Western Systems

CURRUX VISION

AI-BASED DETECTION AND ACTUATION SYSTEM

MADE IN USA

Fully Integrated AI Hardware / Software Solution for Vehicle, Pedestrian and Bicyclist Detection and Controller Actuation

Currux Vision's Video Detection and Controller Actuation System works with existing or new video cameras (both IP and Analog) to detect vehicles, pedestrians and bicyclists on roads, bike lanes and crosswalks and to actuate traffic controllers, RSUs and flashing beacons using NTCIP, SDLC and I/O contact closures via 5 built in relays.

Key Advantages:

- Works with existing cameras IP or Analog, and new fisheye cameras
- Significantly more accurate than legacy video detection and radar systems (shadows, glare, rain, snow, fog, low light, pole movement)
- Best in class PED and BIKE detection
- 95%+ vehicle counting accuracy
- Ability to detect and actuate based on vehicle class (eg., only Buses or only Heavy Trucks, or Trains)
- Passive PED and BIKE detection and actuation, including for overhead lights and beacons
- Powerful, reliable, hardened and small factor NEMA TS2 servers that are made in USA by Currux Vision
- Very small footprint in the cabinet (6.8"x6.0"x3.5" inches)
- Easy to install and operate
- Nationwide customer support and system integration infrastructure via local distributors

Designed Specifically for ITS Applications and Built in America AI GPU Hardware Platform

NEMA TS2 compliant hardware platform is built in Houston, Texas by Currux Vision. IP addressable, hardened edge-based system that doesn't require cloud access to operate. Built in analog camera digital encoder, SDLC connector and 5 I/O relays.

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Server Technical Specifications

AI-Vision GPU Server	
GPU	NVIDIA 512-Core Volta GPU with Tensor Cores
CPU	8-Core ARM v8.2 64-Bit CPU, 8 MB L2 + 4 MB L3
Memory	32 GB 256-Bit LPDDR4x Memory / 137 GB/s
Storage	32 GB eMMC 5.1

Interfaces	
Ethernet	2 Ethernet (1GB/100 Base-T) RJ-45 Connector
HDMI	1920x1080 to Video Monitor for setup
Optional SDLC, BNC and I/O Relay	SDLC DB15 Connector; 4 BNC Analog Camera Inputs; 5 I/O Relays (NO/NC)

Specifications	
Temperature	-34* Celsius to + 74* Celsius
Power	12 VDC - 10W/30W
Dimensions	6.75”(W)x6.0”(L)x3.5”(H)

Approvals	
FC	This device complies with part 15 of the FCC Rules
c UL us	UL listed Product Logo for Jetson AGX Vavier Developer Kit, model name P2972
c UL us	UL Recognized Component Logo for Embedded System Module, model number P2888 for Jetson AGX Xavier
Industry Canada (IC) CAN ICES-3(B)/NB<-2(B)	This device complies with Industry Canada license-exempt RSS standart(s)
CE	This device bears the CE mark accordance with following directives: • Electromagnetic Compatibility Directive 2014/30/EU • Low Voltage Directive 2014/35/EU • RoHS Directive 2011/65/EU

Network	
Ethernet	RJ-45 (10/100Base-T)
Protocols	IPv4, HTTP, RTSP/RTP/RTCP, TCP/UDP, 802&1x
Interoperability	ONVIF, CGI
Streaming Method	Unicast
Max. User Acess	10 Users
Edge Storage	Local PC for setup Mirco SD cards
Web Viewer	<Edge, Chrome, Mozilla
Web Language	English