Vicon T-Series
The world’s next generation motion capture camera
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Welcome to the resolution revolution.

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. 

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 slightest 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. The T160 is capable of capturing 250 frames per second at full frame resolution (1 megapixel), offering a significantly improved performance over its predecessor.

T20S
The T20S offers a unique combination of high speed, high resolution and accuracy. Offering an impressive resolution of 2 megapixels, capturing 10-bit grayscale using 2336 x 1728 pixels and can capture speeds of up to 2,000 frames per second.

T40S
High Speed. High Resolution. All in One. The T40S delivers a significant performance increase over previous T-Series cameras. Even at 240 frames per second, its resolution is 4704 x 1728 or a whopping 8 megapixels.

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.