



GRIDSMART is based on three core principles:

SIMPLE, FLEXIBLE, TRANSPARENT.

World's only single camera solution capable of actuating intersections and gathering important traffic data to adjust signal timing and traffic flow strategies.

GRIDSMART enables real-time remote monitoring, control, and visual assessment.

TRACKING VS DETECTION

TRACKING

OBJECTS OF INTEREST ARE IDENTIFIED AND TRACKED AS THEY PASS THROUGH THE CAMERA'S FIELD OF VIEW

- MORE RESILIENT TO ENVIRONMENTAL CHANGES – SUN GLARE, SHADOWS, WEATHER, ETC.
- REDUCES FALSE CALLS DUE TO CAMERA MOTION
- ENABLES TURNING MOVEMENT COUNTING, CLASSIFICATION, SPEED, ETC.
- PROVIDES USER-DEFINED ACTIONS BASED ON ZONE INTERACTIONS

DETECTION

IDENTIFIES CHANGES THAT OCCUR IN THE SENSOR'S (LOOP, VIDEO, RADAR, ETC.) DETECTION PARAMETER

- MORE SUSCEPTIBLE TO FALSE CALLS FROM ENVIRONMENTAL CHANGES
- RELIANT ON A MOSTLY STATIC SCENE BETWEEN IMAGES
- REQUIRES SPECIFIC CALIBRATION AND ADJUSTMENTS

3

SMARTMOUNT
WITH THE
ICONIC
BELL CAMERA



GS₂ PROCESSOR



GRIDS MART
CLIENT

THE GRIDS MART SYSTEM

4



GRIDSMART PROCESSOR



- PROCESSES GRIDSMART SENSOR IMAGES
- MODULAR INTERFACE FOR TS1, TS2, 2070, AND ITS
- 4 USB PORTS
 - SOFTWARE UPDATES
 - DATA COLLECTION
 - EXTERNAL MONITOR
- LED INDICATIONS: SYSTEM STATUS, PHASES, AND DETECTION
- NEMA CERTIFIED

GRIDSMART ICONIC BELL CAMERA



- 5-10 FRAMES PER SECOND
- IP68 ALUMINUM HOUSING
- HD CMOS CAMERA
- ALWAYS IN FOCUS
- 360° WIDE ANGLE LENS
- POWER OVER ETHERNET
- SEE ENTIRE INTERSECTION
- TRACK VEHICLES, PEDESTRIAN, AND BICYCLES

GRIDSART CLIENT



DATA MODULES

GRIDSART MODULES

Performance Performance Plus

FEATURE

Client Reports

Standard Reports

Volume	X	X
Turning Movements	X	X
Vehicle Classification	X	X
Incident	X	X
Raw Export	X	X
Performance Reports		
Seven Day Volume	X	X
Green Occupancy	X	X
Red Occupancy	X	X
Percent Arrivals on Green	X	X
Percent Arrivals on Red	X	X
Speed	X	X

Key

- * Requires WAN Connectivity
- ** Alerts are delivered via email upon occurrence. (Events shown in GRIDSART.cloud are updated once daily, not upon occurrence)
- + Requires External Antenna or WAN Connectivity
- ^ Requires GS₂

DATA MODULES

FEATURE	GRIDS MART MODULES	
	Performance	Performance Plus
Auto Reports	X*	X+
GRIDS MART.cloud Reports	X*	X+
Alerts **		
All Systems Events	X*	X+
Loss of Visibility		X+
Volume Exceeded		X+
Loss of Greens (Flash)		X+
Zone Activated		X+
H.264 Streams		X*^
Minute by Minute Display	X*	X*
Vulnerable Road Users		
Pedestrian Crosswalk Detection		X^
Bicycle Clearance Extension		X^
Key	* Requires WAN Connectivity ** Alerts are delivered via email upon occurrence. (Events shown in GRIDS MART.cloud are updated once daily, not upon occurrence) + Requires External Antenna or WAN Connectivity ^ Requires GS ₂	