EQUIPMENT AND AUTOMATION

The automation of laboratory processes is not only closely related to chemical, biological, pharmaceutical and food technologies, but also related to applications in medical treatment. The purpose of automation is to improve the process, generate more data points in a shorter time, avoid errors, record analysis and experiments in a traceable way, and reduce costs. The use of Vision Datum medical camera is flexible and can be easily integrated into various laboratory equipment products. It has the characteristics of high speed, high resolution, high accuracy, high imaging quality and outstanding cost performance.

RECOMMENDED CAMERAS

VT MED-L2.3C/MU

VT MED-L5C/MU

VT MED-L6C/MU





DENTISTRY

The latest dental technology needs high-speed cameras with high resolution and sensitivity. Vision Datum medical camera adopts a sophisticated design, which can meet the ideal prerequisites for easy integration, and can provide accurate impression imaging of the upper jaw, lower jaw and occlusion. Small high-performance trigger cameras can also be used for oral scanners (oral scanners) or oral models and impression scanners.

PRODUCT FEATURES

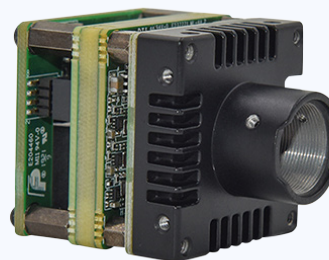
1. Minimum weight of only 10 g
2. C/M12 mount options
3. USB 3.0 for ease of integration

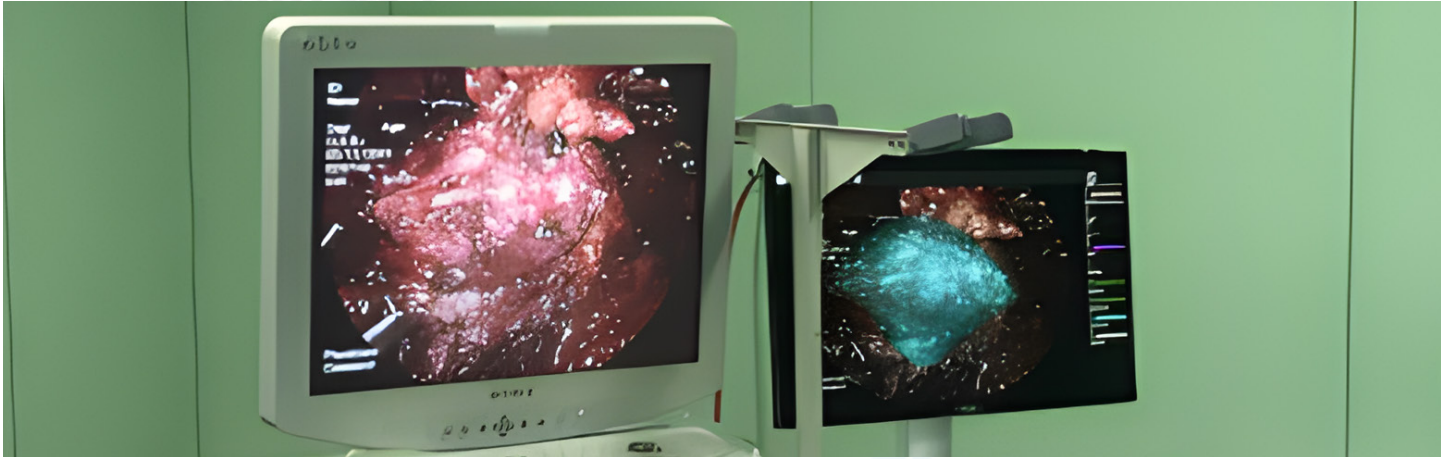
RECOMMENDED CAMERAS

VT MED-L6CU-BC

VT MED-L6CU-BS

VT MED-L12CU-BC





DERMATOLOGY AND IMAGING PROCEDURE IN SURGERY

Medical imaging in the medical industry plays a crucial role in almost all medical diagnosis. The application of medical imaging in this field has continued to grow due to the convenience it brings to practitioners and patients. Therefore, diseases can be found earlier and treated more effectively. At the same time, the macro growth trend of medical fields such as artificial intelligence, enhanced intelligence, telemedicine, remote surgery, and COVID-19 epidemic control has also opened up new medical applications for vision and imaging solutions. Vision Datum infrared imaging camera can penetrate human tissues more deeply. It can take cross-sectional images of lower and hidden living tissue layers without physical contact or surgical invasive procedures. It can be integrated into the medical system for early skin cancer detection. Hyperspectral wavelength also enables operators to see the distribution of blood vessels on the display, so Vision Datum medical camera is widely used in hyperspectral surgery monitoring, in vitro diagnosis, endoscopy, surgery, otolaryngology, oncology, cardiology, clinical nursing and other fields.



MOTION ANALYSIS AND THERAPY

The physical therapist or occupational therapist's eyes can not match the speed and acquisition details of modern digital cameras. Vision Datum high-speed camera can help athletes optimize the movement details and help physical therapists and occupational therapists carry out daily work.

Vision And More Available

让工业更智能，让视觉更简单！



SWIR Camera
Industrial Camera



Macro Lens
Industrial Lens



Microscope



System Solution
No-programming Software

