

## PTZFusion™ Lite –13 ONVIF Pan-Tilt Positioner

The PTZFusion Lite - 13 is an advanced ONVIF conformant Pan-Tilt Positioner. When the positioner is integrated with a stationary ONVIF camera, a combined ONVIF Pan Tilt Zoom camera system is created.

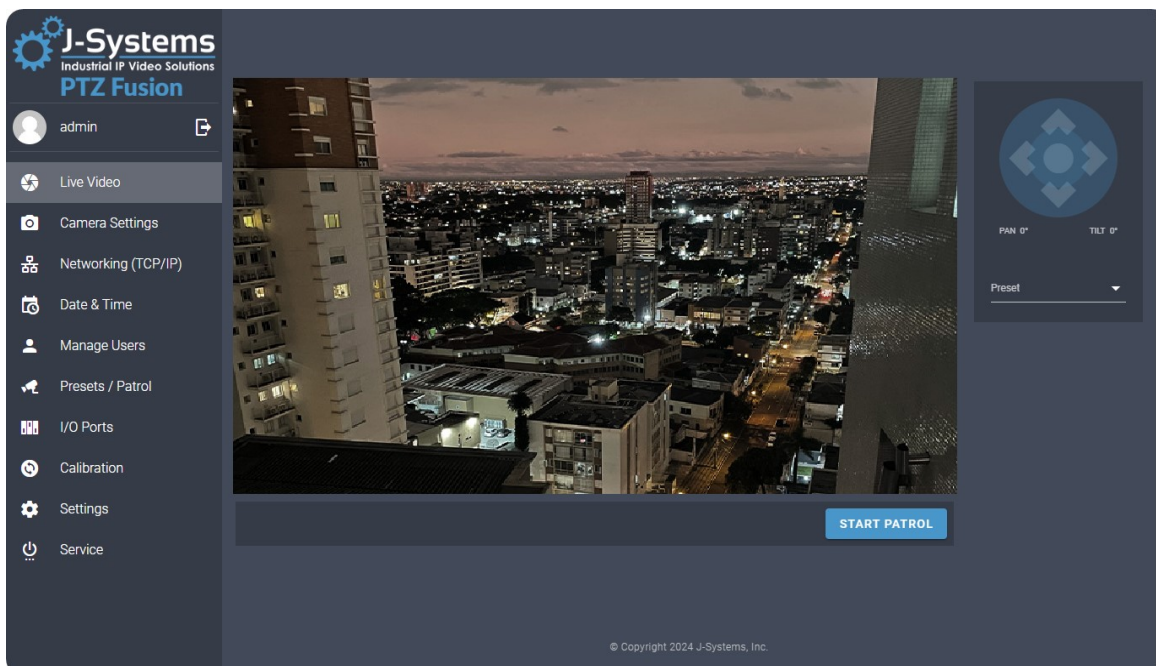
The only device visible to the VMS is the camera which now features native Pan-Tilt-Zoom capabilities.

### TRANSFORM ANY STATIONARY ONVIF CAMERA INTO A NATIVE ONVIF PTZ CAMERA

This blend between a fixed camera and a rugged Pan-Tilt positioner allows standard, as well as specialty cameras (Thermal, SWIR, LWIR, OGI, LPR, Starlight and others) to achieve full Pan Tilt and Zoom capabilities natively through a VMS. This advanced solution is IP based, PoE+ powered, does not require any additional software, Serial to Ethernet converters, Serial protocols, or a dedicated computer.

The PTZFusion Lite - 13 operates from –30 to +60C, is designed for rugged environments and can be controlled from any web browser. Variable speed motion control is offered via a built-in virtual joystick. Live video from an attached camera is displayed in a unified web interface for easy setup and operation.

- ONVIF Profile S Conformant
- Entirely IP Based - PoE + Powered
- Web Based - Works in Any Modern Browser
- Rugged Operation –22 to +140F (-30 to +60C)
- Camera Brand and Model Independent
- Works With Any VMS System
- Designed, Built and Supported in the USA
- REST API Available



## Mechanical

Drive Unit	DC Brush Motors
Gear Train	All Metal Involute Spur Gears
Pan Range	0 to 360°
Position Feed Back	12 Bit Absolute PWM Encoders
Startup Calibration	Not Required
Tilt Range	-30° to +90°
Variable Pan Speed	0 - 28° Deg/Sec
Variable Tilt Speed	0 - 10° Deg/Sec
Accuracy	+/- 0.1°
Ingress Protection	IP67
Operating Temperature	-30 to +60C
Capacity	Up to 13 lbs. Balanced Load
Paint	Powder Coat Marine White
Height	6.5 Inch
Width	6.2 Inch
Weight	5.7 Lbs
Maintenance	None Required

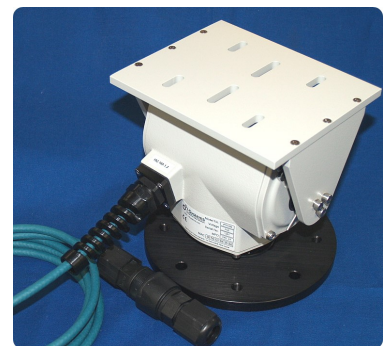
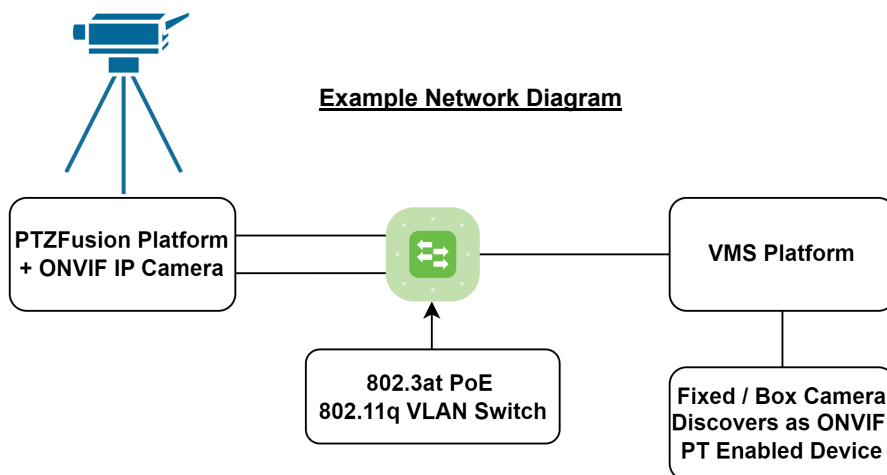
## System

Warranty	1 Year
API	REST API <a href="http://docs.j-systems.com">http://docs.j-systems.com</a>
Device Finder	Windows
Firmware Update	Web Based
Other Devices	A camera is not required for the system to operate properly. Other sensors can be mounted and controlled as required

## PTZFusion - ONVIF Profile S Conformant

Processor	Arm Cortex-A7
OS	Embedded Linux
Network Protocols	IPv4, IPv6, ICMP V4, ICMP v6, HTTP, HTTPS, TLS, mDNS, (Bonjour), DNS/DNSv6, NTP, RTSP, Web RTC TCP, UDP, NTP, DHCPv4, IPV6 SLACC / RA, 802.11q
Security	Signed Firmware, Secure Boot
Video Codec Support	H.264 Baseline Profile
Web UI	Modern Interface with Virtual Joystick
Browser Support	Chrome, Firefox, and Edge
Power	IEEE 802.3at (PoE+)
Position Control	Virtual Joystick / Variable Speed
Position Feedback	Live Pan and Tilt Feedback displayed in Degrees
Zoom Function	Supported in Box Cameras That Feature a Built in Power Zoom Lens
USB Joystick	If Supported in VMS
Presets and Patrols	User Defined
NTP Server	Delivers Accurate Time to Connected Camera
Camera Management	Camera's Native Web UI is Accessible
Pelco-D	RS485 Support for Legacy Systems
VLAN	802.11q VLAN Switch Required if used with an ONVIF camera
Travel Limits	User Defined

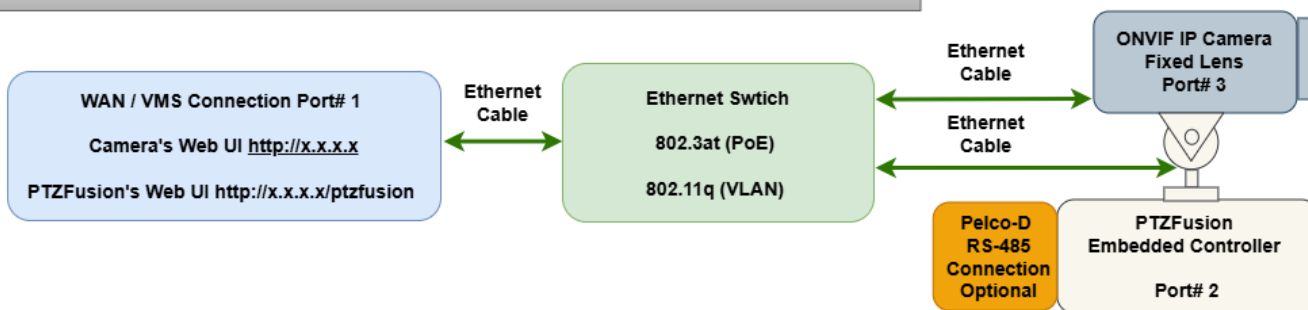
### Example Network Diagram



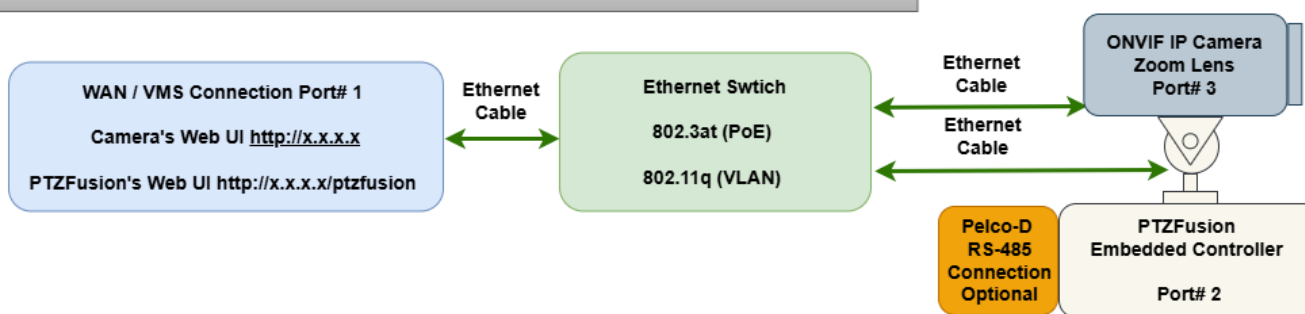
**PTZFusion™ Lite—13**

## Example System Applications

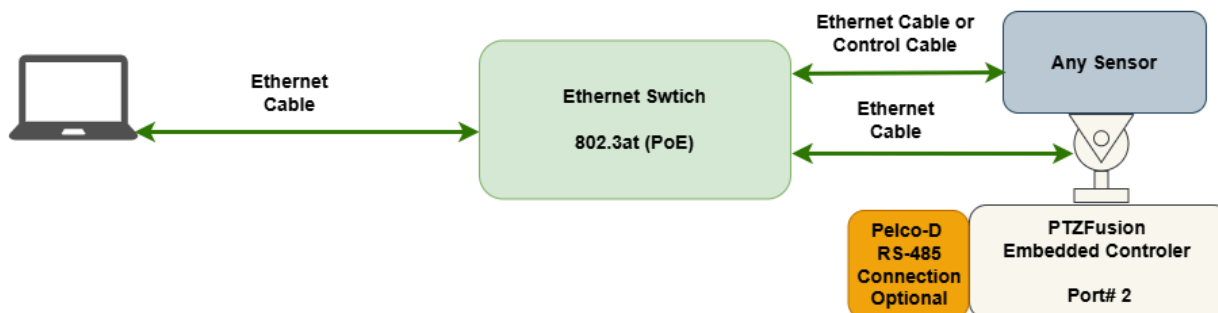
**Fixed Focal Length Camera e.g. Thermal, Radiometric, LPR etc.**



**Box Zoom Camera e.g. Hanwha, Axis, Vivotek etc.**



**Other Sensors Including, Optical Gas Inspection Cameras, Antennas, Lights, Speaker, etc.**



**Port Based VLAN Example for ONVIF Integration**

Port	VLAN ID	Untagged	Tagged	PVID	Note
1	1	X		1	WAN / NVR
2	1	X		1	PTZ Fusion
2	20		X	1	PTZ Fusion
3	20	X		20	ONVIF Camera
4	1	x		1	Installer Laptop
5	1	x		1	Optional

**Note: If VMS / ONVIF Integration is not required a VLAN switch does not need to be installed. The PTZFusion platform works independently with any type of device or payload mounted on the top plate.**