



DANLAW PICOLOGGER
DL910
USER MANUAL

Revision: Draft
Revision date: 22 May 2018

1.1 Product Overview

Danlaw PicoLogger – Vehicle PicoLogger with Bluetooth

Danlaw's PicoLogger was developed to provide companies with an easy to install, wireless communication device for monitoring and logging vehicle network message data. The need for the PicoLogger was driven by Danlaw's own experience with Networked Automotive Electronics solution development, and perfected to provide our customers with the benefits of our experience.

The Danlaw PicoLogger provides:

- Support for all major passenger car & light truck protocols
- Simple plug-n-go via the vehicle's OBDII connector
- OBD Vehicle Data logging with real-time data stamp
- Rugged, compact field-hardened design
- No external antenna connections needed
- Completely self-contained

Danlaw PicoLogger - Advantage

DL910 Features:

- **High Speed Data Upload** – PicoLogger has been demonstrated to significantly reduce the Data Upload time as compared to the speed of other wired and wireless OBDII interface solutions.
- **Stand Alone Simplicity** – Easy plug in and even easier to use. No external connections needed. Eliminates the need for costly power adapters, antenna connections and knowledgeable resources to install the module.
- **Portability** – The PicoLogger has been designed to maximize in-the-field efficiency, light weight, robust, and compact design.
- **Low Cost Solution** – Low data transmission cost due to optimized data transmission, cost effective hardware – no maintenance and no batteries.
- **Rugged Design** – (-40C to +85C), it's field ready.
- **Flexible** – Supports all major OEMs including: GM, Ford, DCX, Honda, Toyota, Nissan, BMW, Audi, Volvo and more.

1.2 Product Specifications

Danlaw PicoLogger - Specifications

OPERATING VOLTAGE: 9 V DC to 24 V DC (Surge up to 32V)

POWER CONSUMPTION: < 100 mA @ 12VDC (Data Upload) < 3 mA Average (during Sleep mode)

TEMPERATURE RANGE: -40 °C to +85 °C (operating)

HUMIDITY: 90% RH – non-condensing

CERTIFICATIONS: RoHS Compliant

VEHICLE COMMUNICATION:

Vehicle Protocol Support: GMLAN, FNOS, ISO-9141-2, SAE J1850 VPW, SAE J1850 PWM, ISO 14230-4, ISO 15765 (11bit CAN & 29bit CAN), SW CAN

Vehicle Message Data: Time Stamped Event and Vehicle Message Bus Data Recording including: (All OEM Supported OBDII Data including: VIN, ODO, Time &Date, Vehicle Speed, module connect/disconnect events)

PHYSICAL DIMENSIONS: Ultra Compact

PACKAGING: Danlaw PicoLogger Enclosure (IP 64 rated)

INSTALLATION TIME: 10 Seconds

NUMBER OF TRIPS: Unlimited

DATA RECORDING INTERVAL: Selectable (1 Hz and up)



FCC ID: 2AD9I-DL910

Model: DL910

IC : 24046-DL910

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2.0 Installation Instructions

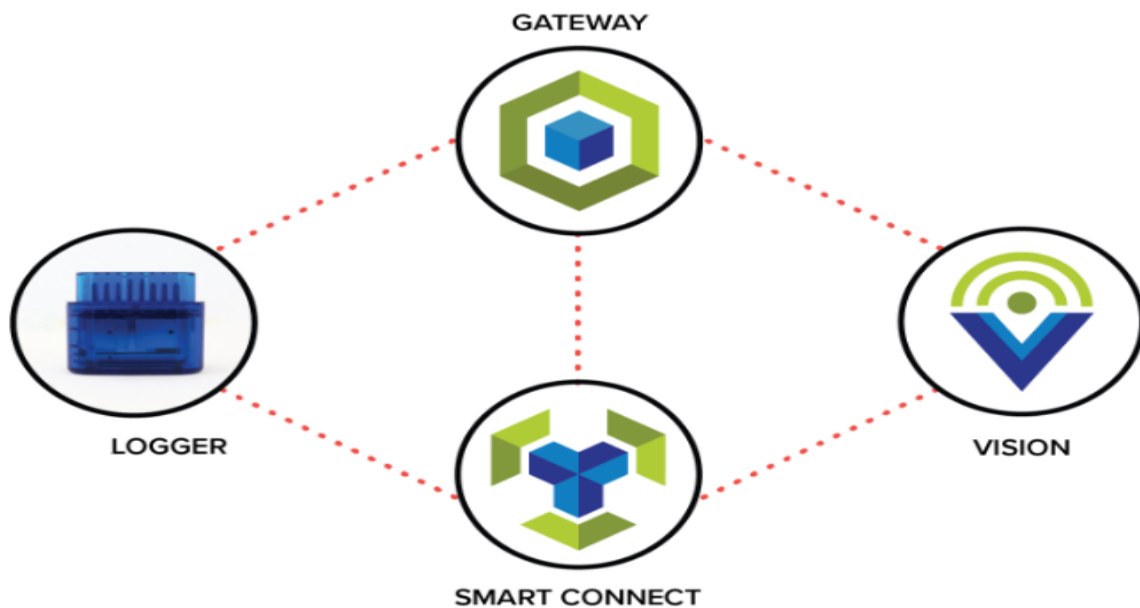
1 , Locate the OBD connector.



If you are not able to locate the OBD connector, please refer to the Vehicle User Manual

2, Install the DL910 device by plugging it into the OBD connector

3, PicoLogger Ecosystem is a technology suite that provides a flexible groundwork for application development. The PicoLogger Ecosystem consists of Danlaw' s award winning PicoLogger, Gateway, Smart Connect, and Vision products. Use our devices, data hosting, and app platform for a complete package that' s easy to build on. Our customizable integration options will have you interacting with your customers in no time.





Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



3.0 Revision History

22 May 2018 – Draft Release