

HZ-PA-3EX

Acoustic & Laser Ex Camera



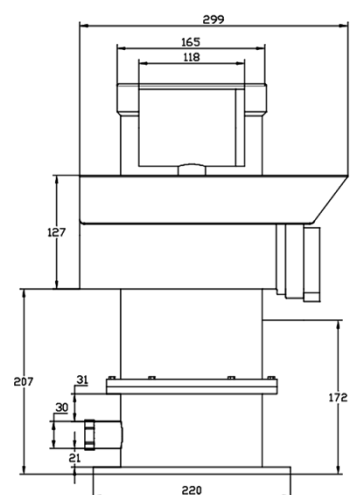
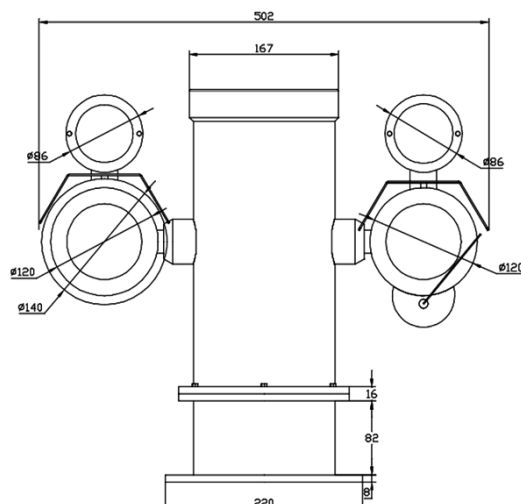
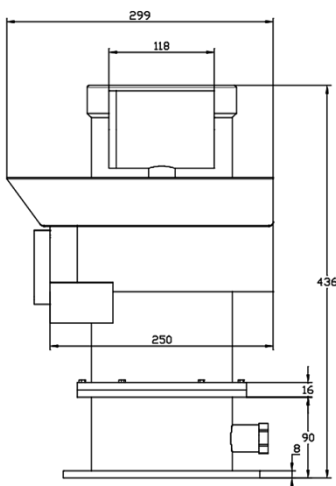
Key Feature

- 128 MEMS Microphones
- 2MP optical camera with 32x optical zoom
- Methane laser with 50m/100m option distance
- Supports multiple source detection
- Real-time sound source localization
- Real-time estimate gas leak rate
- Water proof and dusk proof
- Anti explosion

Acoustic imaging + laser methane integrated explosion-proof PTZ camera (HZ-PA-3EX) is an explosion-proof integrated PTZ camera specially designed for gas leakage.

The camera adopts the vibration signal generated by the scanning of the laser beam to judge the methane concentration to lock the scope of the gas leakage and then uses the acoustic sensor array to accurately locate the leakage position, and displays intuitive acoustic field images by means of a colorful sound point.

The product monitors gas leakage through multi-dimensional means, finds early leakage points, improves fault identification rate, and detects and analyses specific gas leakage scenarios.



■ Specification



Model	HZ-PA-3EX
Acoustic	
Microphones	128 channel MEMS microphones
Acoustic Image Resolution	1920*1080
Dynamic Range of Sensors	30dB ~ 120dB
Distance	0.3m ~ 150m (1ft - 164ft)
Bandwidth	2kHz ~ 65 kHz
Sampling Rate	130kHz
Camera FOV	65°
Imaging Frame	25FPS
Targets	3
Optical Camera	
Sensor	1/2.8" progressive scan CMOS
Lens	5.9 mm~188.8 mm, 32x optical zoom
Iris	F1.5 ~ F3.4
Resolution	50HZ:25fps(1920X1080) 60HZ:30fps(1920X1080) 50HZ:25fps(1280X960) 60HZ:30fps(1280X960)
Low light	Color 0.05 lux @ (F1.5, AGC ON); Gray: 0.01 lux @ (F1.5, AGC ON)
Gas Laser	
Detection Principle	TDLAS
Detection Target	Methane
Sensitivity	5ppm
Detection Distance	0 ~ 50m, 0 ~ 100m(optional)
General	
Pedestals	304 stainless steels
Horizontal Rotation	0-360°
Vertical Rotation	-90~+90°
Preset position	255
Anti explosion	Ex db IIC T6 Gb/ Ex tb III C T80°C Db
Power supply	AC 110 -230V /DC24V
Connector	G3/4
Rate of work	75W
Temperature of working	-40°C ~ +65°C
Temperature Storage	-50°C ~ +75°C
Humidity	≤95 %
IP Protection	IP 68
Shock Resistance	25G
Vibration Resistance	2G
Weight	35KG