

Vicon T-Series

The world's next generation motion capture camera



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The world's next generation motion capture camera – Vicon T-Series. Vicon offers a suite of world-leading camera solutions designed and driven by flexibility, affordability, and industry-leading resolution and accuracy. **Welcome to the resolution revolution.**

The T-Series Range

T-Series and T-Series S Edition, offer you the highest resolution and accuracy available, allowing you to capture in almost any environment. Our cameras truly push the boundaries of possibility.

T160

Accurately track the finest detail and the subtlest movements in even the largest volumes. Boasting 16 megapixels resolution, capturing 10-bit grayscale using 4704 X 3456 pixels and capture speeds up to 2,000 frames per second the T160 is like no other. Capable of capturing 120 frames per second at full frame resolution (16 Megapixels) the T160 delivers a significant performance increase over previous MX cameras. Even at 240 frames per second, its resolution is 4704 X 1728 or a whopping 8 megapixels.

T40S

High Speed. High Resolution. All in One. The T40S delivers a significant performance increase over the T40 capable of capturing 515 frames per second at full frame resolution (4 Megapixels). The T40S boasts a resolution of 4 megapixels, captures 10-bit grayscale using 2336 x 1728 pixels and can capture speeds of up to 2,000 frames per second.

T20S

The T20S offers a unique combination of high speed, accuracy and resolution. Offering an impressive resolution of 2 megapixels, capturing 10-bit grayscale using 1600 x 1280 pixels and capture speeds of up to 2,000 frames per second. Capable of capturing a staggering 690 frames per second at full frame resolution (2 Megapixels), the T20S offers a significantly improved performance compared to its predecessor.

T10S

The T10S is the fastest camera available in the T-Series range. The T10S offers all the benefits of the T10, but is also capable of capturing 1000 frames per second at full frame resolution (1 megapixel), making it the fastest 1 megapixel motion capture camera in the world.

T10

The T10 is the most affordable T-Series camera. The T10 offers an impressive resolution of 1 megapixel, captures 10-bit grayscale using

1120 x 896 pixels and can capture speeds of up to 2,000 frames per second. Not only that, the T10 is capable of capturing 250 frames per second at full frame resolution (1 megapixel), offering a significantly improved performance over its predecessor.

T-Series Benefits

2D On-Board Tracking

Everyone wants their 3D data to be of the highest quality. T-Series achieves this in a way no other motion capture camera can. By sending additional 2D tracking information to your PC, reconstruction and labeling are improved. This is especially helpful when markers are moving fast or undergoing extreme changes in velocity such as sports moves.

Full Marker Grayscale

Vicon cameras use every pixel of grayscale information to locate the marker's 2D center and calculate its radius - not just edge grayscale information. By using every pixel of information, Vicon cameras fit a circle more precisely around the marker image significantly improving system accuracy. If you want precision, you want full marker grayscale.

Capture Outdoors

It's no secret that T-Series cameras can be used anywhere. New camera components give you Vicon quality data wherever you need to work. Capturing data outdoors gives patients, athletes or actors the freedom to walk, bowl or fight in a natural environment, without the restrictions of a lab or studio. You can even take your existing T-Series cameras outside with a simple modification.

Gigabit Ethernet

Gigabit Ethernet makes the T-Series 10 times faster than previous Vicon cameras. This increase in bandwidth means more frames, more cameras and more markers can be seen than ever before. No matter how much data you need to capture, T-Series won't slow you down.

Powerful Strobes

T-Series strobes are powerful; giving an even spread of light across the capture volume. More powerful light output also means the cameras are less susceptible to uncontrollable ambient lighting in your studio, laboratory or outside. Our custom strobe LEDs have three different angles of view, giving optimum performance with a

wide range of lenses. This makes set-up simple and smaller markers in large volumes can be easily identified. This is particularly useful if you're capturing markers on the face or hands.

Vicon Custom Lenses

Along with the Avalon and Vegas sensors, Vicon has custom-built several lenses for motion capture. These have a large image circle to ensure that the entire image is evenly illuminated, not just the center. Off-the-shelf C-Mount lenses are designed to work with low resolution cameras and cannot be used with such high resolution cameras because of their limited resolving power; this is especially true with small markers. To achieve this, the Vicon lens was designed and built with a high resolving power.

Backwards Compatible

With T-Series cameras not only do you get the latest Vicon innovation, you also get the security that you can carry on using your proven MX platform. T-Series is backwards compatible with MX hardware. Just plug it in and go.

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