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# 1 Getting Started

iLink400 Full System Single Make Scan tool is the most cost-effective professional multi-system scan tool that delivers OE-level diagnosis for all electronic systems of different car brands.

It does not only include basic functions such as read/erase codes and live data, but also it's capable of advanced functions such as actuation, adaptation and programming. In addition, it lets you to access the most commonly required service features such as Oil service Light Reset, Throttle Body Alignment, Electronic Parking Brake Service, Battery configuration, Steering Angel Sensor Calibration, CBS correct, and much more.

Available applications are AU Ford, BMW&Mini, Chrysler, Citroen, Mercedes, Fiat, PSA, Chrysler, Ford, GM, Honda, Hyundai&Kia, Vauxhall&Opel, Holden, Porsche, Maserati, Mazda, Nissan, Jaguar& Land Rover, VAG, Volvo, Aston Martin, Subaru, Peugeot, Renault, Toyota/Lexus and more. And the functions may vary by year and model.

## 1.1 Tool Descriptions

This section illustrates external features, ports and connectors of the scan tool.



front and side view

**1 LCD Screen** –to display the software.

**2 Function Keys / Shortcut keys** - three keys that correspond with “buttons” on some screens for executing commands or provide quick access to most frequently used applications.

**3 Diagnostic Connector** – to connect to vehicle’s DLC.

**4 OK Key** –to confirm the current operation.

**5 Selection Keys** – to select an option or scroll through a screen of data or text.

**6 ESC Key** – to returns to previous screen.

**7 HELP Key** – provide tips for diagnosis or for the tool itself.

**8 Reset Key** – Press and hold for 5 seconds for emergency reboots.

**9 TF Card Port** – holds the TF memory card for data backup and software update.

**10 USB port** –allow the USB cable to connec the scan tool with computer for software update

## 1.2 Accessory Included

- 1) **Scan tool with Diagnostic Cable**
- 2) **User's Guide** - instruction on tool operations.
- 3) **USB Cable** - provides connection between the scan tool and a computer to upgrade the tool and print data.
- 4) **Memory Card** - Used to store data and to upgrade the scan tool
- 5) **Leather Carrying Pouch** - stores the scan tool and its accessories.
- 6) **Software CD** - contains update client and user manual.

## 1.3 Specifications

**Display:** Backlit, 240\*320 TFT color display

**Working Temperature:** 0 to 60 °C (32 to 140°F)

**Storage Temperature:** -20 to 70°C (-4 to 158°F)

**Power Supply:** 8-18V vehicle power, 12V AC/DC power, 3.3V USB power

**Tool Dimensions:** 194\*117\*47mm (L\*W\*H)

**Gross Weight:** 0.9 Kg

**Protocols:** SAE J1850 (VPW and PWM), ISO 9141-2, ISO 14230-2 (KWP 2000), ISO 15765-4 (CAN)

## 1.4 Preparation &Connections

### 1.4.1 Preparation

- Turn the vehicle ignition to ON position.
- Vehicle battery voltage should be 9~14 volts
- Throttle should be on a closed position.

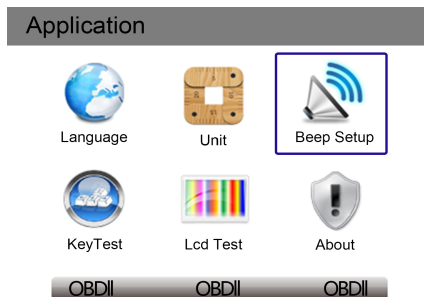
### 1.4.2 Connecting to Vehicle

1. Locate the data link connector (DLC). The DLC is generally a standard 16 -pin connector located 12 inches from the center of the steering wheel, under or around the driver's side.
2. Plug the diagnostic cable into the vehicle DLC socket.
3. The scan tool automatically boots up.

## 1.5 System Setup

The System Setup functions allow you to adjust default settings and view information about the scan tool. Options are :

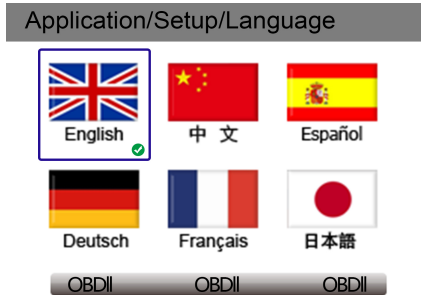
- Language
- Unit
- Beep Set
- Key Test
- LCD Test
- About
- Shortcuts



### 1.5.1 Select Language

English is the default language.

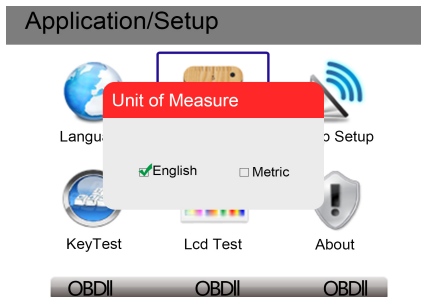
1. Select **Language** from Setup menu and press the **OK key**.
2. Press the **LEFT/RIGHT** arrow key select a language and press the **OK key** to confirm.



### 1.5.2 Unit of Measure.

To change the unit setup:

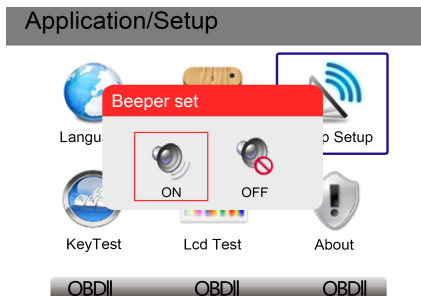
1. Select **Units** from Setup menu and press the **OK key**.
2. Press the **LEFT/RIGHT** arrow key select an item and press the **OK key** to save and return.



### 1.5.3 Beeper set

The default setting is Beep on.

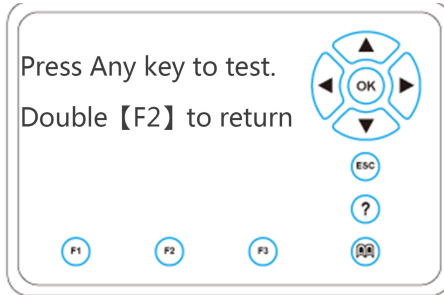
1. Select **Beep Set** from Setup menu and press the **OK key**.
2. Press the **LEFT/RIGHT** arrow key to set the beep on or off and press the **OK key** to save.



### 1.5.4 Key Test

This function checks if the keys are working properly.

1. Select **Key Test** from Setup menu and press the **OK** key.
2. Press any key to start test. The virtue key corresponding with the key you pressed will be highlighted on the screen if it works correctly. Otherwise, the key is not functioning properly.



3. Click the F2 function key twice to exit.

### 1.5.5 LCD Test

LCD test checks if the LCD is working properly.

1. Select **LCD Test** from Setup menu and press the **OK** key to start test. Check if there are any missing spots in the LCD screen.



2. When completed, press the **ECS** key to exit.

### 1.5.6 About

Selecting About option opens a screen that show information about your scan tool, such as serial number and register password which may be required for product registration.



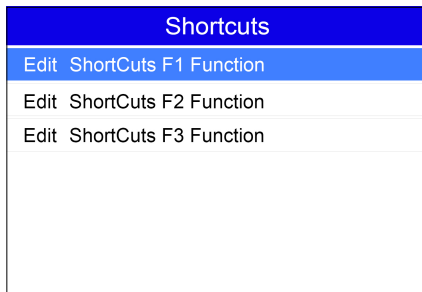
Product Serial Number  
7000315001361  
Register password:0016b3  
Copyright(C)2016 Vident Technology  
Co., Ltd  
All rights reserved

## 1.5.7 Configure Shortcut Keys

Selecting Shortcuts option lets you to change the functionality of the shortcut buttons.

To assign a function to a shortcut button:

1. Select **Shortcuts** from Setup menu and press the **OK key**. A screen with available shortcut keys displays.
2. Press the **UP/DOWN** arrow key select an shortcut key and press the **OK key**.



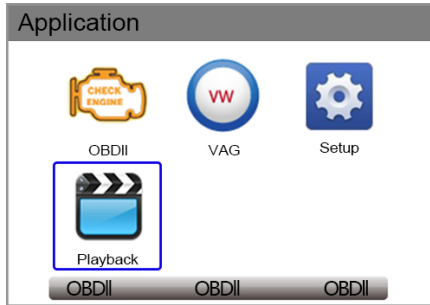
3. Scroll with the **UP/DOWN** arrow keys to highlight an application and press the **OK key** to assign the application to the shortcut key.

## 1.6 Application Overview

When the scan tool boots up, the Home screen opens. This screen shows all applications loaded on the unit.

Taken the **VAG(VW&AUDI&SEAT&SKODA)** multi-system scan tool for example, the following applications are preloaded:

- **OBDDI/EOBD** – OBDII application for all 9 generic OBD system tests.
- **VAG** – leads to screens for diagnostic trouble code information, live data stream, ECU information, active test, special functions, oil service and EPB maintenance applications on Audi, Seat, Skoda and Volkswagen vehicles sold worldwide since 1990.
- **Setup** – tool default resetting and adjustment.
- **Playback** –access saved data files.



## 2 Multi-system Diagnostic Operations

This section illustrates how to use the scan tool to read and clear diagnostic trouble codes, view “live” data, ECU information and perform OE-level coding and programming functions on all the systems of the selected manufacture.

1. Turn the ignition on but do not start the engine.
2. Select the manufacture icon from the main menu displays. Below is an example of the VW software menu:

**Systems** — this option provides quick/all system scan of all controllers available to this specific vehicle.

**Model(Guide Function)** — this options allows you to identify the vehicle under test either by automatic VIN acquisition or manually vehicle model selection.

**Control Unit** — displays all controllers available to this specific vehicle manufacturer.

**Common Special Functions** – shows all the special functions available for the vehicle under test.

**Help Information** —show the helpful information such as repair data, channels info. and common DTC library.

VW
Systems
Models(Guide Function)
Common Special Functions
Help Information

*The following chapters explains the above options one by one.*

### 2.1 Systems

This option provides quick/all system scan of all controllers available to this specific vehicle. This function provide quick system scan and all system scan for your selection to avoide specific vehicle identifacaiton.



Main Groups
CAN Quick Scan(2005-)
Auto Scan(Common)
Auto Scan(All)
Control Unit

### 2.1.1 Can Quick Scan(2005-)

Can Quick Scan performs an automatic system scan for all the electric system on vehicles with CANBUS protocol from year 2005 to now.

1. Select Can Quick Scan from the menu and press Ok to start.

Main Groups
CAN Quick Scan(2005-)
Auto Scan(Common)
Auto Scan(All)
Control Unit

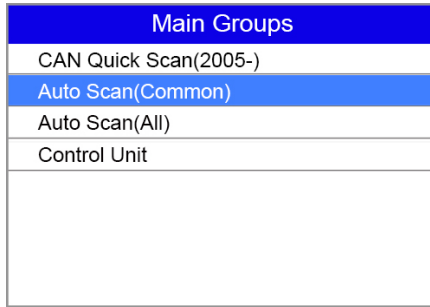
2. When auto scan finishes, a menu with a list of installed controllers together with their DTC overview displays.

CAN Quick Scan	
7%	
01-Engine	Fault   15
0C-Rear Axle Steering 2	Scanning...
<input type="button" value="Quick Frase"/> <input type="button" value="Pause"/> <input type="button" value="Display DTC"/>	

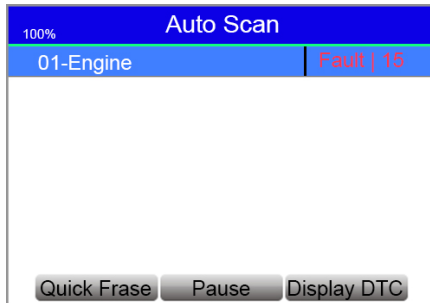
### 2.1.2 Auto Scan(Common/All)

Auto Scan performs an automatic system test to determine which control modules are installed on the vehicle and obtain diagnostic trouble codes (DTCs) overview. You can either selection Auto Scan(Common) to diagnose the most common electric systems or Auto Scan(All) to diagnose all electric systems.

1. Select Auto Scan(Common) or Auto Scan(All) from the menu and press OK to start.

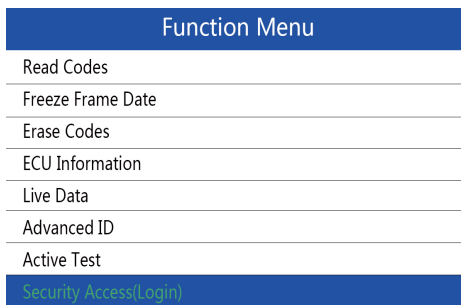


2. When auto scan finishes, a menu with a list of installed controllers together with their DTC overview displays.



3. If there is diagnostic trouble code(s) detected in a control unit, press the function key corresponding with **Display DTC** on the screen to view details of code information, and press the function key **Quick Erase** to clear them.

4. Select the system you would like to test, and press the **OK key**. When the scan tool has established connection with the vehicle, the Function Menu displays.



### 2.1.3 Control Unit

1. Select **Control Unit** from the menu and press the **OK key**. A list of controllers of the vehicle displays.

Main Groups
CAN Quick Scan(2005-)
Auto Scan(Common)
Auto Scan(All)
Control Unit

2. Select the system you would like to test. When the scan tool has established connection with the vehicle, the Function Menu displays.

Common
Engine
Auto Trans
Auto Brakes
Auto HVAC
Cent Elect
Airbags
Steering Wheel
Instruments

## 2.2 Models(Guided Function)

This option allows to test each specific system by identifying the vehicle under test either automatically or manually.

### 2.2.1 Automatic VIN Acquisition

Automatic VIN Acquisition only available on some manufactureres. It allows to identifying a vehicle by automatically requesting the vehicle identification number (VIN).

1. When a vehicle make has been selected, the following screen displays. Select VIN acquisition from the menu, and press the OK key.

VIN Acquisition
VIN CODE automatic acquisition
VIN CODE manual acquisition
Vehicle type manual acquisition

2. The scan tool starts to communicate with the vehicle and read the Vehicle Specification or VIN

Code automatically.

Automatic Selection

The VIN code is 1FAHP2H81EG138476  
Are you sure ?

YES NO

3. Answer **YES** if the Vehicle Specification or VIN code is correct and a menu of controller selection displays. Answer **NO** if it is incorrect, and you are required to enter the correct VIN number manually.

INPUT DATA

LFPM5 ACP591 A76342




VIN

Finish Keyboard Back

### 2.2.3 Manual Vehicle Selection

Manual Vehicle Selection identifies a vehicle by making several selections according to certain VIN characters, such as sub-brand, model year, and engine size.

1. On each screen that appears, select the correct option and then press the **OK** key. Follow the on-screen prompts until the menu of controller selection displays.

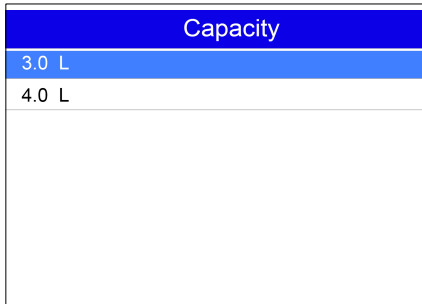
Application/ABS&SRS/USA	Brand
 Chrysler	Ford
 Ford	Lincoln
 GM	Mercury
OBDII	OBDII
OBDII	OBDII
OBDII	OBDII

Model	Main Groups
Aeprostar	Auto Scan
Aspire	Control Unit
B-Max	
Bantam	
Blue Bird C-Class Vision	
Bronco	
C-MAX	
CF/LCF	

### 2.2.4 Save a Tested Vehicle Info.

The scan tool is able to save a tested vehicle by creating a Vehicle Record. It provides quick identification of previously tested vehicle(s).

1. Identify the vehicle by any of the means above, and run an automatic system test by selecting **Auto Scan**.



2. When the test finished, press the function key **Save** on the screen, and a screen with a virtual keyboard displays.



3. Enter a unique name for this vehicle and save it, and you will see this new vehicle in Vehicle Data Recorder menu.

Vehicle record
BMW E34
Fiat bravo (198)



## 2.3 Diagnostic Function

After a system is selected and the scan tool establishes communication with the vehicle, the Function Menu displays. Typically the menu options are

- Read Codes
- Freeze Frame Data
- Erase Codes
- ECU information
- Live Data
- Custom Data
- Active test
- Advance ID
- Basic setting
- Security access (Login)
- Adaptation
- Readiness test

Function Menu	Function Menu
Live Data	
Advanced ID	Freeze Frame Data
Active Test	Erase Codes
Security Access(Login)	ECU Information
Basic Setting	Live Data
Adaptation	Adyanced ID
Long Coding	Active Test
Readiness Test	Security Access(Login)

### 2.3.1 Read Codes

Read Codes menu lets you read trouble codes found in the control unit. Typical menu options include:

- Present/Permanent/Current Codes
- History Codes

Present/Permanent/Current codes stored in a control module are used to help identify the cause of a trouble or troubles with a vehicle. These codes have occurred a specific number of times and indicate a problem that requires repair.

History codes are also referred to as past codes that indicate intermittent DTCs that are not currently active.

1. Select **Read Codes** from Function Menu and press the **OK key**. A code list including code number and its description displays.
2. Use the up and down arrow keys to scroll through data to select lines, and left and right arrow keys to scroll back and forth through different screens of data.

Read Codes	
01314	Engine Control Module - sporadic 01 3-Check DTC Memory
01314	Control Module for Tire Pressure Monitoring(J502) - sporadic 0 0 4 -NO Signal/Communication
Save	

### 2.3.2 Freeze Frame Data

Freeze Frame Data menu displays freeze frame data, a snapshot of critical vehicle operating conditions automatically recorded by the on-board computer at the time of the DTC set. It is a good function to help determine what caused the fault.

Freeze Frame Data	
00256	
Fault Status	01100000
Fault Priority	0
Fault Frequency	1
Mileage	2171 km
Time Indication	0
Date	2003:1422
Save	Back

### 2.3.3 Erase Codes

Erase Codes menu lets you to clear all current and stored DTCs from a selected control module. Also it erases all temporary ECU information, including freeze frame. Erase Codes does not fix the problem that caused the fault! DTCs should only be erased after correcting the condition(s) that caused them.

1. Select **Erase Codes** from Function Menu and press the **OK key**. Follow the on-screen instructions to complete the procedure.

## Erase Codes

DTC and Freeze Data will be lose  
Do you wish to continue?

YES

NO

### 2.3.3 ECU Information

ECU Information screen displays the identification data of the control module under test, such as the control module identification string and the control module coding.

1. Select **ECU Information** from the menu and press the **OK key**.
2. A screen with detailed information of the selected control module displays.

ECU Information	
VAG Number	06G906055S
Component	2.0L85KW0111 03
Soft. Coding	0001015
WSC	000066
IMP	0000
Device	0000000
Save Back	

### 2.3.4 Live Data

Live Data menu lets you view and record real time PID data from a selected vehicle electronic control module.

Menu options typically include:

- Complete Data List
- Custom Data List

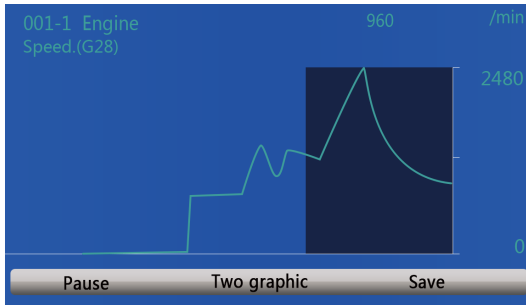
#### 2.3.4.1 Complete Data List

Complete Data List menu lets you view all live PID data from a selected system.

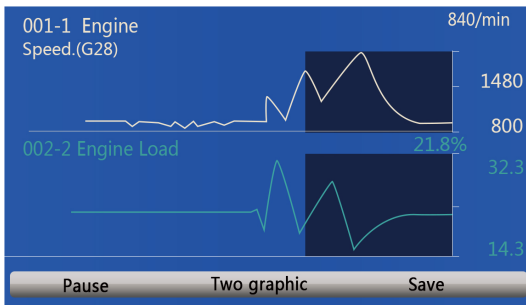
CH NO.1 General		
Engine Speed ( G28 )	0	/min
Coolant Temperature (G62)	63:00	°C
Lambda Control Bank 1	0 0	%
Basic Setting Requirements	0 0 1 1 0 0 1 0	
Pre. CH Next CH Save		



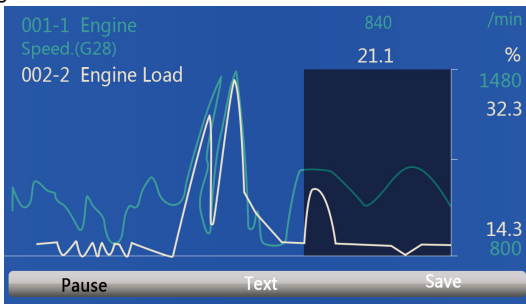
1. Scroll with the up and down arrow keys to highlight a line, if the **One Graphic** on the bottom is highlighted, it indicates graphing is available for the selected line. Press the function key **One Graphic** to display the PID graph.



2. Press the function key **Two Graphics** to display two PID graphs in one screen.



3. Press the function key **Merge Graph** to display two PID plots in one coordinate for easy and intuitive diagnosis.



4. To record the data to memory of the scan tool, use the function key **SAVE**, and press **Stop Saving** to stop recording at any time.
5. Press **Text** to return to text viewing of PID data.
6. Select **Pause** to suspend collecting data from the scan tool and use the **Start** key to resume collecting data.
7. Press the **ECS key** to return to the previous menu.

### 2.3.4.2 Custom Data

Custom Data List menu lets you to minimize the number of PIDs on the data list and focus on any suspicious or symptom-specific data parameters.

1. Select **Custom List** from the menu and press the **OK key**. The custom data stream selection screen displays. Scroll with the up and down arrow keys to highlight a line, press the **OK key** and then repeat the action to make more selections.

Custom List		
<input checked="" type="checkbox"/>	001 -1 Engine Speed(G28)	1
<input type="checkbox"/>	001 -2 Coolant Temperature (G62)	2
<input type="checkbox"/>	001 -3 Lambda Control Bank 1	
<input type="checkbox"/>	001 -4 Basic Setting Requirements	
<input type="checkbox"/>	002 -1 Engine Speed(G28)	
<span>Select All</span> <span>Clear All</span> <span>View Data</span>		

2. When finished selection, use the function key **VIEW DATA** to display selected items.

### 2.3.5 Active Test

Active Tests also known as Actuator Tests are bi-directional diagnostic tests on vehicle systems and component. The tests let you to use the scanner temporarily activate or control a vehicle system or component, and when you exit the test, the system/component returns to normal operation.

Below is an example of the active tests

Selective Active Teste
Turbocharger Bypass valve Control Cicuit
Boost Pressure Control Solenoid valve(N75)
Fuel Injector#1(N30)
Fuel Injector#2(N31)
Fuel Injector#3(N32)
Fuel Injector#4(N33)
Evap System Purge Control Valve(N80)
Fan1 Control Cicuit

### 2.3.6 Advanced ID

This Advanced ID function displays additional (and sometimes quite arcane) identifying data from the control module which not fitted on the ECU Information screen.

Below is an example of the advanced ID screen

Advanced ID	
Advanced Identification	
Identification	ZSC-864
Revision	T5H06
Date	11.10.11
Manufacturer number	0226
Test stand number	7825
Flash Status	
<input type="button" value="Save"/> <input type="button" value="Back"/>	

### 2.3.7 Security Access (Login)

The Security Access function performs a security access request to the control module before you can Recode or change Adaptation values. On others, it "enables" certain features like cruise control. Valid Login codes can be found in the Service Manual for your car.

Typical menu options may include:

- 5 SN: 5 SN function allows to perform 5-digit security codes access request to the control module.
- 7 SN: 7-digit PIN/SKC (Secret Key Code) function is used for Key Matching and Immobilizer Adaptation. This type is largely obsolete since VW no longer give out PIN/SKC's but has been left in place for those who obtained their SKC, Importer, WSC, and date prior to 2005. Unless you already have the 7-digit PIN/SKC (Secret Key Code) information for your vehicle and components then you will NOT be able to do any of the Immobilizer functions.

To login with a 5- digit or 7-digit security code :

1. select Security Access (Login) from Function Menu and press the OK key.
2. Select **5 SN** or **7 SN** from the menu and press the **OK key**.

Security Access(Login)	
5 SN	
7 SN	

3. Enter valid 5-digit or 7-digit PIN, date, workshop code and importer number and press the **OK key**.

7 SN	
7 Digit PIN	
Year	
Month	
Day	
WorkShop Code	
Importer Number	
Set Complete	

## 2.3.8 Basic Setting and Adaptation

Generally basic settings involve invoking a specific control module to run in a special mode of operation that either sets the conditions to perform an adjustment or internally run a test. This depends on the entered block number (000–255). After entering a valid block number, data values or text can be displayed. There is no description of the data value, only the value and unit is displayed. For interpretation of the values, refer to the VAG system-specific workshop manual.

Adaptation let you change adaptation values from the control module and allows you to alter certain values and/or settings in control modules that support it.

Basic Setting	Documented basic settings
Input the channel number	Ignition(Knock Sensor Test - Short Trip)
Documented basic settings	Lambda Control(Aging Check:Bank 1 Sensor 1)
	Lambda Control(Sensor Readiness - After Catalyst)
	Lambda Control(Delta Lambda Bank1)

## 2.3.9 Coding

Recode is used to set various options in control modules such as airbag coding, slave modules coding, battery coding, etc. Please refer to the Factory Repair Manual for your particular car (or some other documented procedure) before attempting to Recode a Control Module.

**Software Coding**

0423000C1 9070060

0	1	2	3	4	5	6	7
8	9	A	B	C	D	E	F

Finish
Previous
Backspace

**Long Coding**

Software Coding  
:0423000C1 9070060

WorkShop Code	:000078
Importer Number	:0790
Equipment Number	:0000128
Set Complete	

## 2.4 Common Special Functions

This function lists the most commonly required service and maintenance functions . Typically the options are :

**Oil Service**

**Electronic Parking Brake (EPB)**

**Calibration of Steering Angle Sensor G85**

**Adapt Battery After Replacing**

**Throttle Body Alignment (TBA)**

**Special function of Diesel Engine**

**Read Anti-theft Code**

**Reset Airbag**

Not all function options listed above are applicable to all vehicles. Available options may vary by the year, model, and make of the test vehicle.

To perform special tests on a vehicle:

1. Scroll with the arrow keys to highlight the special function test you want to perform from the menu and press the **OK key**.

Common Special Functions	
Oil Service	
Electronic Parking Brake(EPB)	
Calibration Of Steering Angle Senser G85	
Adapt Battery After Replacing	
Throttle Body Alingment(TBA)	
Special Function Of Diesel Engine	
Read anti-theft code	

2. A group selection screen, test selection screen, several step-by-step instruction screens, or bi-directional control screen may appear. Read the screens and follow all instructions. If necessary, use the function keys to perform commands or answer any questions. If more than 3 function keys displays, use the **Up/Down** arrow keys to select a command and press the **OK key** to confirm.

Oil Service	
Service Reset	
Service Reset Canada	
Flexible Oil Servie Reset(LongLift/Rest of world/Gasoline)	
Flexible Oil Servie Reset(LongLift/Rest of world/Diesel)	
Flexible Oil Servie Reset(LongLift/Great Britain/Gasoline)	

3. When completed, press the **ECS key** to return to previous screens.

## 3 OBDII/EOBD Diagnostics

When **Diagnostics** application is selected from Home screen, the code reader starts to detect the communication protocol automatically. Once the connection has been established, a menu that lists all of the tests available on the identified vehicle displays. Menu options typically include:

- Read Codes
- Freeze Frame Data
- Erase Codes
- Live Data
- I/M Readiness
- O2 Sensor Test
- On-board Monitor Test
- Component Test
- Vehicle Information
- Modules Present
- Unit of measure

### 3.1 Read Codes

Read Codes menu lets you read stored codes, pending codes and permanent does found in the control unit. Typical menu options include:

- Stored Codes
- Pending Codes
- Permanent Codes

To read codes from a vehicle:

1. Press the **Read** hot key to directly read the codes from home screen. Or scroll with the **UP/DOWN** key to highlight **Read Codes** from Diagnostic Menu and press the **OK** key.
2. Select **Stored Codes/Pending Codes/ Permanent Codes** and press the **OK** key to confirm.
3. A code list including code number and its description displays.

### 3.2 Erase Codes

There are two ways to erase codes:

- Press the **Erase** hot key to erase codes from home screen.
  - Traditional way: select Erase Codes from the diagnostic menu.
1. Press the **Erase** hot key to directly erase the codes from the home menu. Or use the **UP/DOWN** key to highlight **Erase Codes** from Diagnostic Menu and press the **OK** key.
  2. Follow the on-screen instructions and answer questions about the vehicle being tested to complete the procedure.
  3. Check the codes again. If any codes remain, repeat the Erase Codes steps.

### 3.3 Live Data

Live Data menu lets you view, record and playback real time PID data from the electronic control module.

Menu options typically include:

- View Data

- Record Data
- Playback Data

### 3.3.1 View Data

The **View Data** function allows real time viewing of the vehicle's electronic control unit's PID data, including sensor data, operation of switches, solenoids and relays.

Menu options typically include:

- Complete Data
- Custom Data
- Unit of measure (Please refer to Chapter 7 **System Setup**)

#### 3.3.1.1 Complete Data Set

**Complete Data Set** displays all supported PIDs of the vehicle being tested.

1. Use the **UP/DOWN** key to highlight **Live Data** from Diagnostic Menu and press the **OK** key.
2. Select **View Data** or **Complete Data Set** from the list and press **OK** key to confirm.
3. Press the **OK** key to view PID graph if the PID gives a numeric reading.

#### 3.3.1.2 Custom Data List

Custom Data List menu lets you to minimize the number of PIDs on the data list and focus on any suspicious or symptom-specific data parameters.

1. Select **Custom List** from the menu and press the **OK** key.
2. Use the **RIGHT** key to select or deselect a line or press **LEFT** key to deselect all if needed. Press the **OK** key to confirm and **ESC** key to cancel.

### 3.3.2 Record Data

The **Record Data** function is used to record PIDs to help diagnose intermittent drivability problems that can't be determined by any other method.

Menu options typically include:

- Complete Data
- Custom Data
- Unit of measure (Please refer to Chapter 7 **Set Up**)

---

#### NOTE

There are two types of trigger methods used.

- Manual Trigger---triggers recording whenever operators press the **OK** key.
  - DTC trigger--- automatically triggers recording when a code is detected by vehicle. DTC Trigger is not available on all vehicles. Some vehicles need to be driven for a long period of time to store a code after a drivability fault occurs. If **DTC trigger** is selected to make a recording, there might not be drastic change in the data before and after trigger.
- 

#### CAUTION

Do not operate the code reader while driving; always have two persons in vehicle when recording – one to drive and the other to operate the code reader.

To record data:

1. Select Record data from the menu and press the **OK** key.
2. Refer to **View Data** to set up **Complete Data Set** or **Customer Data Set** to record.
3. If the recording is to be overwritten, selected **Yes**; if data is not to be overwritten, pick **No** to return to Select Memory screen and choose another one.

4. If **Manual Trigger** is selected, following screen displays:
5. If **DTC Trigger** is picked, following screen displays:
6. Press the **OK** key to start recording or wait codes to trigger.

---

**NOTE**

Different vehicles communicate at different speeds and support a different number of PIDs. Therefore, the maximum number of frames that can be recorded varies. The code reader keeps recording data until

- the memory is full.
  - the operator presses the **ESC** key.
- 

7. After recording, the code reader displays a prompt to **Playback**.
8. Select **YES** to view recorded data; pick **NO** or press the **ESC** key to return to **Record Data**.

### 3.3.3 Playback Data

The **Playback Data** is used to playback recorded PID data.

1. Scroll with the up and down arrow key to select **Playback Data** from the Menu.
2. Use the **UP/DOWN** key to select a memory area that is marked with an asterisk (\*) and press the **OK** to confirm.

## 3.4 View Freeze Frame

Freeze Frame menu displays freeze frame data, a snapshot of critical vehicle operating conditions automatically recorded by the on-board computer at the time of the DTC set. It is a good function to help determine what caused the fault.

1. Select **View Freeze Frame** from the Diagnostic Menu. Details of freeze frame data displays.
2. Use the up and down arrow keys to scroll through data to select lines, and left and right arrow keys to scroll back and forth through different screens of data. If no freeze frame detected, the message "No freeze frame data stored!" is displayed.
3. Use the **ESC** key to return to Diagnostic Menu.

## 3.5 Read I/M Readiness Status Data

I/M Readiness option allows to view a snapshot of the operations for the emission system on OBDII/EOBD vehicles.

I/M Readiness is a useful function used to check if all monitors are OK or N/A. The vehicle's computer performs tests on the emission system during normal driving conditions. After a specific amount of drive time (each monitor has specific driving conditions and time required), the computer's monitors decide if the vehicles emission system is working correctly.

When the monitor's status is:

- OK - vehicle was driven enough to complete the monitor.
- INC (Incomplete) - vehicle was not driven enough to complete the monitor.
- N/A (Not Applicable) - vehicle does not support that monitor.

There are two types of I/M Readiness tests:

- Since DTCs Cleared - shows status of the monitors since the DTCs were last cleared.
- This Drive Cycle - shows status of monitors since the start of the current drive cycle.

Below is a list of abbreviations and names of OBD II monitors supported by the code reader.



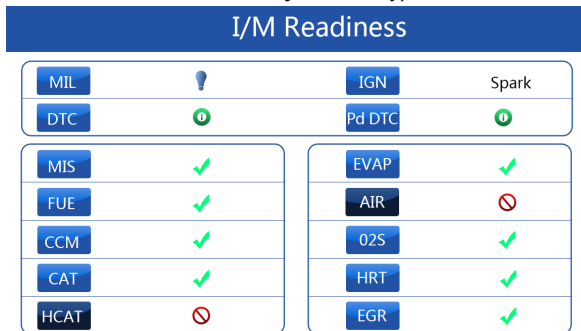
No.	Abbreviation	Name
1	Misfire Monitor	Misfire Monitor
2	Fuel System Mon	Fuel System Monitor
3	Comp. Component	Comprehensive Components Monitor
4	Catalyst Mon	Catalyst Monitor
5	Htd Catalyst	Heated Catalyst Monitor
6	Evap System Mon	Evaporative System Monitor
7	Sec Air System	Secondary Air System Monitor
8	A/C Refrig Mon	Air Conditioning Refrigerant Monitor
9	Oxygen Sens Mon	Oxygen Sensor Monitor
10	Oxygen SensHtr	Oxygen Sensor Heater Monitor
11	EGR System Mon	Exhaust Gas Recirculation System Monitor

There are two ways to retrieve I/M Readiness Status data:

- One-click I/M readiness key
- Typical way: select I/M Readiness from Diagnostic Menu

To retrieve I/M Readiness Status data by one-click I/M readiness key:

1. Press the **One-Click I/M Readiness Key** on the keypad and the following screen displays.



2. Colored LED and build-in beeper provide both visual and audible reminders for emission check and DTCs. Below is the interpretation of the LED and build-in beeper.

When the LED is :

- Green - Indicates that engine systems are “OK” and working properly (the number of Monitors equipped with the vehicle which have run and performed their self-diagnostic testing is in the allowed range. MIL is off. ).No stored and pending DTCs exist. The vehicle is ready for an Emissions Test.
- Yellow - The tool finds a possible problem. It indicates the following two conditions:
  - (1) Pending DTCs exist. Please check the I/M Readiness test result screen and use the Read Codes function to view detailed codes information.
  - (2) Some of the vehicle’s emission monitors have not working properly. If the I/M Readiness screen shows no DTC (including pending DTC), but the Yellow LED is still illuminated, it indicate a “Monitor Has Not Run” status.
- Red- Indicates some problems exist with one or more of the vehicle’s system, and the vehicle is not ready for an Emissions Test. As well there are DTCs found. The MIL lamp on the vehicle’s instrument panel will light steady. The problem that is causing the illumination of Red LED should be fixed before an Emissions Test or driving the vehicle further.

The built-in beeper works with the colored LED simultaneous, as an assistance to reflect the I/M Readiness test results:

- Green - two long beeps.
- Yellow - short, long, short beeps.
- Red - four short beeps.

To retrieve I/M Readiness Status data :

1. Scroll with **UP/DOWN** key to highlight **I/M Readiness** from Diagnostic Menu and press the **OK** key. If vehicle supports both types of monitors, a screen for monitor type selection displays. Select a monitor type and press the **OK** key.

2. If the vehicle is tested supports both types of monitors, following screen displays.

On-Board Monitor Test		3/5
Oxygen Sensor Monitors and Const...		
O2 Sensor Heater System Time to...		
Exhaust Gas Recirculation System...		
Ehancad Evaporative System Monit...		
Catalyst Efficiency Monitor		

3. Depending on readiness test, one of these 2 screens will be present. Use the up and down arrow keys to scroll through data. Press the **ESC** key to exit.

This driving cycle		1
MIS		OK
FUEL		OK
CCM		OK
CAT		INC
HCAT		N/A
EVAP		OK
AIR		N/A

Or

Since DTCs cleared		1
MIL		ON
MIS		OK
FUEL		OK
CCM		OK
CAT		INC
HCAT		N/A
EVAP		INC

### 3.6 O2 Monitor Test

1. Use the **UP/DOWN** key to highlight **O2 Monitor Test** from Diagnostic Menu and press the **OK** key. Use the **UP/DOWN** key to highlight an O2 sensor and press the **OK** key to confirm.
2. Use the up and down arrow keys to scroll through data to select lines, and left and right arrow keys to scroll back and forth through different screens of data.
3. Press **OK** key to view data of selection.
4. Press the **ESC** key to exit and return.

### 3.7 On-Board Monitor Test

The On-Board Monitor Test function is useful after servicing or after clearing a vehicle ECU's memory. It receives test results for emission-related powertrain components and systems that are not continuously monitored for Non-CAN vehicles. And for CAN vehicles, it receives test data for emission-related powertrain components and systems that are and are not continuously monitored. It is vehicle manufacturer who is responsible for assigning test and component IDs.

1. Use the **UP/DOWN** key to highlight **On-Board Monitor Test** from Diagnostic Menu and press the **OK** key.
2. Depending on the protocol the vehicle used, one of these 2 screens shows.

On-Board Monitor Test 1/25	On-Board Monitor Test 3/5
EGR MON.B1S1	Oxygen Sensor Monitors and Const ...
EGR MON.B1S2	O2 Sensor Heater System Time to ...
EGR MON.B2S1	Exhaust Gas Recirculation System ...
EGR MON.B2S2	Ehancad Evaporative System Monit ...
Catalyst Mon.B1	Catalyst Efficiency Monitor
Catalyst Mon.B2	
EGR Monitor Bank 1	

3. Use the **UP/DOWN** key to highlight a test group and press the **OK** key to confirm. A screen with details of the selected sensor displays. Use the up and down arrow keys to scroll through data to select lines, and left and right arrow keys to scroll back and forth through different screens of data.
4. Press the **ESC** key to exit and return.

### 3.8 Component Test

Component Test allows the code reader to control operation of vehicle components, tests or systems.

1. Use the **UP/DOWN** key to highlight Component Test from Diagnostic Menu and press the **OK** key.
2. Use the **UP/DOWN** key to highlight a system or component, press the **OK** key to start test and the code reader displays the message "Command Sent!"

3. Press the **ESC** key to exit and return.

## 3.9 Request Vehicle Information

Vehicle Information allows to request the vehicle's VIN number, calibration ID(s) which identifies software version in vehicle control module(s), calibration verification numbers (CVN(s)) and in-use performance tracking on model year 2000 and newer OBD II compliant vehicles.

CVNs are calculated values required by OBD II regulations. They are reported to check if emission-related calibrations have been changed. Multiple CVNs may be reported for a control module. It may take several minutes to do the CVN calculation.

To request vehicle information:

1. Use the **UP/DOWN** key to highlight **Vehicle Info.** from Diagnostic Menu and press the **OK** key. Follow on-screen instruction and send the command to read vehicle information.
2. Use the **UP/DOWN** key to highlight an available option and press the **OK** key. A screen with details of the selected option displays.
3. Press the **ESC** key to exit and return.

## 3.10 Modules Present

The code reader identifies module IDs and communication protocols for OBD2 modules in the vehicle.

To view module IDs and communication types:

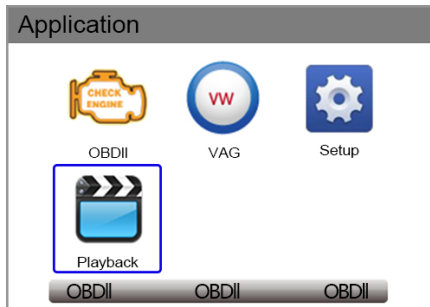
1. Use the **UP/DOWN** key to highlight **Modules Present** from Diagnostic Menu and press the **OK** key.
2. A screen with the module IDs and protocols displays.
3. Press the **ESC** key to exit and return.

Modules Present	
ID	Protocol
\$07E9	CAN STD FAST
\$07E8	CAN STD FAST

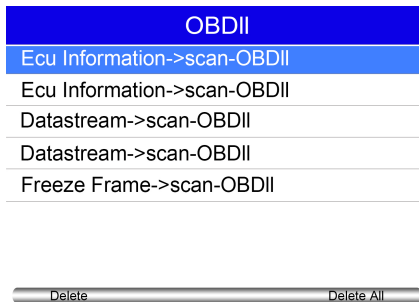
## 4 Playback Data

The PlayBack data function allows viewing recorded test results recorded by the scan tool.

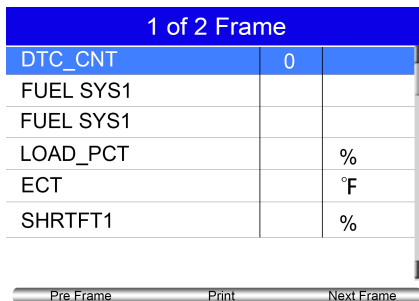
1. Select **PlayBack** from home screen and press the **OK** key.



2. A screen with a list of test records displays. If no data is recorded, the message “No Data available!” is displayed.



3. Scroll with the arrow keys to select desired testing entries and press the **OK key**. Details of the test record displays.



4. If you are reviewing live data or freeze frame data, use the function key **Next Frame** or **Pre. Frame** to scroll through all possible frames when necessary.

5. To erase a record, scroll with the arrow keys to highlight it and press the function key **Delete**. To delete all records, press the function key **Delete All**. Answer **Yes** to delete and **No** to quit.

## 5. Software Update and Printing

iLink400 Full System Single Make Scan tool is the most cost-effective professional multi-system scan tool that delivers OE-level diagnosis for all electronic systems of different car brands.

It does not only include basic functions such as read/erase codes and live data, but also it's capable of advanced functions such as actuation, adaptation and programming. In addition, it lets you to access the most commonly required service features such as Oil service Light Reset, Throttle Body Alignment, Electronic Parking Brake Service, Battery configuration, Steering Angel Sensor Calibration, CBS correct and much more.

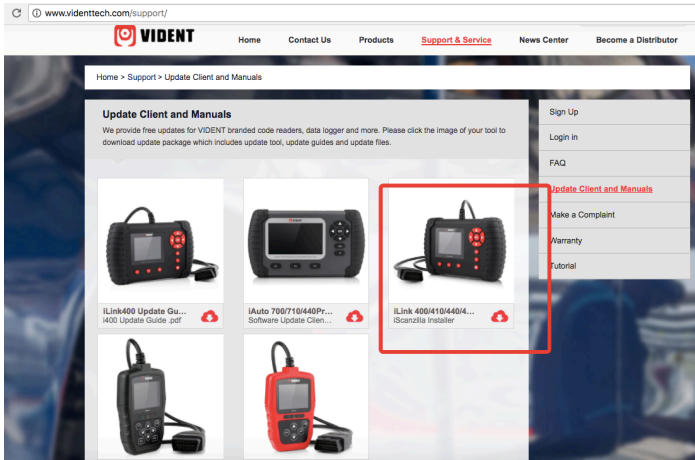
***All iLink400 scan tool will be shipped without any Software installed. You can install any software from the following list at your choice by the update client iScanzilla.***

Sub-models for Selection	Coverage	Sub-models for Selection	Coverage
i400 Full System Scan tool - AU Ford	AU Ford	i400 Full System Scan tool -Mazda	Mazda
i400 Full System Scan tool - Ford	Ford, EU Ford	i400 Full System Scan tool - VW & Audi & SEAT & Skoda	VW, Audi, SEAT, Skoda
i400 Full System Scan tool - BMW & MINI	BMW, Mini, Rolls Royce	i400 Full System Scan tool -Jaguar & Land Rover	Jaguar, Land Rover
i400 Full System Scan tool - Chrysler	Chrysler	i400 Full System Scan tool -Volvo	Volvo
i400 Full System Scan tool - Fiat & Alfa Romeo	Fiat, Abarth, Alfa Romeo, Lancia	i400 Full System Scan tool -Aston Martin	Aston Martin
i400 Full System Scan tool - GM	GM	i400 Full System Scan tool -Ferrari	Ferrari
i400 Full System Scan tool - Vauxhall & Opel	Opel, Vauxhall	i400 Full System Scan tool -Peugeot	Peugeot
i400 Full System Scan tool -Honda	Honda, Acura	i400 Full System Scan tool -Citroen	Citroen
i400 Full System Scan tool -Hyundai & Kia	Hyundai, Kia	i400 Full System Scan tool -Mercedes Benz	Mercedes Benz
i400 Full System Scan tool -Holden	Holden	i400 Full System Scan tool -SsangYong	SsangYong
i400 Full System Scan tool -Porsche	Porsche	i400 Full System Scan tool -Subaru	Subaru
i400 Full System Scan tool -Toyota & Lexus	Toyota, Lexus, Scion	i400 Full System Scan tool -Renault	Renault,Dacia
i400 Full System Scan tool - Maserati	Maserati		

### 5.1 Software Update

#### 5.1.1 Step One- Install the Update Client

1. Visit [www.videnttech.com](http://www.videnttech.com) to download the update client from <http://www.videnttech.com/support/>



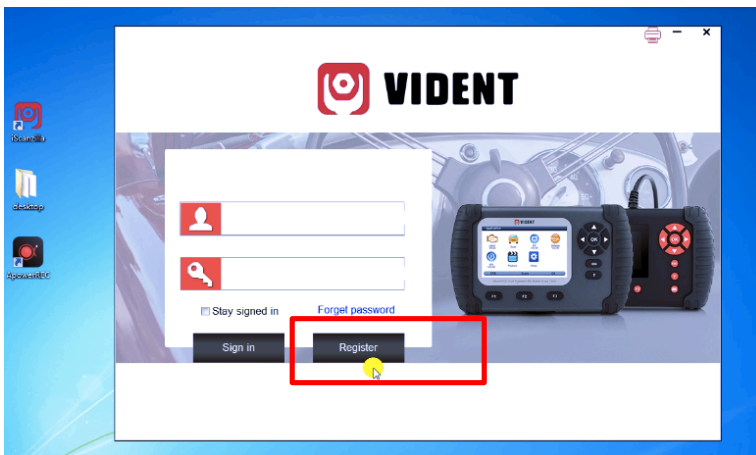
2. The file downloaded will be a compressed zip file. Open that file and run the installer inside it.

Alternatively, you can install the update client from the CD that comes in the product package.

### 5. 1. 2 Step Two - Create Your Vident Account.

Firstly you need to create an account with Vident.


1. Once installed, boots up the iScanzilla software, click the Register button.



2. Fill out the registration form and submit.

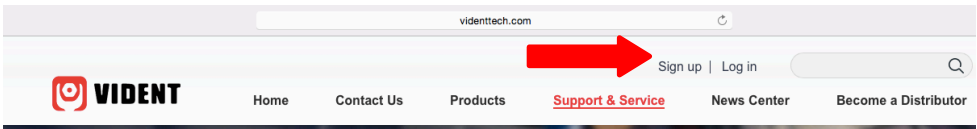
## Create Account

Create a new Vident online account here. \*Indicates required field

* User ID :	
* Password :	* Confirm Password :
* First Name :	* Last Name :
Address :	State/Province :
City :	* Country :
* Phone :	* Email :
* Captcha :	 Click image to refresh

**SUBMIT**

Alternatively, you can click the Sign Up button on the right upper side of our website to create an user account.



### 5.1. 3 Step Three – Register Your product

1. When logged in iScanzilla, click the 'Register Products' icon.





www.videntech.com/user/index.html

**VIDENT** Contact us Products Support & Service News Center Member Center Logout Shopping Cart

Registered Products  
 Register New Products  
 Update Messages  
 Make a Complaint  
 Orders  
 Profile  
 Reset Password  
 Payment Instructions

**Member Center** Exit

Dear **Sam**, Welcome!  
 IP of Last Login: 219.133.69.115  
 Register Date: 11:51:55 22/12/2017  
 Date of Last Login: 11:51:55 22/12/2017

**Account Overview**

Open Orders: 0Piece Update News: 0Piece

**Update News**

1	Product: I400-VAG	Number: 1	Available Updates:Detail
	Serial Number	Registration Date	Expiration Date
	4400315999999	11:54:30 22/12/2017	11:54:30 22/12/2020

### 5.1. 4 Step Four – Download and Install Diagnostic Software

1. Now close the iScanzilla software, remove the TF card from your tool (making sure the tool is turned off first!) and connect it to the PC via a TF card reader.
2. Once Windows has detected the TF card, run the iScanzilla software and login again. After a few seconds, a list of the available software updates will appear.

iScanzilla V1.00

My Updates Register Products My Profile Support Tickets Software Management

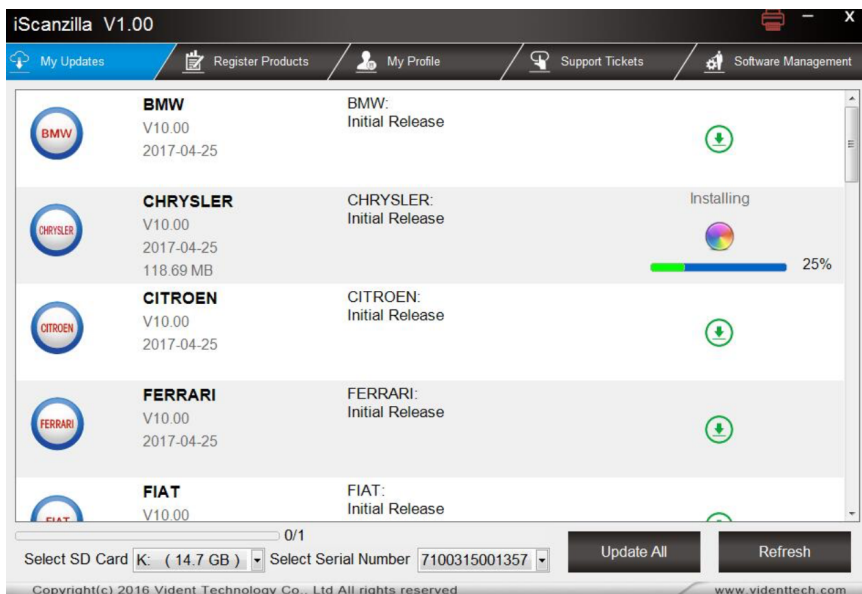
<b>BMW</b> V10.00 2017-04-25	BMW: Initial Release	[Download]
<b>CHRYSLER</b> V10.00 2017-04-25	CHRYSLER: Initial Release	[Download]
<b>CITROEN</b> V10.00 2017-04-25	CITROEN: Initial Release	[Download]
<b>FERRARI</b> V10.00 2017-04-25	FERRARI: Initial Release	[Download]
<b>FIAT</b> V10.00	FIAT: Initial Release	[Download]

Select SD Card K: ( 14.7 GB ) Select Serial Number 7100315001357 [Update All] [Refresh]

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Please select only one software you want to update, as you can ONLY have access to the update of this manufacturer in the future once it's been selected initially. In case you want to install any other vehicle software, please contact us or sign in your member center to purchase. Please refer to next chapter to buy extra software.

3. Click the Update button to download and install the software.



4. Once the software installed, you can go to Software Management to review the installed software.

## 5. 2 Buy Extra Software

iLink400 is authorized with one free software when delivery and can cover up to six vehicle makes. More software can be added anytime at extra cost. You can contact the reseller or following the steps below to buy extra software.

### Buy Extra Software

#### Step 1/6

1. Log in at our website [www.videntech.com](http://www.videntech.com) and go to your **Member Center**, click **Registered Products**.

**VIDENT** Contact us Products Support & Service News Center Member Center Logout Shopping Cart

Registered Products  
**Register New Products**  
 Update Messages  
 Make a Complaint  
 Orders  
 Profile  
 Reset Password  
 Payment Instructions

**Member Center** Exit

Dear wang, Welcome!  
 IP of Last Login: 47.90.103.215 IP of This Login: 47.90.103.215  
 Register Date: 10:44:14 21/08/2017 Date of Last Login: 10:44:14 21/08/2017

**Account Overview**

Open Orders: 4Pieces Update News: 0Piece

**Update News**

1	Product: i440	Number: 1	Available Updates:Detail
	Serial Number	Registration Date	Expiration Date
	7000315001362	22:07:22 20/09/2017	22:07:22 20/03/2019
2	Product: i400-ASTONMARTIN	Number: 1	Available Updates:Detail

## Buy Extra Software

### Step 2/6

- Find the iLink400 serial number you wish to add extra software and click the **Software Details**

**VIDENT** Contact us Products Support & Service News Center Member Center Logout Shopping Cart

Registered Products  
 Register New Products  
 Update Messages  
 Make a Complaint  
 Orders  
 Profile  
 Reset Password  
 Payment Instructions

**Product Information** Back | Back To Menu


**i440**  
 Serial Number: 4400315001363  
 Registration Date: 16:40:54 18/09/2017  
 License Valid Period: 16:40:54 18/09/2017~16:40:54 18/03/2019  
**Software Detail**

**i440**  
 Serial Number: 7000315001362  
 Registration Date: 22:07:22 20/09/2017  
 License Valid Period: 22:07:22 20/09/2017~22:07:22 20/03/2019  
 Software Detail

## Buy Extra Software

### Step 3/6

- You will see all software already installed on this tool as well as all software available to add. Select the software you need and click **Add To Cart** button.

**VIDENT** Contact us Products Support & Service News Center Member Center Logout 

Registered Products Register New Products Update Messages Make a Complaint Orders Profile Reset Password Payment Instructions

**Software Details--700031500999** Back | Back To Menu


Click here to download the update client and start the upgrade.

Software	Version	Release Date	Language	Status	Action
ASTONMARTIN	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
BMW	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
CHRYSLER	V10.00	25/04/2017	EN	Latest	Upgrade Log
CITROEN	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
FERRARI	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
FIAT	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
FORD	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
FORDAU	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
GM	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
HOLDEN	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log
HONDA	V10.00	25/04/2017	EN	Add To Cart	Upgrade Log

## Buy Extra Software

### Step 4/6

- You can manage your shopping cart by clicking Delete to delete the software that you don't need or click **Continue Shopping** to go back to Member Center page to add more into the cart.

**VIDENT** Contact us Products Support & Service News Center Member Center Logout 

**My Shopping Cart**

1 Add to cart 2 Review Order 3 Confirm and Pay for Order

Product	Quantity	Price	Subtotal	Action
I400-ASTONMARTIN-7000315006666-BMW	1	\$60.00	\$ 60.00	Delete
I400-ASTONMARTIN-7000315006666-FERRARI	1	\$60.00	\$ 60.00	Delete
I400-ASTONMARTIN-7000315006666-GM	1	\$60.00	\$ 60.00	Delete

Total Number of Software: 3Pieces Total Amount: **\$180.00**

Continue Shopping Proceed to Checkout

## Buy Extra Software

### Step 5/6

- Continue to process the payment and check out through Paypal.

## VIDENT

## Buy Extra Software

### Step 6/6

6. Log in the update client iScanzilla. When the payment has been made successfully, the software you purchased would be listed in the available updates list for you to download.


Brand	Version	Date	Description	Action
ASTON MARTIN	V10.00	2017-04-25	Initial Release	Download
BMW	V10.00	2017-04-25	BMW: Initial Release	Download
FERRARI	V10.00	2017-04-25	FERRARI: Initial Release	Download
GM	V10.00	2017-04-25	GM: Initial Release	Download
OBDII	V10.00	2017-04-25	OBDII: Initial Release	Download

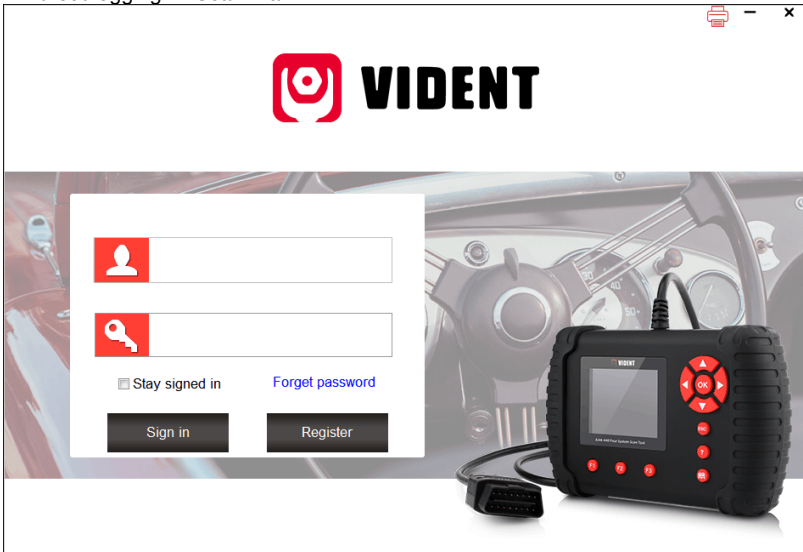
## 5.3 Software Renewal

If your free updates ran out, your tool will continue to function - it will not 'time out' - but you will no longer be able to access the update servers. Should you wish to continue updating your tool, you will need to purchase an update package. Please go to our website and log in to process the purchasing.

## 5.4 Printing Data

It's very easy to print out the test result through iScanzilla.

1. Click the  Button located on the upper side of iScanzilla. You can enter the print screen without logging in iScanzilla.



2. All data saved/stored in the TF card would appear on screen.





## General Notice

For your own safety and the safety of others, and to prevent damage to the equipment and vehicles, read this manual thoroughly before operating your code reader. The safety messages presented below and throughout this user's manual are reminders to the operator to exercise extreme care when using this device. Always refer to and follow safety messages and test procedures provided by vehicle manufacturer. Read, understand and follow all safety messages and instructions in this manual.

## Safety Precautions and Warnings

To prevent personal injury or damage to vehicles and/or the scan tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle: Always perform automotive testing in a safe environment. Wear safety eye protection that meets ANSI standards. Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.

Operate the vehicle in a well-ventilated work area: Exhaust gases are poisonous. Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests. Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running. Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.

Keep a fire extinguisher suitable for gasoline/chemical/ electrical fires nearby. Ignition is on or the engine is running. Keep the scan tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when necessary.

## Warranty and Service

### Limited One Year Warranty

We warrant to its customers that this product will be free from all defects in materials and workmanship for a period of one (1) year from the date of the original purchase, subject to the following terms and conditions:

- 1) The sole responsibility of our company under the Warranty is limited to either the repair or, at the option of our company, replacement of the scan tool at no charge with Proof of Purchase. The sales receipt may be used for this purpose.
- 2) This warranty does not apply to damages caused by improper use, accident, flood, lightning, or if the product was altered or repaired Center.
- 3) We shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the scan tool. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

### Aftersales Service

If you have any questions, please contact your local reseller or contact us at <http://www.videnttech.com/support/support/>