



APPLIED® INFORMATION

Glance® Flood Detection and Warning System

OVERVIEW

The Glance Flood Detection and Warning System offers a robust solution for real-time flood detection and alerts. Central to the system is the AI-500-052 Remote Network Unit, paired with a camera and sensor for real-time assessment. Additionally, the AI-500-030 Low Power Monitoring device is integrated into warning flasher beacons. The autonomous system monitors water levels with two custom threshold triggers. The first immediately informs authorities when rising water is detected, sending a snapshot of the area for visual verification. The second remotely activates the flasher beacons, upstream and downstream, providing advanced warnings to motorists allowing them time to slow down and drive with caution, or find an alternative route during flood scenarios.

The Applied Information cloud-based platform, Glance, offers advanced monitoring capabilities, continuous water level tracking, comprehensive data management, and insightful reporting features. The integrated camera with live video streaming capability captures regular snapshots of the area for real-time assessment. Furthermore, Glance monitors the health, status, power levels, and connectivity of the entire system 24/7, ensuring reliability and peace of mind. Alert notifications are sent immediately via text or email when water levels rise, as well as potential issues identified with the in-field hardware. Applied Information's flood warning solution keeps ahead of the flood, prioritizing road safety by ensuring timely warnings. This technology gives motorists time to respond to advanced warnings and keeps agencies informed and connected when it matters most.

FEATURES AND BENEFITS

- ✓ Real-time flood detection
- ✓ Automated remote flasher activation
- ✓ Video and snapshot verification of flooded areas
- ✓ Advanced monitoring via the Glance platform
- ✓ 24/7 system monitoring
- ✓ Monitor water table level
- ✓ Connects up to 4 automated flashers beacons
- ✓ Two custom water level threshold alerts
- ✓ Future-proof with “over-the-air” software updates
- ✓ Email and text alerts for rising water levels
- ✓ Ultrasonic level sensor

HARDWARE SPECIFICATION

Glance Flood Detection and Warning System		
Connectivity	**AI-500-052**	**AI-500-030**
Cellular Modem	Yes (4G CAT4)	Yes (CAT M)
RS-232 Port	Yes	Yes
RS-485 Port	Yes	No
Ethernet Ports	5	No
Knockdown Sensor	No	Yes
GPS	Yes	Yes
OTA Software Updates	Yes	Yes
Industrial I/O		
Digital Outputs	1	2
Digital Inputs	4	4
Analog Inputs	4	4
Internal Temperature Sensor	Yes	No
4–20 mA Inputs	No	2
Power		
Input Voltage	10–30 V DC	10–30 V DC
Power Consumption (Avg.)	3 W	0.5 W
Miscellaneous		
Video Streaming	On Demand	No
Non-Volatile Memory	Yes	Yes
Flask Disk	Yes	N/A
Schedule Control	Yes	N/A
Dimensions	5" × 3" × 2.5"	1" × 2.4" × 4.5"
VPN/Pass-Through Communication	Yes	N/A
High Speed Modem	Yes	N/A
Humidity	5–95% non-condensing	
Operating Temperature	-37ºC to 74ºC	
Accessories		
Camera*	BL 950 Bullet Camera	
Sensor*	Atek Ultrasonic Level Sensor	
Solar	Morning Star Sunsaver Controller (Optional)	

*Consult TKH BL950 data sheet for further information on the camera and Atek ULS data sheet for information on the sensor

WORKS WITH glance™



Atek Ultrasonic Sensor



AI-500-052 RNU



AI-500-030 LPM


TKH BL950 Bullet Camera

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