

800M Laser 1080P 30X Zoom

Smart Bird Defense PTZ System



Key Features

- 2MP HD visible-light camera with deep learning algorithms for precise bird flock identification;
- Automatically activates laser high-intensity acoustic waves, and ultrasonic emitters sweeping within preset angles upon detection;
- 532nm wavelength (most visible to birds) with customizable power settings (safe for humans and equipment);
- Horizontal 360° continuous rotation + vertical -90° to +90°tilt for sweeping large farms, airports, or power grids;
- Adjustable parameters: laser sweep speed/angle, PTZ movement range, operation schedules;
- Remote management via web or NVR for real-time monitoring;
- IP56-rated against dust/water; lightning/surge/EMI protection; self-cleaning glass window.
- Stores bird activity images locally or on cloud servers for behavior analysis.

Product features

The Bird Dispersal Laser-Acoustic Multi-function PTZ Platform integrates specialized wavelength lasers, directional acoustic waves, and ultrasonic technology into an AI-driven avian deterrent system. Engineered for extended operational range, it enables real-time long-distance control through remote management systems without interfering with adjacent equipment. Featuring IP66-rated environmental protection, this solution meets year-round outdoor deployment requirements for critical applications including airports, orchards, farmlands, warehouses, and power transmission facilities.

Technical parameters

Model	SV-900BMF350405
Camera function	
Image sensor	1/2.8" Progressive Scan CMOS
Effective Pixels	2MP
Minimum Illumination	Color: 0.005 Lux @(F1.67, AGC ON); B&W: 0.001 Lux @(F1.67, AGC ON)
Main stream	50Hz: 25fps (1920×1080, 1280×960, 1280×720); 60Hz: 30fps (1920×1080, 1280×960, 1280×720)
Focal length	5.1-153mm, 30x optical zoom; 16X Digital zoom
Aperture	F1.67-F3.67

Horizontal field of view	62.26° - 2.39° (wide - tele)	
Wavelengththe lasers		
Laser beam Light	Green	
Wavelength	520±5nm	
Laser type	Linear Line Pattern(10mm@100mmdistance)	
Effective Deterrence Range	≥800m(nigh)/≥100m(day)	
Laser class	3B(IEC60825-1:2014)	
Optical Output Power	≥1500mW	
Multi-Modal Deterrence		
Type	Acoustic waves	Ultrasonic modulation
Power consumption	65W	2X5W/H
Acoustic Output Range	650Hz~6KHz	1.5K-25KHz
Sound Pressure	138dB/1m	120dB/1m
Operating Modes	Multi-source Audio Library/Cyclic Playback	Frequency Modulation / Fixed-Frequency Operation
Pan&Tilt Features		
Rotation range	Horizontal: 360° continuous, vertical: -90 to +90°	
Rotation speed	Horizontal: 0.1~30°/S, Vertical: 0.1~30°/S	
Preset position	255	
Breathable vent	Integrated 2 waterproof breathable vents to minimize fogging and condensation	
Communication	VISCA\Pelco D RS485, Ethernet RJ45,RS422	
Other	Cruise scan\ Power-off Position Memory\ Intelligent Ready Position\ Software OTA Update\ query angle return function\ Status Display Support	
Network		
Network Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, RTP, RTSP, RTCP, NTP, SMTP, SNMP, IPv6	
Access Protocol	ONVIF(PROFILE S,PROFILE G)	
Storage Function	Support micro SD / SDHC / SDXC card (256g) offline local storage, NAS (NFS, SMB / CIFS support)	
Smart		
Automatic Bird Flock Recognition	Identifies avian targets with real-time motion detection, captures optimal images of flying birds, and outputs high-definition target snapshots.	
Intelligent Algorithm	Embedded deep learning engine trained on massive annotated datasets (images/videos), increasing target recognition rate by up to 95% under complex backgrounds	
Interface		
Ethernet Port	RJ4510/100Base-T(IEEE 802.3)	
Alarm I/O Terminal	One line Input/ one line Output(IEC 62676-4)	
External RS-485 Interface	One line(ISO/IEC 8482:1993)	
Grounding Terminal	One line(IEC 60364-5-54)	
General		
Power supply	DC24V/6.0A	
Power consumption	≥90W	
Working Temperature	-30℃~60℃	
Working humidity	0~90%RH	
EMC level	IP56, Power 4000V, Surge and Spike Protection	
Dimensions	L512mm×W208mm×H294mm	
Product weight	13.6kg	

Dimension

