PRAGATHI SOLUTIONS
An ISO 9001:2015 Certified Company

Address: **Novel MSR Park,**
No.18, 2nd Floor, Marathahalli,
Bengaluru, Karnataka 560037

Email: info@pragathisolutions.in
Website: www.pragathisolutions.in

ASLI HERO VCI SCANNER

Vehicle Communication Interface

Diagnostics Scanner
for 2 wheeler ECU'S

- ★ Mobile App based diagnostics
- ★ Compact, Plug & Play
- ★ Powered from Vehicle OBD port, No external power requirements
- ★ Dongle style design
- ★ In-built Bluetooth (Classic / BLE)
- ★ Vrhicle data communication over bluetooth
- ★ Vehicle Communication via L-Line / K – Line / CAN
- ★ Remote Diagnostics
- ★ VCI firmware update OTA based
- ★ VCI Support android operating System

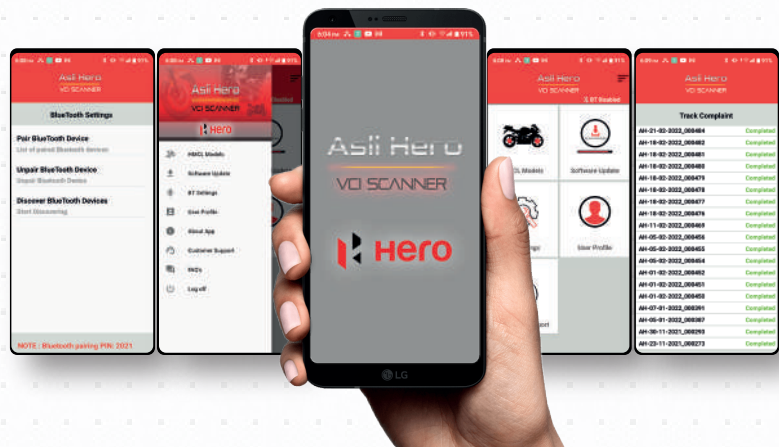## ECU Diagnostics & Flashing Core Features

- Vehicle Details (VIN, ECU, etc)
- Live Real Time Engine Parameters
  - Grouped Parameters
  - User Selectable
- Test Actuator
- EOL Testing
- Read & Erase Diagnostic Trouble Codes (DTCs)
- Environmental Condition, Freeze Frame Data
- Performance Analysis (Graphical)
- Provision to save the DTCs to the user device (Cell phone)
- Update the VCI firmware via App (Android / IOS)
- Upload the data to Server from App (Android / IOS)
- ECU Dataset Flashing using ' VIN ' matrix
- Remote Diagnostics

80mm

60mm

35mm

SPECIFICATION

Size W x H x D - 60 x 80 x 35 mm.
Weight - 95 Gram (Approx)
Body Color - Black & Navy Blue
VCI material : ABS+PC
PC Sync - USB Port (3.0)
LED Indicator with soft touch pad
Version - 12.0.1
Language - English
Product Type - Compact
User Manual

Android Application

Technical Specification

Sl.No.	Input description	Specification
1	Nominal Voltage	12V DC
2	Operating Voltage	8V TO 18V
3	Test voltage	13.5V±0.5V DC
4	Storage temperature	- 40°C to +95° C. Humidity : 95% RH
5	Operating temperature	- 30°C to +85° C. Humidity : 95% RH
6	Standby Current	≤0.1mA
7	Total Current (all features ON)	180 mA
8	Reverse polarity protection	ISO16750-2:2010 CL.4.7. Our Spec 14V for 2 min
9	Over Voltage protection	ISO16750-2:2010 CL.4.3
		Method A : 18V for 5 hours
		Method B : 24V for 1 min
10	Transient protection	ISO 7637 (until pulse-5a)
		(protection with TVS diode)
11	Short circuit protection	Short to ground for 1 min @14.5v
12	EMI/EMC	AIS 004(Part 3), ECE R10 rev 05
13	CAN Protocol	Our VCI supports:
		ISO 11898, ISO 16845, ISO 15765, ISO14229, ISO 9141-2,
		ISO 15031, SAE J1979, SAE J2012-DA
		SAE J1939, ISO 27145-3,4, SAE J2534.
		CAN baud rate = 500 kbps & 250 kbps
14	K-line Protocol	ISO 14230, KWP 2000 (FAST & 5-Baud)
15	IP rating	IP 68
16	Vibration	10G - 15 Hz to 500 Hz, 20 hrs in each direction
17	Shock vibration	20 G (3 shock at 6 directions). Pulse: Sawtooth
18	ESD	Test Standard : ISO 10605(Edition 2.0)(2008-07)
		Contact Discharge : +- 18 kv
		Air Discharge : +- 18 kv
		Polarity : Positive & Negative
19	Insulation resistance	100MΩ or above @ 1000V DC for 1min between body and terminal
20	Batteryless operation	Yes
21	Connectivity requirements	a) BLE 4.2(scalable to 5.0) and GPRS with GPS
		b) BLE 4.2(scalable to 5.0) and LTE with GPS
		c) BLE 4.2(scalable to 5.0)
22	Memory	Internal Memory of 16MB

Feature Requirements

Sl.No.	Features	Details	Remarks from Pragathi Solutions
1	Security Management	Any communication between device and mobile or cloud should be encrypted	Ok
2	Mobile SDK / API	To integrate with existing mobile application	SDK support required
3	Platform APIs /Microservices	To host the APIs / Microservices on Cloud services	Ok
4	Capture Vehicle ECU data	The Device should read all the Vehicle Parameters, DTC error codes and MIL codes	All ECU related data we will support
5	Actuators	Request and response the specific vehicle parameters,DTC error codes and MIL codes	All ECU related data we will support
6	Update Configure values	The Device should interface to update the config values in ECU	Yes
7	Update ECU firmware	Update the ECU firmware software	Online update via Bluetooth
8	Flash ECU	Flash ECU firmware software	Yes