Keep an EYE on Overflows and Contamination



Get customized, and comprehensive monitoring of overflows and contaminants with an integrated End-to-End Camera to ERP system that leverages existing on-truck camera technology.

Al technology leverages on-truck cameras to identify contamination at the point of pick up. This data helps waste and recycling operations educate customers and the community and recover overflow and contamination costs by accurately generating fees from captured evidence.



Driving Safety Forward™



ISAM3

NVIDIA Jetson Xavier NX AI Box | Supports 4 AHD Cameras and 4 PoE Ports

Features

- Dual-fan in-vehicle Al box
- 6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6MB L2 + 4MB L3 processor
- NVIDIA Volta[™] architecture with 384 NVIDIA CUDA[®] cores
- Onboard 8 GB 128-bit LPDDR4x @ 1600 MHz 51.2GB/s
- Supports 4 AHD cameras and 4 video looping outputs
- Supports Ethernet x 6 ports (PoE x 4, 1GbE x 2)
- Supports 1 DP display output
- Supports GPS and WiFi network
- EN50155, SAE-J1455, ISTA, FCC, ICES certified & RoHS compliant



System		Interface	
CPU	6-core NVIDIA Carmel ARM®v8.264-bit CPU 6MB L2 + 4MB L3 processor		1GbE LAN (RJ45) x 2 RS232 x 1 DP x 1 (1920x1080 resolution) SD card slot x1 (SDXC 256GB tested) USB Micro-B OTG x 1 (for OS upgrade) USB3.0 x 1 (lockable connector) USB2.0 x 1 (lockable connector) Audio out x 1 (3.5mm stereo phone jack) LED indicator x 4 (PWR, IGN, SD, LAN)
GPU	NVIDIA Volta™ architecture with 384 NVIDIA CUDA® cores (21 TOPS [INT8])	Front I/O Panel	
Memory	Onboard 8 GB 128-bit LPDDR4x @ 1600 MHz 51.2GB/s		
Storage	16GB eMMC 5.1		
Video			
Format	AHD		GPS antenna port x 1 WiFi antenna port x 2 Video input x 4 (Microfit 2x3) Video loopback x 4 (Microfit 2x3) Power port x 1 (Microfit 2x2) GPS port x 1 (Microfit 2x2) Alarm output port x 1 (Microfit 2x5) Alarm input port x 2 (Microfit 2x6) USB2.0 x 1 (lockable connector) PoE port x 4 (RJ45)
Video Input	2MP AHD camera x 4 (Microfit 2x3; 500mA, 12.9V per port)		
Video Loop-out	Video looping output x 4 (Microfit 2x3)	Rear I/O Panel	
Display	ay		
Display Output	DP x 1 (1920x1080)		
Audio			
Audio Input	N/A		
Audio Output	3.5mm stereo phone-jack x 1		
Storage		Software	
SD Card	Up to 512GB (SDHC)	AI Software	Customer's AI software
Network		General	
Ethernet	1GbE port x 2, 1Gb PoE port x 4	Power Supply	DC 9 – 36V; 60W (with ignition pin) Delay power-on/off by MCU
Wireless Network	WiFi (802.11ac)	Dimensions	190 x 61 x 216.4mm / 7.5" x 2.4" x 8.5" (without bracket)
GPS / G-sensor	GPS module; LSM6DSL provides 3D accelerometer and 3D Gyroscope	(W x H x D) Gross Weight	220 x 61 x 216.4mm / 8.7" x 2.4" x 8.5" (with bracket) 1930g / 4.25lb
Alarm		Operating Temp.	-40°F ~140°F (-40°C ~+60°C)
Alarm Input	12 (2 banks of Microfit 2x6)	Storage Temp.	-40°F~185°F (-40°C~+85°C)
Alarm Output	8 (1 bank of Microfit 2x5)	Storage Humidity	95% @ 55 °C (non-condensing)
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Vibration/Shock MIL-STD-810G Certification EN50155, SAE-J1455, ISTA, FCC, ICES, RoHS

Information is subject to change at any time without notice.

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