McQ OWL™ Intelligent Camera

Advanced Surveillance in One Simple Package

McQ OWL™ DESIGN

The OWL incorporates McQ's advanced Micro Radar that responds only to specific targets of interest to trigger a built in surveillance camera. The radar rejects typical foliage movement clutter to virtually eliminate false detections. A low light sensitive color camera has an IR filter shutter that automatically is removed for nighttime imagery. This camera provides excellent live video quality at both low data and higher rates. The video quality can be adjusted manually or automatically to match the cell phone link to send the best quality video over a limited data rate link to the user. Importantly, the video does not have motion or compression artifacts. OWL sends imagery to a Coordination Server for distribution to users. Battery power permits use in remote applications.

Live Video of Targets of Interest – Radar Triggers Imagery on Specific Targets

McQ OWL™ Intelligent Camera is a Micro Radar triggered day and night camera for surveillance applications. OWL is an "all in one" capability to monitor activity in a wide variety of situations. OWL uses a radar that only detects moving targets while rejecting clutter from non targets. The radar triggers the camera and initiates sending images or video to the user over a cellular network via a private Cloud user interface. The imagery is compressed with advanced technology to provide excellent quality while using data rates that fit into affordable cellular provider data packages. A low light camera provides both daylight and non visible flash illuminated night time imagery in a cost effective battery powered unit for remote monitoring requirements.

- Provides Pictures or Live Compressed Video to Multiple Distributed Users
- Good Quality Video Using Compression Over Low Data Rate Links
- Compression Rates can be Changed on the Fly Without Video Interruption
- Operates on 3G or 4G LTE Cell Phone Networks
- Micro Radar Triggers on People up to 50 Meters, Vehicles over 100 Meters
- Non Visible IR Flash Images Targets Out to 45 Meters at Night
- 2 Mpixel Color Camera Provides 1080P Video or High Resolution Pictures
- Cloud Based User Interface Provides System Control
- Cloud Server Provides Protected Data Storage for Replay and Distribution
- Video and Associated Data is Encrypted for Information Assurance
- The OWL Cell Software Selection Sends Picture and Video to a Server That the User can Access with a Browser from Their Display Platform
- The OWL IOT Software Selection Connects the OWL to an IP User Display
- The OWL CDIF Software Selection Connects the OWL Over 900 MHz
- Battery Power and Solar Charging Provides Flexible Remote Area Usage.

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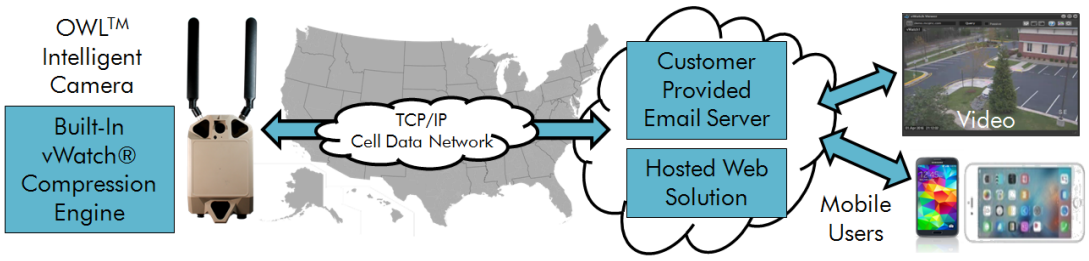
Features and Specifications

McQ OWL™ PERFORMANCE

OWL will provide video at channel bit rates as low as 20 kbps for very low bandwidth wireless links and at much higher data rates for wireless RF modems, 3G and 4G cell phone modems, WiFi, and for IP digital radios. The video is sent in an advanced compression protocol to a Coordination Server. Special video viewer software on a user or Cloud Coordination Server stores the video for supporting live display applications, and providing DVR playback capabilities. The user applications can be on cell phones, tablets, or PCs. This architecture permits many users to have access to the video without broadcasting the video over separate cell phone links. The OWL is designed for rugged outdoor applications operating on a battery.

The OWL combines many advanced technology features to provide the user with one unit that can provide intelligent surveillance capabilities. One of these is a Micro Radar that has been designed to detect specific targets such as people, game animals, and vehicles. The radar will detect targets that are in the field of view of the camera. The radar tracks and classifies targets. Importantly, advanced radar algorithms virtually eliminate nuisance alarms. The camera is an advanced low light sensitive camera that matches the FOV of the radar to provide color daytime or black and white nighttime video. The operator can also request high resolution single pictures even when the video is streaming. Dynamic video technology does not interrupt the video stream when changes in data rate are selected or signal strength changes the data throughput. With battery operation, the camera can be deployed anywhere to provide surveillance of areas of interest to the user and provide live video.



Specifications:

- 2 Mpixel Camera/1080P Video – 50°FOV
- 24 GHz Micro Radar with Target Detection Electronics – 50°FOV
- 940 nanometer Near IR Non Visible LED Array – 50°FOV
- Cellular Network: 4G LTE with 3G Fallback; TCP/IP
- Temperature: -25°C to 60°C
- Size: 8 x 5 x 2 Inches; 205x125x100 mm Height/Width/Depth
- Mass: 2.5 lbs; 1.0 kg
- Power: 75 Watts Average per Day @ 9 – 18 Volts DC
- Multiple Battery Options Available Depending on Operating Life-40 Watt Solar Panel Will Power the OWL Indefinitely
- Coordination Server: Provides Single Images, Video Clips, and Streaming Video to the User with a Variety of Common Market Protocols
- IOT IP and CDIF 900 MHz Radio Provide Direct Connection to the User Display

Specifications may change due to product enhancements.
For more information on any of our products or services please visit us on the Web at: www.mcqinc.com

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