

Thermal and dual channel cameras

General information about ADTV-7500FX thermal and dual channel cameras:

- ✓ This cameras are designed based on the latest 5th uncooled infrared technology. With 336 x256 /640 x480 UFPA sensor.
- ✓ Built in advanced digital circuit processing technology, which is capable of big scope of temperature detection of targets and output temperature distribution image and temperature information.
- ✓ ADTV-7500FX series dual channel camera is equipped with 2 Megapixel HD box camera and 360 degree rotation PTZ, which ensure 24 hours real - time monitoring. One integral aluminum alloy housing sealed with nitrogen and IP66 ingress protection ensures its proper functioning outdoor.
- ✓ ADTV-7500FX temperature measurement system software, which can realize real time dynamic max temperature point tracking, position coordinates of max temperature and mini temperature.
- ✓ 10 target sub regions, screen display the max temperature, mini temperature, average temperature etc. Built in temperature absolute threshold, airspace relative threshold etc.
- ✓ 6 kinds of alarm algorithms. Alarm (audible and light) will be triggered when temperature exceeds preset value.
- ✓ This camera can be ganged with visual camera for the convenience of timely monitoring of targets. Besides, the camera can also be linked to firefighting system and broadcast systems via the preset switch alarm.



Feature:

- More exactly temperature measurement, digital thermometer, thermal image is based on the original data processing, separation between front-end temperature measurement techniques and thermal video.
- Thermal and 2 megapixel HD dual channel camera, output thermal image and visible image meanwhile, observe specific details.
- UFPA detector, small size, longer using life, lower power consumption, work more stable than normal uncooled detector.
- The latest generation of MEMS technology, NETD: 50mk, get more delicate picture.
- SDE, no image noise, 10 pseudo colors.
- 10 target sub regions, independently detection and alarm thresholds, return the max temperature, min temperature and location from front end
- Special temperature alarm technology, eliminates false report due to the temperature difference outdoor and weather changes
- KTVC automatic multi-points scanning detection, multiple detection areas per preset, 360 degree full time monitoring.
- Military style design, one integral aluminum alloy housing and sealed with nitrogen, IP66 weatherproof, enable the camera works well in severe weather conditions.
- IP network design, video, alarm data, location data transmission via one network cable.

Application:

Power detection, substation, petrochemical, online test of industrial equipment operating, medical thermometer, health and epidemic prevention, building inspection, circuit research and design thermal analysis.



Technical specification of the device:

Model	ADTV-7501FX	ADTV-7502FX	ADTV-7503FX
FOV	43.6°*32.7°	27°*20.2°	11°*8.2°
Thermal sensor	5 th generation UFPA		
Resolution	384*288 pixel (640*512 optional)		
Spectral response	7.5~14μm		
NETD	50mK (@25°C F1.0)		
Thermal lens	10mm F1.0	20mm F1.0	50mm F1.0
Visible CCD	1/2.8" CMOS, 2 mega pixels, ICR optical filter, auto color to B/W.		
Visible lens	4.7~94mm lens, motorized zoom and focus.		
Image processing	1. Stable operation temperature without TEC, starting time less than 4 seconds		
	2. SDE digital image processing		
	3. 10 pseudo color and B/W, B/W conversion		
	4. 2X digital amplification		
Temperature accuracy	1. Temperature accuracy: ±2°C or ±2% of reading ,take the maximum		
	2. Temperature range: -20°C – 120°C (650°C optional)		
	3. Adjustable parameters, include temperature correction, emissivity, atmospheric transmissivity, humidity		
Temperature model	1. Support high, low and average temperature tracking, point, line and rectangular detection; multi addable detection targets		
	2. Each road can be set up to 10 alarm region, independent threshold value and sampling cycle setting, independent curve chart		
	3. Fixed point monitoring, multi areas addable.		
Overheat alarm	1. 6 kinds of alarm algorithm, maximum, minimum, average, middle position absolute threshold and airspace relative, time domain, relative value alarm temperature mutations		
	2. Sound, light alarm. Presets a linkage visible light camera ptz automatic observation target. Reserved switch alarm output, manual/automatic fire extinguishing system and the broadcasting system		
PT	1. Duty: 15kg		
	2. Rotation: pan: 0~360°, tilt: -75~+40°		
	3. Rotation speed: Pan: 0.1~60°/S, tilt:0.1~30°/S		
	4. 256 presets		
	5. Anti-shake		
Interface	1. One RJ45 network interface (including video and temperature data, azimuth of return data, PT control transmission), one switch alarm output (linkage acousto-optic alarm, start, fire control system)		
	2. AC24V/DC24V		
	3. Waterproof aviation connector		
Environment parameters	1. Protection: One integral aluminum alloy housing, IP66		
	2. Operational temp.: -35°~55° (-45°optional)		
	3. Power consumption: common 50W, peak 100W		



Model	ADTV-7504FX	ADTV-7505FX	ADTV-7506FX	ADTV-7507FX
FOV	43.6°*32.7°	27°*20.2°	43.6°*32.7°	27°*20.2°
Thermal sensor	5 th generation UFPA			
Resolution	384*288 pixel (640*512 optional)			
Spectral response	7.5~14μm			
NETD	50mK (@25°C F1.0)			
Thermal lens	10mm F1.0	20mm F1.0	10mm F1.0	20mm F1.0
Housing	1, One integral aluminum alloy housing		1、Explosion-proof housing, 304 stainless steel, One integral aluminum alloy housing, no connecting line outside	
	2, IP66 ingress protection		2、Exd II CT6 / DIP A20 TA,T6 certified, ALO	
	IP66		IP68	
Image processing	1. Stable operation temperature without TEC, starting time less than 4 seconds			
	2. SDE digital image processing			
	3. 10 pseudo color and B/W, B/W conversion			
	4. 2X digital amplification			
Temperature accuracy	1. Temperature accuracy: ±2°C or ±2% of reading, take the maximum			
	2. Temperature range: -20°C – 120°C (650°C optional)			
	3. Adjustable parameters, include temperature correction, emissivity, atmospheric transmissivity, humidity			
Temperature model	1. Support high, low and average temperature tracking, point, line and rectangular detection; multi addable detection targets			
	2. Each road can be set up to 10 alarm region, independent threshold value and sampling cycle setting, independent curve chart			
	3. Fixed point monitoring, multi areas addable.			
Overheat alarm	1. 6 kinds of alarm algorithm, maximum, minimum, average, middle position absolute threshold and airspace relative, time domain, relative value alarm temperature mutations			
	2. Sound, light alarm. Presets a linkage visible light camera ptz automatic observation target. Reserved switch alarm output, manual/automatic fire extinguishing system and the broadcasting system			
Alarm log	1. Real-time record each object temperature data, automatically generate trend curve.			
	2. Can automatic storage temperature when trigger the alarm data, snapshot images and videos, establish and record the related logs, video storage, real-time playback			
Interface	1. One RJ45 network interface (including video and temperature data), one switch alarm output (linkage acousto-optic alarm, start, fire control system)			
	2. AC24V/DC24V			
	3. Waterproof aviation connector			
Environment parameters	1. Operational temp.: -35°C~55°C (-45°C optional)			
	2. Power consumption: common 10W, peak 20W			

