



EAIGLE
 Intelligent Video Analytics
 Real-Time Occupancy Monitoring
 Water Monitoring & Control
 Health & Operational Parameter Monitoring

General Information

- Read all instructions on this sheet first.
 - Plan all component locations carefully.
 - For both indoor or outdoor applications.
 - Install in accordance with ALL local codes.
 - For use with EAIGLE relay box pack and systems only.
 - For use with other systems contact technical support.
- Do not run Low Voltage wiring in the same conduit as power conductors.

Specifications

Technology: Computer Vision
Coverage: Zone Definition

Electrical Ratings:

Input:

- 12-24VDC

Output:

- Isolated Form Relay.
- Isolated Form Relay Ratings: 1A 30VDC/VAC

Network Connection:

Self-Sequential-Auto-Connect Technology

Operating Environment:

- **Temperature:** 32°F-104°F (0°C-40°C)
- **Relative Humidity:** 20% to 90% non-condensing
- For both indoor or outdoor applications

Housing:

- Durable, injection-molded housing. Polycarbonate.

Size:

- Mounting Camera Box Dimensions: 4.195"H x 1.732"W (106.553mm x 44mm)

Relay Box Dimensions:

- 10.00 x 7.09 x 4.37 in. / 254.00 x 180.09 x 111.00 mm. / 1.65 lb

Core Computer Dimensions:

- 6.42 (W) x 13.39 (H) x 13.78 (D) in / 15.76 lb

Operating Modes:

- Automatic ON
- Manual ON / OFF

Description

The EAIGLE Occupancy Camera is a real-time Passive Infrared (PIR) motion-sensing object-agnostic video/computer vision platform all-in-one, used for water & energy savings, operations efficiency, water management, health & operational parameter monitoring for time-saving, cost-saving and convenience.

PIR Technology

The sensor's core program can segment the camera lens to divide the field of view into sensor zones defined individually within a facility to detect the changes in the number of occupants when a person, or part of a person as small as a hand, passes into or out of a camera's vision zone.

EAIGLE allows the control of one Relay Box pack of (8) IoT sensors input to an EAIGLE's Panel. The sensors are interfaced to a real-time, live dashboard integrated to a cloud-based platform. The relay connections controlling the sensors accept either a normally open or normally closed dry contact via the sensor's relay, sensors and connections.

The sensor includes self-adaptive technology that continually adjusts to conditions by adjusting sensitivity and Time Delay, Water Level, Bather Load, Evaporation & Splash in real-time. This allows for maximizing the potential energy savings that are available in this particular application.

The Water Level sensor allows for the system to count for additional adjustments to replenish the displaced water, in lieu of additional water per bather.

The sensor will switch the Fresh Water Valve & Drain Valve ON when it detects water is required to be added during set intervals, auto-adjusting by receiving feedback from a physical water level controller mechanism.

Coverage

The EAIGLE Camera's vision coverage is designed for large wide areas with various depths. Coverage testing has been performed according to various guidelines.

- Minimum Illumination: Color: 0.018 lux @ (f/1.6, AGC on), 0 Lux with IR
- 2688 x 1520 Resolution @ 30 fps
- 2.8 mm to 4 mm Fixed Lens Options
- Main Stream: 30 fps (2688 x 1520, 2560 x 1440, 2304 x 1296, 1920 x 1080
- 12 VDC and PoE (802.3af)

Maximum coverage area may vary somewhat according to the facility shape and the presence of obstacles.

When installing the EAIGLE in a new junction box, choose the camera location carefully to provide optimum coverage of the occupied area. When installing, bear in mind that there must be a clear Line-of-sight between the camera and the area to be covered. Avoid pointing the EAIGLE directly into hallways where it may detect passers-by.



INSTALLATION & FEATURE SHEET

Model

EAIGLE OM: Occupancy Monitoring
EAIGLE WM: Water Monitoring
EAIGLE PM: Parameter Monitoring
EAIGLE WCM: Water Control & Monitoring

Installation

NOTE: Before you begin, read these instructions completely and carefully

Install the 'non-surveillance camera' sign(s) in an accessible and conspicuous area, near the location of the camera.

The EAIGLE camera can be installed in any standard single gang box. It may be installed in the same manner as an ordinary Wall Mount Conduit Box. Follow sequence below:

- Plug Cradlepoint Router in Power
- Turn Camera ON
- Turn Core Computer ON
- Turn Relay Box ON

Model, Feature & Specifications

EAIGLE MODEL LINE-UP

	Occupancy Monitoring	Water Management	Parameter Monitoring
Secured On-Premise Wireless Communication	•	•	•
IR, Object-Agnostic, BlindHD Camera	•	•	•
Non-Surveillance Camera	•	•	•
99% Up-Time	•	•	•
iZ-Connect Technology	•	•	•
Plug-n-Play Installation	•	•	•
On-Premise Closed-Circuit Analytics	•	•	•
High Accuracy & Real-Time Occupancy Monitoring	•	•	•
Live Dashboard	•	•	•
24VDC Configuration	•	•	•
Intelligent Interactive Operation with Live On-Site Operator	•	•	•
Non-Intrusive Water Level Controller		•	•
Water Turbidity (Clarity) Monitoring			•
Digital Log Sheet		Bather Load Only	•
pH, ORP Read-Out			•
Flow Sensor(s)		•	•
Actuator Valve(s)		•	•
Flow Meter Read-Out		•	•
Water Meter Read-Out		•	•
Fiberglass Reinforced Polycarbonate Housings	•	•	•
Meets IP66 rating (IEC of EN60529)	•	•	•

iZ-Connect allows all EAIGLE devices to connect and communicate without human intervention. **Blind** vision allows our cameras to see things as 'objects' and there is literally no video recording for further analysis.

System Schematic

