j-systems
Engineered Surveillance Solutions

Rugged Auto Focus 32X 2MP PTZ Camera System

The J-CAM PTZ 512X is the Ideal 2MP, High Magnification PTZ Camera Systems for Construction Projects, Weather Monitoring, Tourism, Snow Pack Observation, Nature Research, TV Stations, Educational, and Security Applications

PoE 2MP HD 32X Camera

32X Optical & 16X Digital Zoom

HD, 2MP, 1080p 60 fps

Auto Focus, Fog Filter

Superior Low Light 0.03 lux B/W

H.264 & MJPEG Dual Stream

Micro SD Storage

Optically Clear Glass Window

Alarms, Privacy Mask, Audio

PoE Pan/Tilt Positioner

Closed Loop DC Servo System

User Defined Presets

Rugged Construction

High Tensile Strength SS Gears

Highly Repeatable Preset Positions

Built In Microprocessor Controller

Exclusive "Position Auto-Hold"

Rugged All-Weather System . . Low Glare Window Resists Water, Oil, and Abrasion . . -30 to +70 Operation

Rugged HD PTZ Camera System

A tightly integrated 2MP camera and P/T head makes installation easy. Simply mount-it, point-it, and power-it from any PoE switch. Key PTZ functions are controlled from the camera's Web interface.

The special glass window enhances image quality significantly over other types of windows. The window is also optically clear, offers low reflectance, is oleophobic, hydrophobic (resists water), and is abrasion resistant.

The camera features Auto Focus and a 32X optical zoom lens eliminating all field adjustments. Optional IR illuminators make night viewing a snap.

With our optional 12-24VDC PoE+ switch, this camera system is ideal for a remote solar powered applications.

Full-Featured, All-Weather PoE Powered PTZ Camera System

FEATURES

- Spectacular Video Image and Clarity
- Camera & P/T Head Operate from Low Power PoE Switch
- HD, 1080p Quality Images
- Auto Focus
- 32X, 4.4 to 142.6mm Optical Zoom
- 16X Digital Zoom
- 17 User Defined Presets
- Camera is ONVIF Profile S Compatible
- Pre-Configured with Cables & Waterproof Connectors

Ideal PTZ Camera System For

Construction Projects	*TV Station Traffic / Wx*	*Weather Monitoring*
Security Applications	*Real Estate Monitoring*	*City Tourism*
Special Events	*Educational Studies*	*Snow Camera*

J-Systems, Inc.

Features & Benefits

The J-CAM PTZ 512X is an advanced, high quality PTZ imaging system that can survive in extreme environments.

This all PoE powered PTZ camera system offers truly advanced control and imaging capabilities at a very modest price.

HD 512X Camera

The camera features Auto Focus and key PTZ functions are controlled from a single web based user interface.

The camera features Auto Focus, 32X optical zoom, 16X digital zoom, conforms to ONVIF Profile S, has a slot for a Micro SD card, alarms, privacy mask, 2-way audio, fog filter, intelligent video analytics, H.264 and MJPEG video. The camera controls the pan/tilt head via an RS485 link and offers superior low light 0.03 lux black and white performance.

Pan / Tilt Control System

The pan/tilt head houses an advanced microprocessor controlled DC servo system offering 17 user defined presets and an automated patrol (touring) system. It is PoE powered and IP68 rated for all types of weather.

Advanced Aluminum Camera Enclosure w/ Sun Shield

The camera's operating temperature range is -10C to +55C without heating or cooling. The included IP66, 24VDC AC/DC power supply is available to power the enclosure's heating and cooling system which will extend the operating temperature to -30C to +70C.   The pan/tilt head requires no heating or cooling from -30F to + 70F. The heater and cooling fan are each thermostatically controlled and the camera enclosure is sealed.

An optically clear glass window enhances image clarity. The window is both oleophobic and hydrophobic to repel dirt, dust, water, grease, and oil. A optional pan / tilt head top plate can be ordered that mount two PoE powered IR illuminators should you need to see in total darkness.

Advanced Rugged HD PTZ Camera System

This is a tightly integrated system designed to last for years. There is no routine maintenance required; even the glass window has been designed to shed dirt and water.   This is an ideal system for solar powered applications involving remote monitoring situations where high magnification and high reliability in harsh environments is needed.

Other options such as cellular gateways, wireless microwave links, IR illuminators, 12-24VDC PoE+ switches, remote alarm systems, and other control functionality are available as options. Simply contact one of our engineers to discuss your system needs.

Available Options

Optional IR Illuminator Top Plate

The below photo shows a specially designed top plate for the JPTH-13MPoE Pan/Tilt head that supports two PoE powered IR illuminators.

Optional Remote Alarm / Control Systems

Cellular based remote controlled alarm and control systems are available to meet customer requirements.

Optional Outdoor 12-24VDC PoE+ Switch

This NEMA rated enclosure houses a rugged, 12-24VDC high power PoE switch capable of delivering 60W of total PoE power from a 24VDC power source.

Our Systems Are Built to Last

Designed for harsh environments, these systems are built to survive some of the world's toughest weather conditions.

Baffin Island Air Strip

Remote Mountain Weather Station - Northern Canada

Northern IL, Solar Powered Cellular Camera Systems

HD Camera

Resolution	2MP 720p or 1080p HD
Focus	Automatic Focusing System
Lens	4.4 to 142.6mm Power Zoom 32X
IR	*Optional* IR Illuminators Available
Frame Rate	60fps at 1080p (1920 x 1080) Resolution
Night Min Illumination	B/W 0.03 Lux
Compression	H.264, MJPEG (dual stream encoding)
P/T Control	Camera Controls P/T Head via RS485 Serial Link
Edge Storage	Accepts MicroSDHC Card, 64GB max
Operating Temperature	-10C to +55C , Rated IP67 (-30C to +70 in Encl)
Power Consumption /ONVIF	<10W, ONVIF Profile S
Power	802.3/af PoE or 12VDC

P/T Postioner

Variable Speed Control	Pulse Width Modulation (PWM) w/ Virtual Joystick
DCM Current Management	Proprietary Dynamic Current Management Algorithm
Presets (P/T)	17 User Defined Presets for Pan and Tilt
AutoPatrol	Used Defined Dwell Times and Preset Selection
Start - Stop Profile	Soft Start and Rapid Soft Stop (Trapezoidal Profile)
Load Capacity	P/T Head Can Carry 13 lbs (Over The Top)
Motion Limits	User Adjustable Hard Limits & Software Soft Limits
DC Servo Control	Closed Loop PID Algorithm (Exclusive Auto Hold))
Jog Control	Approx. 0.35 deg per jog with potentiometers (pan-tilt)
Temperature Readout	Deg F at PCB Level +/- 3 degs F
ESD Protection	Yes - All I/O pins
RS 485	Decodes Pelco D (P, T, Set-Recall Preset, Query P/T)
Overload Current	Automatic Torque Limiting Built In
Operating Temperature	-30C to +70C, Rated IP 68
Mounting Brackets	*Optional* - Wall and Pole Mount Brackets Available
Power Consumption	3W
Power	802.3/af PoE

API (Application Program Interface) Available for P/T Positioner

For those applications where a rugged, hardened DC powered PoE+ switch is needed, please check out the J-Switch-PoE+. This switch can be powered from 12-24VDC and is available in a PC/104 style PCB or built into a NEMA 4X enclosure for outdoor applications.