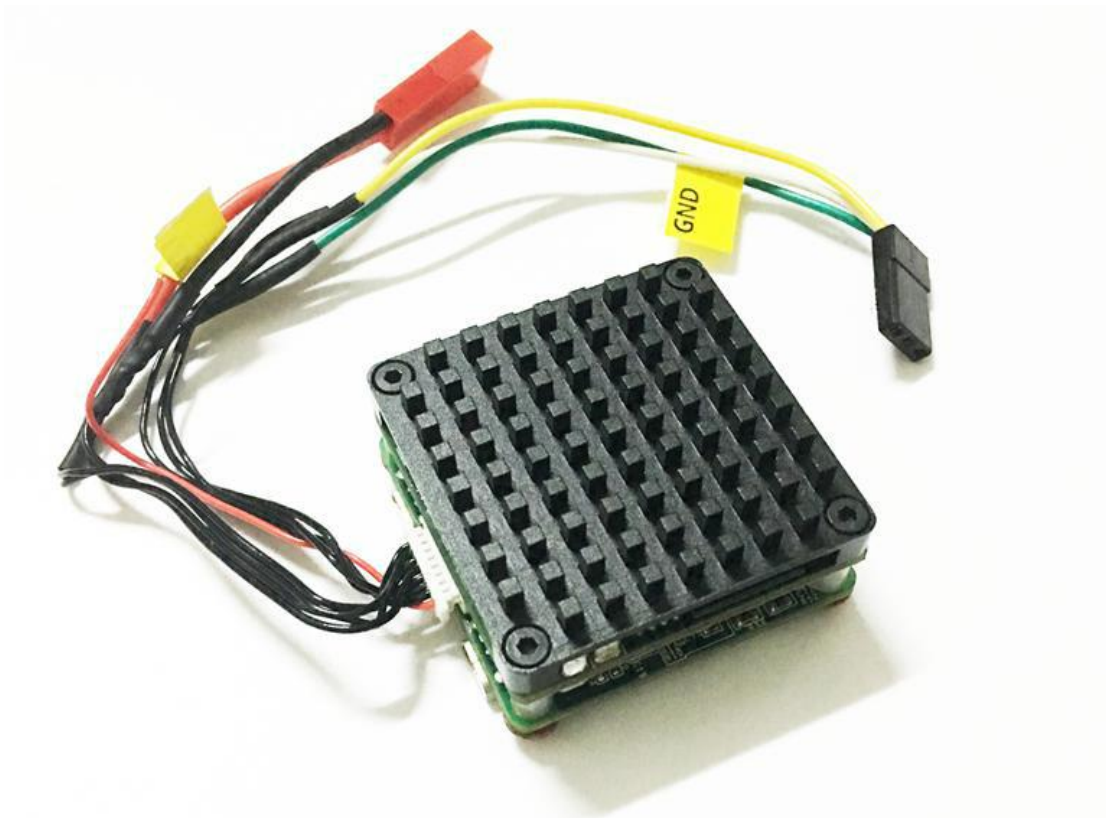




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AOTM(auto object tracking module)



Auto object tracking module is a device for zoom camera that could real-time track the static or moving target with the help of UAV and other high-speed moving platforms.

The object tracking module consists of two circuit boards which features smallest volume, lightest weight and lowest power consumption. Outstanding real-time processing capability and extensibility also makes the device easily integrate into the gimbal and zoom camera.

The tracking module could perfectly process the image affine transformation caused by the high speed movement of the platform, as well as the panning, zooming and rotation of the target.



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Features

- 1)Size:38mm x 38 mm x 16mm
- 2)Adapt to image affine transformation caused by high speed movement
- 3)Adapt to target panning, zooming, rotation and partial occlusion
- 4)Adapt to illumination variation
- 5)SD video or HD HDMI video input supported
- 6)TF card storage

Specification

Video format	Video input	SD video/HD 1080I/HD1080P
	Video output	SD video/HD 1080I/HD1080P
Tracking index	Data refresh rate	50Hz/25Hz
	Output lag	<10ms
	Minimum target contrast	0.05
	Tracking speed	±32pixel/frame
	Target effective memory	100 frame
	Target size	16x16 pixels to 160x160 pixels
Environmental suitability	Working temperature	-40°C~60°C
	Storage temperature	-40°C~65°C
	Shake	Meet the GJB 150A vibration test conditions
	Strike	Meet the GJB 150A vibration test conditions
Others	Volume	38mm × 38 mm × 16mm
	Weight	<30g
	Power consumption	<2W

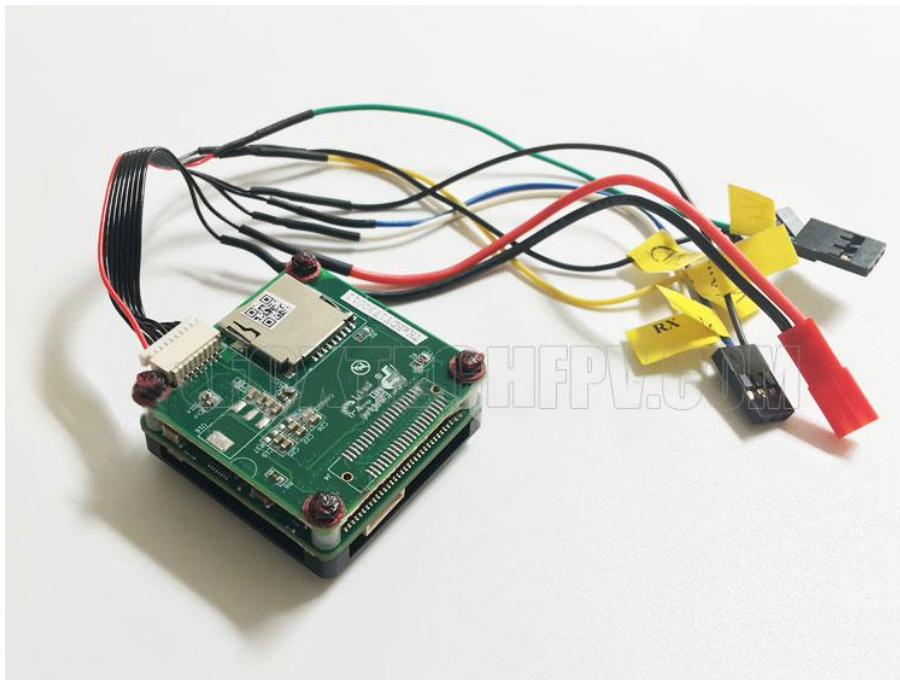


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HD version AOTM



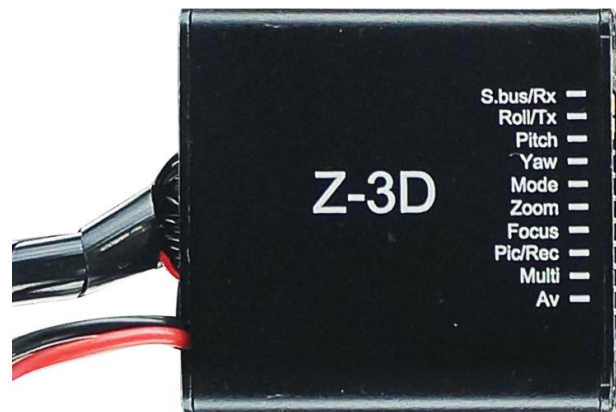
SD version AOTM





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How to control AOTM



Normally we will control the AOTM via “Multi” channel via controller, please connect it to a 3 gears channel. Flip the channel from low gear to middle gear, then a cursor will appear on the screen, you are able to move the cursor via the controller YAW and PITCH axis (used to control gimbal YAW and PITCH axis). Once you move the cursor to the object you want to track, flip to high gear then the object is locked and will be tracked automatically by the gimbal.

Further more, AOTM supports “relock”. For example, you are now tracking the head of a car, but later you wish to track the car plate. To do this, you just need to flip to middle gear from high gear, and lock the car plate again.