HI Series Tracker

1. **Product Overview**

   The HI series tracker adopts a domestic intelligent AI chip and independently developed image intelligent algorithms. It can autonomously detect and recognize targets in real-time, automatically or manually select targets for locking and tracking, and simultaneously output the target deviation information relative to the center of the field of view.

2. **Product Functions**

   1. Supports AI intelligent target recognition.
   2. Supports initiating tracking through target recognition confidence, clicking, etc.
   3. The tracking target supports gate adaptation, with manual adjustment of gate size.
   4. Supports re-detection after tracking loss, with good anti-background interference and anti-occlusion capabilities.
   5. Features electronic zoom function.
   6. Supports picture-in-picture display and control of picture-in-picture display on/off.
   7. Supports OSD customization.
   8. Supports adjustment of target position and size during tracking.

3. Specifications

Video Format	Input Video: Visible Light: 4K fixed focus, 2K Sony zoom Infrared: 1280×1080, 640×512 resolution
	Output Video: 1080P@30Hz
	Video Storage: SD card storage for JPEG images/H.264/H.265 video
	Video Display: Picture-in-picture, OSD information customization
Tracking Indicators	Tracking Frame Rate: 50Hz
	Tracking Output Delay: 1 frame
	Tracking Accuracy: ±2 pixels
	Target Memory Tracking Function: Occlusion ≤ 3 seconds
	Target Size: 16×16 to 128×128 pixels
	Tracking Modes: A. Manual Confirmation B. Automatic Recognition Confirmation
Detection Indicators	Data Refresh Rate: ≥25Hz
	Simultaneous Detection Quantity: ≥10 (different types, multiple targets)
	Detection Capability: Visible Light: ≥32×32 pixels Infrared: ≥16×16 pixels
	Stable Detection: Visible Light: ≥64×64 pixels Infrared: ≥32×32 pixels
Electrical Interface	Video Input Interface (customizable): LVDS, MIPI, USB3.0 (compatible with 2.0)
	Video Output Interface (customizable): HDMI_2.0/Gigabit Ethernet (compatible with 100Mbps)
	Communication Interface: RS232/TTL
	Power Input: DC-12V/2A
Environmental Adaptability	Operating Temperature: -40℃ to 60℃
	Storage Temperature: -45℃ to 80℃
Others	Dimensions: 38mm×38mm×20mm
	Weight: <30g
	Power Consumption: <4W@25℃ (excluding visible light or infrared camera module power consumption)