ADR-3500
Traffic Counter / Classifier

Traffic Data Collection, Monitoring, Analysis & Reporting

The Oriux ADR-3500 is a high-performance, modular, expandable traffic counter and classifier. Designed with long-term site installations in mind, the ADR-3500 offers optional modules, enabling a count of up to 64 traffic lanes, or classifying up to 32 lanes, including up to 24 weigh-in-motion (WIM) sensor inputs.

The ADR-3500 can run up to three studies at once, and generate per-vehicle records, with up to 2640 bins of data – per speed, lane, volume, etc.

The ADR-3500 features front panel mounted LEDs that indicate the successful device start up, detect/fault status and communications activity. The ADR-3500 brings enhanced site diagnostics, with information that includes loop, piezo and power condition, available on the front panel and remotely via Oriux VIPER software.

Set the type and format of study data to be collected – either through custom programming, or menu choices using the LCD panel interface. Collect per-vehicle records, per-lane data, vehicle classification by axle, speed, length, gap, or headway, or almost any combination of these. Vehicles can be classified according to either the standard Scheme "F" or a user-defined classification scheme.

The ADR-3500 is compatible with VIPER, the Oriux data processing and polling software that can automate data collection and processing.

Features & Benefits

- Simple to set up and operate
- Multilane study operations capability
- 8Mbit SRAM memory, internal 4GB SD card, and serial flash – 64Mbits for data storage, 2Mbits for unit information/configuration.
- Integrated control panel with backlit LCD and keypad
- Up to 64 inputs for a variety of sensors – optional modules for loops, piezo, WIM, LiDAR, radar, video, etc.
- Outputs can support services like virtual WIM, or systems such as license plate recognition (LPR), speed enforcement, variable message signs (VMS), etc.
- Enhanced status LEDs, with site loop and piezo (weight) status (data also provided to Oriux's Viper program).
- Scheme "F" or user-defined classification scheme
- Ethernet, WiFi, USB and Bluetooth communications
- U.S. standard or metric units selectable
- Solar power options, battery "sentinel"
- Auto daylight savings timer

The evolution of **PEEK**

Specifications

Dimensions	5.25"H x (10" or 19") W x 9.35"D (135mm x (255/480)mm x 240mm) 162mm x 242mm x 332mm)
Weight	Less than 15 pounds (6.8 kg)
Temperature	-40°F to +176°F (-40°C to +80°C)
Display	Backlit, 40 characters by 8-line LCD
Inputs	Sensor inputs of various types allowed, optionally up to 64
Counter rate	Handles 200 counts/second, per input
Intervals	1, 2, 5, 6, 10, 15, 30 and 60 minutes, real time events. Four daily peak periods available.
Microprocessor	STM32F469BI

Capacity	Approximately 3,280 days of volume data
Memory Storage Available	8Mbit SRAM. Internal 4GB SD Card. Serial flash 64Mbits for data storage.
Communications	2-port 10/100 Ethernet switch. USB 2.0 "Host" port for flash drive. USB 2.0 "Device" port and RS-232 port for PC communications.
Options	Up to 8 sensor input modules or 64 individual inputs, depending on configuration, can combine loop, piezo, WIM , LiDAR, radar, video or contact closure inputs. WiFi and Bluetooth communication.
Power	110VAC/220VAC,12VDC and solar power

Hardware Features and Options

The Oriux ADR-3500 is a rack-based unit, shelf-mounted, and expandable with optional plug-in modules. Available to fit standard EIA 19" or Type 170 enclosures.

Plug-in modules include power supply, CPU, communications, control panel, and optional loop sensors, piezo sensors, weigh-in-motion sensors, contact closure inputs, analog to digital inputs, usable in combinations depending on the application. Internally installed 4GB SD Card is standard.

Plug in modules are standard NEMA/CALTRANS dimensions with DIN standard connectors.

Electrical connections (external) are via rear-mounted connector. Communications are via Ethernet ports, USB ports, and optional WiFi or Bluetooth.

An internally supported hardware real time clock maintains time and date, regardless of unit power, for up to ten years.

Oriux ADR Line With its vast array of advanced traffic recorder (ADR) equipment and software, Oriux is an industry leader in data collection – over 40 years of product innovation and experience in the field.

The Oriux ADR line-up includes ADR-3500, Sabre, ADR-WIM, Pulsar, StreetLink, sensors, cabinets, accessories, and data collection programs – VIPER and VIPER Essentials.

If it's about traffic, Oriux has all you need.

Oriux covers a broad range of quality turnkey traffic control products, and data recording products and services. Committed to employing advanced technology to bring innovation in the mobility sector, we create a new global strength. Our human talents maintain quality through continual improvements in order to provide our customers with the best solutions for their needs. Oriux products have helped to make motorists around the world safer and their travels more pleasant and efficient. This expertise, experience, and breadth of product lines has made Oriux one of the most respected and recognized leaders in the traffic control marketplace. ©2024 Oriux.