

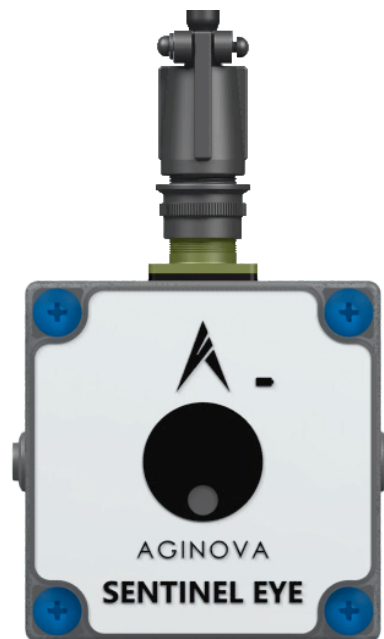
Sentinel EYE

Product Number: **XCAM-6001-0000**

Used for digitizing analog equipment readings for improved monitoring and control capabilities. Remotely monitor sensitive or difficult to access environments.

Specifications

Dimensions (HxWxD)	82.6 x 85.7 x 67.3 mm (3.25" x 3.375" x 2.625")
Weight	646g (22.8 oz) (Outdoor version)
Battery	Integrated 1000mAh Rechargeable Li-Ion
Wi-Fi Protocols	IEEE 802.11b/g/n
Wi-Fi Encryption	WEP, WPA/WPA2, WPA2-Enterprise Personal (PEAPv0/MSCHAPV2, EAP-TTLS)
LTE (Cell Network)	Option available
On Board Data Storage	1mb
Operating Environment	0°C to 40°C on Charger -20°C to 60°C on Battery only; RH 10% to 90%
Certifications	FCC, CE, Outdoor IP65
Ports Used	443(tcp) for Communication 123 (udp) for Time server (Default: pool.ntp.org)
Protocol to Cloud	Sensor communication MQTTS (MQTT over TLS) OTAP and Debugging HTTPS
Battery Life	Up to 1 month @ 15 min connection rate
Camera Chip	OmniVision OV2640 2MP
Sensor configuration	In Direct Mode: Via the App (streaming) In Remote Mode: Via Cloud
Cloud Images storage	1 week
Streaming tool	Via the App, in direct mode only. Resolution: 640x480 pixels
Connection rate	1 min to 12 hours
Capture on Demand	Yes (wait time directly related to the set connection rate) Resolution: 1280x1024 pixels
Periodic capture	1 min to 12 hours
Option	Door contact to trigger image capture



Cloud Provider Google

Sensor Communication WiFi Infrastructure

Protocol MQTTS (secure connection for devices and sensors) ; HTTPS (Debugging and OTAP)

IDS/IPS : Intrusion detection

<https://cloud.google.com/intrusion-detection-system>

WAF: Cloud Armor <https://cloud.google.com/armor/>

Vulnerability Test:

<https://cloud.google.com/security-command-center>

TLS Version: 1.2

Data: meets 21 CFR Part 11

Cloud Features Metrics and dashboards allowing visibility into the performance of your services with alerting. Health check monitoring for web applications and applications that can be accessed from the internet with uptime monitoring. Support for logs and logs routing with error reporting and alerting.

Audit logs for visibility into security-related events in your Google Cloud account.

Production debugging and profiling.

Aegis Application User Management System

Sensor Management System

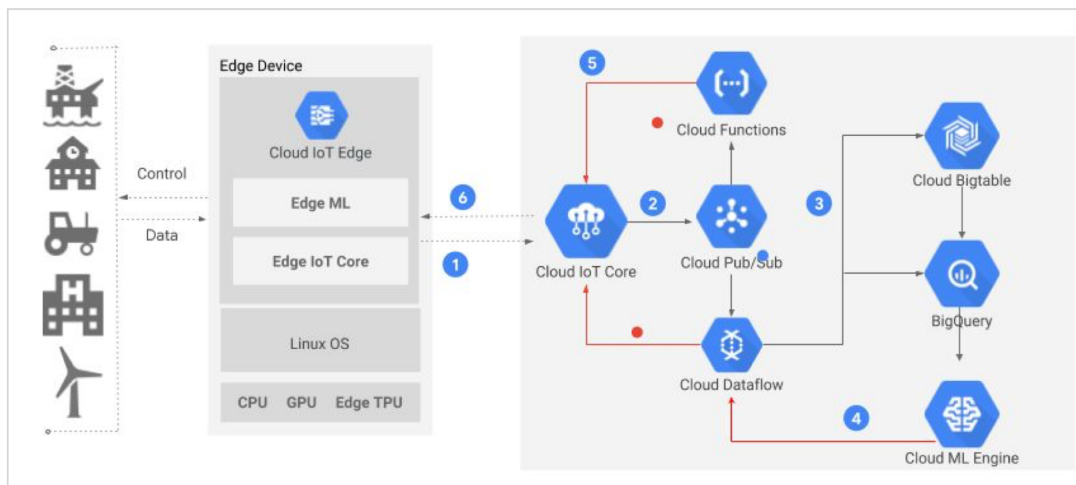
Sensor Data Storage and Reporting

Sensor Health Monitoring

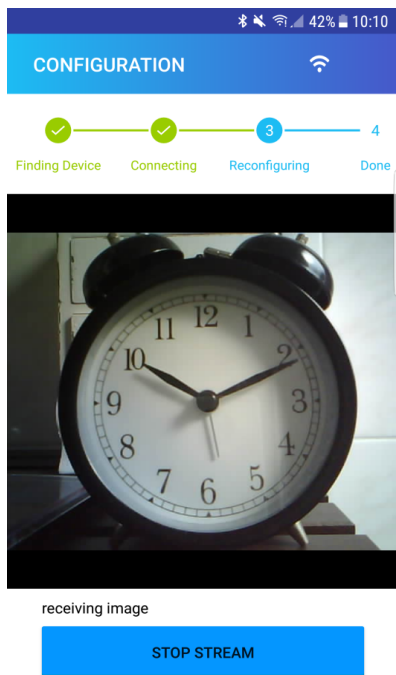
Aggregate Reports for Anomaly Detection

Architecture

Google IoT Core



Direct Mode (Used for Sensor Configuration)



Remote mode (Used for Monitoring)

