

FLIR VIP 3D.x

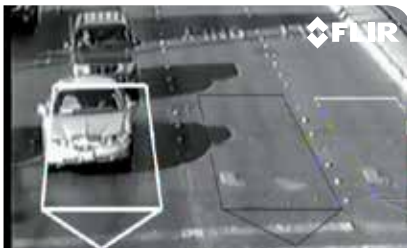
Vehicle Presence Boards



VIP3D.x s is a video detection solution that provides vehicle presence information to the intersection controller. VIP3D.x s integrates vehicle presence detection and traffic data collection in one module and provides a cost effective and powerful solution for intersection control. As a single slot module, VIP3D.x s plugs into all standard cabinet racks. The VIP3D.x s module interfaces directly to the controller via cable connected outputs.

VIP3D.X s can also interface with a TS2 controller using SDLC (via BIU and FLIR's VIEWCOM/E s). Any zone can be assigned to any of the 64 available TS2 detection channels. Configuration of VIP3D.x s is straightforward, a PC is not required. The technician connects a video monitor for a user-friendly setup with visualization of zone positioning and detection.

Zones for stop bar or advance presence detection can be combined logically to the failsafe outputs. VIP3D.x s provides all relevant traffic data and distinguishes between 5 levels of service for flow monitoring. VIP3D.x s emulates traditional double or single loop detectors.



VIP3D.X distinguishes between 5 levels of service for flow monitoring



Vehicle presence detection at intersections

KEY FUNCTIONS

- STOP BAR AND ADVANCE VEHICLE PRESENCE DETECTION FOR INTERSECTION CONTROL
- UP TO 24 PRESENCE DETECTION ZONES AND 8 DATA COLLECTION ZONES FOR VIP3D.1 S (UP TO 20 PRESENCE ZONES AND 4 DATA ZONES PER CAMERA FOR VIP3D.2 S)
- PRESENCE CALL DELAY AND/OR EXTENSION
- FAIL-SAFE OUTPUTS
- UP TO 24 CABLE-CONNECTED OUTPUTS AND 20 INPUTS VIA I/O EXPANSION MODULES
- TRAFFIC DATA COLLECTION (COUNT, SPEED, CLASSIFICATION, OCCUPANCY, DENSITY, HEADWAY, GAP TIME)

KEY BENEFITS

- SINGLE SLOT DIRECT PLUG-IN MODULE, DUAL OR SINGLE VIDEO INPUT, RACK SPACE SAVING BOARD
- INTERFACES ALSO WITH TS2 SDLC VIA BIU
- FIELD-PROVEN PERFORMANCE, PRESENCE DETECTION AND DATA COLLECTION
- EASY TO INSTALL, USER-FRIENDLY SETUP, HIGH MEAN TIME BETWEEN FAILURES (MTBF) AND LOW MEAN TIME TO REPAIR (MTTR)

Imaging Specifications

System Overview	VIP-3D
Size	4.5 in H x 1.1 in W x 7.0 in L (114 mm x 28 mm x 178 mm)
Power	
Power	10.8v to 26.5 VDC
Consumption, current	200 mA @24 V for VIP3D.2 s 160 mA @ 24 V for VIP3D.1 s
Video	
Video in	75Ω 1Vpp, PAL or NTSC
Video out	via BNC connector - front
Outputs / Inputs	
Outputs	4 outputs (open collector, selectable active low or high) Up to 24 outputs/20 inputs via expansion modules
Communication	
Serial port	front for setup
RJ11 connector	front to the expansion modules
Double row 22 pins EDGE (NEMA TS2-1992) connector	back
Push button	front for reset/recall
Indicators	
LED	for connection to I/O Expansion modules
Power LED	Video in LED
LED	for the communication status / for the outputs status
Environmental	
Operating temperature	-34°C to +74°C
Relative humidity	0 to 95% relative humidity - non-condensing



The VIP-3D.1 monitors one camera and provides up to 24 presence detection zones.

The VIP-3D.2 monitors two cameras and provides up to 20 presence detection zones.

SYSTEM ARCHITECTURE

In a typical installation, the VIP3D.x s detector modules (single or dual video input) are plugged into a standard cabinet rack. A VIP 2I/O s or 4I/O s expansion module may provide extra inputs and outputs to the detector. VIP3D.x s interfaces directly to the traffic controller via cable-connected outputs.

FEATURES

- SDLC TO PIM MODULE
- RYG INFORMATION ON DISPLAY
- GREEN INPUTS

PRESENCE DETECTION

- Stop bar or advance detection on up to 24 presence zones (up to 20 zones per camera for VIP3D.2 s)
- Zones configurable with delay and extend time
- Up to 24 fail-safe detector outputs
- Up to 20 inputs
- Combination of outputs and inputs with Boolean logic
- Queue length measurement
- Configuration scheduling

DATA COLLECTION

- Count, speed, classification, occupancy, density, headway and gap time
- Up to 8 data collection zones (up to 4 zones per camera for VIP3D.2 s)
- Traffic flow monitoring

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