



Data Sign ST-1 VMS Message Programmer Manual




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■ Start-up Page

A Start-up page is displayed when the ST-1 is turned ON, this is done by pressing and holding the lower-right side button.

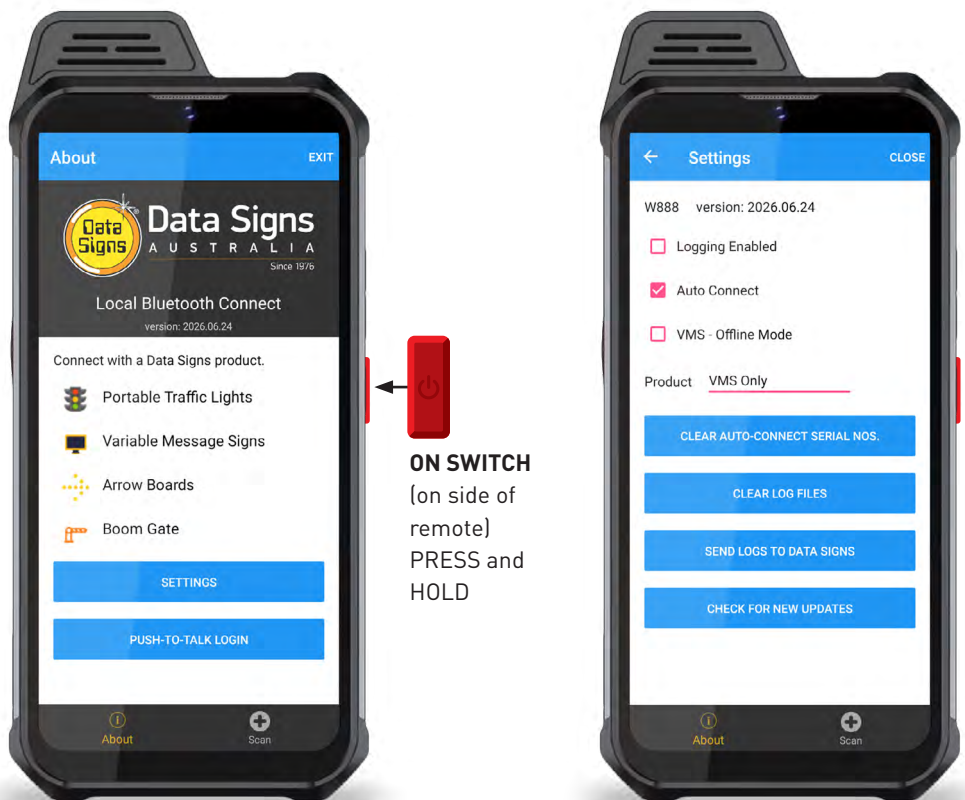
Press the  icon to start the Local Connect App.

Once the Local Connect screen is displayed, press the SETTINGS button.

Select the Auto Connect check box, then on the Startup Tab, select Variable Message Signs.

This will automatically connect the ST-1 with the last Paired sign next time it is switched on.


You can also check for new updates for the ST-1, or select to use the ST-1 in offline mode which is useful if you are not actually connected to a VMS-Sign.



ON SWITCH
(on side of
remote)
PRESS and
HOLD

■ Connecting to the VMS


If the Auto Connect option has been set (as per previous page) then the ST-1 will look to pair with your VMS.

If pairing for the first time press the  button .

Tap on the serial no. when it appears in the list. The remote will automatically connect with the last connected device if it is in range.

If the last connected device is not in range, the remote will continue scanning and will display all the relevant devices in range.

To stop automatically connecting with the last connected device, go to the Settings section and disable the Auto Connect option or tap the Clear Auto Connect Serial Nos button.

To stop scanning, tap the  button.



As the Bluetooth connection is established a progress sequence of 5-stars will appear, and the screen will redirect to the relevant remote screen.

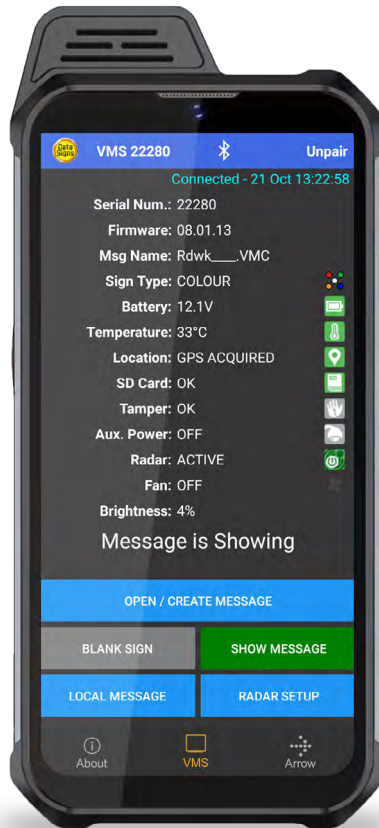
To disconnect from a the VMS, tap the  button in the top right corner.

Disconnecting will stop the Bluetooth connection, but the VMS will continue its last operation.

■ Using the ST-1 to Program the VMS

Once the ST-1 has paired with your VMS Sign, the current details of the VMS are displayed.

Green icons indicate all is OK. Amber icons indicate a warning. Red icons indicate an error. Gray icons indicate the feature is either disabled or not running.

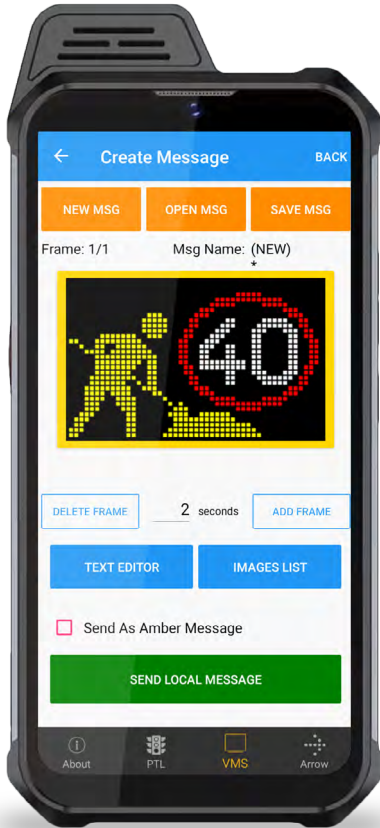


The VMS board can be BLANKED by tapping the **BLANK SIGN** button and similarly to SHOW the Message, tap the **SHOW MESSAGE** button.

To change the message on the sign, tap the **OPEN / CREATE MESSAGE** button.

Message Editor

Normally Message and Radar settings are edited, created or sent to the VMS while it is paired to the VMS Sign, if it is not paired use the *VMS – Offline Mode* which can be selected from Settings Menu.



NEW MSG: will clear and start a new message

OPEN MSG: will load a list of saved messages and an option to delete the local messages

SAVE MSG: will save the current message to the local device.

TEXT EDITOR: will open the text-editor module to setup a textual frame.

IMAGES LIST: will open the image-list module with a list of 99 pre-defined images.

ADD FRAME: will add an empty frame either before or after the current frame.

To change the duration of a frame, change the number in seconds.

DELETE FRAME: will delete the current frame

SEND LOCAL MESSAGE: will upload the message via Bluetooth to the VMS

If you want the message to appear as Amber only, select the “Send As Amber Message” checkbox first.

The arrow buttons can be used to navigate between frames.

■ Text Editor

This section facilitates creation of a text message of up to 4 lines. Each line can have a different colour, font size and left or centre alignment.

A line of text can contain maximum 12 characters.

For optimum visibility, 3 lines of text, 8 characters wide (2nd font from right) is recommended.

When finished, tap the **CONFIRM** button to save and set the message on the current frame.

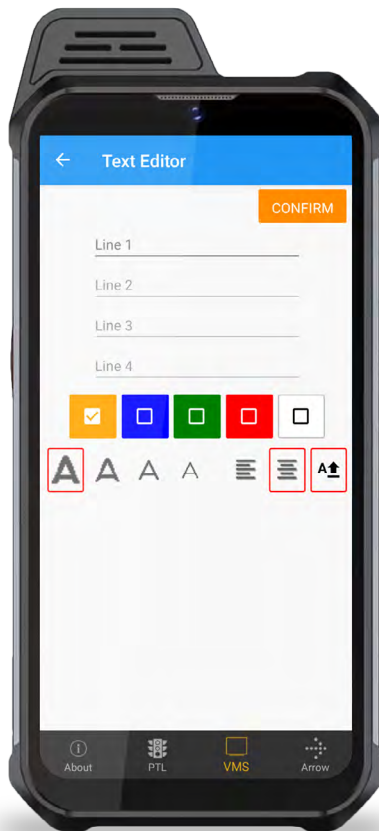
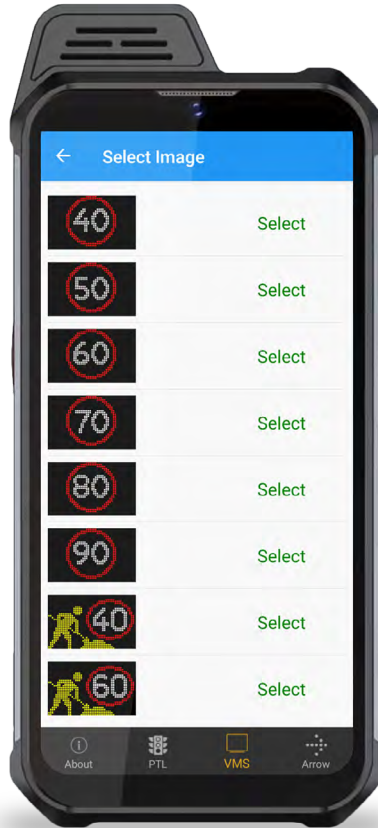


Image List

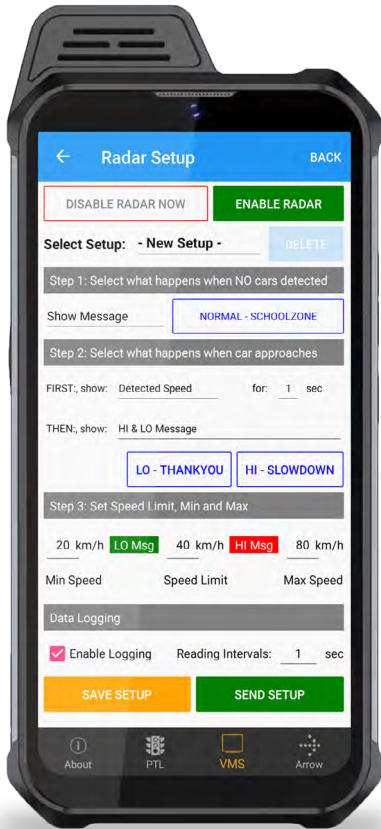
This section has a list of 99 pre-defined images to select from.

Tap on **Select** to set the image to the current frame.



For custom images or messages, see *Creating Advanced Custom Messages*, page 14.

■ Radar Setup



Start by tapping the **ENABLE RADAR** button.

Either select a saved setup or create a new Setup.

STEP 1: Select a message to show when NO vehicles are detected.

STEP 2: Select what happens when a vehicle approaches the sign.

If you wish to display a Hi & Lo Message then select the appropriate message.

STEP 3: Set the road Speed Limit and then set the Max and Min limit.

Enable Data Logging if you wish.

(Data Logs are retrieved via the DS-Live Platform and can be set to send to an e-mail address. This requires a Data Plan and SIM card to be fitted to the VMS)

Finally tap **SAVE SETUP** and then **SEND SETUP** to send it to the VMS.

The setup will be saved on the ST-1 remote.

■ Creating Advanced Custom Messages

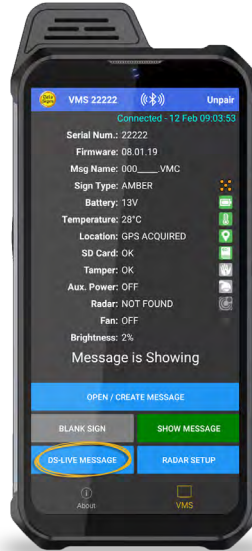
DS-Live Message

DS-Live Message is a new feature allowing messages created in DS-Live to be uploaded to a VMS board via Bluetooth. Internet access is required to use this feature.

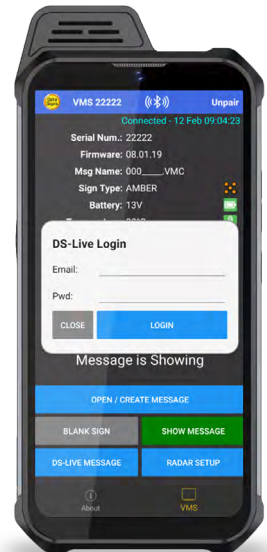
1. Connect to a VMS via Bluetooth and tap the **DS-LIVE MESSAGE** button.

If internet access is required, a prompt will be displayed. To enable internet access, use either a local WiFi connection, or hotspot to a Mobile phone.

If you do not have access to DS-Live, please contact Data Signs to set this up.



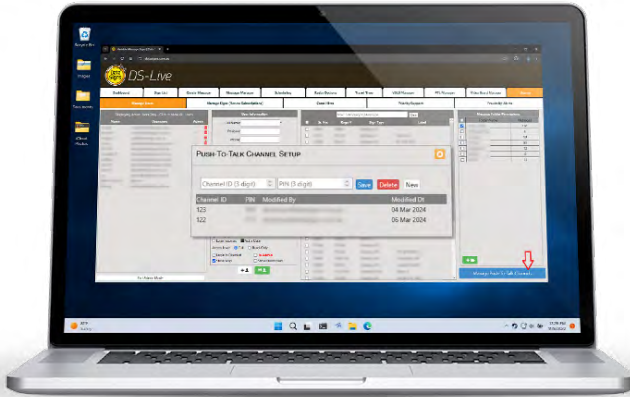
2. After connecting to the internet, tap the **DS-LIVE MESSAGE** button and log into DS-Live entering your regular login details.
3. After login, select the relevant Folder and Message from the list and tap the **SEND TO ST-1** button.
4. Please wait for the message upload to complete. Do not move away from the VMS as it will disconnect the Bluetooth connection.



■ Press-to-Talk Walkie Talkie

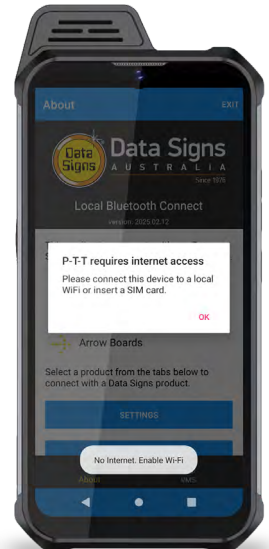
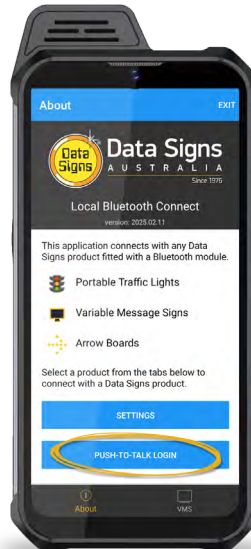
Push-To-Talk (PTT) is an app in DS-LCT that allows users to communicate with each other. PTT uses a special (orange) button on the ST-1 and requires internet access.

1. Log into **DS-Live** and go to the **Admin** > **Manage Users** section.
2. Click on **Manage Push-To-Talk Channels** and setup a Secure Channel and Password.



3. Open the DS-LCT app on your ST-1 and from the About tab, tap the "Push-To-Talk" button.

If internet access is required, a prompt will be displayed.



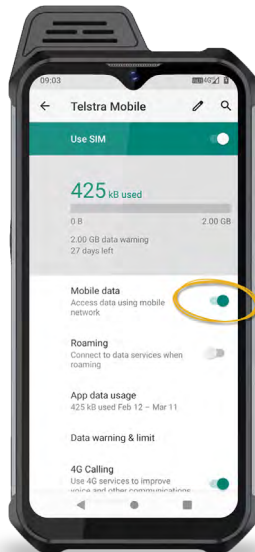
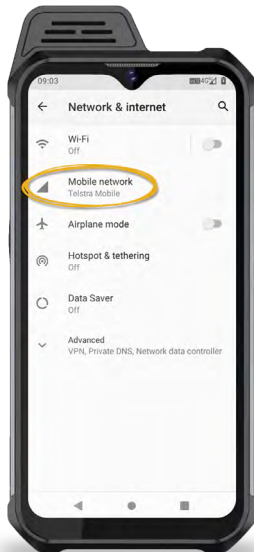
4. To enable internet access, insert a SIM card into the phone.

On the ST-1 home screen, swipe up and tap the Settings icon.



Go to Network & Internet, tap **Mobile Network** and enable **Mobile Data**.

Or use your mobile phone with Hotspot enabled.



5. After connecting to the internet, tap the

PUSH TO TALK LOGIN

button and enter the agreed Secure Channel ID and PIN.

NOTE: devices that need to communicate with each other have to login on the same Secure Channel.

6. After connecting to a Secure Channel, push the orange PTT button on the ST-1 to communicate.

