# Vehicle diagnostic equipment

## i70

# User instruction



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2

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# **Safety Information**

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 tool. 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 Message Conventions Used

We provide safety messages to help prevent personal injury and equipment damage. Below are signal words we used to indicate the hazard level in a condition.

#### 🛦 DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.

#### 

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.

#### 

Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.

## **Important Safety Instructions**

And always use your tool as described in the user's manual, and follow all safety messages.

#### 

• Do not route the test cable in a manner that would interfere with driving controls.

• Do not exceed voltage limits between inputs specified in this user's manual.

• Always wear ANSI approved goggles to protect your eyes from propelled objects as well as hot or caustic liquids.

• Fuel, oil vapors, hot steam, hot toxic exhaust gases, acid, refrigerant and other debris produced by a malfunction engine can cause serious injury or death. Do not use the tool in areas where explosive vapor may collect, such as in below-ground pits, confined areas, or areas that are less than 18 inches (45 cm) above the floor.

• Do not smoke, strike a match, or cause a spark near the vehicle while testing and keep all sparks, heated items and open flames away from the battery and fuel / fuel vapors as they are highly flammable.

• Keep a dry chemical fire extinguisher suitable for gasoline, chemical and electrical fires in work area.

• Always be aware of rotating parts that move at high speed when an engine is running and keep a safe distance from these parts as well as other potentially moving objects to avoid serious injury.

• Do not touch engine components that get very hot when an engine is running to avoid severe burns.

• Block drive wheels before testing with engine running. Put the transmission in park (for automatic transmission) or neutral (for manual transmission). And never leave a running engine unattended.

• Do not wear jewelry or loose fitting clothing when working on engine.

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# 1 Using This Manual

We provide tool usage instructions in this manual. Below are the conventions we used in the manual.

## 1.1 Bold Text

Bold text is used to highlight selectable items such as buttons and menu options.

Example:

Press the ENTER button to select.

## 1.2 Symbols and Icons

## 1.2.1 Solid Spot

Operation tips and lists that apply to specific tool are introduced by a solid spot  $\bullet.$ 

Example:

When System Setup is selected, a menu that lists all available options displays. Menu options include:

- Languages
- Display Mode
- Unit
- User Information
- Resetting

## 1.2.2 Arrow Icon

An arrow icon indicates a procedure.

Example:

► To connect to wall plug:

- 1. Connect the 5V power adapter to scanner and plug it to the wall socket.
- 2. Press the power switch of the scan tool to power it on; meanwhile the

scanner tool starts charging automatically also.

## 1.2.3 Note and Important Message

### Note

A NOTE provides helpful information such as additional explanations, tips, and comments.

Example:

### NOTE

Test results do not necessarily indicate a faulty component or system.

### Important

IMPORTANT indicates a situation which, if not avoided, may result in damage to the test equipment or vehicle.

Example:

### IMPORTANT

Do not soak scanner as water might find its way into the scanner.

# **2** Introduction

i70 is a brand new automotive diagnostic tool based on the latest Android system. It inherits the same Foxwell advantages in car diagnostics, such as multi manufacturer coverage and OE-level diagnosis.i70 is the perfect tool for the busy garage or workshop, who needs the latest technology at unbeatable vaule.

## 2.1 Scanner Descriptions

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





- 1 7" LED IPS Capacitive Touch Screen shows menus, test results and operation tips.
- 2 Power Status Indicator indicates the power status of the scanner.



Figure 2-3 Top View

- 4 Diagnostic Port provides connection between vehicle and the scanner.
- **5 DC Power Input Jack** connects to wall plug to provide power to the scanner and to charge the scanner.
- 6 USB Port provides a USB connection for the PC or laptop.
- **7 Power Switch** turns on the scanner, goes to sleep mode or wake up the scanner from sleep mode, press and hold for 3 seconds for emergency shutdown.





8 Rear-Facing Camera - takes pictures of VIN number, faulty parts and plates and shoots test videos.

#### IMPORTANT

Do not use solvents such as alcohol to clean display. Use a mild nonabrasive detergent and a soft cotton cloth.

## 2.2 Accessories

This section lists the accessories that go with the scanner. If you find any of the following items missing from your package, contact your local dealer for assistance.

Item	Item
Main Unit	OBDII Adapter
DB15 Data Cable	Mazda 17 Pin Adapter
AC/DC Power Supply	Toyota 17 Pin Adapter
Charger	
	Mercedes Benz
Audi 4 Pin Adapter	38 Pin Adapter
Clip Cable	Cigarette Lighter
Toyota 22 Pin Adapter	Fiat 3 Pin Adapter
GM/Daewoo 12 Pin Adapter	PSA 2 Pin Adapter
Kia 20 Pin Adapter	Honda 3 Pin Adapter
Nissan 14 Pin Adapter	Mitsubishi 12+16 Pin Adapter



### Table 2-1 Accessories

## 2.3 Technical Specifications

Item	Description
Screen	7" diagnonal, daylight readable color LCD screen;1024*600 pixel
Operation System	Android
Processor	MT8163(ARM Cortex, a53x4,1.3GHz)
Memory	1GB DDR3L
SSD Hard drive	32GB
Communication interface	Built-in WIFI 802.11 b/g/n Wireless LAN USB2.0 OTG/standard USB 2.0 HOST Bluetooth 4.0 (10-20 m)
Camera	5 megapixels rear-facing
Built-in Battery	4000 mAh, Lithium-polymer battery, chargeable via 5V AC/DC power supply
Protocols	ISO9141-2, ISO14230-2, ISO15765-4, K/L lines, Double K Line SAE-J1850 VPW, SAE-J1850PWM, CAN ISO 11898, High-speed, Middle-speed, Lows-peed and Single wire CAN, KW81, KW82, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6, SAE J1939, SAE J1939, SAE J1708, Fault-Tolerant CAN
Dimensions	205*135*30mm

Table 2-2 Technical Specifications

# **3 Getting Started**

This section describes how to power on/down the scanner, provides brief introductions of applications loaded on the scanner and display screen layout of the scan tool.

## 3.1 Powering up the Scanner

Before using the i70 applications (including updating the scanner), please make sure to provide power to the scanner.

The unit operates on any of the following sources:

- Internal Battery Pack
- 5V AC/DC Power Supply

## 3.1.1 Internal Battery Pack

The tablet scanner can be powered with the internal rechargeable battery. The fully charged battery is capable of providing power for 4 hours of continuous operation.

### NOTE

Please turn off the tablet to save power when not use.

## 3.1.2 5V AC/DC Power Supply

The scan tool can also be powered from a wall socket using the AC/DC power supply. The AC/DC power supply also powers the internal battery pack charging.

To connect to wall plug:

1. Connect the 5V power adapter to scanner and plug it to the wall socket.

2. Press the power switch of the scan tool to power it on; meanwhile the

scanner tool starts charging automatically also.

## 3.2 Shutting Down the Scanner

All vehicle communication must be terminated before shutting down the scanner.Forcing a shut down while communicating may lead to ECM problems on some vehicles. Exit the Diagnostic application before powering down.

- To shut down the scanner:
  - 1. Press and hold the Power button of the scanner for 5 seconds.
  - 2. Then click Power off option showing on the menu to shutdown.

## 3.3 Screen Layout of Home Screen

When the scan tool boots up, press the Desktop tab from the Home screen of the tablet. Then press the i70 desktop icon to launch the diagnostic application.

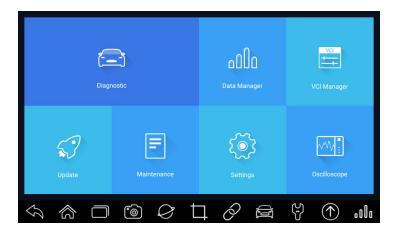


Figure 3-1Sample Home Screen

- 1.Application Buttons
- 2.Android Tool Bar

## 3.3.1 Application Buttons

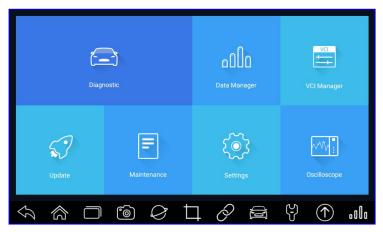


Figure 3-2 Sample Application Screen

This section briefly introduces the applications that are preloaded into the scanner:

- **Diagnostic** leads to test screens for diagnostic trouble code information, live datastream, ECU information, active tests, coding and other functions.
- Data Manager leads to screens for saved screenshots and pictures and playing back recorded live datastream, as well as stored logging data.

- •\_Oscilloscope leads to oscilloscope OS100 software to perform electrical and electronic circuit tests.
- •\_Videoscope leads to videoscope software connecting i70 to videoscope with an Imager head cable for close vehicle inspection.
- Update leads to screens for registration and updating of the scanner and managing your scanner serial numbers and sending us feedbacks about the scanner.
- **Setting** leads to screens for adjusting default settings to meet your own preference and view information about the scanner.
- About leads to screen of product information such as serial number and password, which is required for product registration.
- Customer Management leads to screens for logging and managing the client information of the workshop.
- **Remote Control** leads to the application TeamViewer for remote control when you need any support from Foxwell support team.
- Technical Data stores some guided operation information etc.

### 3.3.2 Android Toolbar

Operation of the buttons located on the bwlow bar are described in the table below:

Name	Button	Description
Exit	$\mathcal{F}$	Exits the Diagnostic application or exits a function.
Desk	\$	Back to the desk directly.
App Switch		Switch to the other application.
Camera	٦	Take a photo or picture.
Google Search	$\langle \rangle$	Search the fault codes online or other information.
Sceenshot	⊐	Capture the screens of errors or faults.
Frimware Update	Ô	Update the firmware of the tablet.
Dignostic		Go to Dignostic menu directly.
Maintenance	<del>رک</del>	Go to Maintenance function directly.
Software Update	$(\uparrow)$	Update the vehicle software directly.
Data Manager	• O O o	Manage the data or the picture you saved.

Table 3-1Title Bar

### NOTE

In case of the display mode of i70 application is set to full screen display, the Android toolbar will not be displayed.

# **4 Diagnostic Operations**

This section illustrates how to use the scanner to read and clear diagnostic trouble codes, view "live" data readings and ECU information on controllers installed, preform special functions such as actuation and coding, and perform vehicle services and maintenances on 145 vehicle brands.

## 4.1 Vehicle Identification

The vehicle identification information presented is provided by the ECM of the vehicle being tested. Therefore, certain attributes of the test vehicle must be entered into the scan tool to ensure the data displays correctly. The vehicle identification sequence is menu driven, you simply follow the screen prompts and make a series of choices. Each selection you make advances you to the next screen. A Back button in the upper left corner of the screen returns to the previous screen. Exact procedures may vary somewhat by vehicle.

It typically identifies a vehicle by any of the following means:

- VIN Scan Hotkey
- Automatic VIN aquisition
- Manual VIN entry
- Manual vehicle selection

### NOTE

Not all identification options listed above are applicable to all vehicles. Available options may vary by vehicle manufacturer.

## 4.1.1 VIN Scan Hotkey

VIN Scan Hotkey button with on the title bar is a shortcut for Automatic

VIN Aquisition and Manual VIN input, which features the latest VIN-based Auto VIN Scan function to identify vehicles in just one touch and allows the technician to quickly detect vehicles and scan all systems. For some vehicles that do not support Auto VIN Scan function, choose Manually input VIN to let i70 to scan your vehicle.

DEMO V1.00.00	ê Ö	0	B	8	120
Select Application > Hot	Function > TPMS				
Wheel sensor ID wr	iting Write VIN				
Write VIN	This function is ECM's memory.				
Vehicle name writin	[ Condition ] : IG Read :TMAJU8 Write :		†)		
TPMS mode config	urati				
	确定		取消		
[]	Ŷ V	0		d)	

Figure 4-11 Sample VIN Scan Hotkey

## 4.1.2 Automatic VIN Aquisition

Automatic VIN Acquisition allows to identify a vehicle by automatically requesting the vehicle identification number (VIN).

- To identify a vehicle automatic VIN acquisition:
  - 1. Select Diagnostic from the Home screen of the i70 application.

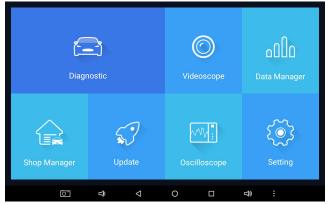


Figure 4-12 Sample Home Screen

2.A screen with vehicle manufacturers displays. Select the area where the vehicle manufacturer is from. A menu of all vehicle manufacturers from this area displays. Or tap the **Search Vehicle** box to input the vehicle brand to search.

1 VIN	Commonly used Ame	rica Asia Eur	ope China	Q Search
DEMO	EOBD	ABARTH	ALFA	AstonMartin
AUDI	Bentley	BMW	Bugatti	Ferrari
FIAT	JAGUAR	Lamborghini	LANCIA	LANDROVER
$\langle \rangle$	-	3 4 6		000 T

Figure 4-13 Sample Vehicle Selection Screen

3. Press Read button to start reading the Vehicle Specification or VIN Code automatically.

BMW V1.00.003					
Start New Session	Series Model series	Model Version Model year			
2007_09					
	Inform	ation			
2008_09	~	Establishing vehicle communica Please wait	itions.		
2009_03					
$\langle \mathcal{S} \rangle$	) 🗆 🍅			¥ (†	. o O o

Figure 4-15 Sample Vehicle Selection Screen

4. After the scan tool builds connection to the vehicle, the VIN number displays. If the Vehicle Specification or VIN code is correct, press the **OK** to continue. If it is incorrect, you are required to enter the correct VIN number manually.



## 4.1.3 Manual VIN Entry

Manual VIN Entry identifies a vehicle by manually inputting a 17-digit VIN code.

- To identify a vehicle by manual VIN entry:
  - 1.Refer to Step 1-3 of 4.1.2 Automatic VIN Acquisition.
  - 2.Press **Keyboard** button to input a valid VIN code and press **OK** to continue. The scan tool starts to identify the vehicle.



Figure 4-17 Sample Manual VIN Entry with Keyboard

## 4.1.4 Manual Vehicle Selection

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

- To identify a vehicle by manual vehicle selection:
  - 1.Refer to Step 1-3 of 4.1.2 Automatic VIN Acquisition.
  - 2.On each screen that appears, select the correct option and then press the **OK** button. Do this until the complete vehicle information is entered and the menu of controller selection displays.

BMW V1.00.003	Â	¢	•	T D
Start New Session Series	Model series	Model Version	Model year	Main Groups
Auto Scan				
Control Units				
Service				



Figure 4-18 Sample Manual Vehicle Selection Screen

## 4.2 System Selection

When you have completed the identification of vehicle, a menu for selecting system to test displays. Menu options typically include:

- Auto Scan
- Control Unit

### 4.2.1 Auto Scan

Auto Scan performs an automatic system test to determine which control modules are installed on the vehicle and obtain diagnostic trouble codes (DTCs) overview. Depending on the number of control modules, it may take a few minutes to complete the test.

- To perform an automatic system scan:
  - 1. Press Auto Scan option to start.

BMW V1.00.003			٥	•	T B	
Start New Session	Series	Model series	Model Version	n 🔪 Model year	Main Groups	
Auto Scan						
Control Units						
Service						



Figure 4-19 Sample Select System Scan Screen

2. To pause the scan, press the **Pause** button on the screen.

BMW V1.00.003	合	Ø	•	T	6			
Start New Session Series	Model series	Model Versi	on Model year	Main 0	Broups A	uto Scan		
System Name					Status/Count			
CAS Car access system					Scanning			
						B	Ē	Ø
					Pause	Save	Report	Erase
s a f	<u>ا</u>	$\mathcal{T}$	$\mathbf{T}$	$\mathcal{A}$		(5)	$( \uparrow )$	مالم

Figure 4-20 Sample Auto System Scan Screen

3.At the end of successful automatic controller scan, a menu with a list of installed controllers together with their **DTC overview** displays.

DEM0 V1.00.005	Â	¢	0	T			
Select Application Diagno	ais Auto Scan						
System Name					Status/Count		
Engine(Engine control)					Fault   5		$\sim$
Airbag(Airbag control)					Fault   3		$\sim$
AIRCON(Air conditioner)					Fault   4		$\sim$
EPS(Motor driven power	steering)				Fault   8		$\sim$
							Ø
			_	~	Se C D	ive Report	Erase
$\langle \mathcal{S} \rangle$		) $Q$	Ц	Ô		$(\uparrow)$	٥O٥

Figure 4-21 Sample Auto Scan Complete screen

4. If there is diagnostic trouble code(s) detected in a control unit, press the **Report** button on the screen to view details of code information, and press **Quick Erase** button to clear them.

DEMO V1.00.005		Â	Ø	0	T	6		
Select Application	Function Menu	Fault Cod	es					
ID 7	Status		Desc					
P0030	Active		H02S heate	r control circu	iit bank 1 sen:	sor 1		
P2096	History		Post catalys	st fuel trim sys	stem too lean	bank 1		
P0130	Active		O2 sensor c	ircuit bank 1 s	sensor 1			
P0616	History		Starter relay	circuit low				
							Freeze Frame Help Info	Save
√3 §		] [0		Ħ	O		4	.olo
Fi	igure	4-22	Samp	ole Sta	atus F	Report	screen	
DEMO V1.00.005		合	Ø	0	Ē	60		
Select Application	Function Menu							
Read codes								
		Erase	Codes					
Live data		Ignitic	n on and engin	e stopped?				
Active test			Cancel		ОК			
ECU information								
Special function								
5		] [@		Ц	Ó			٥O٥

Figure 4-23 Sample Quick Erase screen

5. When running auto scanning, you can click **Pause** and select the system you would like to test. When the scanner has established connection with the vehicle, the Function Menu displays.

DEMO V1.00.005	Â	Ō	•	T	ð		
Select Application Function Me	inu						
Read codes							
Erase codes							
Live data							
Active test							
ECU information							
Special function							
	] <sup>•</sup> @	$\Diamond$	Ħ	O		£) (↑)	. o O o

Figure 4-24 Sample Function Menu screen

## 4.2.2 Control Unit

Control Unit screen displays all controllers available of the vehicle manufacturer. The controllers listed on the menu do not mean that they are installed on the vehicle. It is useful for technicians who are familiar with the vehicle specifications.

- ► To select a system for testing:
  - 1. Press Control Unit from the menu and a controller menu displays.

DEMO V1.00.005	â	¢	0	1	6		
Select Application Diag	nosis Control unit						
Engine							
Airbag							
AIRCON							
EPS							
BCM							
ABS/ESP							
			+	2	Ģ	<u>୯</u>	-1
$\langle \mathcal{S} \rangle$	<b>D</b>		Ц	Õ		YU	٥O٥

Figure 4-25 Sample Control Unit Menu Screen

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

DEMO V1.00.005	Â	¢	0	T	ð			
Select Application Function Men	u							
Read codes								
Erase codes								
Live data								
Active test								
ECU information								
Special function								
1		$\sim$	<u> </u>	$\sim$		٩D	$\bigcirc$	0
	) (O)	Ż	Ц	Ø		رق ل	$(\uparrow)$	٥Oo

Figure 4-26 Sample Common menu screen

## 4.3 Diagnostic Operations

After a system is selected and the scanner establishes communication with the vehicle, the Function Menu displays. Generally the menu options are:

- ECU Information
- Read Codes
- Freeze Frame Data
- Erase Codes
- Live Data

### NOTE

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. A "The selected mode is not supported!" message displays if the option is not applicable to the vehicle under test.

## 4.3.1 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.

To read ECU information: 1.Press ECU Information from Select Diagnostic Function menu.

DEMO V1.00.005	合	Ø	•	1	6		
Select Application Diagnosis	Control unit	> Engine >	Function Menu				
Read codes							
Erase codes							
Live data							
Active test							
ECU information							
Special function							
	) ()		Ħ	O		$ \qquad \qquad$	٥O٥

Figure 4-27 Sample Function Menu Screen

2. A screen with detailed information of the selected control module displays.

DEMO V1.00.005		¢	•	T	6	
Select Application Diagnosis	s Control unit	Engine	Function Menu	ECU information	on	
Vehicle manufacturer ECU	I hardware numbe	er		Hyundai	_EU_01032	
ECU ROM ID				Hyundai	_D1.7TCU2	
						Sa

3. Press function key **Save** to store ECU information, and press **Print** to print the information. Or use the **ESC** button to exit.

### 4.3.2 Read Codes

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

- Present/Permanent/Current Codes
- Pending Codes
- History Codes
- Code History
- Self Diagnostic

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. Pending codes are also referred to as maturing codes that indicate intermittent faults. If the fault does not occur within a certain number of drive cycles (depending on vehicle), the code clears from memory. If a fault occurs a specific number of times, the code matures into a DTC and the MIL illuminates or blinks.

History codes are also referred to as past codes that indicate intermittent DTCs that are not currently active. Code history is number of engine starts since the DTC(s) were first detected (to see if they are current or intermittent).

Self diagnostic lets you manually activate system tests that check for DTCs. Usually it includes a KOEO (Key-on, engine-off) test and a KOER (key-on, engine-running) test.

#### To read codes from a vehicle:

1. Press **Read Codes** from Select Diagnostic Function menu. A code list including code number and its description displays.

DEMO V1.00.005		畲	¢	•	T	6			
Select Application	Function Menu	Fault Codes							
ID	Status		Desc						
P0030	Active		HO2S heate	r control circu	it bank 1 sens	sor 1			
P2096	History		Post catalys	st fuel trim sys	tem too lean t	oank 1			
P0130	Active		O2 sensor c	ircuit bank 1 s	ensor 1				
P0616	History		Starter relay	circuit low					
							*	?	B
							Freeze Frame	Help Info	Save
$\mathcal{G}$		<u>ا</u>	Ø	Ħ	O		ζ <del>ι</del>	$(\uparrow)$	. o O o

Figure 4-29 Sample Function menu screen

- 2. Slide up and down to view additional information when necessary.
- 3. Press **Save** to store DTC information, and press **Print** to print the code information. Or use the **ESC** button to exit.

### 4.3.3 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.

- To view freeze frame data:
  - 1.Select **Freeze Frame Data** from Select Diagnostic Function menu. Details of freeze frame data displays.
  - 2. Slide the screen up and down or use the **PAGE UP** and **PAGE DOWN** button to view additional information when necessary.

3. Press function key **Save** to store freeze frame information, and press **Print** to print the freeze frame data. Or use the **ESC** button to exit.

### 4.3.4 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. So make sure that the selected system are completely checked and serviced by technicians and no vital information will be lost before clearing codes.

### NOTE

- To clear codes, make sure that the ignition key is switched to ON with the engine off.
- Erase Codes does not fix the problem that caused the fault! DTCs should only be erased after correcting the condition(s) that caused them.
- ▶ To clear codes:
  - 1. Press Erase Codes from Select Diagnostic Function menu.

DEMO V1.00.005	Â	¢	0	T	6		
Select Application Function Men	i.						
Read codes							
Erase codes							
Live data							
Active test							
ECU information							
Special function							
	] 6	$\bigcirc$	Þ	Ò		Y ()	. o O o

Figure 4-31 Sample Function Menu Screen

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.

## 4.3.5 Live Data

Live Data menu lets you view real time PID data in text, plot and gauge formats, learn good sensor data and compare them with faulty data, and record live data from a selected vehicle electronic control module.

Menu options typically include:

- All Data
- Custom List

### 4.3.5.1 All Data

All Data menu lets you view all live PID data from a selected control module. i70 allows you to view live data information in 6 different types of display modes.

- **Text Mode** this is the default mode which displays the parameters in texts.
- **Graph Mode** displays the parameters in waveform graphs, giving you the 'real picture' of what's going on in the vehicle. You can view up to 4 parameter graphs simultaneously and easily find and zoom in on a particular string of data.
- Merged Graph Mode merges multiple PID plots into one coordinate, so you can easily see how they affect each other, providing you with the most comprehensive and functional look at live data possible.
- Guage Mode displays the parameters in the form of an analog meter.
- Study Mode gives you the ability to learn good live sensor data values during idle, KEKO, acceleration, deceleration, part load and heavy load on each vehicle comes into your shop and records them for future reference.
- Comparison Mode If that vehicle comes in is with a problem, you can easily compare the faulty sensor and parameter readings to the good readings, and you will be alarmed when a faulty sensor reading is detected.

### NOTE

- Study and Comparison modes are available for viewing of parameter readings in text mode ONLY.
- In case no learned value is stored in the scan tool, the Comparison Mode will not be available.
- To view all live PID data:
- 1. Press **Live Data** from Select Diagnostic Function menu to display the live data menu.

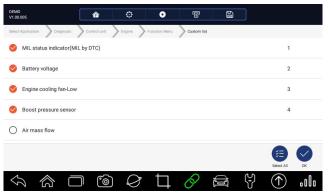


Figure 4-33 Sample Live Data Selection Screen

2.Press **All Data** from the menu to display the data stream screen. All readings will be displayed in text format by default.

DEMO V1.00.005		兪	¢	0	T	6		
Select Application	Function Menu	Fault Codes	i.					
ID	Status		Desc					
P0030	Active		H02S heate	r control circu	it bank 1 sens	sor 1		
P2096	History		Post catalys	st fuel trim sys	tem too lean t	oank 1		
P0130	Active		O2 sensor c	ircuit bank 1 s	ensor 1			
P0616	History		Starter relay	circuit low				
<u> </u>							Freeze Frame Pelp Info	Save
$\mathcal{O}$		١	$\Diamond$	Þ	Ø		\} (€)	•00o

Figure 4-34 Sample Complete List Screen

3. Swipe the screen up and down or use the **PAGE UP** and **PAGE DOWN** button to view additional information when necessary.

DEMO V1.00.005		Ē	6	
Select Applica	ation Diagnosis Control unit Engine Function Manu	u Custom list U	ive data	
	None	None		*
Text	Name MIL status indicator(MIL by DTC)	Reference	Value	Unit
	Battery voltage		12.4	v
Graphical	Engine cooling fan-Low		ON	
	Boost pressure sensor		3019	hPa
		Help Info	History Record Save	
$\mathcal{D}$		0		000

Figure 4-35 Sample Live Data Screen

- 4. To move a data line to the top of Data List screen, just tap the line to select and then press the button **To Top**. To record live data to memory of the scanner for offline review, just tab the button **Record**, and press **Stop** to stop recording at any time. To print the data through computer, tap the **Print** icon.
- 5.To view live PID in graph format, press the tab **Graph**, and 4 PID plots display. To view another PID plot, tab the name of a plot and a list of available PIDs display. Select one from the dropdown box and the plot changes to the newly selected PID. To view the plots with more details, use the **Zoom in** button; instead, use the **Zoom out** button.



Figure 4-36 Sample PID Graph Screen

6. To see how the PIDs affect each other, press the **Graph Merge** tab to merge them into one coordinate for easy and intuitive diagnosis.



Figure 4-37 Sample Graph Merge Screen

### 4.3.5.2 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.

To create a custom data list:

1. Press **Custom List** from the menu to display all available parameters from the selected control module.

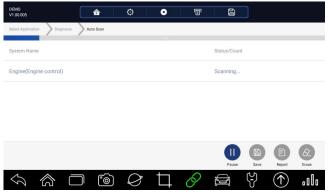


Figure 4-39 Sample Live Data Screen

2. The custom data stream selection screen displays. Tap the lines you wish to select.



#### NOTE

To deselect an item, tap the line again. Alternatively, tap **SELECT ALL** or **CLEAR ALL** to select or deselect all items at once.

3. Press the **OK** button to complete the selection, and all selected parameters display.

DEMO V1.00.005		Î	6	
Select Applica	ation Diagnosis Control unit Engine Function Mer	1u Custom list 🔪	Live data	
E	None	None		
Text	Name	Reference	Value	Unit
	MIL status indicator(MIL by DTC)		OFF	
	Battery voltage		12.4	V
Graphical	Engine cooling fan-Low		ON	
	Boost pressure sensor		2992	hPa
		Help Info	History Record	Save Dause
$\mathcal{D}$		. 0 🗄		↑ <b>₀</b> 000

Figure 4-41 Sample Live Data Screen

# **5 Bi-directional Test Operations**

i70 allows you to use the scan tool temporarily to activate or control a vehicle system or component. With i70, the check of electronic components such as switches, sensors, relays, & actuators is made a simple task. It allows you to recalibrate, adapt or configure certain components after making repairs or replacement. It gives you the ability to 'flash' a control unit with new program data. Provided that a module can be re-coded, i70 allows for the coding and programming of a replacement control module or changing previously stored incorrect coding as expensive factory tools do. In addition, it lets you recode the transponder in a mechanical key or key fob. When a key for a modern vehicle is replaced, the new unit will often turn the mechanical switch but fail to initialize the system or start the vehicle. If this occurs, it is typically because the transponder inside the key has not been coded to that particular system.

## 5.1 Active Tests

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.

Some tests display a command to the operator. For example, if "Press Brake Pedal" displays, the operator has to press and hold the brake pedal and then continue. The sequence, number, and type of tests are dictated by the control module.

On some systems, the actuator tests cannot be restarted until the ignition key is switched off for some time. Alternatively, briefly start and run the engine, shut down, turn the ignition to the run position, then re-initiate the actuator tests.

#### IMPORTANT

The tests activate a component, but they do not check if the component is working correctly. Make sure the components to be tested are in good condition and correctly mounted.

#### NOTE

Available tests depend on the control module under test and the vehicle itself.

#### To start a test:

1. Press Active Test from the menu and a list of available options displays.

DEMO V1.00.005	合	Ō	•	1	6		
Select Application Function Men	Ē						
Read codes							
Erase codes							
Live data							
Active test							
ECU information							
Special function							
	) (O	Q	Ħ	0		ζ J	 . O O o

Figure 5-1 Sample Active Test Screen

2. Select an option to start the test and live data of the selected test displays.

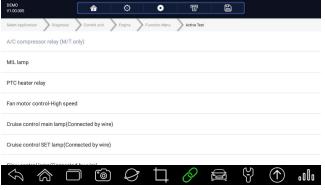


Figure 5-2 Sample Active Test Screen

- 3.Follow on-screen instructions to make proper selections and operations to complete the tests.
- 4. To exit the test, tap the **Back** button or the **Close** button at the top right of the screen.

- Before running any tests, always observe the safety instructions provided in this manual and the warnings provided by the vehicle manufacturer. In addition, follow any warnings and descriptions provided on the scanner screens.
- Never run the tests while the vehicle is moving.

## 5.2 Adaptation

Adaptation menu 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.

#### 

You should refer to the Service Manual for your particular car before attempting to use the Adaptation function.

- To set an adaptation:
  - 1. Select Adaptation from Function Menu and press the ENTER key.
  - 2. Follow on-screen instructions to make proper selections and operations to complete the tests.
  - 3. To exit the test, tap the **Close** button at the top right of the screen.

### 5.3 Coding and Programming

i70 allows for the coding and programming of a replacement control module or changing previously stored incorrect coding.

Coding also known as Teach-in Program or Component Adaptation. It is the process of selecting and activating one program for a specific vehicle from a set of programs that the factory installed in the control module. This allows one control module to be used for different models, countries, and emission applications.

Programming is the process of taking a blank control module and then adding the correct vehicle program to memory.

# **6** Service and Maintenance Operations

This section gives brief instructions of the most commonly required service and maintenance operations. Typical service operation screens are a series of menu driven executive commands. Follow on-screen instructions to complete the operation.

Available service and maintenance options include:

- Oil Light Reset
- EPB Service
- TPMS Programming Service

- ABS/SRS Services
- SAS Calibration
- DPF Regeneration

## 6.1 Oil Light Reset

Oil Light Reset menu allows you to reset the service lamps on the instrument cluster. The Service Indicator System is designed to alert the driver when the vehicle is due for a service.

Oil service reset methods are determined by the vehicle being tested. Depending on the vehicle being tested, any of the following means displays:

- Oil Reset With One Button
- Manual Reset
- Auto Reset

### 6.1.1 Oil Reset With One Button

Oil Reset With One Button is applicable to GM models only. It offers quick and simple oil service reset with the click of one button.

- ▶ To do Oil Reset With One Button on a year 2010 Chevrolet passenger car model:
  - 1.Scroll with up and down arrow keys to highlight Oil Life Reset from the Engine Control Module menu. An Information screen displays. Press the function key OK to continue or Cancel key to return to the Oil Reset menu.
  - 2.Follow on-screen instruction and send a command to reset oil service. A screen with "Success" message displays once the lamp has been reset. Press any key to return.

### 6.1.2 Manual Reset

Almost all Asian vehicles and most American and European vehicles have mechanical oil service indicator reset. The service tool does not have to communicate with the vehicle being tested, but guides you to complete the service manually by providing step-by-step on-screen instructions.

When Manual Reset is selected and the vehicle being tested identified, a procedure opens on the screen. Scroll with arrow keys to read the entire procedure and performing the necessary steps as directed by the on-screen instructions. The exact order of the test operation steps may vary depending on the test vehicle. Be sure to follow all on-screen instructions.

This manual reset procedure can be interrupted and aborted if the ignition key position is changed.

To do oil reset manually:

- 1.Enter vehicle information by certain VIN characters, such as model, and year to identify the vehicle being tested and press **OK** key to confirm. Select Engine Control Module and follow the on-screen menu to select Oil Life Reset.
- 2. When Oil Life Reset is selected, a procedure screen displays.
- 3. Follow all on-screen instructions to perform the manual mechanical reset.
- 4.Press **OK** key to return.

### 6.1.3 Auto Reset

Auto Reset is a bi-directional communication procedure directed by the service tool. The service tool displays guides for you through the process. A number of instructions that require a response to continue display, including an option to clear any stored codes once the interval has been reset. Follow the on-screen instructions.

## 6.2 Electronic Parking Brake (EPB) Service

EPB Service menu allows you to perform the service and maintenance of brake systems, including deactivation and activation of the brake control system, bleeding brake fluid, opening and closing brake pads, and setting brakes after disc or pad replacement, on multiple brands of vehicles where electronic brake systems are fitted.

Some tests display a command to the operator. For example, if "Pressing Brake Pedal" displays, the operator has to press and hold the brake pedal and then continue. Actual tests vary by vehicle manufacturer, year, make.

Typical special test options include:

- Deactivate/Activate SBC/EPB systems allows to deactivate brakes for further service or maintenance work on brake systems or activate brakes when service or maintenance work on brake systems are completed.
- Adaptation on Audi A8 allows to set new pad thickness of rear brakes calipers after changing brake discs & pads on Audi A8 models.
- Replace hydraulic brake systems fluid/bleed brake system on Mercedes SBC vehicles – allows to change brake fluid/bleed brake system.
- Perform service reset and service position on BMW EPB vehicles allows to do the CBS reset and CBS correction for front brake and rear brake.

- **Perform activation/service work on Volvo PBM vehicles** allows to perform installation check, applying parking brake, releasing parking brake, activating service mode and exiting service mode.
- Reset memory on Toyota EPB vehicles allows to clear the learned memory of the EPB ECU.
- Perform brake cable replacement and electric parking brake replacement allows to fit in or remove the brake cable safely, adjust brake cable's tension and calibrate the electric parking brake replacement.
- Save and write clutch pedal programming on Renault EPB vehicles allows to save clutch pedal programming on Renault vehicles fitted with manual gearbox. After this command is activated, the tool allows to "flash" the electric parking brake unit with the saved clutch data.
- Perform control function and reset function on Opel EPB vehicles allows to apply/release park brake cable service, provide park brake cable service replacement procedures and calibrate the parking brake systems after brake service.
- Sensor calibration on Honda EPB vehicles allows to program the current output value of each sensor into the electric parking brake unit.
- Provides parking brake unjam procedure and perform longitudinal accelerometer calibration on Land Rover EPB vehicles – allows to drive the electronic park brake so it is unjamed in the releasing direction and then drive it into mounting position or the latching position; also allows to perform longitudinal accelerometer calibration.

#### 

- EPB systems must be deactivated before carrying out any maintenance/service work on the brakes such as changing of pads, discs and calipers.
- Use proper tools to avoid the risk of body injuries of mechanics and technicians and damage to the brake system.
- Make sure the vehicle is properly blocked after deactivation of the systems.

# 6.3 Tire Pressure Monitoring System (TPMS)

## Programming

TPMS Service menu allows you to check the tire sensor IDs from the vehicle ECU and to perform TPMS programming and reset after tires and/or TPM sensors are replaced and/or tires are rotated.

## 6.4 ABS/Airbag Services

ABS/Airbag Services menu let you use the scanner temporarily to activate or control anti-lock brake systems and air bags or components.

Typical test options include:

- ABS Manual Control Tests–allows to manually control the actuators in order to test ABS motors, solenoids, solenoid enable relays, EMBs, and more.
- ABS Motor Test-allows to manually control the ABS pump motor.
- ABS Version Test-displays the name of the brake system and the ABS controller version number, software ID, and sequence value.
- Actuator Tests–allows to manually control the actuators in order to test AYC valves, inlet valves, outlet valves, pump motors, and TRACS valves.
- Autobleed Test, Automated Bleed, or Service Bleed–removes air from the internal brake fluid chambers after servicing the brakes.

## 6.5 Steering Angle Sensor (SAS) Calibration

SAS Calibration menu let you perform calibration of the Steering Angle Sensor, which permanently stores the current steering wheel position as straight-ahead in the sensor EEPROM. On successful calibration of the sensor, its fault memory is automatically cleared.

## 6.6 Diesel Particulate Filter (DPF) Regeneration

DPF Regeneration menu let you perform the DPF cleaning to clear the blockage through continuous burning of the particulates captured in the DPF filter. When a DPF regeneration cycle is completed, the DPF light automatically goes off.

## 7 Data Manager

Data Manager menu let you review stored screenshots and playback recorded live data.

Typical menu options include:

- Image
- PDF
- Data Playback
- Data Record

	Data Manager	
	Image	>
Ł	PDF	>
	Data Playback	>
ľ	Data Record	>



Figure 7-1 Sample Data Management Screen

### 7.1 Browse Picture

Browse Picture option leads to screens for review of stored screenshots. In case a failure of the i70 applications occurs, please just take a screenshot and send it to our team to help with the troubleshooting of system faults.

### 7.1.1 How to Take a Screenshot

- To take a screenshot:
  - 1. If need save the data quickly, just press the **Camera** button at the title bar of the screen to take capture for later analysis.
  - 2.Add a description of the screenshot, and press the **OK** button to save.

### 7.1.2 Review Screenshot

- To review the screenshot:
  - 1. Press the **Data Management** icon from the Home screen of i70 diagnostic application.
  - 2.Press **Browse Picture** and all available pictures will be displayed as slideshow automatically.

Data Manager	
Image	>
PDF	>
Data Playback	>
Data Record	>



Figure 7-3 Sample Browse Picture Screen

- 3.To stop the slideshow playing, just press the **Pause** button. Use **Next** or **Previous** button to review the pictures one by one.
- 4.To delete a picture, tap button **Delete** and answer **Yes** to delete. Or press **Delete All** to delete all the pictures.

## 7.2 Playback Data

The Playback option leads to screens for review of recorded live data. Playing back a recording is just like using the scan tool on a live vehicle. It let you review live data in text, graph and graph merging format. Playback speed and direction (forward or reverse) can also be controlled.

#### To review recorded live data:

- 1. Press the **Data Management** icon from the Home screen of i70 diagnostic application.
- 2. Press **Playback** and all available records display.
- 3. Tap a record once and press the **OK** button or tap the record twice to review. All recorded parameters display in text format by default.

Figure 7-5 Sample Data Stream Playback Screen

- 4. To view parameter graphs, press the **Graph** tab. And to merge the graphs, press the tab **Graph Merging**.
- 5. To move forward or reverse back of the playing, just drag the progress bar forward or reverse. To stop the playing of live data, press the **Pause** button.
- 6. To exit playback, press the **Back** button.

7. To delete a record, tap a record to select and then press the **Delete** button. Answer **Yes** to delete or answer **No** to guit.

## 7.3 Data Logging & Stored Data Management

Data Logging is a tool to record the communication data between the scanner and the vehicle under test to help with troubleshooting of diagnostic failures. The logs will be saved to the tablet and sent to our server via internet.The logging icon 💽 displays on the upper right side of the diagnostic screen whenever the scanner builds communication with the vehicle.

To use Data Logging, the procedures is as below:

1. Click the data logging icon to start record the communication data between the tablet and the vehicle.

2. Please re-click the data logging icon when the data record is finished.

3. Fill in the information showing on the screen.

4.Click OK icon to upload the data to our server.

5.If failing to upload the data due to without network, please select Stored Data Management from Data Management and click the Upload button to send them to our server again when the network available.

After uploading a piece of record successfully, please send an e-mail to support@foxwelltech.com or submit a support ticket on our website with the serial number of your i70, the date the record is uploaded. and a brief description of the problem you have.We will get back to you with a solution.

# 8 Print Operations

The print functions of i70 enables the technicians printing the data and information conveniently for later analysis and diagnostic.

To print the data, the procedures as following:

1.Go to the detailed data page, there is a print icon on the left bottom side.

2.Click Print icon and choose the corresponding printer if connected with printer.

3.If not connected, save the file on your desk and print it out later.

4.Besides, you can click Save icon and review the data on **Playback** of **Data Management**.

# 9 Remote Control

Remote Control enables you to start TeamViewer for remote control when you need any supports from Foxwell support team.

If you need Foxwell support team to remote control i70, please do as follow:

1.Click the Remote Control icon on the main menu of i70 to start TeamViewer.

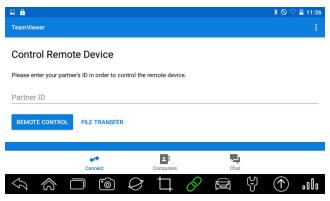


Figure 10-1 Sample Remote Control Screen

2.Send your ID and password to us to let our team to take control your tablet.

# **10 Setting**

This section illustrates how to program the scanner to meet your specific needs.

When Setting application is selected, a menu with available service options displays. Menu options typically include:

- Language
- Display Mode
- Unit
- User Information
- Reset Setting

				ļ	_anguage	9		
0	中文简体							
0	中文繁體							
	Deutsch							
<b>▲</b> ► ▼ ►	English							$\checkmark$
0	Français							
	Magyar							
0	Lingua italia	na						
$\mathcal{L}$	$\Diamond$	$\square$	ීම	Ø	þ	Ø	(L)	 .o0o

Figure 11-1 Sample Setting Screen

## 10.1 Language

Select Language opens a screen that allows you to choose system language. The scan tool is set to display English menus by default.

- To configure system language:
  - 1. Press the **Setting** icon from the Home screen of i70 diagnostic application and select Language. Then all available language options display.
  - 2. Select your local language.

#### NOTE

The language need our authorization except for default language -English. If you need another language, please contact us for authorization.

## 10.2 Change Display Mode

Selecting Display Mode opens a screen that allows you to toggle the display mode between full-screen view and display with Android tool bar. The scan tool is set to display with full-screen view by default.We suggest you set Display Mode as Show taskbar.

#### To configure display mode:

- 1. Press the **Setting** icon from the Home screen of i70 diagnostic application.
- 2. Press **Display Mode** and available modes display.
- 3.Select a display mode.

## 10.3 Change Units

Selecting Unit opens a dialog box that allows you to choose between British customary or metric units of measure.

- To change the unit setup:
  - 1. Press the Setting icon from the Home screen of i70 diagnostic application.
  - 2. Press Unit and available unit system display.
  - 3.Select a unit system.

# 10.4 User Information

Selecting User Information option opens a screen to input and manage your workshop information. Your workshop information will be displayed on your test reports that are presented to your customers.

- To input your workshop information:
  - 1. Press the Setting icon from the Home screen of i70 diagnostic application.
  - 2.Select User Information option.
  - 3. Input your workshop name, phone and fax number and email address with the keypad.

# 10.5 Reset Setting

Selecting Reset Setting option lets you to reset your scan tool to factory defaults. This option will also clear the workshop information.

- ► To reset your scan tool to factory defaults:
  - 1. Press the Setting icon from the Home screen of i70 diagnostic application.
  - 2.Select Reset Setting option.
  - 3. Press the **Reset** button. The scan tool reboots automatically and the reset is completed.

# 11 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.

To view information of your scan tool:

1. Press the **About** icon from the Home screen of i70 diagnostic application.

2.A screen with detailed information of the scanner displays.

		А	bout Us					
Hardware Version								v1.03
Software Version							V1	.02.009
Serial Number							N80001M	003315
Login Password								365854
Activation Date							Oct 25 2018 1	3:57:48
	Copyright© 201	8 Foxwell Te	chnology (	Co., Ltd. Al	l rights rese	rved.		
$\langle \gamma \rangle$	<b>)</b>	$\Diamond$	Ц	$\partial$		(j)	$(\uparrow)$	٥O٥

Figure 12-1 Sample Tool Information Screen

3. Press the **Back** button to exit.

# 12 Registration and Update

The scanner can be updated to keep you stay current with the latest development of diagnosis. This section illustrates how to register and update your scan tool. You can register both on Foxwell website or by the update client Foxscanner.

- To update your scanner, please follow the three steps here below:
  - 1.Obtain a FOXWELL ID.

2. Register the product with the product serial number and product password.

3. Update the product by the update application FoxScanner.

To be able to use FoxScanner, PC or laptop must meet the following minimum requirements:

- Operation System: Win98/NT, Win ME, Win2000, Win XP, VISTA and Android 7 and Android 8.
- CPU: Intel PIII or better
- RAM: 64MB or better
- Hard Disk Space: 30MB or better
- Display: 800\*600 pixel, 16 byte true color display or better
- Internet Explorer 4.0 or newer

#### NOTE

Before registration and updating, please make sure your network works correctly.

# 12.1 Create a Foxwell ID

If you are new to FOXWELL, please register with FOXWELL and obtain a FOXWELL ID first. There are two methods to register an ID.

• Register with the built-in update client Foxscanner on i70

• Register through our website. Please click the URL below: http://www.foxwelltech.com/register/step\_two.html

### 12.1.1 Register with Built-in Update Client FoxScanner

You are allowed to register and create a Foxwell ID with the built-in update client FoxScanner.

To register with FoxScanner:

1. Press the **Update** icon from the Home screen of i70 diagnostic application, and the update client starts up automatically.

只 User Name		
Sign In Register		
Remember Me Forget password	$(\uparrow)$	o 0 0 o

Figure 14-1 Sample FoxScanner Main Screen

2. Click **Register** button, a Register window will pop up.

	Register	
User Name*	User Name	
Password*	Password	
Confirm Password*	Confirm Password	
First Name*	First Name	
Last Name	Last Name	
Email*	Email	
Telephone*	Telephone	
		.o0o

Figure 14-2 Sample Register Screen

3.Create a unique user ID and password, complete the following registration form and click **Register** to confirm.

egister		
* User Name	Susan	(Less than 30 characters )
* Password	•••••	(6-16 characters)
* Confirm Password	••••	( The passwords must match. )
* First Name	Susan	
Middle Name		
* Last Name	Green	
* Email	sales2@foxwelltech.com	
* Telephone	8675526697229	( Numbers only )
Address		
* Country	CHINA	
State/Province	GUANGDONG	
City	SHENZHEN	
Zip Code	51800	
	By creating an account, you agree to Foxwell's of	conditions of use and privacy notice.
	Register	Reset
	rogistor -	10301

Figure14-3 Sample Register Screen

4.A **Registration Done** message will appear if you registered successfully, and an email will be sent to your registered email address containing a link with which you can activate the Foxwell ID. Please log in your email and activate the account.

Register					×
* User Name	Susan			(Less than 30 characters)	
* Password	•••••			( 6-16 characters )	
* Confirm Password	•••••			( The passwords must match. )	
* First Name	Susan				
Middle Name		FoxScanner	r 🖉	< I	
* Last Name	Green				
* Email	sales2@foxw		Registration Done!		
* Telephone	8675526697		ingiona da la concer	(Numbers only)	
Address			~		
* Country	CHINA		确定		
State/Province	GUANGDON				
City	SHENZHEN				
Zip Code	51800				
		n <mark>account, yo</mark> Register	ou agree to Foxwell's condit	ions of use and privacy notice.	

Figure 14-4 Sample Registration Done Screen

5. Click **OK**. It skips to the log in page automatically. You can input your Foxwell ID and password to sign in.

	Q User Name	
	Sign In	
	Register	
	Venieniueniwe Polgei passworu	
$\langle \rangle$		d 🖓 🏠 d

Figure 14-5 Sample Log in Screen

### 12.1.2 Register through Website

- To register through our website:
  - 1.To create a Foxwell ID and register your scan tool
  - a. Visit our site <u>www.foxwelltech.com</u> and then select Support>Register.

FOXWE	📙 🖪 🔚 🖓 🖓 Vordaice   Regiser   Sign in
Product Sup	ort News Center Distributor About Us Contact Us
Register	HOME >Support > FAQ +How to update NT6XX, NT5XX and NT4XX series scanners?
FAQ	Why can't register my scanner?
Update	Why Can X register my scaline :     How to update code reader NT301 or TPMS Tripper Tool NT1001 ?
Support Ticket	+ Jow to opdate doct reader if you if you higger routin hou is     +     + How to update NT600NT300NT405 which may not be found at our website any longer?
Warranty	How to find my Foxwell ID?
Training	> + How to find my password?
	How to find the software version number?
	* Why can't I find AU Ford, Holden or Brazilian GM from Automaster Pro series Scanners?

Figure 14-6 Sample Support Screen

b. Click **Register** link at the top right of the website or at the lower side of home page.



Figure 14-7 Sample Register Screen

2.Create a unique user ID and password, complete the following registration form and then click Submit to confirm. When your ID has been created, you are allowed to view all programs associated with your tool, download updates, edit your profile, submit feedback and join our community to share your ideas and your stories about our products.

	Fill in your personal information	
*Foxwell ID	Forwellsupport	Please create a unique user name as your Foxwell ID. Your phone number or email address is recommended.
*Password	[]	The password must include 6-16 numbers (0-9) and letters. Use upper and lower case letters (A-
*Confirm Password		Z, a-z) or symbols (?-1@#) if you want to make it more secure.
*First Name	foxwell	
Middle Name		
"Last Name	aupport	
*Email	helen.ou@foxwelltech.com	This email is used to retrieve your password in case you forgot it. Please make sure the email
*Phone	86-755-26697229	you entered works correctly.
Company		
Address 1		
Address 2		
City		
State/Province		
*Country	china	
Zip Code		
*Captcha	02V6 Click image to refresh	
	By creating an account, you agree to Foxwell's Conditions of Use and Privacy Notice.	
	Submit Reset	

Figure 14-8 Sample Registration Form Screen

#### IMPORTANT

Please always remember your FOXWELL ID and Password as it's important for you to manager your product and updates.

3.A **Submit OK** message will appear if you registered successfully and an email will be sent to your registered email address containing a link with which you can activate the Foxwell ID. Please log in your email and activate the account.

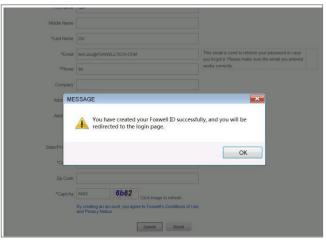


Figure 14-9 Sample Successful Registration Screen

#### IMPORTANT

Before activating and confirming your email address by clicking the activation link in your email, your account will still be invalid and you are not be allowed to sign in.

4. The registration page will be bypassed, skipping to the log in page. Just input your FOXWELL ID/email address and Password to sign in.

= <b>0</b> X\	<b>VELL</b>				F	E	in	You Tabe	SP.	Worldwide	Register	Sign i
Product	Support	News Center	Distributor	About Us	Contact Us							٩
Welcome to	Foxwell											
User Name		r ID and/or password		iputer)		Let			foxwe It's eas	all? and free.		

Figure 14-10 Sample Sign in Screen

5. When log in successfully, the **Member Center** will show as below. This platform enables you to review the registered products, register new products, modify personal information or reset the password.

My Products	Member Cent	er		Exit
E Registered Products				
New Registration	Dear ygq78120 IP of Last Login : 1	188@163.com , Welco 183.15.238.103	IP of This Login : 113.87.51.38	
My Message		0:51:12 07/02/2015		
💷 My Messages	Account Overvie	ew		
🗉 Support Tickets				
My Orders	Open Orders : 1P	iece	Unread Messages : <b>OPiece</b>	
II Orders	Update News			
My Profile	N Product	Number	Available Updates	
Personal Information	o.		Therefore openates	
E Reset Password	1 NT500	1	Details	
	2 NT624	1	Details	
	3 NT401	1	Details	
	4 NT644	6	Details	
	5 GT80	4	Details	
	6 NT414	1	Details	
	7 VS500	1	Details	

Figure 14-11 Sample Member Center Screen

6.If you forget your register ID or password, just click **Sign in** at the top right of the website, then click **Forgot your user ID and/or password**? . You are required to either input the serial number and register password or your registered email address. Then our system will send a password reset link to your registered email address.

orget Password			
*Registered email or serial number *Register Password		0	
	Submit Cancel		

Figure 14-12 Sample Password Retrieval Screen

7.Please log in your email and click the link to go to the following **Reset Password** page. Input your new password and submit it. Now you are able to log in with your ID and the new password. If you want to change the password, please sign in with your user name and password, then select **My Profile/Reset Password**.

Product	Support	News Center	Distributor	About Us	Contact Us		e   Register   Sign in Q
Reset Passwo	ord						
	Vew Password firm Password		5	ubmit Can	cel		

Figure 14-13 Sample Password Retrieval Screen

#### NOTE

If the user name is different with the email you filled when registering, please input the registered email to find your password back, but not user name.

*Foxwell ID	ໝາຍເພີ່ມພິລາາລ່າ com	Please create a unique user name as your Foxwell ID. Your phone number or email address is recommended
*Password		The password nust include 6-16 numbers (0-9)
Confirm Password		a-z) or symbols (?-!@#) if you want to make it more secure.
*First Name	fax	
Middle Name		
*Last Name	support	
*Email	foxwell@foxwelltech.com	This email is used to retrieve your password in case you forgot it. Please make sure the email you
*Phone	88-755-28697229	entered works correctly.

Figure 14-14 Sample Different Email Address

### 12.2 Register Your Scanner

To register a scanner, you can either register on <u>www.foxwelltech.com</u> or by the built-in update client FoxScanner. Before registering your scanner, please make sure you have already created your Foxwell ID.

### 12.2.1 Register Through Website

1.Visit our website <u>www.foxwelltech.com</u> and click **Sign in** at the top right corner of home page. Input your FOXWELL ID/registered email and password to sign in.

FOX	WELL		f	E	in	You Tube	Worldwide	Register   Sign in		
Product	Support	News Center	Distributor	About Us	Contact Us					٩
Welcome to	Foxwell									
User Name		r ID and/or password		puter)		Let's		v to foxv rted! It's e	vell? asy and free. Registe	_

#### Figure 14-15 Sample Log in Screen

2. When log in successfully, the Member Center will show as below.

My Products	Mei	mber Center				Exit
IE Registered Products						
IE New Registration		lan , Welcome I ast Login : 113.91.23	8.41	IP of This Login	: 113.91.52.164	
My Message	Regist	er Date : 16:52:17 24	/12/2014	Date of Last Lo	gin : 16:52:17 24/12/2014	
I≣ My Messages	Acco	ount Overview				
II Support Tickets						
My Orders	Open	Orders : 3Pieces		Unread Messag	es : OPiece	
II All Orders	Regi	stration				
My Profile	No.	Product	Language	Register Date	Expire Date	
IE Personal Information	1	NT614	EN	17:27:09 24/12/2014	17:27:09 24/06/2016	
III Reset Password		Available Updates:	GM Ford OS-5	OFTWARE LandRover Jaguar Acura	Honda Hyundai OPEL Infiniti	
	2	NT614	EN	18:20:37 24/12/2014	18:20:37 24/06/2016	
		Available Updates:	GM Ford OS-5	OFTWARE LandRover Jaguar Acura	Honda Hyundai OPEL Infiniti	
	3	NT500	EN	17:33:07 27/12/2014	17:33:07 27/06/2016	
		Available Updates:				

Figure 14-16 Sample Member Center Screen

3. To register a product, please click **My Products>New Registration**. Select the right part number, input serial number and password and click the **Submit** button to complete product registration.

My Products	Product Registra	tion	Back   Back To Menu
E Registered Products			
E New Registration	Part number :	NT620/NT621/NT622/NT623/NT624 🔻	
My Message	Serial Number :	NF21201004389	
∃ My Messages	Password :	00aa99	
E Support Tickets		000053	
My Orders			
All Orders		Submit	
My Profile			
E Personal Information			
III Reset Password			

Figure 14-17 Sample New Product Registration Screen

#### NOTE

To check the serial number and password of i70, please select **About** on the i70 main menu.

### 12.2.2 Register With Built-in Update Client FoxScanner

- To register with FoxScanner:
  - 1. Press the **Update** icon from the Home screen of i70 diagnostic application, and the update client starts up automatically. Log in with your Foxwell ID/ registered email and password.



Figure 14-18 Sample Log In Screen

2.Please select Register Products to register it. Select the right part number input serial number and password to complete product registration.

	<b>(↑</b>					<b>_</b>
	My Upd	ates Re egistration	gister Products S/N Managemer	My Profile	Support Tickets	Print
			onnandgemen			
	Item	Part Number	Serial Number	Password		
	001	NT614	NF41401077063	aa00bb		
1	002	NT620	NA41402078034	ff22dd		
						Submit

Figure 14-19 Sample New Product Registration Screen

## 12.3 Update the Scanner

#### NOTE

- Before updating, please make sure your network works correctly.
- Before updating, please make sure you have already created a Foxwell ID.
- To update your scanner:
  - 1. Press the Update icon from the Home screen of i70 diagnostic application, and the update client starts up automatically. Log in with your Foxwell ID/ registered email and password.

FoxScanner V1.00		- ×
FoxScanner V1.00	Stay signed ir Forget password	- x

Figure 14-20 Sample Sign in FoxScanner Screen

2.Click My Updates-> Available Updates and all updates applicable to your scanner display.

Availab	le Updates	Software Manage	ment			
Se	elect SD Card K:\	-	1	Select Serial N	umber	-
1 Item	Software	Version	Language	Release Date	File Size	Current Status

Figure 14-21 Sample My Update Screen

3.Click the check box(s) in front of the software(s) you wish to update and then click the Update button to download.

Availal	ble Updates	Software Manag	ement			
Select SD Card K:\		-		Select Serial Nu	mber NF41406	6002748 <b>-</b>
✓ Item	Software	Version	Language		File Size	Current Status
001	ACURA	V5.10	CN/EN	2014-08-06		Updatable
002	FORD	V5.20	CN EN	2014-08-06		Updatable
/ 003	GM	V5.20	CN/EN	2014-08-06		Updatable
004	INFINITI	V5.10	CN/EN	2014-08-06		Updatable
/ 005	OPEL	V6.00	CN/EN	2014-08-06		Updatable
006	OS-SOFTWARE	V2.01	CNIEN	2014-08-01		Updatable

Figure 14-22 Sample Update Check Screen

4. When Update button is clicked, it begins to download. And you can check the Current Status. If the Current Status shows Downloading, please do not close the update application.

		III er Products		ofije	Support Tickets	Pint
	ole Updates	Software Manag				
S	elect SD Card K:\		•	Select Serial N	umber N441309	• 000090
☐ Item 001 7 002	Software ACURA CHRYSLER	Version V5.20 V5.20	EN EN EN	Release Date 19/12/2014 06/08/2014	File Size 6.45 KB 22.01 MB	Current Status Update Done! Downloading 1.0%
	g 2/2 cted issues of n	ot communi	icating w	ith 2010 MY	′ Jeep.	Stop downloading

Figure 14-23 Sample Updating Screen

5. When all the items are updated, an "Update Done!" message displays and the Available Update items will be blank.

My Upd Availat		Products Software Manag	My Pr ement	ome	Support Tickets	Print
Se	elect SD Card K:\		-	Select Serial N	umber N441309	• 000090
□ Item	Software	Version	Language	Release Date	File Size	Current Status
pdate Don						

Figure 14-24 Sample Update Completed Screen

6. Please click Software Management to review all the updated software.

_[₹							
My Up	ates Register Produ		My Profile	Supp	ort Tickets	Print	
Availa	ble Updates Softwa	are Manager	ment				
Item	Software	Version					
001		V5.20					
002	K:\Scan\Make\USA\Chry	V5.20					

Figure 14-25 Sample Software Management Screen

#### NOTE

If "Update Failed" dialog comes up, it indicates that the software updates failed. Please check your network connection or SD card. If the problem still exists, please contact <a href="mailto:support@foxwelltech.com">support@foxwelltech.com</a> or your local dealer for assistance.

7.To uninstall a software or all software select them and click the Uninstall button. And the uninstalled items can be found in the Updates screen.

FoxSca	nner V1.0	00		- ×
	Jates	Register Products	My Profile Support Tickets	Print
Availa	ble Updates	Software Manageme	nt	
Item     001	Software Honda	Version V5.20	twares were just uninstalled.	
			ОК	
Conscipt (a) 20	14 Ferrall Tesherile	or Co. 1td All rights received		Uninstall

Figure 14-26 Sample Software Uninstallation Screen

8. Please click **My Profile** to view your personal information. To modify your personal information, just type in the message box and click **Submit**. To help us provide better service, please make sure that the telephone, email and country are correctly entered.

FoxScanner V	/1.00 -	- ×
My Updates	Register Products My Frade Support Tickets Print	
* User Name	ygq7812088@163.com	
* Full Name	Micheal 390201532@qq.com	
* Email	390201532@qq.com	
* Telephone	8675526697229	
* Address	m 411, Area C, Block E&F, Huafeng Technology Park, Xinhu Road, Shenzhen 518100, China	
* Country	China	
* State/Province	Guangdong	
City	Shenzhen	
Zip Code	51800	
	Submit Reset	
Copyright (c) 2014 Forwell Te	chnology Co., Ltd. All rights reserved very formellite	ch.con

Figure 14-27 Sample My Profile Screen

9. Should you have any questions regarding the product, please click Support Tickets. Fill in all required information and click Submit to send us your issue.

FoxScanner V1.0	0	- ×
My Updates	Register Products My Profile Support Tickets	Print
* Subject	NT644 09 Audi A5 TFSi	
* Scanner	NT644	•
* Software		-
* Version	V5.2	
* VIN	WAUZZZ8T99A055468	
* Year	1999	
* Engine Size		
* Problem Description	When analysing direct via the System Menu - Cent Elec the NT500 freezes at 'Communicating with vehicle please wait'	
	Submit Reset	
Copyright (c) 2014 Forwell Technology	y Go., Ltd. All rights reserved	MAN. foxwelltech com

Figure 14-28 Sample Support Ticket Screen

#### FCC Statement

This device complies with Part 15 of the FCC rules. 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.

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 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.

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

#### FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.