

High-Precision Aerial Survey Camera System

TIKI TR1 Series

SONY Full-frame, 3-Axis Gimbal,
Interchangeable Lens



Tiki3D
Advancing Photogrammetry

TR1 is a professional-grade aerial survey camera system that features an interchangeable lens Sony LX1 Camera, 3-Axis Gimbal, and feature add-on main control board. It combines high resolution, light-weight design, real-time settings, efficient storage, rapid burst shooting, and high-definition video recording.



High Resolution SONY LX1 Full-Frame Camera

61 MP effective full-frame Sony sensor.
Enjoy full Sony warranty,
retaining camera's resell value.



Versatile & Lightweight Design

Interchangeable Lens
Body only weighs 420g
(excl. Gimbal)



Efficient Data Storage and Management

External high-speed SD card,
photos with real-time
POS data



> Superior Image Quality

At 61 megapixel, Sony LX1 Camera produces high-quality images with low noise and high dynamic range. Allows for detection of fine cracks and scratches during inspection and mapping purposes.



> Advanced BIONZ XR™ Image Processor

Compared to the previous generation processor, the performance is improved by approximately 8 times. It reduces processing latency while enhancing the handling of video and still images, resulting in excellent image quality and fast camera response.



> Excellent Continuous Exposure Performance

Under Single-shot mode, continuous exposures can be triggered at 0.8 seconds interval. This feature improves efficiency and reduces operation time while ensuring precise trigger control.

> Independent Flight Data Storage

The camera uses an external high-speed SD card as the storage medium, ensuring reliable high data write speed. Real-time POS data is tagged to each photograph. Image data is stored separately every flight, making data classification and management easier for users.

> Remote Control and Dual-Channel WIFI

Users can flexibly control camera parameters such as exposure, white balance, and ISO through the remote controller or via the WIFI dual-channel system, to adapt to various shooting environments and needs. The camera settings can be adjusted directly by DJI remote controllers. Camera settings can also be accessed with your phone via the web interface by connecting to the camera WIFI.

> 1080P Video Recording

In addition to still photo shooting, the camera also supports 1080P HD video recording. The high-performance AI chip ensures smooth and clear video recording, making it suitable for capturing high-speed movements.

Technical Specifications			
Dimensions/Weight (without gimbal)	105×75×100mm/ 420g	Structural Properties	Detachable E-mount lens
Dimensions/Weight (with gimbal)	180×154×160mm/ 860g	Power Supply Image Transmission	External power 12-30V Dynamic HD transmission
Total No. of Pixels/ Minimum Exposure Interval	61 million/ 0.8 seconds	POS Storage	Real-time photo write-in
Sensor Size/ Shutter Speed	35.7mm×23.8mm 1/8000 to 1 second	Camera parameter settings	DJI remote control or WIFI connection WEB setting
Lens Focal Length/ Photo Format	Standard 35mm, optional 56mm JPEG/JPEG&RAW/RAW	Trigger Method	Manual or automatic trigger
Lens Type	Professional fixed-focus lens	Supported Aircraft	DJI M300 series, other drones
Video Recording/ Recording Format	Supports 1080P/ MP4	Environmental Humidity	≤70%
Data Storage	External 256G high-speed storage card	Operating Temperature	-10°C~50°C