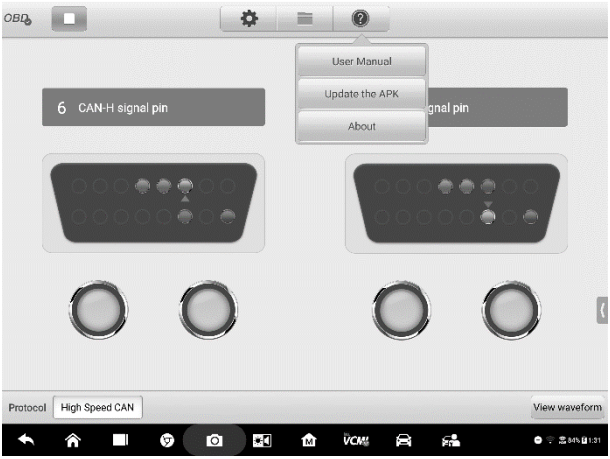

Figure 8-2 ***Sample Help Screen***

2. Tap **Update the APK** in the dropdown menu. A confirmation message displays.

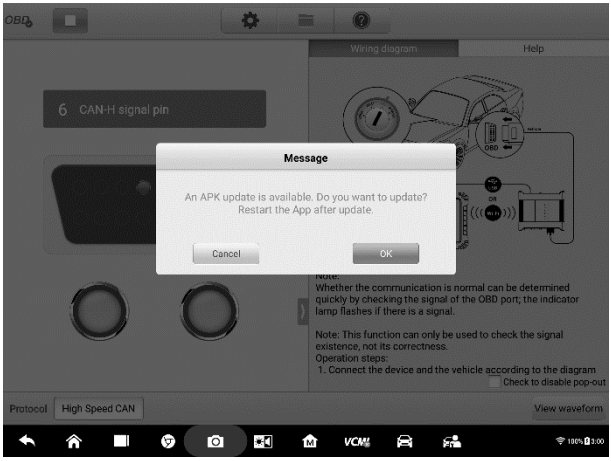

Figure 8-3 ***Sample Update Confirmation Screen***

3. Tap **OK** to update the software or tap **Cancel** to exit.

8.4.5 Screen Layout and Operations

The OBDII Communication Line Inspection application allows you to select the communication protocols, the signal pins and voltage value for testing.

Tap the **Measurement** icon on the home screen and select **OBD** in the menu, the OBDII Communication Line Inspection window displays. The screen typically includes the following button sections.

NOTE

The OBDII Communication Line Inspection application can also be opened via the Android home screen. Tap the **Measure** icon at the top of the Android home screen. Tap the **OBD** app icon.

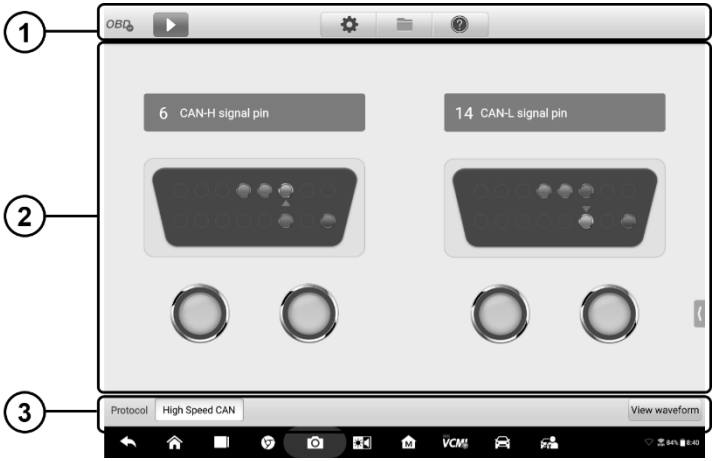

Figure 8-4 ***Sample OBD Communication Line Inspection Menu Screen***

1. Upper Toolbar Buttons - see *8.4.5.1 Upper Toolbar Button* on page 222 for details.

2. Main View Section – see *8.4.5.2 Main View Section and Lower Toolbar Buttons* on page 227 for details.

3. Lower Toolbar Buttons – see *8.4.5.2 Main View Section and Lower Toolbar Buttons* on page 227 for details.

8.4.5.1 Upper Toolbar Buttons

The upper toolbar buttons are used for configurations of various settings and operations. The following table provides brief descriptions of each button.

Table 8-1 *Upper Toolbar Buttons*

Name	Button	Description
OBD Icon		Displays the device connection status. See *OBD Button* on page 223 for more information.
Start/Stop		Start or stop the device. See *Start/Stop Button* on page 223 for more information.
Settings		Set the communication protocol manually. See *Settings Menu* on page 223 for more information.
File		Print, open and save the waveform data. See *File Menu* on page 226 for more information.
Help		View the user manual and update the software. See *Help Menu* on page 227 for more information.

OBD Button

This OBD button indicates the OBD device connection status. A green check mark means the VCMI and the tablet are connected; a red X means no connection has been established.

Start/Stop Button

You can tap the **Start/Stop Button** icon to start or stop the device.

Name	Button	Description
Start		Tap to start the device.
Stop		Tap to stop the device.

Settings Menu

Tap the gear-shaped icon in the top navigation bar to enter the **Settings Menu**.

The pin number for OBDII may be different for different vehicle modes. In Settings Menu, you can select OBDII connector's signal pins manually if the test vehicle's actual communication signal pins are assigned differently.

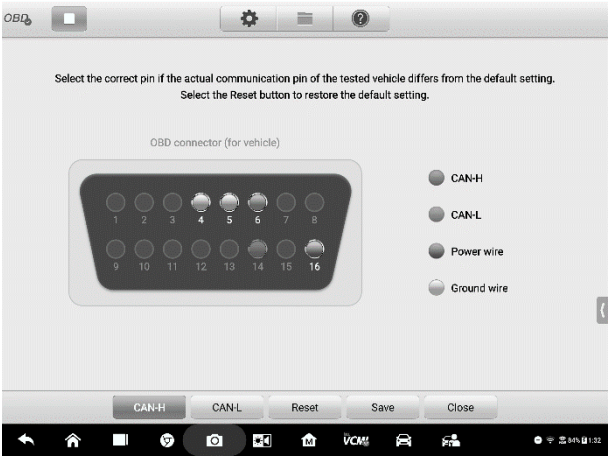

Figure 8-5 ***Sample Settings Menu Screen 1***

At the bottom of the settings menu screen, the **Protocol**, **Reset**, **Save** and **Close** buttons are displayed. The protocol varies according to the protocol you set.

Take CAN protocol as an example.

CAN-H: select the pin assigned for high speed CAN-bus communication line

CAN-L: select the pin assigned for low speed CAN-bus communication line

Reset: restore the default settings

Save: save the changes when custom pin assignment is set

Close: exit the settings menu screen

- **To select the signal pins manually**
  1. Tap the gear-shaped icon in the top navigation bar to enter the **Settings Menu**.
  2. Tap **CAN-H** or **CAN-L** to select the communication protocol.

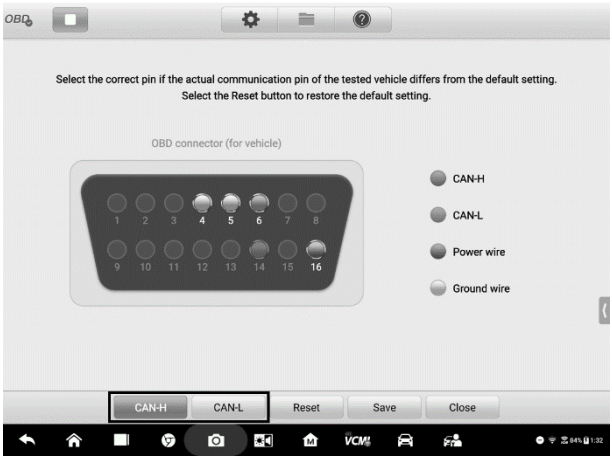

Figure 8-6 *Sample Settings Menu Screen 2*

3. Tap the correct pin number in the OBDII Connector Assignment image to match the test vehicle's actual communication signal pins.

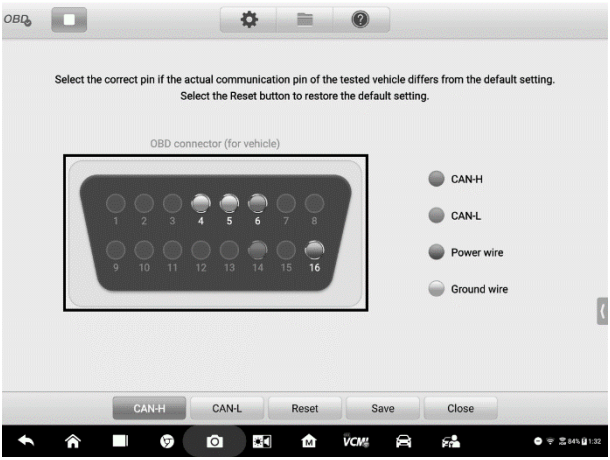

Figure 8-7 *Sample Settings Menu Screen 3*

4. Tap **Save** to save changes or tap **Close** to exit without saving.

File Menu

The **File** button allows you to print, open and save the waveform data. The **File Menu** is enabled in the **Waveform Mode** and supports the following functions.

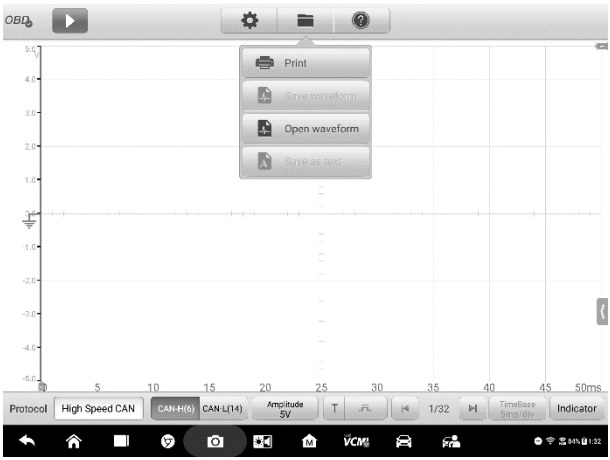

Figure 8-8 *Sample File Menu Screen*

- **Print –** Tap to create and print a temporary JPG picture of the current waveforms.

NOTE

Ensure the tablet is configure to print (see Printer setup instructions) and is connected to the printer. Ensure the tablet and printer share the same network.

- **Save Waveform** – Tap to capture and save the current waveforms. On the Save File screen, tap each item to input the corresponding information and then tap **Save** or **Save Default** to finish.

NOTE

A file name is required to save the waveform.

- **Open Waveform** – Tap to retrieve the saved waveforms. To select and/or delete the saved waveform, tap the **Edit** button in the upper right corner of the screen.
- **Save as text** – Tap to save the current waveform data to a text file. Use the ES File Explorer app on the Android home screen to review file: **Home > ES File Explorer > Local > Internal Storage > Scan > Data > Scope > txt.**

Help Menu

The Help Menu allows you to view the user manual, update the software, and view versions of the device.

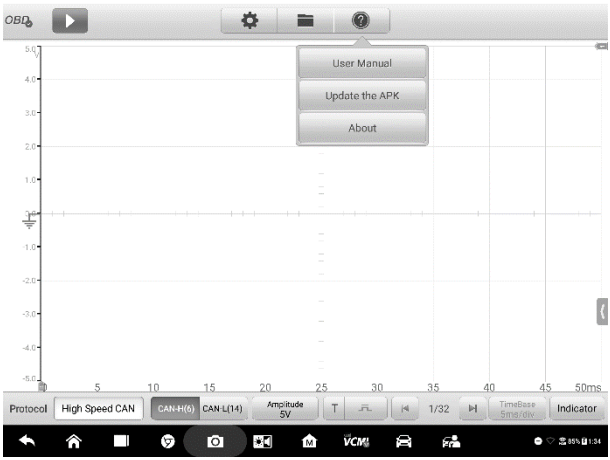

Figure 8-9 *Sample Help Menu Screen*

User Manual – displays instruction for the prosper use of the OBDII communication line inspection application and the Ultra tablet.

Update the APK – connects to the Autel server and check for latest application software.

About – displays the model number of the OBDII communication line inspection application and the installed versions of the software and firmware.

8.4.5.2 Main View Section and Lower Toolbar Buttons

Two modes are available in the OBD communication line inspection function: Indicator Mode and Waveform Mode.

Indicator Mode

This mode is designed to show the condition of voltage fluctuation in vehicle's communication lines. In this mode, the right and left indicator lights flash consecutively when the electronic control units are sending signals properly.

The Indicator Mode displays by default.

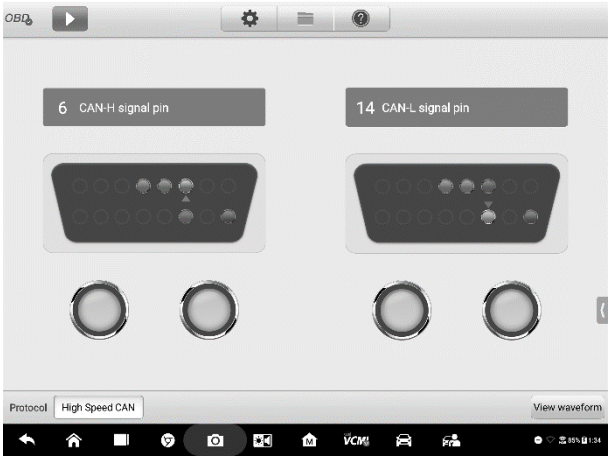

Figure 8-10 ***Sample Indicator Mode Screen***

Main View Section

The **CAN-High** line is assigned to **Pin 6** and the **CAN-Low** line is assigned to **Pin 14** of the OBDII adapter by default according to the **CAN-Bus** standard protocol.

If the test vehicle's actual communication signal pins are assigned differently, you can select OBDII connector's signal pins manually in the *Settings Menu*.

When the electronic control units send out signals properly, the left and right indicator lights will flash consecutively on the screen.

NOTE

The flashing indicator lights serve to confirm only that communication signals have been detected.

Lower Buttons

- **Protocol Button**

In the left lower corner of the screen, you can select the protocol you want to test.

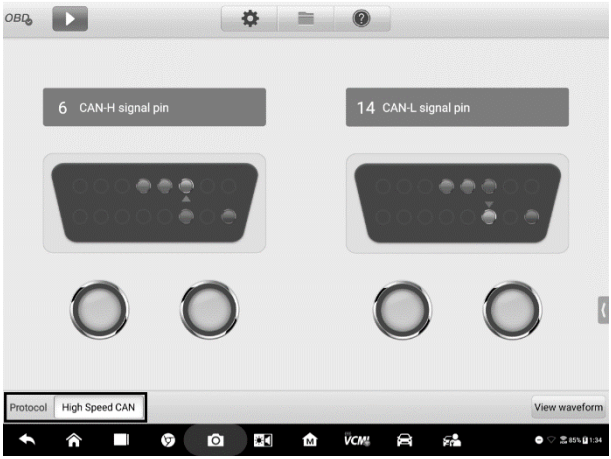

Figure 8-11 ***Sample Protocol Button Screen***

The following protocols are included:

- **High Speed CAN -** offers baud rates from 40 Kbit/s to 1 Mbit/sec, depending on cable length. This is the most popular standard for the physical layer, since it allows for simple cable connection between devices. High speed CAN networks are terminated with 120 ohm resistors on each end of the network.
- **Low Speed CAN -** offers baud rates from 40 Kbit/s to 125 Kbits/sec. This standard allows CAN bus communication to continue in case of a wiring failure on the CAN bus lines. In low speed CAN networks, each device has its own termination.
- **Single CAN -** offers baud rates up to 33.3 Kbit/s (up to 88.3 Kbit/s for high-speed mode)
- **J1939 CAN -** is used in the commercial vehicle area for communication throughout the vehicle with the physical layer defined in ISO 11898. Under J1939/11 and J1939/15, the data rate is specified as 250 Kbit/s, with J1939/14 specifying 500 Kbit/s.
- **J1850 (PWM) -** SAE J1850 pulse-width modulation offers baud rates up to 41.6 Kbit/s, standard of the Ford Motor Company
- **J1850 (VPW) -** SAE J1850 variable pulse width offers baud rates up to 10.4 Kbit/s, standard of the General Motors
- **J1708 (SAE) -** the standard defines a double-wire 18-gauge cable that can run up to 130 feet (40 m) and operates at 9600 bit/s

- **Waveform button**

In the right lower corner of the screen, you can enter to the Waveform Mode by tapping the **View Waveform** button.

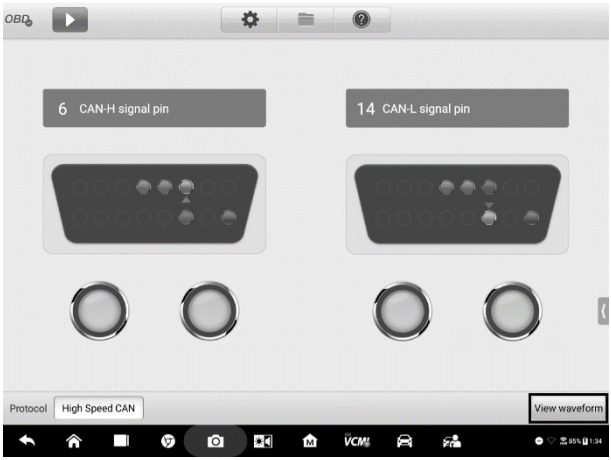

Figure 8-12 *Sample Indicator Button Screen*

Test Procedure

The test procedure is the same for all the protocols.

➢ **To test the communication line**

Using High speed CAN-bus line as an example.

1. Make sure the VCMI is connected to the vehicle's OBDII connector. The VCMI is connected with tablet successfully. Please refer to the *Connection Diagram*.
2. Place the ignition in the key ON position.
3. Select the **High Speed CAN** protocol in the lower corner of the screen.
4. The OBDII connector pin numbers that the signals are using are indicated and the indicator lights flash consecutively.

NOTE

If the indicator lights are not flashing, ensure the ignition is in the key on position and that signal pin assignment is correct.

Waveform Mode

This mode allows you to view the test result in a waveform form. This mode offers greater details and offers a larger number of configuration options.

The screen is displayed in the Indicator mode by default. Tap the **Waveform button** in the lower corner of the Indicator mode screen to switch to the Waveform Mode. The screen is shown as below.

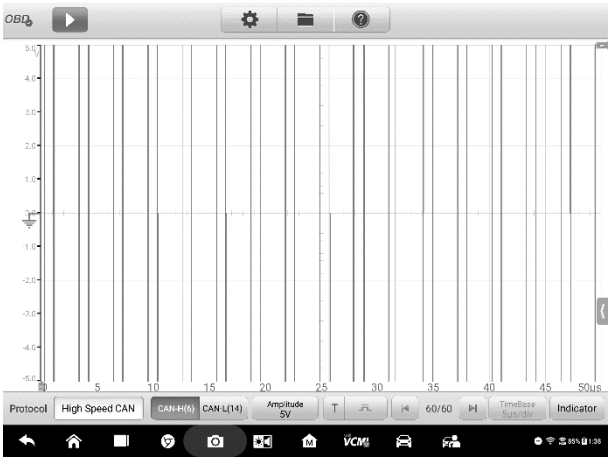

Figure 8-13 ***Sample Indicator Mode Screen***

Main View Section

The main view section features as a coordinate grid with **X-axis** and **Y-axis**, representing the time duration and voltage level respectively. The voltage level can be configured in the Amplitude Settings and the time duration can be set in the Time Base Settings.

Channel Selection

Each channel has two conditions: selected and unselected. Some operations depend on the selected condition of the channel, such as voltage rulers, waveform movements and waveform zooming.

- **To select and unselect the channel**
  1. Tap the zero baseline marker or the Y-axis (the line thickens when selected).
  2. Tap the zero baseline marker or the Y-axis again to exit the channel selection.

Waveform Zooming

The zooming function allows you to change the size and position of a signal during or after capturing a waveform to examine. It does not change the stored data, only the way it displays.

The X-axis and Y-axis can be zoomed using your fingertips. The waveform can be zoomed during or after capturing the signal.

Measurement Rulers

In the coordinate grid, there are two types of **measurement rulers**, which allow the voltage and time duration of a waveform to be measured precisely. They are useful when determining signal characteristics such as amplitude at specific points, the cycle time (duration) and frequency.

The vertical **Time Ruler** - Tap the **Ruler Activator** in the bottom left corner of the grid and drag it across the screen to the desired position. A **Time Ruler** is generated.

The horizontal **Voltage Ruler** - The **Voltage Ruler** can be generated in the similar way by clicking the **Ruler Activator** in the top right corner and dragging it downwards.

When Measurement Rulers are generated, a **Ruler Table** showing time and voltage values for the corresponding channels will be displayed. The **Delta** icon refers to the absolute difference between the values of the rulers, which can be locked by tapping the **Lock** icon. Tap the **X** button in the upper right corner of the ruler table to delete all rulers.

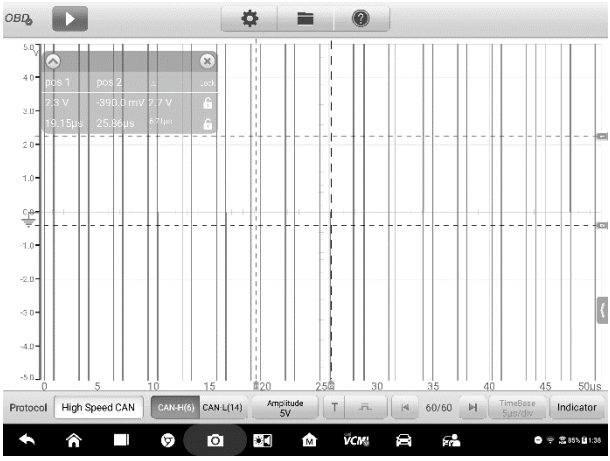

Figure 8-14 *Sample Measurement Rulers Screen*

Zero Baseline

The zero baseline is marked as the 0 value in the Y-axis, showing the base level of each channel waveform. After the channel is selected, the zero baseline can be

adjusted by dragging the baseline marker up/down along the Y-axis, or dragging the waveform up/down or moving the screen up/down in the grid.

NOTE

Tap the baseline marker to unselect (the vertical scale line displays thinner). The waveform cannot be moved once unselected. Tap the baseline marker again to select.

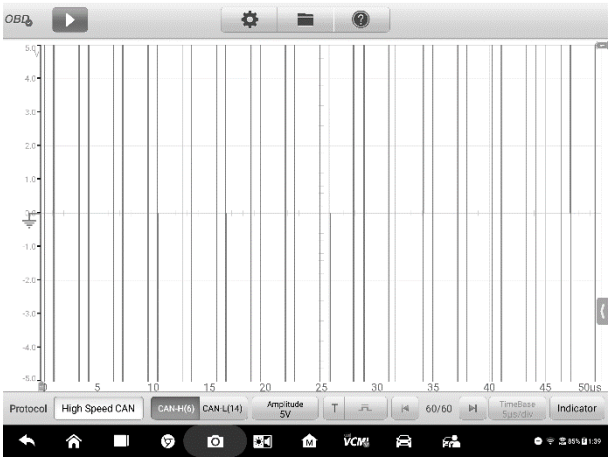

Figure 8-15 *Sample Zero Baseline Screen*

Lower Toolbar Buttons

The measurement, buffer and time base can be configured at the lower toolbar.

Table 8-2 *Lower Toolbar Buttons*

Name	Button	Description
Protocol	Protocol High Speed CAN	Tap to select an appropriate protocol. See *Protocol Setting* on page 235 for more information.
Communication Line	CAN-H(6) CAN-L(14)	Tap to select the appropriate communication line. See *Communication Line* on page 236 for more information.
Amplitude	Amplitude 5V	Tap to select an appropriate amplitude value. See *Amplitude Setting* on page 237 for more information.

Name	Button	Description
Trigger		Tap to open the trigger setting menu. See *Trigger* on page 238 for more information.
Buffer		Tap the Previous or Next button to switch to the previous or the next waveform. See *Buffer* on page 241 for more information.
Time Base		Tap to select an appropriate time per division. See *Time Base* on page 242 for more information.
Indicator		Tap to switch to the Indicator mode.

- **Protocol Setting**

Seven types of communication protocols are available: High Speed CAN, Low Speed CAN, Single CAN, J1939 CAN, J1850 (PWM), J1850 (VPW) and J1708 (SAE).

➢ **To select a protocol**

1. Tap the **Protocol** button in the lower left corner of the screen. A dialog box opens.

Figure 8-16 Sample Protocol Type Button Screen

2. Select the desired **Protocol type** in the dialog box.

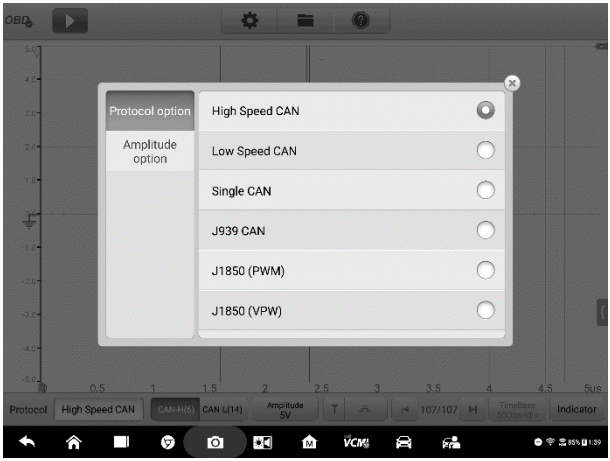

Figure 8-17 *Sample Protocol Setting Screen*

3. Tap the **X** icon to close the dialog box.

- **Communication Line**

The communication line selection varies according to the protocol selected. Tap the appropriate communication line at the bottom of the screen.

Figure 8-18 *Sample Communication Line Button Screen*

- **Amplitude Setting**

After selecting the protocol type, you can also set the amplitude value for that type.

➢ **To set the amplitude**

1. Tap the **Amplitude** button at the bottom of the screen. A dialog box displays.

Figure 8-19 *Sample Amplitude Button Screen*

2. Select the appropriate amplitude for the protocol.

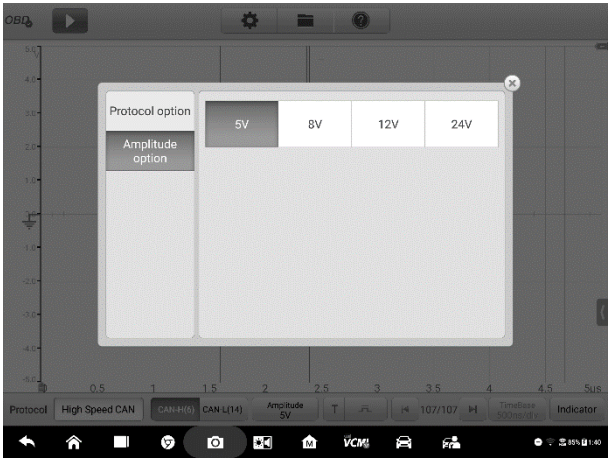

Figure 8-20 *Sample Amplitude Setting Screen*

3. Tap the **X** icon to close the dialog box.

- **Trigger**

The trigger feature is used to stabilize repetitive waveforms to obtain clear signal characterization.

The device is triggered when the signal crosses a threshold or meets set conditions. When the device is capturing the signal, tap the left column of the **Trigger** button to activate the trigger function. A trigger point displays as a blue point.

Figure 8-21 ***Sample Trigger Point Screen***

The edge trigger is one of the most common trigger modes and is activated when voltage rises above or falls below a preset threshold. This trigger type allows you to configure the trigger mode, threshold, trigger channel and pulse direction settings. Tap **Done** to save the settings or tap **Cancel** to exit without saving.

When the device is capturing the signal, tap the right column of the **Trigger** button to open the trigger settings dialog box.

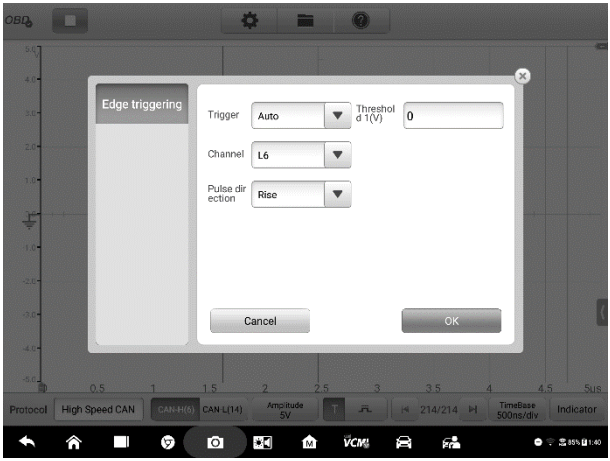

Figure 8-22 *Sample Trigger Settings Screen*

Trigger Mode

Three trigger modes are available: **None, Auto and Repeat**.

Figure 8-23 *Sample Trigger Mode Screen*

The table below offers brief description of each trigger mode.

Table 8-3 *Trigger Mode Table*

Trigger Mode	Description
None	The device can continuously capture data, without waiting for a trigger event.
Auto	The device will wait for a trigger before capturing data. It can automatically update after a short period, even if the signal does not cross the trigger point.
Repeat	The device waits until a trigger event occurs. If there is no trigger event, nothing will be displayed on the screen.

Channel

Select the applicable trigger channel from the dropdown menu. The selected channel is the communication line that the device monitors for the trigger condition.

Pulse Direction

Two pulse direction settings are available: **Rise** and **Fall**.

Figure 8-24 *Sample Pulse Direction Screen*

- ✧ **Rising Edge Trigger** - Indicates trigger is turned on to start the trace on the rising edge of the waveform.
- ✧ **Falling Edge Trigger** – Indicates trigger is turned on to start the trace on the falling edge of the waveform.

Threshold

The **Threshold** allows you to set the voltage threshold for the trigger.

- ✧ To precisely position the trigger point, input the value in the Threshold field in the trigger settings dialog box.
- ✧ To roughly position the trigger point, drag the trigger point to a desired position.

➢ **To configure the trigger settings**

1. Tap the right column of the **Trigger** button to open the trigger settings dialog box.
2. Select the trigger mode, trigger channel and pulse direction in the dropdown list.
3. Input the value in the Threshold field in the trigger settings dialog box.
4. Tap **Done** to save settings or tap **Cancel** to exit without saving.

- **Buffer**

The waveform buffer shows which signal waveform is displayed on the current screen and how many signal waveforms are captured and stored in the buffer memory.

Figure 8-25 *Sample Buffer Screen*

The device can capture and store up to 32 waveforms. You can select a waveform from the waveform buffer by tapping the **Previous** or **Next** button.

Name	Button	Description
Previous		Tap to display the previous waveform in the buffer.
Buffer Index	32/32	Shows which waveform is currently being displayed and how many waveforms are in the buffer.

Name	Button	Description
Next		Tap to display the next waveform in the buffer.

- **Time Base**

  The time base controls the time interval across the device display. Tap the **Time Base** button at the bottom to open the setting dialog box.

Figure 8-26 *Sample Time Base Screen 1*

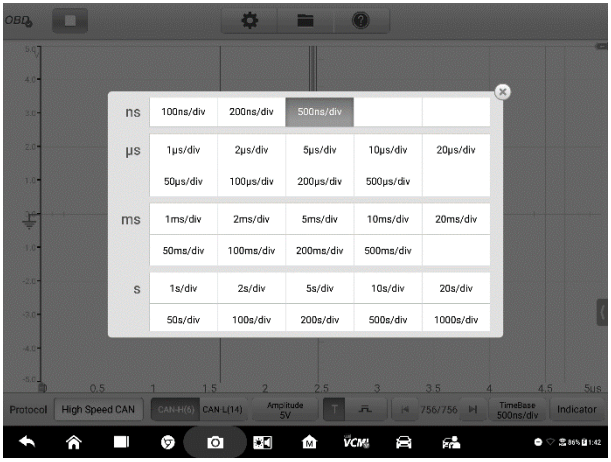

Figure 8-27 *Sample Time Base Screen 2*

Continuous Mode: if the time base is set to more than or equal to 200ms/div, the device switches to the continuous mode. In this mode, the device updates the trace

continuously as each capture progresses, rather than waiting for a complete capture before updating the trace.

- **Indicator Button**

  In the lower corner of the screen, you can enter the Indicator Mode by tapping the **Indicator** button.

Figure 8-28 ***Sample Indicator Button Screen***

8.4.6 Troubleshooting

If the VCMI device cannot communicate with the MaxiSys Tablet:

- Ensure the VCMI device is properly connected to the MaxiSys Tablet via Wi-Fi or with the supplied USB cable.
- Ensure the pin number is set properly.
- Ensure the ignition is in the Key **ON** position.
- Restart tablet and reconnect the VCMI if communication continues to fail.

8.4.7 Glossary

Vehicle Bus

A vehicle bus is a specialized internal communications network that interconnects components inside a vehicle (e.g., automobile, bus, train, industrial or agricultural vehicle, ship, or aircraft). Protocols include Controller Area Network (CAN), Local Interconnect Network (LIN) and others.

CAN Bus

A Controller Area Network (CAN bus) is a robust vehicle bus standard designed to allow microcontrollers and devices to communicate with each other in applications without a host computer.

SAE International

Initially established as the Society of Automotive Engineers, is a U.S.-based, globally active professional association and standards developing organization for engineering professionals in various industries. Principal emphasis is placed on transport industries such as automotive, aerospace, and commercial vehicles.

SAE J1708

SAE J1708 is a standard used for serial communications between ECUs on a heavy duty vehicle and also between a computer and the vehicle. With respect to Open System Interconnection model (OSI), J1708 defines the physical layer. Common higher layer protocols that operate on top of J1708 are SAE J1587 and SAE J1922. The protocol is maintained by SAE International.

SAE J1939

Society of Automotive Engineers standard SAE J1939 is the vehicle bus recommended practice used for communication and diagnostics among vehicle components. It is used in the commercial vehicle area for communication throughout the vehicle, with the physical layer defined in ISO 11898.

J1850

Defines a serial data protocol. There are two variants- 10.4 Kbit/s (single wire, VPW) and 41.6 Kbit/s (two wire, PWM). Mainly used by US manufacturers, also known as PCI (Chrysler, 10.4 Kbit/s), Class 2 (GM, 10.4 Kbit/s), and SCP (Ford, 41.6 Kbit/s).

OBD

On-board diagnostics (OBD) is an automotive term referring to a vehicle's self-diagnostic and reporting capability. OBD systems give the vehicle owner or repair technician access to the status of the various vehicle subsystems.

OBD-II diagnostic connector

The OBD-II DLC (post-1996 vehicles) is usually located under the instrument panel on the driver side, though there are several exceptions. The SAE J1962 specification provides for two standardized hardware interfaces, called type A and type B. Both are

female, 9-pin (2x8), D-shaped connectors, and both have a groove between the two rows of pins.

DLC

The data link connector (DLC) is the multi-pin diagnostic connection port for automobiles, trucks, and motorcycles used to interface a scan tool with the control modules of a given vehicle and access on-board diagnostics and live data streams.

9 Data Manager

The Data Manager application allows you to store, print, and review the saved files, manage the workshop information, customer information records and keep test vehicle history records.

Selecting the Data Manager application opens the file system menu. There are eight main functions available.

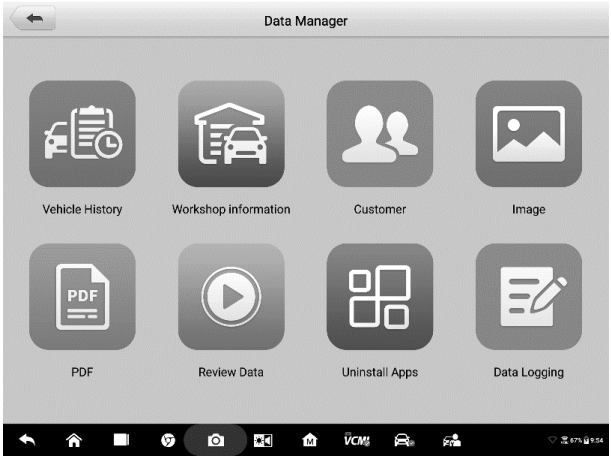

Figure 9-1 ***Sample Data Manager Main Screen***

The table below briefly describes each of the function buttons in the Data Manager application.

Table 9-1 ***Buttons in Data Manager***

Name	Button	Description
Vehicle History		Tap to review the diagnostic history record.
Workshop Information		Tap to edit the information of workshops.
Customer		Tap to create a new customer account file.

Name	Button	Description
Image		Tap to review the screenshots
PDF		Tap to review the diagnostic reports.
Review Data		Tap to review the recorded data.
Uninstall Apps		Tap to uninstall applications.
Data Logging		Tap to review the communication data and ECU information of the test vehicle. The saved data can be reported and sent to the technical center via the internet.

9.1 Vehicle History

This function stores records of test vehicle history, including vehicle information and the retrieved DTCs from previous diagnostic sessions. Test information is summarized and displayed in an easy-to-read table listing. The Vehicle History also provides direct access to the previously tested vehicle and allows you to directly restart a diagnostic session without needing to perform auto or manual vehicle selection.

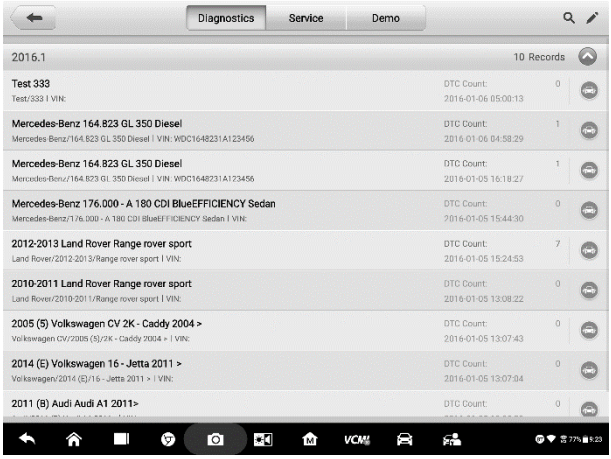

Figure 9-2 *Sample Vehicle History Screen*

1. Top Toolbar Buttons – navigation and application controls.
2. Main Section – displays all the vehicle history records.

➢ **To activate a test session for the recorded vehicle**

1. Tap **Data Manager** on the MaxiSys Job Menu.
2. Select **Vehicle History** to open the screen. Tap **Diagnostics** or **Service** to select diagnostic test records or service test records.
3. Tap **Diagnostics** at the bottom of the thumbnail of a vehicle record item. Or,
4. Select a vehicle thumbnail to select record.
5. A Historical Test record sheet displays. Review the recorded information of the test vehicle, and tap the Diagnostics button on the upper right corner to continue diagnostics.
6. The Diagnostics screen of the vehicle displays and a new diagnostic session is activated, see Diagnostic Operation for detailed instructions on vehicle diagnostic operations.

Historical Test Record

The Historical Test record of the tested vehicle is a detailed data form, which includes general information of the vehicle such as vehicle year, make and model and the diagnostic trouble codes retrieved from the previous test sessions. Technician-added service notes will display if present.

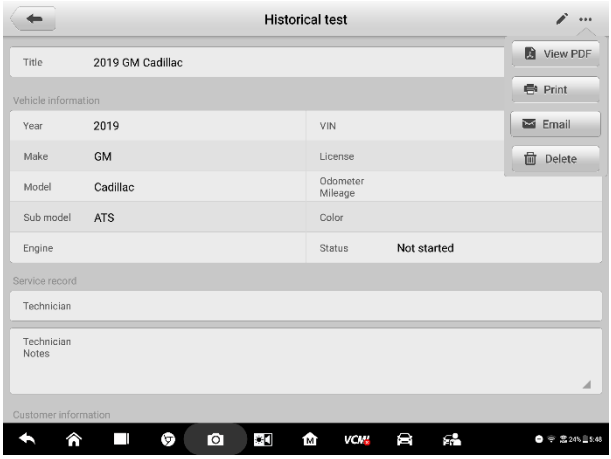

Figure 9-3 ***Sample Historical Test Record Sheet***

➢ **To edit the Historical Test record**

1. Tap **Shop Manager** on the MaxiSys Job Menu.
2. Select **Vehicle History**.
3. Select the specific vehicle history record thumbnail from the main section. The Historical Test record will display.
4. Tap **Edit** to start editing.
5. Tap each item to input information or attach files or images.

NOTE

The vehicle VIN, license number and customer account information are correlated by default. Vehicle records will automatically be correlated using this vehicle and customer identification.

6. Tap **Add to Customer** to correlate the Historical Test record sheet to an existing customer account, or add a new associated account to be correlated with the test vehicle record. See *Customer* on page 250 for more information.
7. Tap **Done** to save the updated record, or tap **Cancel** to exit without saving.

9.2 Workshop Information

The Workshop Information form allows you to input, edit, and save the detailed workshop information, such as shop name, address, phone number and other remarks, which, when printing vehicle diagnostic reports and other associated test file, will display as the header of the printed documents.

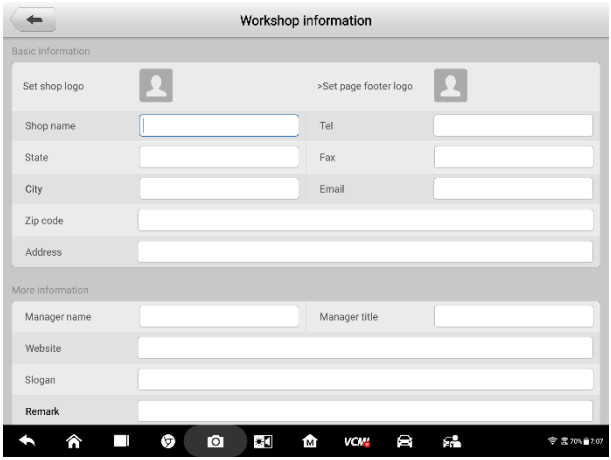

Figure 9-4 *Sample Workshop Information Sheet*

➢ **To edit the Workshop Information sheet**

1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
2. Select **Workshop Information**.
3. Tap on each field to input the appropriate information.
4. Tap **Done** to save the updated workshop information record, or tap **Cancel** to exit without saving.

9.3 Customer Manager

The Customer Manager function allows you to create and edit customer accounts. It helps you to save and organize all customer information accounts that are correlated with the associated test vehicle history records.

- **To create a customer account**
  1. Tap the **Shop Manager** application on the MaxiSys Job Menu.
  2. Select **Customer Manager**.
  3. Tap the **Add Account** button. An empty information form displays, tap each field to input the appropriate information.

NOTE
The items that must be filled are indicated as required fields.

  4. Some customers may have more than one vehicle for service; you can always add new vehicle information to the account. Tap **Add New Vehicle Information**, and then fill in the vehicle information. Tap the button to cancel.
  5. Tap **OK** to save the account, or tap **Cancel** to exit without saving.

- **To edit a customer account**
  1. Tap **Shop Manager** on the MaxiSys Job Menu.
  2. Select **Customer Manager**.
  3. Select a customer account by tapping the corresponding name card. A Customer Information record displays.
  4. Tap **Edit** on the top toolbar to start editing.
  5. Tap on the input field to edit or amend information, and enter updated information.
  6. Tap **OK** to save the updated information, or tap **Cancel** to exit without saving.

- **To delete a customer account**
  1. Tap **Shop Manager** on the MaxiSys Job Menu.
  2. Select **Customer Manager**.
  3. Select a customer account by tapping the corresponding name card. A Customer Information record displays.
  4. Tap **Edit** on the top toolbar to start editing.
  5. Tap **Delete Customer Information**. A confirmation message displays.
  6. Tap **OK** to confirm the command, and the account is deleted. Tap **Cancel** to cancel the request.

9.4 Image

The Image section is a JPG database containing all captured screenshots.

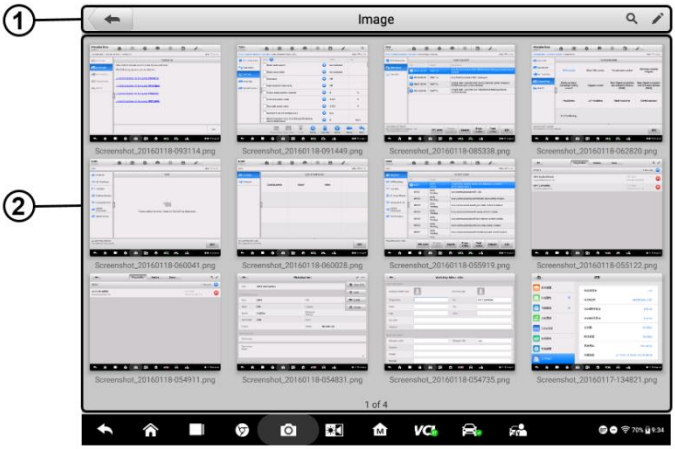

Figure 9-5 *Sample Image Database Screen* （*改成 VCMI 图标*）

1. Toolbar Buttons – used to edit, print and delete the image files. See *Table 10-2 Toolbar Buttons in JPG Database* on page 251 for detailed information.
2. Main Section – displays the stored images.

Table 9-2 *Toolbar Buttons in JPG Database*

Name	Button	Description
Back		Return to the previous screen.
Enter Edit		Tap to display the editing toolbar to print, delete or view image information.
Cancel	Cancel	Tap to close the editing toolbar or cancels file search.
Search	Search	Quickly locates the image file by entering the vehicle name, test path, file name or file info.
Info		Tap to open a window displaying the detail information of the image.
Print		Tap to print the selected image.
Delete		Tap to delete the selected image.

➢ **To edit image information**

1. Select **Data Manager** from the MaxiSys Job Menu.
2. Select **Image** to access the JPG database.
3. Select an image to display it in full screen.
4. Tap the screen once to display the editing toolbar.
5. Tap **Info** to open a window displaying the image information.
6. Tap **Edit** on the top right corner of the window. The editing screen displays.
7. Edit the image information by entering the new file name, and file information.
8. Tap **Done** to save the information and exit, or tap **Cancel** to exit without saving.

- **To delete selected images**
  1. Select **Data Manager** from the MaxiSys Job Menu.
  2. Select **Image** to access the JPG database.
  3. Tap the **Enter Edit** button to display the editing toolbar.
  4. Select the images to be deleted by tapping the thumbnail images, the selected thumbnail displays a check mark at the bottom right corner.
  5. Tap the **Delete** button, and then **Delete Selected**, now the selected images are deleted.

9.5 PDF Files

The PDF section stores and displays all PDF files of saved data. After entering the PDF database, select a PDF file to view the stored information.

This section uses the standard Adobe Reader application for file viewing and editing. Please refer to the associated Adobe Reader manual for more detailed instructions.

9.6 Review Data

The Review Data section allows you to playback the recorded data frames of live data streams.

On the Review Data main screen, select a record file to playback.

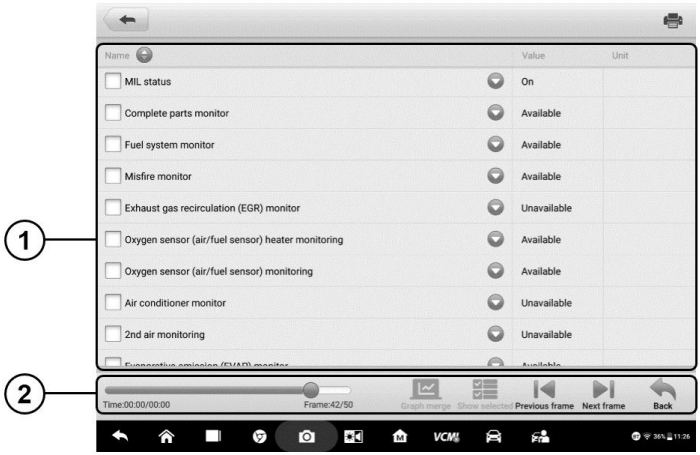

Figure 9-7 ***Sample Data Playback Screen***

1. Main Section – displays the recorded data frames.
2. Navigation Toolbar – allows you to manipulate data playback.

Use the Navigation Toolbar buttons to playback the record data from frame to frame.

Tap **Back** to exit data playback.

9.7 Uninstall Apps

This section allows you to manage the firmware applications installed on the MaxiSys Diagnostics System. Selecting this section opens a managing screen, on which you can check all the available vehicle diagnostic applications.

Select the vehicle firmware you want to delete by tapping on the car brand icon, the selected item will display a blue check mark at the upper right corner. Tap the **Delete** button on the top bar to delete the firmware from the system database.

9.8 Data Logging

The Data Logging section allows you to launch Support platform directly to view all records of all sent or unsent (saved) data loggings on the diagnostic system. For more details, please refer to *Data Logging* on Page 271.

10 Settings

Access the Settings menu to adjust default setting and view information about the MaxiSys system. The following options are available for the MaxiSys system settings:

- Unit
- Language
- Printing Setting
- Scan Report
- Notification Center
- Auto Update
- ADAS Registration
- Vehicle List
- System Settings
- About

10.1 Operations

This section describes the operation procedures for the settings.

10.1.1 Unit

This option allows you to adjust the measurement unit for the diagnostic system.

➢ **To adjust the unit setting**

1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **Unit** option on the left column.
3. Select the appropriate measurement unit, Metric or English. A check mark will display to the right of the selected unit.
4. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

10.1.2 Language

This option allows you to adjust the display language for the MaxiSys system.

➢ **To adjust the language setting**

1. Tap the **Settings** application on the MaxiSys Job Menu.
2. Tap the **Language** option on the left column.
3. Select the appropriate language. A check mark will display to the right of the selected language.
4. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

10.1.3 Print

Printing Setting

This option allows you to print from the tablet to a network printer via a computer.

➢ **To setup the printer connection**

1. Tap **Settings** on the MaxiSys Job Menu.
2. Tap **Printing Setting** on the left column.
3. Tap **Print via Network** to activate the printing function, which enables the device to send files to the printer through the PC via WiFi or Ethernet connection.
4. Tap **Home** on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

Printing Operations

➢ **To install the MaxiSys Printer driver program**

1. Download **Maxi PC Suite** from www.autel.com > Supports & Updates > Firmware & Downloads > Update Client, and install to a Windows-based PC.
2. Double click on **Setup.exe** item**.**
3. Select the installation language and the wizard will load.
4. Follow the instructions on the screen and Click **Next** to continue.
5. Click **Install** and the printer driver program will be installed onto the computer.
6. Click **Finish** to complete the installation.

NOTE

The MaxiSys Printer runs automatically after the installation.

This section describes how to receive file from the MaxiSys tablet and perform printing through the computer:

➢ **To perform printing through the computer**

1. Make sure the tablet is connected to the computer network, either via WiFi or LAN, before printing.
2. Run the **MaxiSys Printer** program on the computer.

3. Click **Test Print** to make sure the printer is working successfully.
4. Tap the **Print** button on the toolbar of the tablet. A test document will be sent to the computer.
   - If the **Auto Print** option in the MaxiSys Printer is selected, the MaxiSys Printer will print the received document automatically.
   - If the **Auto Print** option is not selected, click **Open PDF File** button to view files. Select the file(s) to print and click **Print**.

NOTE

Make sure the computer installed with the Printing Services program is connected to a printer.

10.1.4 Scan Report

The Scan Report option allows you to turn the pre-scan report and post-scan report on or off.

➢ **To enable the Scan Report function**

1. Tap **Settings** on the MaxiSys Job Menu.
2. Tap **Scan Report** on the left column.
3. Tap **ON/OFF** to enable or disable the function. If the function is enabled the button displays blue; or disabled the button displays gray.
4. Tap **Home** on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

10.1.5 Notification Center

This option allows you to turn the Notification Center function on or off. The Notification Center function configures the MaxiSys tablet to receive regular online messages from the server for system update notifications or other service information via the Internet. It is highly recommended that the Notification setting be on at all times so as not to miss news of updates or important service messages. Internet access is required for receiving online messages.

➢ **To enable the Notification Center function**

1. Tap **Settings** on the MaxiSys Job Menu.
2. Tap **Notification Center** on the left column.
3. Tap **ON/OFF** to enable or disable the Notifications function. If the function is enabled the button displays blue, or if disabled the button displays gray.
4. Tap **Home** on the top left corner to return to the MaxiSys Job Menu. Or select another setting option for the system setup.

When the Notification Center function is turned on, and new messages are received by the MaxiSys device, a notification message displays on the MaxiSys Job Menu. Press on the message bar and drag it down to display a list of received messages. Slide the list up or down to view additional messages if present.

Tap a specific message to launch the corresponding application. For example, if you tap on an Update notification message, the Update application will be launched.

10.1.6 Auto Update

This option allows you to set the specific time for updating software automatically. There are three update options: OS Update, MaxiSys Update and Vehicle Update.

Tap **ON/OFF** to enable Auto Update. The button displays blue if Auto Update is enabled and displays gray if the Auto Update is disabled. Set the time of the day for updating. If a specific time is set, the selected software will be automatically updated at this specific time.

10.1.7 ADAS Registration

- **To activate the MaxiSys ADAS Calibration:**
  1. Confirm the registered MaxiSys has active updates.
  2. Select **Settings** on the MaxiSys Job Menu.
  3. Click on **ADAS Registration**.
  4. Scan the QR code on the ADAS frame to bind, or manually input frame serial number when QR code is not available.
  5. Enter the validation code from the ADAS Calibration Card.
  6. The system will be reset and the main screen will display once registration has been completed.

10.1.8 Vehicle List

This option allows you to sort the vehicles either by alphabetic order or by frequency of use.

- **To adjust the vehicle list setting**
  1. Tap the **Settings** application on the MaxiSys Job Menu.
  2. Tap **Vehicle List** on the left column.
  3. Select the required sort type. A check mark will display to the right of the selected language.
  4. Tap the **Home** button in the top left corner to return to the MaxiSys Job Menu. Or select another setting option for system setup.

10.1.9 System Settings

This function provides you with direct access to the Android system setting interface, where you can adjust various system settings for the Android system platform, regarding wireless and networks settings, various device settings such as sound and display, as well as system security settings, and check related information about the Android system. Refer to Android documentation for additional information.

10.1.10 About

The About function provides information of the MaxiSys diagnostic device including the product name, version, hardware, and serial number.

- **To check the MaxiSys product information in About**
  1. Tap the **Settings** application on the MaxiSys Job Menu.
  2. Tap the **About** option on the left column. The product information screen displays on the right.
  3. Tap the **Home** button on the top left corner to return to the MaxiSys Job Menu, or select another setting option for the system setup, after viewing.

11 Update

The internal programming of the MaxiSys Diagnostic System, known as the firmware, can be updated using the Update application. Firmware updates increase the MaxiSys applications' capabilities, typically by adding new tests, new models, or enhanced applications to the database.

The display device automatically searches for available updates for all of the MaxiSys components when it is connected to the Internet. Any updates that are found can be downloaded and installed on the device. This section describes installing an update to the MaxiSys Diagnostic System firmware. A notification message displays if an update is available when the Notifications function is enabled in the Settings application (See *Notification Center* on page 257).

Figure 11-1 *Sample Update Screen*

1. Navigation and Controls
   - Home Button – returns to the MaxiSys Job Menu.
   - Update All – available updates for all tablet systems
   - Show Recent – shows the recent updates
   - Search Bar – searches specific update item by inputting the file name, for example: a specific vehicle manufacturer.
2. Status Bar
   - Left Side – displays the MaxiSys device model information and serial number
   - Right Side – displays an update progress bar indicating the completion status

3. Main Section
   - Left Column – displays vehicle logos and update firmware version information.
   - Middle Column – displays a brief introduction about the new changes to the firmware operation or capabilities. Tap button to display an information screen to view more details, and tap the dim area around to close the window.
   - Right Column – according to the operation status of each firmware item, the button displays differently.
     a) Tap **Update** to update the selected item.
     b) Tap **Pause** to suspend the updating procedure.
     c) Tap **Continue** to go on updating the suspended update.

➢ **To update the firmware**

1. Power up the tablet, and ensure that it is connected to a power source and has a steady Internet connection.
2. Tap the **Update** application button from the MaxiSys Job Menu; or tap the update notification message when received. The Update application screen displays.
3. Check all available updates:
   - If you decide to update all the items, tap the **Update All** button.
   - If you only want to update some individual items, tap the **Update** button on the right column of the specific item. This option is highly recommended to ensure updates are performed correctly, especially if unsure of the speed and stability of your shops Internet connection.
4. Tap the **Pause** button to suspend the updating process. Tap **Continue** to resume the update and the process will continue from the pause point.
5. When the updating process is completed, the firmware will be installed automatically. The new version will replace the older version.

12 VCMI Manager

The VCMI Manager is an application for connecting the MaxiSys Ultra tablet with VCMI device. This application allows you to pair the tablet with the VCMI device and to check the communication status. **There is an option to choose Bluetooth connection to your VCMI or Wi-Fi connection which is more stable and faster in speed for module operation**. No matter whether the network signal is accessible or not, the VCMI Manager provides options to ensure steady connection and optional communication.

Except connecting with VCMI devices, the MaxiSys Ultra tablet also supports **VCI connecting**, which means other VCI devices can be connected with the MaxiSys Ultra tablet. If the VCI device is connected successfully, the VCMI icon and relevant contents on the screen will change to those of the corresponding VCI.

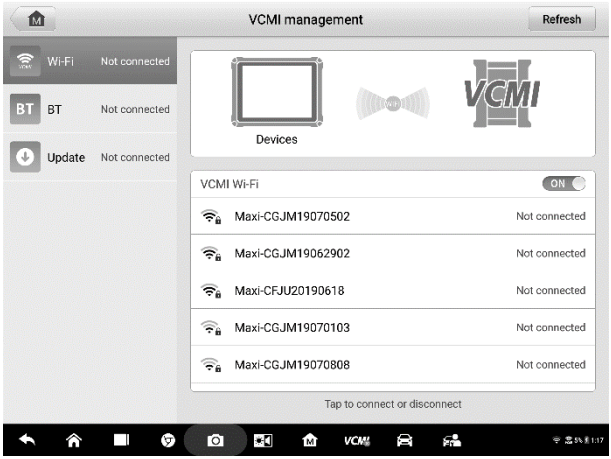

Figure 12-1 ***Sample VCMI Manager Screen***

1. **Connection Mode** –three two connection modes are available. The connection status displays adjacent to each mode.
   - Wi-Fi Connection – when connected to a wireless device, the connection state displays as Connected, otherwise it displays as Not Connected.
   - BT Pairing – when paired to a wireless device, the connection state displays as Connected; otherwise it displays as Not Connected.

- Update (for VCMI software only) – updates VCMI software via Internet through the MaxiSys tablet networking using USB connection.

➢ Select a connection mode to manage and set up connection.

2. **Settings** – this section allows you to manage wireless pairing or set up network connection.
   - Wi-Fi Setting - searches and displays the type and partial serial number for all devices available for Wi-Fi connection.
   - BT Setting – searches and displays the type and partial serial number for all devices available for pairing. Tap a device to start pairing. The BT status icon displays the received signal strength for the device.
   - Ethernet Setting – allows you to perform network configuration.

12.1 Wi-Fi Connection

Wi-Fi Connection is an advanced function for quick linkage with VCMI. Since Wi-Fi connection supports 2.5G/5G, the MaxiSys Ultra tablet and VCMI share a faster and more stable connection when using this communication method. The tablet can be operated up to 100 meters away from the VCMI device when connected to the vehicle.

The Wi-Fi connection is an ideal communication mode when using the oscilloscope measurement function, See Chapter 9.1 Oscilloscope Operation.

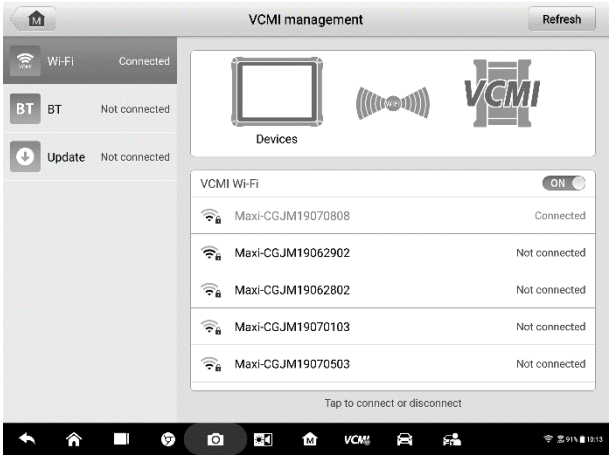

Figure 12-2 *Sample Wi-Fi Connection Screen*

➢ **To connect the VCMI device with the tablet via Wi-Fi connection**

1. Power on the tablet.

2. Connect the 26-pin end of the data cable to the VCMI's vehicle data connector.
3. Connect the 9-pin end of the data cable to the vehicle data link connector (DLC).
4. Tap **VCMI Manager** on the MaxiSys Job Menu of the tablet.
5. Select **Wi-Fi**, from the connection mode list.
6. Tap the Wi-Fi toggle to turn it **ON**. Tap **Refresh** at the top right corner. The device will start to search for available units.
7. Depending on the VCMI type you use, the device name may display as Maxi suffixed with a serial number. Select the appropriate device for connection.
8. When connection is established, the connection status displays as Connected.
9. The VCMI button on the system Navigation bar at the bottom of the screen displays a green Wi-Fi icon, indicating the tablet is connected to the VCMI device.
10. To disconnect the device, tap the connected device listing again.
11. Tap **Back** on the top left to return to the MaxiSys Job Menu.

NOTE

To ensure quick connection, please perform this operation in a steady network environment.

12.2 BT Pairing

BT Paring is the basic way for wireless connection. The VCMI device needs to be either connected to a vehicle or to an available power source, so that it is powered up during the synchronization procedure. Make sure the tablet has a charged battery or is connected to an AC/DC power supply.

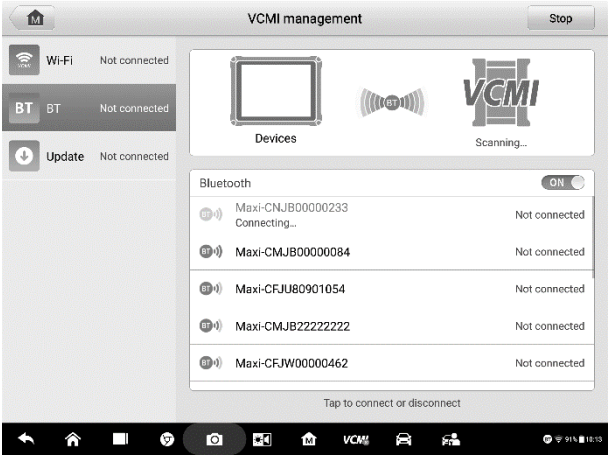

Figure 12-3 *Sample BT Pairing Screen*

- **To pair the VCMI device with the tablet**
  1. Power on the tablet.
  2. Connect the 26-pin end of the data cable to the VCMI's vehicle data connector.
  3. Connect the 9-pin end of the data cable to the vehicle data link connector (DLC).
  4. Tap **VCMI Manager** on the MaxiSys Job Menu of the tablet.
  5. Select **BT**, short for Bluetooth, from the connection mode list.
  6. Tap the Bluetooth toggle to turn it **ON**. Tap **Scan** at the top right corner. Now the device starts searching for available pairing units.
  7. Depending on the VCMI type you use, the device name may display as Maxi suffixed with a serial number. Select the required device for pairing.
  8. When paired successfully, the connection status displays as Connected.
  9. Wait a few seconds, and the VCMI button on the system Navigation bar at the bottom of the screen displays a green check mark, indicating the tablet is connected to the VCMI device.
  10. To disconnect the device, tap the connected device listing again.
  11. Tap **Back** on the top left to return to the MaxiSys Job Menu.

NOTE

A VCMI device can be paired to only one tablet at a time, and once it's been paired, the device will not be discoverable for any other unit.

12.3 Update

The Update module provides the latest update for the MaxiSys Ultra tablet. Before updating the VCMI software, please make sure the tablet network connection is stable.

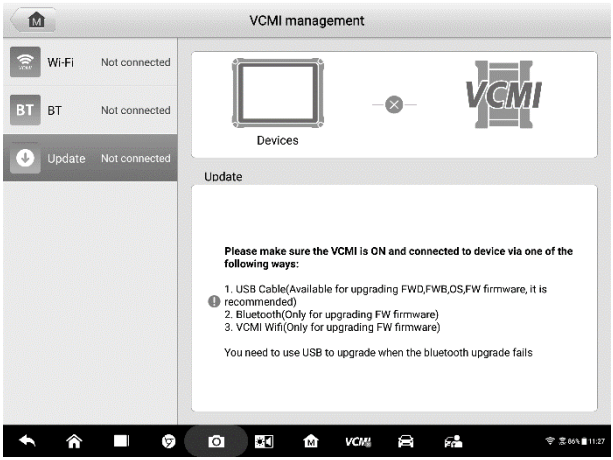

Figure 12-4 *Sample VCMI Update Screen*

- **To update the VCMI device software**
  1. Power on the tablet.
  2. Connect the VCMI device to the tablet via USB.
  3. Tap **VCMI Manager** on the MaxiSys Job Menu of the tablet.
  4. Select **Update** from the connection mode list.
  5. The current version and the latest version of the VCMI software will display. Tap **Update Now** to update the VCMI software.

13 ADAS

Advanced Driver Assistance Systems (ADAS) is an array of vehicle systems that aid the driver either through passive alerts or by active control of the vehicle to drive safer and with greater awareness and precision.

Cameras, sensors, ultrasound, radar and LIDAR are some of the systems used to capture the driving environment data, including travelling or static vehicles position, pedestrian location, road sign, driving lane and intersection detection, road (curves) and driving conditions (poor visibility or evening driving), use that information to instruct the vehicle to take its predetermined action. Cameras, sensors and sensing systems are typically located in front and rear bumpers, windshield, front grill and side and rear view mirrors.

Autel ADAS Calibration Tool provides comprehensive and precise ADAS calibration.

1. Covers many vehicle makes, including Benz, BMW, Audi, VW, Porsche, Infiniti, Lexus, GM, Ford, Volvo, Toyota, Nissan, Honda, Hyundai, and Kia.
2. Supports the calibration of multiple driver assistant systems, including Adaptive. Cruise Control (ACC), Night Vision System (NVS), Lane Departure Warning (LDW), Blind Spot Detection (BSD), Around View Monitoring (AVM), Rear Collision Warning (RCW) and Heads-up Displays (HUD).
3. Supplies graphic illustrations and step-by-step instructions.
4. Provides demos to guide the technician through the calibration.

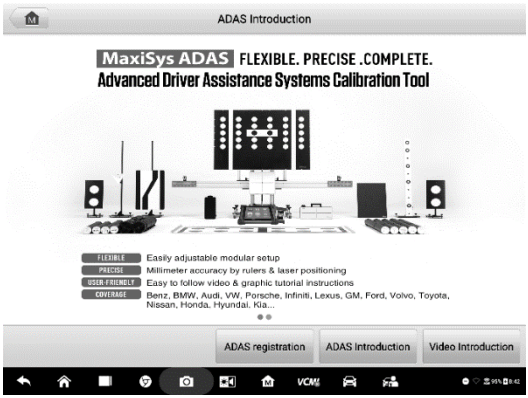

Figure 13-1 ***Sample ADAS Introduction Page***

14 Support

This application launches the Support platform which synchronizes Autel's online service base station with the MaxiSys tablet. In order to synchronize the device to your online account, you need to register the product through the Internet when you use it for the first time. The Support application is connected to Autel's service channel and online communities that provides the quickest way for problem solutions, allowing you to submit complaints or send help requests to obtain direct service and support.

14.1 Product Registration

In order to get access to the Support platform and obtain update and other services from Autel, you are required to register the MaxiSys Diagnostic Device the first time you use it.

- **To register the diagnostic device**
  1. Visit the website: http://pro.autel.com.
  2. If you have an Autel account, Sign In with your account ID and password.
  3. If you are a new member to Autel, click on the **Create Autel ID** button on the left side to create an ID.
  4. Enter the required information in the input fields, and click **Get Verification Code** button to get the verification code for email validation.
  5. The online system will automatically send a verification code to the registered email address. Input the code in the Verification Code field and fill in the other input fields, read through Autel's Terms and Conditions and click on **Agree**, and then click **Create Autel ID** at the bottom. A product registration screen will display.
  6. The device's serial number and password is located in the *About* section of the Settings application on the tablet.
  7. Select your product model, enter the product serial number and password on the Product Registration screen, and tap **Submit** to complete the registration procedure.

14.2 Support Screen Layout

The Support application interface is navigated by the Home Button on the top navigation bar.

- Home Button – returns to the MaxiSys Job Menu.

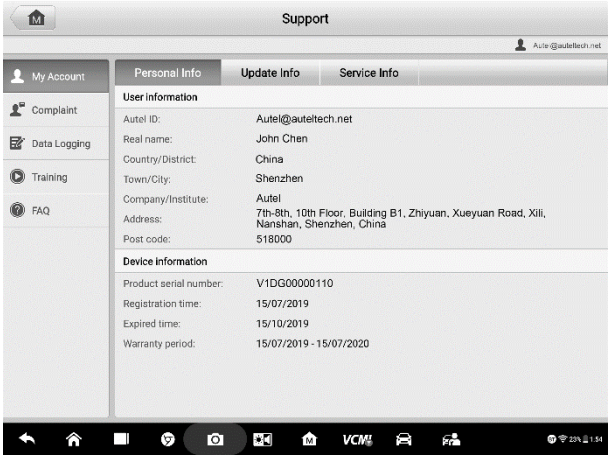

Figure 14-1 *Sample Support Application Screen*

The main section of the Support screen is divided into two sections. The narrow column on the left is the main menu; selecting one subject from the main menu displays the corresponding functional interface on the right.

14.3 My Account

The My Account screen displays the comprehensive information of the user and the product, which is synchronized with the online registered account, including User Info, Device Info, Update Info and Service Info.

14.3.2 Personal Info

The User Info and Device Info are both included under the Personal Info section.

- User Info – displays detailed information of your registered online Autel account, such as your Autel ID, Name, Address and other contact information.
- Device Info – displays the registered product information, including the Serial Number, Registration Date, Expire Date, and Warranty Period.

14.3.2 Update Info

The Update Info section displays a detailed list of the product's software update history, including the product serial number, software version or name, and the update time.

14.3.3 Service Info

The Service Info section displays a detailed record list of the device's service history information. Every time the device has been sent back to Autel for repair, the device's serial number and the detailed repair information, such as the fault type, changed components, or system reinstallation will be recorded and updated to the associated online product account that will be synchronized to the Service Info section.

14.4 User Complaint

The User Complaint screen allows you to establish a new complaint case, as well as to view historical complaint records.

14.4.1 Screen Layout

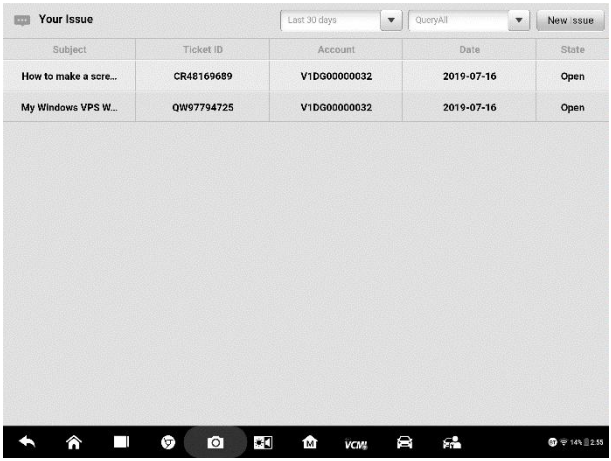

Figure 14-2 ***Sample Complaint Screen***

Complaint List

The complaint list normally displays all the complaint records and their status by default. The summary information for each complaint item includes the Subject Name, Ticket ID, User's Account ID, Date, and the Case Status.

There are two kinds of the case status:

- Open – indicates the complaint case has been started but not processed yet
- Closed – indicates the complaint case has been processed, solved, and ended

➢ **To establish a new complaint session**

1. Register the product online.
2. Tap **Support** on the MaxiSys Job Menu. The device information is automatically synchronized with the online account.
3. Tap **Complaint** on the Main Menu.
4. Tap **New Issue** at the upper right corner. A selection menu with a category of service channels displays.
5. Select your target service channel and click **Next** to continue. A standard complaint form displays, on which you are allowed to enter detailed information, such as personal information, vehicle information, and device information, you can also attach image or PDF files with the form.
6. Enter in each input field the appropriate information. To settle the complaint more efficiently, it is recommended to complete the form with as much as detail as possible.
7. Select the required processing time on the last section according to the urgency of the case.
8. Tap **Submit** to send the completed form to Autel's online service center. The submitted complaints will be carefully read and handled by the service personnel.

14.5 Data Logging

The Data Logging section keeps records of all **Feedback** (submitted), **Not Feedback** (but saved) or **History** (up to the latest 20 test records) data loggings on the diagnostic system. The support personnel will receive and process the submitted reports through the Support platform. The solution will be sent back within 48 hours. You may continue to correspond with Support until the issue is resolved.

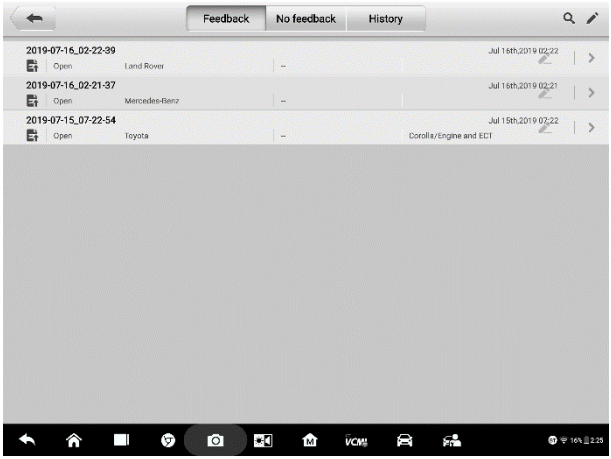

Figure 14-3 ***Sample Data Logging Screen***

- **To make a reply in a Data Logging session**
  1. Tap on the **Feedback** tag to view the list of submitted data loggings.
  2. Select the latest message from Support.
  3. Tap on the input field on the bottom of the screen, and enter your reply. Or tap the Audio button to record a voice message, or tap the camera button to take a screenshot.
  4. Tap **Send** to deliver your message to Support.

14.6 Training Channels

The Training section provides quick links to Autel's online video accounts. Select a video channel by language to see all available Autel online tutorial videos on such topics as product usage techniques and vehicle diagnostics practices.

14.7 FAQ Database

The FAQ section provides comprehensive references for all questions frequently asked and answered about the use of Autel's online member account, shopping and payment procedures.

- Account – displays questions and answers about the use of Autel's online user account.
- Shopping & Payment – displays questions and answers about online product purchase and payment methods or procedures.

15 Remote Desktop

The Remote Desktop application launches the TeamViewer Quick Support program, which is a simple, fast and secure remote control interface. You can use the application to receive ad-hoc remote support from Autel's support center, colleagues, or friends, by allowing them to control your MaxiSys tablet on their PC via the TeamViewer software.

15.1 Operations

If you think of a TeamViewer connection as a phone call, the TeamViewer ID would be the phone number under which all TeamViewer Clients can be reached separately. Computers and mobile devices that run TeamViewer are identified by a globally unique ID. The first time the Remote Desktop application is started, this ID is generated automatically based on the hardware characteristics and will not change.

Make sure the tablet is connected to the Internet before launching the Remote Desktop application, so that the tablet is able to receive remote support from the third party.

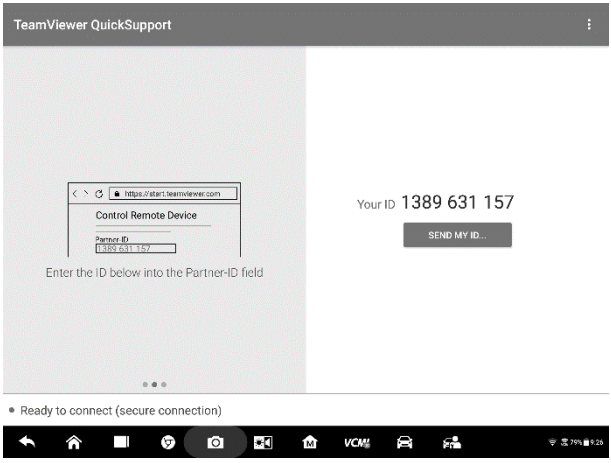

Figure 15-1 *Sample Remote Desktop Screen*

- **To receive remote support from a partner**
  1. Power on the tablet.
  2. Tap the **Remote Desktop** application on the MaxiSys Job Menu. The TeamViewer interface displays and the device ID is generated and shown.

3. Your partner must install the Remote Control software to his/her computer by downloading the TeamViewer full version program online (http://www.teamviewer.com). Start the software on his/her computer at the same time, in order to provide support and take control of the tablet remotely.
4. Provide your ID to the partner, and wait for him/her to send you a remote control request.
5. A message displays to ask for your confirmation to allow remote control on your device.
6. Tap **Allow** to accept, or tap **Deny** to reject.

Refer to the associated TeamViewer documents for additional information.

16 Quick Link

The Quick Link application provides you with convenient access to Autel's official website and many other well-known sites in automotive service, which offers you abundant information and resources, such as technical help, knowledge bases, forums, training and expert consultations.

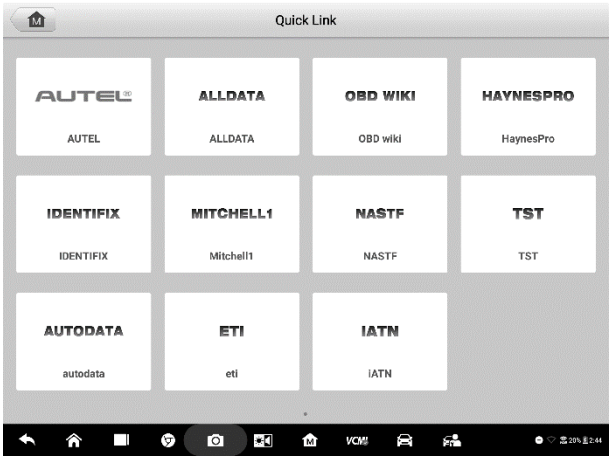

Figure 16-1 *Sample Quick Link Screen*

- **To open a quick link**
  1. Tap **Quick Link** on the MaxiSys Job Menu. The Quick Link application screen displays.
  2. Select a website thumbnail from the main section. The Chrome browser is launched and the selected website is opened.
  3. Now you can start exploring the website!

17 MaxiViewer

The MaxiViewer allows you to search the functions supported by our tools and the version information. There are two ways of searching, either by searching the tool and the vehicle or searching the functions.

- **To search by the vehicle**

1. Tap the MaxiViewer application on the MaxiSys Job Menu. The MaxiViewer application screen displays.
2. Tap the tool name on the top left to drop down the tool list, tap the one you want to search.
3. Tap the vehicle brand, model, and year you want to search.

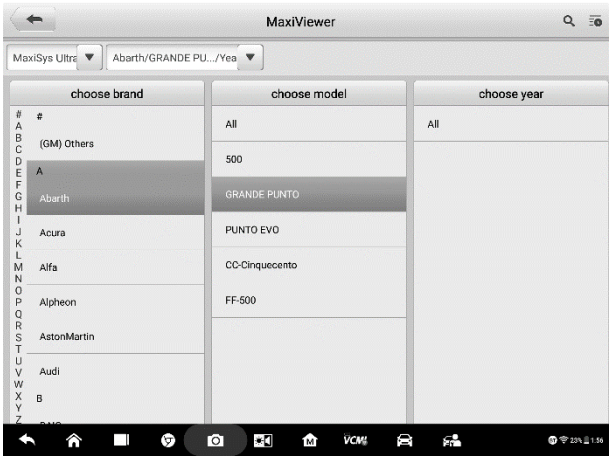

Figure *17-1 Sample MaxiViewer Screen 1*

4. All the functions support by the selected tool for the selected vehicle displays within three columns, function, sub function, and version.

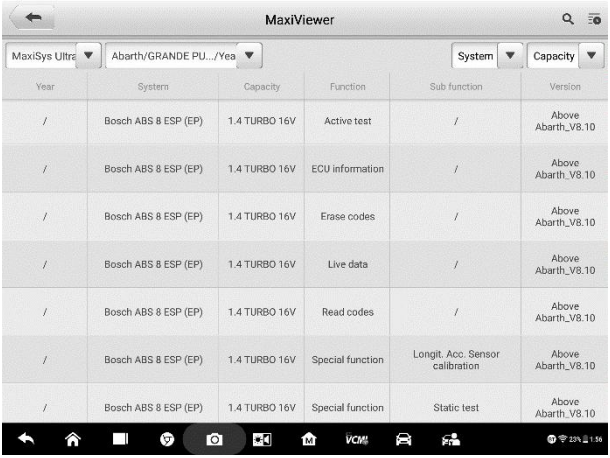

Figure *17-2 Sample MaxiViewer Screen 2*

➢ **To search by the functions**

1. Tap the MaxiViewer application on the MaxiSys Job Menu. The MaxiViewer application screen displays.
2. Tap the tool name on the top left to drop down the tool list, tap the one you want to search.
3. Type in the function you want to search to the top right search column. All the vehicles with this function will be listed with 8 columns, the Brand, Model, Year, System, Sub system, Function, Sub function, and Version.

NOTE

Fuzzy search is supported, type in part of the function you want to search can also find you all the related.

18 Maintenance and Service

To ensure that the tablet and the combined VCMI unit perform at their optimum level, we advise that the product maintenance instructions covered in this section is read and followed.

20.1 Maintenance Instructions

The following shows how to maintain your devices, together with precautions to take.

- Use a soft cloth and alcohol or a mild window cleaner to clean the touch screen of the tablet.
- Do not use any abrasive cleansers, detergent, or automotive chemicals to the tablet.
- Maintain the devices in dry conditions and keep them within normal operating temperatures.
- Dry your hands before using the tablet. The touch screen of the tablet may not work if the touch screen is moist, or if you tap the touch screen with wet hands.
- Do not store the devices in humid, dusty or dirty areas.
- Check the housing, wiring, and connectors for dirt and damage before and after each use.
- At the end of each work day, wipe the device housing, wiring, and connectors clean with a damp cloth.
- Do not attempt to disassemble your tablet or the VCMI unit.
- Do not drop or cause severe impact to the devices.
- Use only authorized battery chargers and accessories. Any malfunction or damage caused by the use of unauthorized battery charger and accessories will void the limited product warranty.
- Ensure that the battery charger does not come in contact with conductive objects.
- Do not use the tablet beside microwave ovens, cordless phones and some medical or scientific instruments to prevent signal interference.

20.2 Troubleshooting Checklist

A. When the tablet does not work properly:

- Make sure the tablet has been registered online.
- Make sure the system software and diagnostic application software are properly updated.
- Make sure the tablet is connected to the Internet.
- Check all cables, connections, and indicators to see if the signal is being received.

B. When battery life is shorter than usual:
   - This may happen when you are in an area with low signal strength. Turn off your device if is not in use.

C. When you cannot turn on the tablet:
   - Make sure the tablet is connected to a power source or the battery is charged.

D. When you are unable to charge the tablet:
   - Your charger maybe out of order. Contact your nearest dealer.
   - You may be attempting to use the device in an overly hot/cold temperature. Charge the device in a cooler or warmer area.
   - Your device may have not been connected to the charger properly. Check the connector.

NOTE

If the problems persist, please contact Autel's technical support personnel or your local selling agent.

20.3 About Battery Usage

Your tablet is powered by a built-in Lithium-ion Polymer battery. This means that, unlike other forms of battery technology, you can recharge your battery while some charge remains without reducing your tablet's autonomy due to the "battery memory effect" inherent in those technologies.

DANGER

The built-in Lithium-ion Polymer battery is factory replaceable only; incorrect replacement or tampering with the battery pack may cause an explosion.

- Do not use a damaged battery charger.
- Do not disassemble or open crush, bend or deform, puncture or shred.
- Do not modify or remanufacture, attempt to insert foreign objects into the battery, expose to fire, explosion or another hazard.
- Use only the included charger and USB cables. Failure to use Autel-authorized charger and/or USB cables, may result in device malfunction or failure.

- Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or another hazard.
- Avoid dropping the tablet. If the tablet is dropped, especially on a hard surface, and the user suspects damage, take it to a service center for inspection.
- The closer you are to your network's wireless router, the longer your tablet usage time because less battery power is consumed for the connection.
- The battery recharging time varies depending on the remaining battery capacity.
- Battery life inevitably shortens over time.
- Since overcharging may shorten battery life, remove the tablet from its charger once it is fully charged. Unplug the charger, once charging is complete.
- Leaving the tablet in hot or cold places, especially inside a car in summer or winter, may reduce the capacity and life of the battery. Always keep the battery within normal temperatures.

20.4 Service Procedures

This section introduces information for technical support, repair service, and application for replacement or optional parts.

20.4.1 Technical Support

If you have any question or problem on the operation of the product, please contact us.

AUTEL NORTH AMERICA

- **Phone**: 855-AUTEL-US (855-288-3587) Monday-Friday 9am-6pm EST
- **Website**: www.autel.com
- **Email**: ussupport@autel.com
- **Address**: 175 Central Avenue, Suite 200, Farmingdale, New York, USA 11735

AUTEL EUROPE

- **Phone**: 0049 (0) 61032000522
- **Website**: www.autel.eu
- **Email**: sales.eu@autel.com, support.eu@autel.com
- **Address**: Robert-Bosch-Strasse 25, 63225, Langen, Germany

AUTEL CHINA HQ

- **Phone**: 0086-755-86147779
- **Website**: www.autel.com
- **Email**: support@autel.com
- **Address**: 7-8th, 10th Floor, Building B1, Zhiyuan, Xueyuan Road, Xili, Nanshan, Shenzhen, 518055, China.

AUTEL SOUTH AMERICA

- **Phone**: (+507) 308-7566
- **Website**: www.autel.com/es
- **Email**: sales.latin@autel.com, latsupport@autel.com
- **Address**: Office 103, Building 3845, International Business Park, Veracruz, Panamá Pacífico, Panamá

AUTEL AUSTRALIA

- **Phone**: 03 9480 2978 / +61 476293327
- **Website**: www.autel.com.au
- **Email**: sales@autel.com.au
- **Address**: 155 Islington Street, Melbourne, Collingwood, VIC 3066

For technical assistance in other markets, please contact your local selling agent.

20.4.2 Repair Service

If it becomes necessary to return your device for repair, please download the repair service form from www.autel.com, and fill in the form. The following information must be included:

- Contact name
- Return address
- Telephone number
- Product name
- Complete description of the problem
- Proof-of-purchase for warranty repairs
- Preferred method of payment for non-warranty repairs

NOTE

For non-warranty repairs, payment can be made with Visa, Master Card, or with approved credit terms.

Send the device to your local agent, or to the below address:

7-8th, 10th Floor, Building B1, Zhiyuan,

Xueyuan Road, Xili, Nanshan,

Shenzhen, 518055, China

20.4.3 Other Services

You can purchase the optional accessories directly from Autel's authorized tool suppliers, and/or your local distributor or agent.

Your purchase order should include the following information:

- Contact information
- Product or part name
- Item description
- Purchase quantity

19 Compliance Information

FCC Compliance **FCC ID: WQ8MAXISYSULTRA**

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

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.

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

SAR

The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact is minimized during normal operation.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/Kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with

the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to antenna should be minimized.

20 Warranty

22. 12-Month Limited Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this MaxiSys Diagnostic Device that should this product or any part thereof during normal usage and under normal conditions be proven defective in material or workmanship that results in product failure within twelve (12) months period from the date of purchase, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with Proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defect(s).

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

a) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
b) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
c) Damage from exposure to excessive temperatures or extreme environmental conditions;
d) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
e) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts.
f) Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any electrical source.

IMPORTANT

All contents of the product may be deleted during the process of repair. You should create a back-up copy of any contents of your product before delivering the product for warranty service.