

DAHENG IMAGING
SINCE 1991



30 Years Dedicated to Machine Vision!

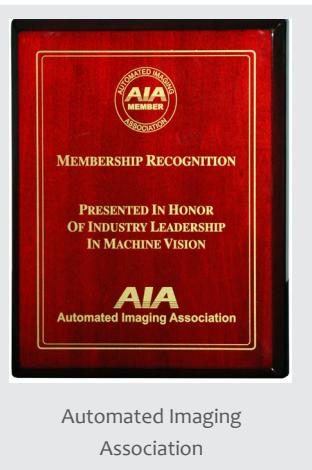
About Us

Welcome



Daheng Science & Technology Tower

Founded in 1991, DAHENG IMAGING is a leading supplier for professional imaging components as well as machine vision solutions. Since its founding, the company has been dedicated to the advancement of imaging & vision technologies and delivered a range of own-developed vision products with many proprietary innovations. Being a know-how company with long history in machine vision industry, DAHENG IMAGING deserves trusts from counterparts all over the world and has established close cooperation. After over three decades of rapid growth, DAHENG IMAGING becomes one of the most famous and successful vision company in China. As core asset of public company DAHENG TECH (stock symbol: 600288), DAHENG IMAGING is committed to providing our customers with cutting edge technology, high quality products and perfect service.



Automated Imaging
Association



ISO9001:2000

Our Story



Dedicated to Machine Vision



Our Philosophies

Integrity

Being honest and having strong moral principles are at the heart of our culture. We firmly believe that sincerity will lead to mutual benefit and keeping promises is the foundation of our characteristics and business ethics.

People Oriented

We respect Human Values and regard employees as our most valuable assets. All of our efforts aim to finally serve people, and we carefully hear voices of each partner. We really enjoy seeing customers' ideas come to life, employees' dreams are turned into realities, and partners' wishes come true. And such kinds of successful stories spread throughout the country and the whole world.

Keep Diligence

Just being diligence and pragmatism when working with our customers is a fundamental rule of our professionalism. We adopt a pragmatic approach to our business, admit the existence of imperfections and limitations of technologies, and constantly remind and motivate ourselves that we must pursue the best to satisfy requirements from customers and employees.



A photograph of a rock climber in silhouette against a vibrant orange and yellow sunset sky. The climber is positioned on the left side of the frame, scaling a dark, textured rock face. Their body is angled outwards, with one leg extended forward and arms gripping the rock. A safety harness and rope are visible, trailing down towards the bottom right. Below the climber, a range of mountains is visible against the warm glow of the setting sun.

Dedicated to Machine Vision

Win-Win Cooperation

We treat every customer as one of our partners, refuse to play "zero-sum game" in the business, and believe that all participants in the game will become the winner. With a sincere heart, we always take a partner's responsibility to create values for our customers and then realize our own values in return.

Continuous Innovation

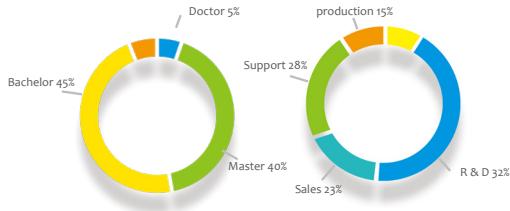
From the date of establishment, we created so many "breakthroughs" which have already been recorded in the machine vision history of China. With a global vision and a natural sense of urgency, however, we clearly understand that "innovation capability" is the soul of a hi-tech company and the only way leading to cutting-edge technologies and products which deserve customers' trust and indeed improve productivity.

Our Team

- Headquarters located in Beijing, based upon the strength of Chinese Academy of Sciences
- Having enterprise post-doctoral station dedicated to Machine Vision
- Having up to 900 employees by the end of 2021
- A large network for support and services has been established
- Featuring a R&D team with over 300 professionals, 40% of employees having master degree
- Proven innovation ability and patented technologies



中国科学院
CHINESE ACADEMY OF SCIENCES



Our Promise

3-Year Warranty

DAHENG IMAGING offers a 3-year warranty for the camera. We make this unprecedented promise because we have unparalleled confidence in our products. We continually reinvest in research, development and superior manufacturing capabilities so that our customers can fully rely on the products we manufacture.



Our Products

Dedicated to Machine Vision

MERCURY2 Series



MERCURY2 series camera is DAHENG IMAGING's new generation area scan industrial digital camera, featuring compact design, outstanding performance, high definition and extremely low noise. Some cameras support more features with improved built-in ISP algorithms and provide multiple acquisition controls.

Thanks to the extremely compact, robust metal housings and locking screw connectors, the MERCURY2 cameras can secure the reliability of cameras deployed in harsh environments. The MERCURY2 series camera also has an outstanding price/performance ratio. The MERCURY2 family cameras are especially suitable for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.

- GigE interface or USB3.0 interface
- Programmable ROI, increased frame rate with partial scan
- Gain, exposure and white balance programmable (white balance only for color models)
- Support auto gain, auto exposure and auto white balance (auto white balance only for color models)
- Trigger mode: Frame Start/Frame Burst Start
- Four acquisition controls: Single frame acquisition / Continuous acquisition / Software trigger acquisition / External trigger acquisition
- Support LUTs and storables user sets
- Support Decimation, Binning, Reverse, Digital Shift, Black Level, Flat Field Correction and Defect Pixel Correction
- 16KB data storage area for saving algorithm coefficients and parameter configuration
- Support third-party software like HALCON, MERLIC and LabVIEW
- Optimized software package for 32/64bit Windows, and support Linux, ARMv7, ARMv8 and Mac OS (Mac OS only for GigE)
- Regulations: CE, RoHS, GenICam, GigE Vision, USB Vision

*Each model has different functions, please refer to the datasheet for more detailed information.

MERCURY Series



The MERCURY family's CCD/ CMOS cameras target at industrial machine vision applications, the MERCURY family cameras are covered with full metal housings and equipped with cable locking devices. Thanks to compact size and light weight, the MERCURY family cameras can be easily deployed under various industrial circumstances or integrated into automatic devices like robot arms to accomplish machine vision tasks like locating, measuring, defect detecting, object recognizing, etc.

With the MERCURY series, you can choose the most popular data interfaces in the vision market: the popular Gigabit Ethernet interface with 100-meter cable length, the new USB 3.0 interface with plug and play capability, and the USB2.0 interface with plug and play capability. All DAHENG IMAGING's MERCURY cameras come with an option to provide camera power and data via a single cable. They also offer separate input/output ports for triggering or flash control. The MERCURY family comes with a long list of firmware features.

- Ultra small, light and robust
- 1 input and 1 output with opto-isolated, 2 programmable GPIOs
- GigE or USB3.0 interface
- Gain, exposure and white balance programmable (white balance only for color models)
- Support auto gain, auto exposure and auto white balance (auto white balance only for color models)
- A wide range of models available, support various CCD and CMOS sensors
- Support LUTs and storable user sets
- Standards: CE, RoHS and FCC (except MER-U series)
- Support GigE Vision, USB3 Vision, GenICam and third-party software like HALCON, MERLIC and LabVIEW

*Each model has different functions, please refer to the datasheet for more detailed information.

MARS Series



The MARS series camera is DAHENG IMAGING's latest high resolution camera with large and high quality sensor. Thanks to the compact size, robust housing and locking screw connectors, the MARS series can secure the reliability of cameras deployed in harsh industrial environments.

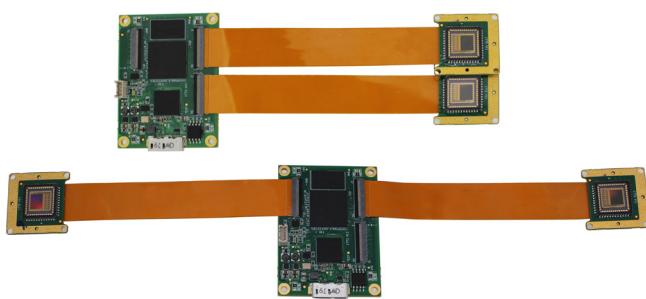
The MARS series camera is featured in high resolution, high definition and low noise. The Gigabit Ethernet interface is used for long distance transmission. The MARS series is especially designed for industrial inspection, rail traffic, scientific research and 3D reconstruction and so on.

- Four acquisition controls: Single frame acquisition / Continuous acquisition / Software trigger acquisition / External trigger acquisition
- Gain, exposure and white balance programmable (white balance only for color models)
- Support auto gain, auto exposure and auto white balance (auto white balance only for color models)
- Trigger mode: Frame Start /Frame Burst Start
- Support Decimation, Binning, Reverse, Digital Shift and Black Level
- Adjustable Gamma and Sharpness for optimizing the brightness and sharpness of images
- Support Defect Pixel Correction and Flat Field Correction
- Support Remove Parameter Limit to expand the range of exposure, gain, white balance, and so on
- 16KB data storage area for saving algorithm coefficients and parameter configuration
- The maximum transfer rate is up to 5Gbit/s and can be switched to 1Gbit/s and 2.5Gbit/s (Only for MARS-G5-P)
- Regulations: CE, RoHS, GenICam, GigE Vision, USB3 Vision, IEEE802.3af (PoE)
- Support a variety of 3rd-party software such as HALCON, MERLIC and LabVIEW
- Optimized software package for 32/64bit Windows, and support Linux, ARMv7, ARMv8 and Mac OS (Mac OS only for GigE)

*Each model has different functions, please refer to the datasheet for more detailed information.

VENUS Series

The VENUS series camera is DAHENG IMAGING's latest board level camera, providing an excellent choice for users with minimal space, low weight, low power consumption and low heat. The VEN-U3 single-sensor board level cameras (VEN-161-61U3M/C, VEN-505-36U3M /C, and VEN-830-22U3M/C) with one CMOS sensor provide S mount, CS mount and No-mount lens interface optional. The VEN-134-90U3M/C-D(-NIR) is a USB3 Vision board level camera with two Onsemi PYTHON 1300 CMOS sensors. There are three connection ports in the main board and each sensor board can be freely connected to one of the three ports by FPC cables, more flexible for installment and suitable for more applications. Furthermore, the VENUS series camera is powered over the USB3.0 interface. The camera is especially designed for binocular vision applications such as handheld 3D scanner, desktop 3D scanner and so on and has an outstanding price/ performance ratio.



USB[®]
VISION GEN*< i>*CAM



- Programmable ROI, increased frame rate with partial scan
- Gain, exposure and white balance programmable (white balance only for color models)
- Three acquisition controls: Continuous acquisition/ Software trigger acquisition/ External trigger acquisition
- Support Windows, Linux, Android, ARMv7, ARMv8, etc.
- Regulations: GenICam, USB3 Vision

Dual sensor board level cameras

- Adjustable URB
- Hot plugging available
- FPC cables extension can be put in both sides or the same side
- The length of FPC cable can be extended up to 460mm

Single sensor board level cameras

- Support auto gain, auto exposure and auto white balance (auto white balance only for color models)
- Color models support light source preset function
- Storable user sets
- Support Reverse X/Y (horizontal and vertical mirroring)
- 16KB data storage area for saving algorithm coefficients, parameter configuration, and so on

*Each model has different functions, please refer to the datasheet for more detailed information.



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