

www.kevis.co.kr



Since 1998 Professional CCTV
Mechanical Product Manufacture

Professional POSITIONING Solution

***Dual-Spectrum AI Long-Range PTZ Surveillance System
Gyro Stabilized Positioning Control · All-weather protection ·
AI Recognition · Precision Tracking***



KONEX-4000T

This dual-spectrum AI PTZ system integrates a long-range low-light visible camera and an infrared thermal imaging camera to deliver **reliable all-weather surveillance** in complete darkness and harsh environments such as fog, rain, and snow.

Advanced image processing and AI-driven analytics enable **accurate long-distance detection, identification, and smooth automatic tracking** of multiple target types. Dual-axis gyroscope stabilization control.



www.kevis.co.kr

KONEX-4000T



Features

■ Dual-Spectrum Imaging :

Visible + thermal cameras with simultaneous AI recognition

■ 50× Optical Zoom (6–300mm) :

Long-range observation with optical fog penetration

■ Thermal Imaging (640×512) :

100mm F1.0 lens for long-distance heat detection

■ AI Target Recognition & Tracking :

People, vehicles, ships, drones, aircraft, birds

■ 5 km Laser Rangefinder :

High-precision long-distance ranging

■ Direct-Drive PTZ System :

Smooth motion, minimal backlash, high positioning accuracy

■ Dual-Axis Gyro Stabilization :

Stable imaging under vibration and wind

■ Industrial-Grade Design :

IP67-rated, impact-resistant housing

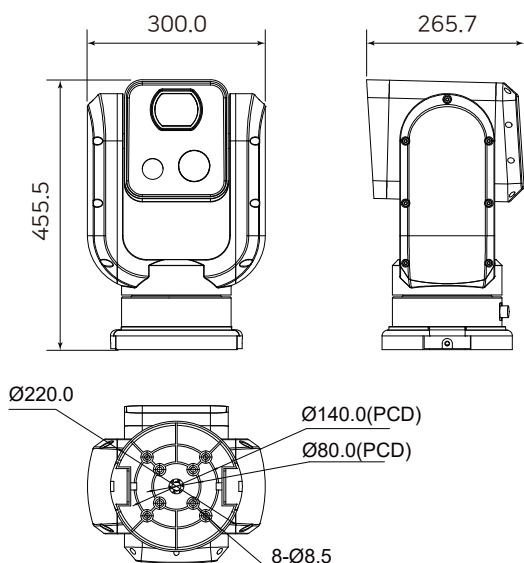
※ Specification

Visible light camera	
Image Sensor	1/1.8" CMOS Progressive Scan CMOS / Effective Pixels : 4.17M
Zoom	6–300 mm, Optical: 50× / Digital: 16x
Aperture	F1.4 – F4.5
FOV	H:66°~1.4°, V:40.3°~0.8°, D:73.4°~1.7°
Close Focus Distance	1m~5m(wide~Tele)
Zoom Speed	6.5sec(Optics, Wide~Tele)
Resolution	Main Stream: 2688*1520@25/30fps; 1920*1080@25/30fps Sub Stream1: D1@25/30fps; CIF@25/30fps Sub Stream2: 1920*1080@25/30fps; 1280*720@25/30fps; D1@25/30fps LVDS: 1920*1080@25/30fps
Video Bit rate	32kbps~16Mbps
Video Compression	H.265/H.264/H.264H/MJPEG
Audio Compression	AAC/MP2L2
Storage Capabilities	TF card, up to 256GB
Network Protocols	ONVIF, HTTP, RTSP, RTP, TCP, UDP
General Events	Motion Detection, Tamper Detection, Scene Changing, Audio Detection, SD Card, Network, Illegal Access
IVS	Tripwire, Intrusion, Loitering, etc.
Minimum Illumination	Colour: 0.005 Lux/F1.4
Shutter Speed	1/3 ~ 1/30000 Sec
Noise Reduction	2D / 3D
Image Settings	Saturation, Brightness, Contrast, Sharpness, Gamma, etc.
Exposure Model	Auto/Manual/Aperture Priority/Shutter Priority/Gain Priority
Exposure Comp	Support
WDR/BLC/HLC/Flip/AGC	Support
S/N Ratio	≥ 55dB (AGC Off, Weight ON)
White Balance (WB)	Auto/Manual/Indoor/Outdoor/ATW/Sodium Lamp/Natural/Street Lamp/One Push
Day/Night	Auto (ICR)/Manual (Colour, B/W)
Image Stabilization	Electronic image stabilization
Fog Penetration	Optical fog penetration supported
Day/Night Mode	Automatic / Manual
AI Functions	Recognition and auto-tracking of people, vehicles, ships, drones, aircraft, birds
Thermal Imaging Camera	
Detector Type	Uncooled VOx Microbolometer
Resolution	640 × 512
Frame Rate	50 fps
Pixel Size	12 μm
Focal Length Zoom	25 ~ 75mm 3x
Pseudo Color	10 pseudo-color modes
Hotspot Alarm	Detects hotspots as small as 2 × 2 pixels
Temperature Display	Up to 10 high-temperature targets
Heat Source Tracking	Automatic thermal target detection and tracking
AI Functions	Recognition and tracking of people, vehicles, ships, aircraft, drones, birds
Laser Rangefinder	
Laser Wavelength	1535 nm ±10 nm
Maximum Range	≥ 5 km
Accuracy	±2 m (RMS)
Repetition Rate	Single-shot, adjustable 1–5 Hz
Beam Divergence	≤ 0.5 mrad
Measurement Accuracy	≥ 98%
PTZ & Stabilization	
Pan Speed	0.01°/s – 300°/s
Tilt Speed	0.01°/s – 120°/s
Pan Range	360° continuous rotation
Tilt Range	±90°
Positioning Accuracy	0.01° (feedback accuracy 0.003°)
Presets	>500 preset positions
Stabilization	Dual-axis gyroscope stabilization
Drive System	FOC-controlled direct-drive brushless motor
System & Interface	
Power Supply	DC 24V / 5A
Network Interface	1 × 100M adaptive Ethernet
Control Interfaces	RS485, TTL, CAN, SPI, I2C
Control Protocols	Pelco, VISCA, proprietary CVT control
Installation	Flat base mounting
Dimensions	300 × 265.7 × 455.5 mm (customizable height)
Weight	Approx. 20 kg
Protection Rating	IP67
Optional Features	Laser illumination, GPS, temperature & humidity sensors

※ These specifications are standard and subject to change when designed

Dimensions

UNIT(mm)



■ KEVIS.INC

● B1307 IT-Valley, 17, Gosan-ro 148beon-gil, Gunpo-si, Gyeonggi-do, Korea 15850 ● TEL. +82-31-427-9801 FAX. +82-31-427-9806

● International offices | Kevis USA (Tap Electronics DBA KEVIS USA) / Kevis China (Ningbo Kevis Inc.)

※ For customized solutions and detailed specifications, consult our sales development team.

www.kevis.co.kr

