



User Manual

Version 1.0

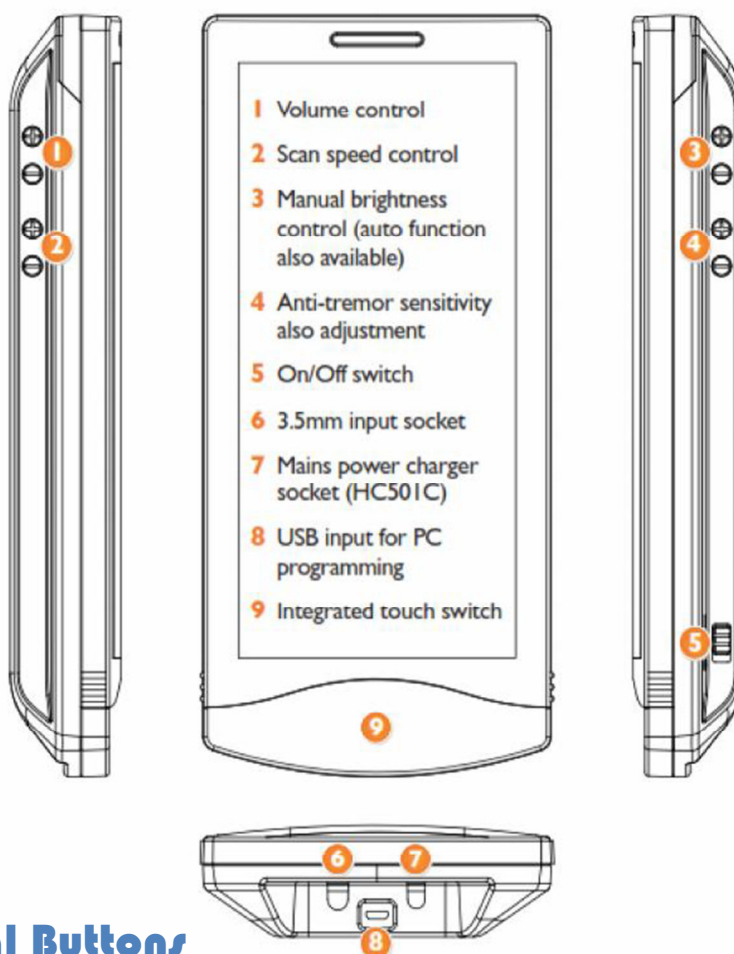


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Getting to know your “Freeway”



External Buttons

(1) Volume Control 🔊

Adjust the volume of the Freeway to your desired level using the increase volume (+) and decrease volume (-) buttons.

(2) Scan Speed Control 🔄

Adjust the scanning speed of the Freeway to your desired level using the increase speed (+) and decrease speed (-) buttons.

(3) Manual Brightness Control ☀️

Adjust the brightness of the Freeway to your desired level using the raise brightness (+) and reduce brightness (-) buttons.

- Pressing both (+) and (-) simultaneously will toggle between enable/disable of “[Auto Brightness Change](#)”.

(4) Anti-tremor Sensitivity Control

Adjust the anti-tremor of the Freeway to your desired level using the increase sensitivity (+) and decrease sensitivity (-) buttons.

(5) On/Off Switch

In order to use the Freeway the unit will need to be powered, set the sliding switch closest to the ON position (I). To switch the Freeway unit off, set the sliding switch closest to the OFF position (O).

(6) 3.5mm Input Socket

If required Freeway can accommodate an external 3.5mm input switch.

(7) Mains Power Charger Socket

Socket to accommodate the accompany HC501C mains power charger.

- **IMPORTANT** - Use only the provided Possum HC501C mains power charger

(8) USB Input Socket

USB communication port used to connect the Freeway to a PC in order to transfer Freeway layout between Freeway and PC.

(9) Integrated Touch Switch

The integrated touch switch (when enabled) can be used as a user input switch. Simply, touch (or tap) anywhere on the area to trigger switch operation.

Freeway Software

Start



Upon opening the Freeway software you will be presented with the “Start” screen as shown above.

The Freeway software is navigated via tabs located across the top of the software which are always visible and accessible.

Tabs are positioned so when creating a new Freeway configuration they can be worked through in a sequential order (from left to right /start - finish).

Although tabs are positioned in this way, when importing previously saved Freeway configurations (if required) each tab can be directly accessed via selecting the required tab.

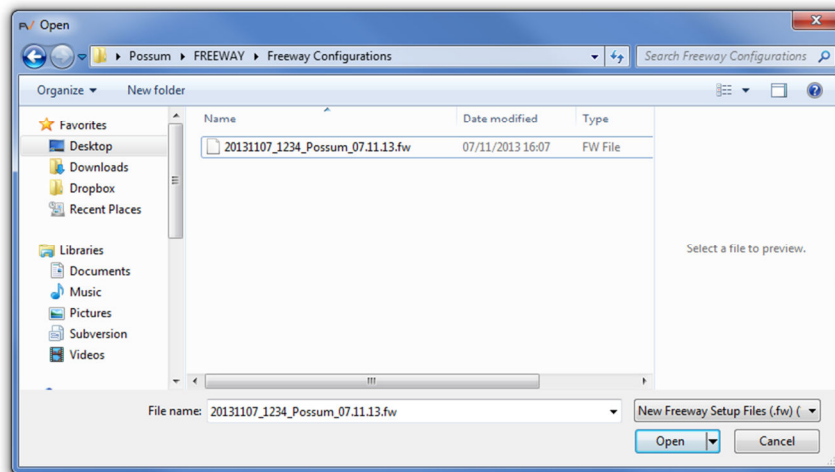
The “Start” screen provides the user with a number of starting choices:

- Load From Drive
- Load From Controller
- Setup Manually

load from Drive

Load From Drive

Selecting this option will allow you to choose a previously saved Freeway layout from your local drive. Select “Load from Drive” & the following window will be displayed:



Navigate to the destination of your Freeway files & select the appropriate file by either double left clicking the required file or single left clicking & then selecting “Open”.

After selecting the required layout it will be loaded to your FreeWay software and the “Client Details” screen will be displayed.

load from Controller

Load From Controller

Selecting this option will allow you to transfer the layout that currently resides on your Freeway controller to the Freeway software.

Please ensure that the Freeway controller is connected to your computer via the supplied USB cable before attempting to transfer layouts.

Note. This option will only be available for selection when a FreeWay controller is connected to the computer via the supplied USB cable.

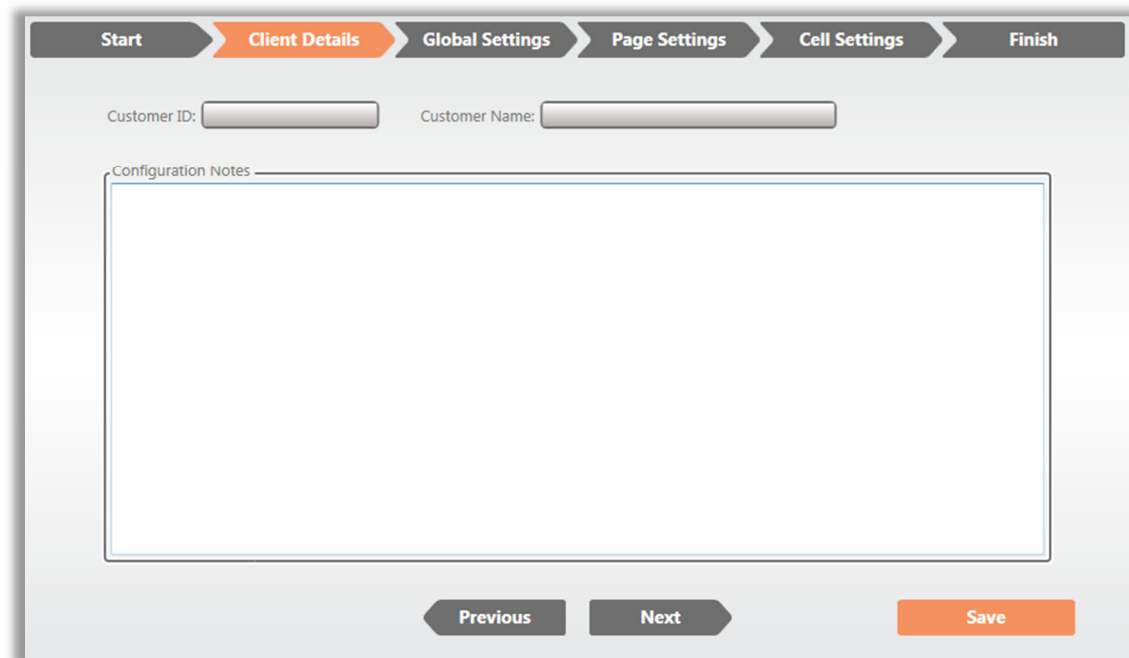
Setup Manually

Setup Manually

Selecting this option will allow you to manually configure a new layout without loading an existing one. On selecting “Setup Manually” you will be navigated to “[Clients Details](#)” area.

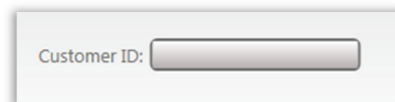
Client Details

Client Details



The screenshot shows a configuration window titled "Client Details" with a progress bar at the top containing six steps: Start, Client Details (highlighted), Global Settings, Page Settings, Cell Settings, and Finish. Below the progress bar, there are two input fields: "Customer ID:" and "Customer Name:". Below these fields is a large text area labeled "Configuration Notes". At the bottom of the window, there are three buttons: "Previous", "Next", and "Save".

Customer ID



A close-up of the "Customer ID:" input field, which is a text box with a light gray border and a small arrow on the right side.

Enter identification for the customer; this can be in both alphabetical and/or numerical format.

The customer ID will be used to create the default filename when saving the configuration to the local drive.

Customer Name



A close-up of the "Customer Name:" input field, which is a text box with a light gray border and a small arrow on the right side.

Enter the customer or client's name.

The customer name will also be used to create the default filename when saving the configuration to the local drive.

Configuration Notes

A screenshot of a web interface showing a text input field. The field is labeled "Configuration Notes" in a small, light blue font at the top left. The input area is a large, empty rectangular box with a thin grey border. The entire field is contained within a light grey rounded rectangle.

An area provided for notes that may be relevant to the configuration of the layout.

Changes to the layout could be recorded along with the date & time of change, or maybe an explanation of why the layout has been configured in a particular way.

Previous and Next



Selecting "Previous" will navigate you back to the screen you were previously on.
Selecting "Next" will navigate you to the next screen.

Save



Selecting "Save" will prompt you to save the current layout. The "Save As" window will appear & you will be required to select a destination & filename for the layout.

The filename will be automatically populated with the date followed by the customer ID & then the Customer Name.

Global Settings

Global Settings

The “Global Settings” area contains a host of settings for phone, NEAT, switch, scan, IR repeat and dedicated alarm configuration.

Phone Settings

Telephone contacts can be added, amended or removed from the phonebook. Audio scan and selection prompts can be recorded and assigned to individual phonebook contacts. The default telephone can be selected along with an outside line prefix if required.

Default Phone

Clicking on the current entry will result in a drop down list of available options to choose from:






Prefix for outside line

In situations when a digit (or series of digits) needs to be dialled (in order to obtain an outside line) before dialling a phonebook contact.

Prefix for outside line:

Enter the required digit(s) into the box required, as shown above.

Create Phone Book

Contacts	Selected Contact Details
 Possum Ltd - 01296461000	<p>Name <input type="text" value="Possum Ltd"/></p> <p>Number <input type="text" value="01296461000"/></p> <p>Audio Scan Prompt</p> <p><input type="checkbox"/> None</p> <p><input type="checkbox"/> Record </p> <p><input checked="" type="checkbox"/> TTS <input type="text" value="Possum"/></p> <p><input type="checkbox"/> File </p> <p><input type="button" value="Test"/></p> <p>Audio Selection Prompt</p> <p><input type="checkbox"/> None</p> <p><input type="checkbox"/> Record </p> <p><input checked="" type="checkbox"/> TTS <input type="text" value="Possum"/></p> <p><input type="checkbox"/> File </p> <p><input type="button" value="Test"/></p>
<input type="button" value="Add Contact"/> <input type="button" value="Delete All"/>	

Contacts are displayed in the phonebook contacts list situated on the left.

When a contact is selected from within the phonebook list, its details are then displayed in the selected contact details on the right.

As contacts are added to the phonebook list a scroll bar will appear to facilitate easy contacts browsing.

Add Contact

Add Contact

After selecting “Add Contact” a new contact will appear within the list as shown below:

The screenshot displays a user interface for managing contacts. On the left, a panel titled 'Contacts' lists two entries: 'Possum Ltd - 01296461000' and 'New Contact -'. Each entry is preceded by a trash can icon. At the bottom of this panel are two orange buttons: 'Add Contact' and 'Delete All'. On the right, a panel titled 'Selected Contact Details' contains a form for adding a new contact. It includes a 'Name' field with the text 'New Contact', a 'Number' field, and two sections for audio prompts: 'Audio Scan Prompt' and 'Audio Selection Prompt'. Each section has four options: 'None', 'Record' (with a microphone icon), 'TTS' (with a text input field labeled 'Type text for TTS here'), and 'File' (with a folder icon). A 'Test' button is located below each audio prompt section.

Enter the required details in the area on the right (contact name and number will automatically refresh in the phonebook contacts list as the information is entered).

Delete All

Delete All

Select “Delete All” to remove all current phonebook entries.

Delete Contact

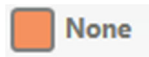
To delete an individual contact from the phonebook list select the trash can position to the left of the contact entry. 🗑️

WARNING! Once a contact has been deleted it cannot be recovered.

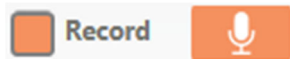
Audio Scan Prompt and Audio Selection Prompt

- Audio Scan Prompt - Plays assigned audio prompt when cell is scanned
- Audio Selection Prompt - Plays assigned audio prompt when cell is selected

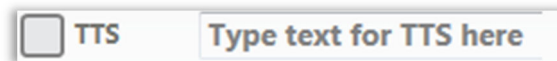
If no audio prompt is required then select “None”.



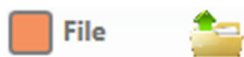
Record & assign audio to scanning prompt and/or the selection prompt



Assign TTS (Text To Speech) to scanning prompt and/or the selection prompt.



Select from file allows you to select an audio file from your local drive



Both Audio Scan Prompt and Audio Selection Prompt have their own test button. After recording, selecting or entering TTS text the prompt can be tested via select the required test button.



NEAT Settings

Setting	Current Value	Description
Low Battery Neat Code	0000	The Neat code to send as a low battery alarm. Zero = no alarm sent, 0xFFFF uses default ID
Input Disconnected Neat Code	0000	The Neat code to send as an input disconnect alarm. Zero = no alarm sent, 0xFFFF uses default ID
Neat Radio Single Ind	Single	Controls Neat radio RF Ack functionality. Single = transmissions stop on RF Ack. Multi = RF Ack is ignored
Resend Delay	0:51 (mins : secs)	Set the minimum time between repeat transmissions of the same alarm code
Neat Report Ack	0	If non-zero, the Neat radio will listen for and report any alarm acknowledgement. The value set is the maximum time to listen, in minutes
Neat Auto Resend	0	Sets the time in minutes after which an alarm is re-sent if no alarm acknowledge is received. NOTE: NeatReportAck should also be set, otherwise alarms will always repeat.
Neat Walk Test TO	10	Timeout for the Neat radio walk test, if not cancelled, in minutes
Neat Acknowledgement Sound	<input checked="" type="radio"/> None <input type="radio"/> Record <input type="radio"/> TTS <input type="radio"/> File	Specifies the sound file played when a Neat alarm acknowledge is received. If None, a beep is played instead.

Test

Previous Next Save

Low Battery Neat Code

Set the NEAT alarm code that will be transmitted when the FreeWay battery reaches low charge.

- Assigning 0000 will disable the alarm
- Assigning FFFF will use the default alarm ID

Input Disconnected Neat Code

Set the NEAT alarm code that will be transmitted on input disconnection.

- Assigning 0000 will disable the alarm
- Assigning FFFF will use the default alarm ID

Neat Radio Signal Ind

Configure NEAT radio frequency acknowledgement functionality.

- Single = Transmission stops on radio frequency acknowledgement
- Multi = Radio frequency acknowledgement is ignored

NEAT No Resend Delay

Set the minimum time period between repeat transmissions (for the same alarm).
Move the slider in a horizontal direction until the required value is displayed.

NEAT Report Ack

The NEAT radio will listen for (and report) any alarm acknowledgement.
The value entered is the time in minutes to listen.

- 0 = Disabled

NEAT Auto Resend

The time (in minutes) after which an alarm is re-sent (if no acknowledgement is received).
“NEAT Report Ack” needs to be enabled otherwise alarms will always repeat.

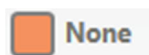
NEAT Walk Test TO

Timeout period for the NEAT radio walk test.
Set the time in minutes.

NEAT Acknowledgement Sound

Specifies the sound played when a NEAT alarm acknowledgement is received.

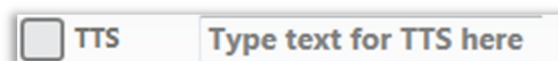
If no audio prompt is required then select “None”.



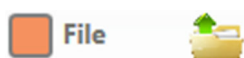
Record & assign audio to scanning prompt and/or the selection prompt



Assign TTS (Text To Speech) to scanning prompt and/or the selection prompt.



Select from file allows you to select an audio file from your local drive



Both Audio Scan Prompt and Audio Selection Prompt have their own test button.
After recording, selecting or entering TTS text the prompt can be tested via select the required test button.



Switch Settings

The screenshot shows the 'Switch Settings' configuration page. The top navigation bar includes 'Start', 'Client Details', 'Global Settings' (selected), 'Page Settings', 'Cell Settings', and 'Finish'. Below this, a sub-navigation bar shows 'Phone Settings', 'Neat Settings', 'Switch Settings' (selected), 'Scan Settings', 'IR Repeat Settings', and 'Dedicated Alarm Settings'. The main configuration area lists five input types with their respective switch modes:

- Wired Input 1:** Switch Input 1
- Wired Input 2:** Don't Use
- Internal Capacitive Input:** Don't Use
- Remote Input 1:** Switch Input 1
- Remote Input 2:** Don't Use

To the right of the Remote Input settings, there are two numeric input fields: 'Channel For Remote Switch 1' (value 1) and 'Channel For Remote Switch 2' (value 2). At the bottom of the page are three buttons: 'Previous', 'Next', and 'Save'.

The Freeway is operated via a number of inputs.

These inputs are configured in a default order but can be changed to accommodate different situations or user needs.

Wired Input 1

Wired input 1 switch mode options:

- Don't Use
- Switch Input 1
- Switch Input 2
- Dedicated Alarm

Wired Input 2

Wired input 2 switch mode options:

- Don't Use
- Switch Input 1
- Switch Input 2
- Dedicated Alarm

Internal Capacitive Input

Internal capacitive input mode options:

- Don't Use
- Switch Input 1
- Switch Input 2
- Dedicated Alarm

Remote Input 1

Remote input switch 1 (set to channel 1) options:

- Don't Use
- Switch Input 1
- Switch Input 2
- Dedicated Alarm

Channel For Remote Switch 1

Remote switch 1 channel options:

- 0 = Channel 0
- 1 = Channel 1
- 2 = Channel 2
- 3 = Channel 3
- 4 = Disabled

Remote Input 2

Remote input switch 2 (set to channel 2) options:

- Don't Use
- Switch Input 1
- Switch Input 2
- Dedicated Alarm

Channel For Remote Switch 2


Remote switch 1 channel options:

- 0 = Channel 0
- 1 = Channel 1
- 2 = Channel 2
- 3 = Channel 3
- 4 = Disabled

Scan Settings

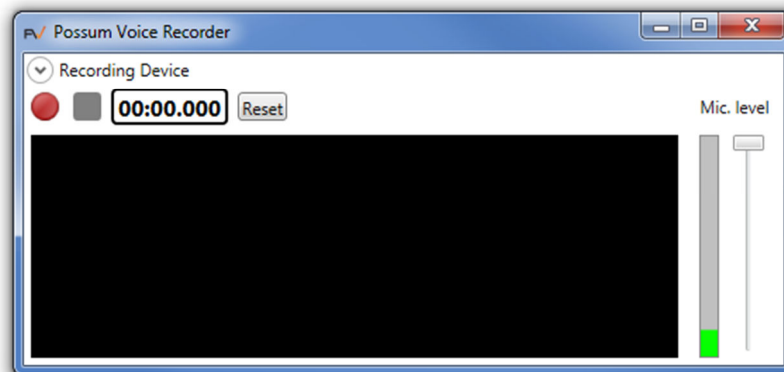
Start
Client Details
Global Settings
Page Settings
Cell Settings
Finish

Phone Settings
Neat Settings
Switch Settings
Scan Settings
IR Repeat Settings
Dedicated Alarm Settings

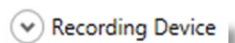
Setting	Current Value	Description
Default Sound	0	Contains the file# holding the 'default' sound used when no square specific sound is specified. If zero, no default sound is used.
Scan Cycle Slow Down %	20	Percentage increase in scan time for repeated scans cycles. 0 means no increase in scan time, 20 = 20% longer on each subsequent pass.
Turbo Speedup	80	For 'turbo' scan mode, %age of scan period for the turbo pass 100 = no speed up, 80 = delay is 80% of standard.
Turbo Announce	No	If nonzero, announce during forward pass of turbo scan
Max Cycles	3	If no 'press' maximum number of scan cycles.
Dim Cell Level	20	The relative brightness of a 'dimmed' cell; 0..100% of full brightness
Press Debounce	 0.025 Seconds	Internal and external switch press debounce delay
Dedicated Alarm Debounc	10	Press debounce for dedicated alarm input
Manual Scan Press Time	5	Period for manual scan select press [LONG PRESS], as multiple of debounce period

Previous
Next
Save

Possum Voice Recorder



Recording Device






This is the currently selected device for recording audio.

To check the currently selected device, click the arrow down circle to expand the information.



The information can be hidden again by clicking the arrow up circle.

-  Click [record](#) to start recording audio
-  Click [stop](#) when you have recorded the required audio
-  When not recording the stop button will be inaccessible

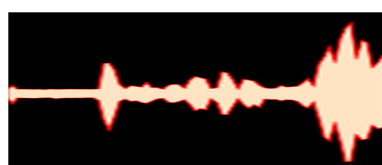
 Indicates [length of current recording](#)

 Whilst recording select [reset](#) to clear & begin recording again

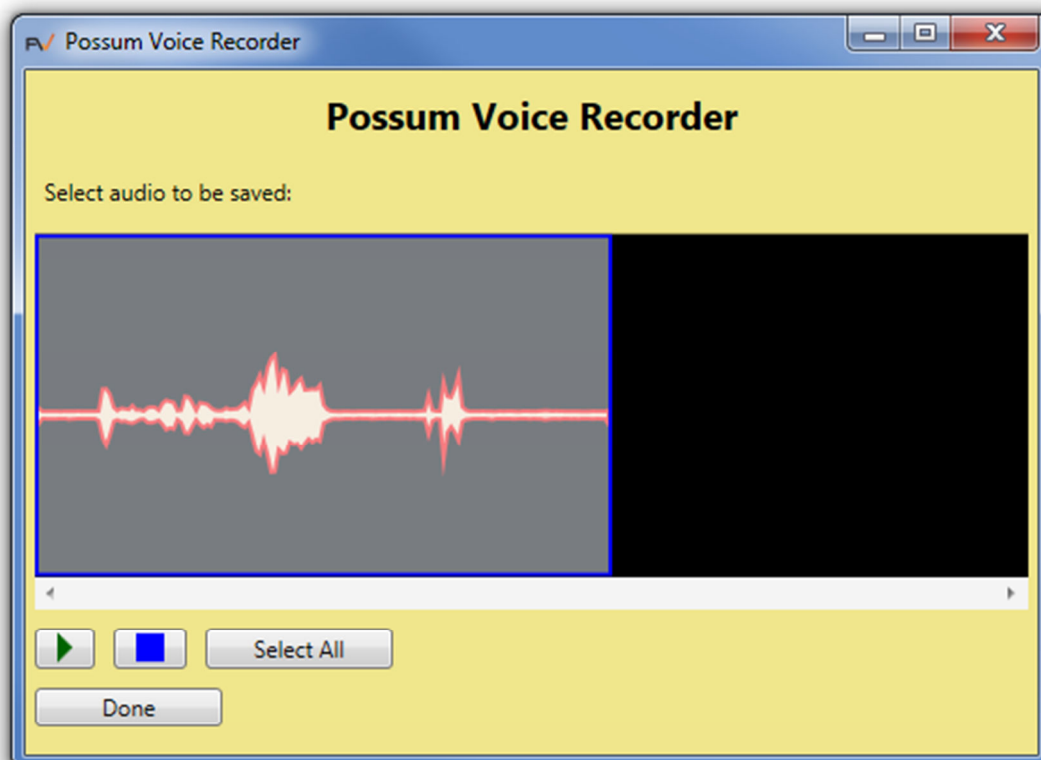
Mic. level



The [MIC/recording level](#) can be altered by moving the slider up & down.
Whilst recording your audio it will be displayed as shown below:



Once your audio has been recorded you will be presented with the following:



Advanced Settings

Advanced System Settings

Dedicated Alarm Action

This is the action triggered by the dedicated input (switch 3).

Dedicated Input Alarm ID

The action parameter used for dedicated alarm.

Remote Switch Ch2

Remote switch 2 channel options:

- 0 = Channel 0
- 1 = Channel 1
- 2 = Channel 2
- 3 = Channel 3
- 4 = Disabled

Default Sound

Specifies the sound file used for the default sound.

- 0 = No sound file used

Cycles to Extend

Set the percentage of increase delay for repeat scans.

- 0 = No increase delay
- 10 = 10% increase on each subsequent pass
- 20 = 20% increase on each subsequent pass
- Etc...

Turbo Speedup

Set the percentage for turbo pass scanning (turbo scanning only).

- 100 = 100% of standard scanning speed (no change)
- 80 = 80% of standard scanning speed
- 70 = 70% of standard scanning speed
- Etc...

Turbo Announce

Announce during forward pass of turbo scanning.

Max Cycles

Set the maximum number of repeated scanning cycles.

- 0 = No repeats

Dim Cell Level

Set the percentage of the relative brightness of a dimmed cell.

- 100 = 100% brightness
- 20 = 20% brightness
- Etc...

Press Debounce

Press debounce delay for Internal and external switches.

This reduces the chance of multiple presses depending on user input.

Time is set in units of 5 milliseconds

- 1 = 5ms
- 5 = 25ms
- Etc...

Dedicated Alarm Debounce

Set the press debounce delay for dedicated alarm (switch 3).

This reduces the chance of multiple presses depending on user input.

- 1 = 5ms
- 5 = 25ms
- Etc...

Manual Scan Press Time

The period of time required for manual scan select presses (long press).

This value will multiply the press debounce value.

Fast Glide To

Set the timeout period for “Fast Glide” operations.

After the time period has expired the operation will halt.

Value is set in milliseconds.

Slow Glide To

Set the timeout period for “Slow Glide” operations.

After the time period has expired the operation will halt.

Value is set in milliseconds.

Subsidiary To

When “Subsidiary To” is activated (and input is transferred) there needs to be a method of escape/timeout so control can be returned to Qwayo.

Set the period of time (in milliseconds) for user inactivity (no switch operation) before returning control to Qwayo.

Sticky To

Once a cell is triggered (via operation of Qwayo switch or touch screen) its action will be repeated until the user triggers the Qwayo switch or touches the screen again to cancel the sticky to operation.

When “Sticky To” is activated (and the cell action begins to repeat) there needs to be a method of escape/timeout so the operation can be cancelled, in cases where it cannot be cancelled manually.

Value is set in milliseconds.

Phone Type

Selects the infrared codes used for the telephone function actions and phonebook dials.

- 0 = No telephone
- 1 = HC2006 (Sero!) Channel 6
- 2 = HC2006 (Sero!) Channel 7
- 3 = HC2006 (Sero!) Channel 8
- 4 = Freedom
- 5 = GEWA
- 6 = HC2003
- 7- 15 = Reserved
- 16 = Other telephone (use captured codes)

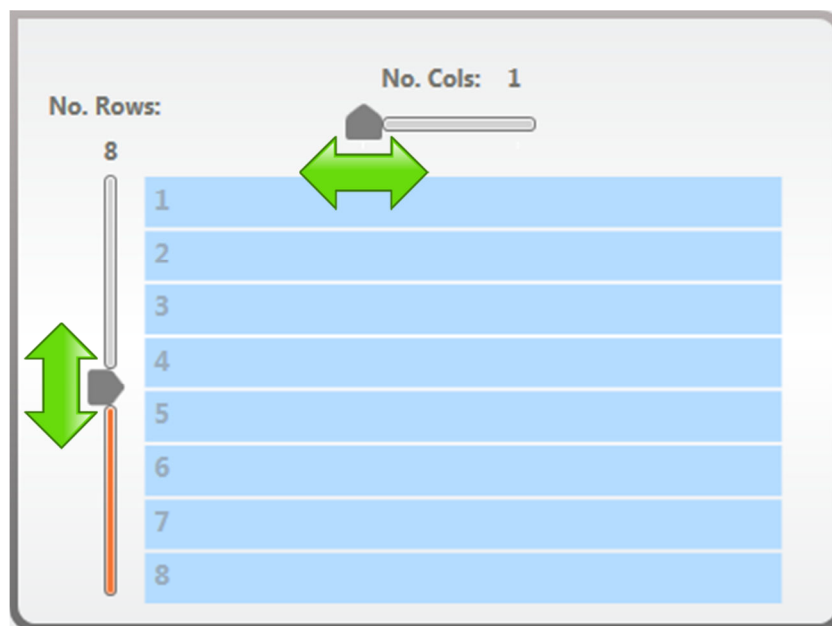
Page Settings

Page Settings

Select Layout

Select layout

Configure the layout of the Freeway screen by selecting the number of Rows (16 maximum) and Columns (2 maximum).



No. Rows

To increase the number of rows, slide the pointer upwards.

To reduce the number of rows, slide the pointer downwards.

As the pointer is moved rows will appear or be removed accordingly.

No. Cols

To increase the number of columns, slide the pointer to the right position.

To reduce the number of columns, slide the pointer to the left position.

As the pointer is moved columns will appear or be removed accordingly.

Note. Cells that are already populated when hidden can be recovered if the editor does not move away from the “Page Settings” area.

Once the editor has moved away from this tab any cells that were hidden will be permanently lost.

Below we can see a Freeway layout with the maximum number of cells available along with their sequential ordering:

No. Rows:	No. Cols: 2	
16		
1	32	
2	31	
3	30	
4	29	
5	28	
6	27	
7	26	
8	25	
9	24	
10	23	
11	22	
12	21	
13	20	
14	19	
15	18	
16	17	

Page Settings

Scan Settings

Scan Settings

Customize the user's preferred method of input control, scanning mode and auditory prompt. Select the box positioned next to the required option to enable it.

Selection Method	Scanning Mode	Auditory Prompt
<input checked="" type="checkbox"/> Momentary	<input checked="" type="checkbox"/> Linear	<input type="checkbox"/> None
<input type="checkbox"/> Held	<input type="checkbox"/> Column/Row	<input type="checkbox"/> Speech
<input type="checkbox"/> Manual	<input type="checkbox"/> Quadrant	<input checked="" type="checkbox"/> Beep
<input type="checkbox"/> Turbo	<input type="checkbox"/> Record Prompts	

Selection Method

How the switch will be used to initiate scanning and select cells.

Momentary

Press and release the switch to start scanning.

Press and release the switch whilst scanning to select a cell.

Held

Press and hold the switch to start scanning.

Release switch whilst scanning to select a cell.

Manual

Press to start scanning.

Short press will scan to the next cell.

Long press will select the current cell.

Turbo

Press and release the switch to start scanning (scanning speed will be fast).

When turbo scanning has passed the desired cell, press and release the switch to pause scanning and then initiate reverse scanning (at the normal scan speed).

When the desired cell is highlighted, press and release the switch to select the cell.

Scanning Mode

How the layout will be scanned.

Linear

Scanning begins at the top and will move downwards until it reaches the last cell, scanning will then begin from the top again.

If two columns exist, scanning will begin in the upper left corner and move downwards.

Once the first column has been scanned the second column (column positioned on the right) will begin scanning in the lower right corner and move upwards until it reaches the last cell, scanning will then begin again from the upper right corner.

Column/Row

Scanning begins with the column positioned on the left. Each column is highlighted in turn.

Once a column has been selected cells within the selected column will be scanned individually beginning from the upper cell.

Quadrant

Quadrant scanning moves in an anti-clock wise movement beginning with the quadrant positioned in the upper left corner, then the lower left corner, then the lower right corner and finally the upper right corner.

Once a quadrant has been selected its cells are highlighted in-turn starting with the upper cell and moving down.

Auditory Prompt

This is the sound that will be played when the cell is highlighted (not selected).

None

No auditory prompt is set.

Speech

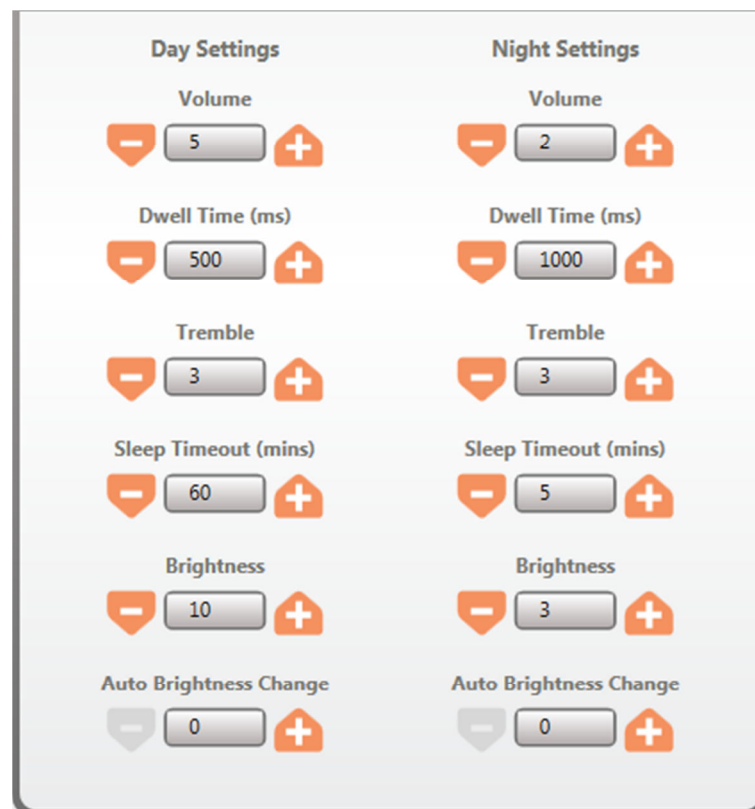
The chosen recorded prompt will be heard.

Beep

A beep will be heard.

Day and Night Settings

The lower section of scan settings allows manipulation of day and night settings as shown below:



Freeway has an on-board ambient light sensor that (depending on the environment and surroundings) can determine if day or night mode is required.

In situations where light is poor, Freeway will automatically enable “Night Settings”.

In situations where light is good, Freeway will automatically enable “Day Settings”.

As a result of the Freeway’s intelligence user view-ability is optimized and valuable battery charge is conserved, resulting in longer overall usage times.

Each option can be adjusted via its corresponding paddles positioned to the left and right of the options value:



To reduce an options value select paddle down.

To increase an options value select paddle up.

Volume

Set the volume level for the relevant day and night setting.

For example, in busy daytime environments volume may be required to be set at a higher level so can be heard clearly, but in evening times volume may be required to be reduced as a result of reduced background noise.

Dwell Time (milliseconds)

Set the dwell time for the relevant day and night setting.

Dwell time determines the period of time each cell is dwelled upon until it moves to the next cell in the scanning cycle – in effect, this is the scanning speed.

Lower values will result in shorter dwell times resulting in a faster scanning cycle.

Higher values will result in longer dwell times resulting in a slower scanning cycle.

Tremble

Tremble determines how long the switch needs to be held down before the appropriate action is triggered. Values are groups of 10 milliseconds for example, 2 = 20 milliseconds.

Sleep Timeout (minutes)

Set the period of time to elapse (in minutes) of user inactivity before the unit falls to sleep.

Brightness

Set the default Freeway brightness level.

For example, in light daytime environments a high level of brightness may be required to optimize scanning visibility. In evening low light environments a lower level of brightness may be required.

Values range from 0 – 15 (0 = lowest / 15 = highest)

Auto Brightness Change

Freeway's on-board ambient light sensor can adjust the level of brightness automatically.

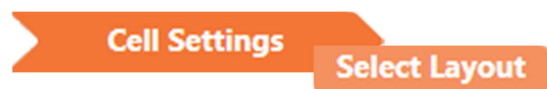
"Auto Brightness Change" allows control over the level of automated change in brightness.

Setting the value to 4 will allow Freeway to adjust the brightness using its full range.

Setting the value to 0 will disable "Auto Brightness Change".

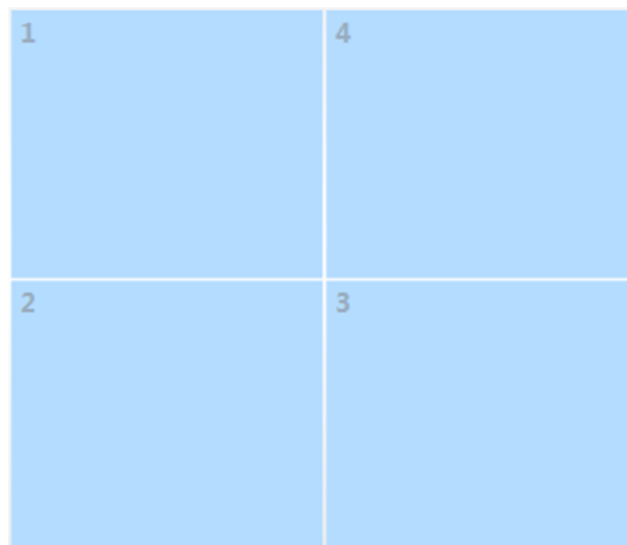
Cell Settings

The “Cell Settings” area is where cells within your layout are configured.

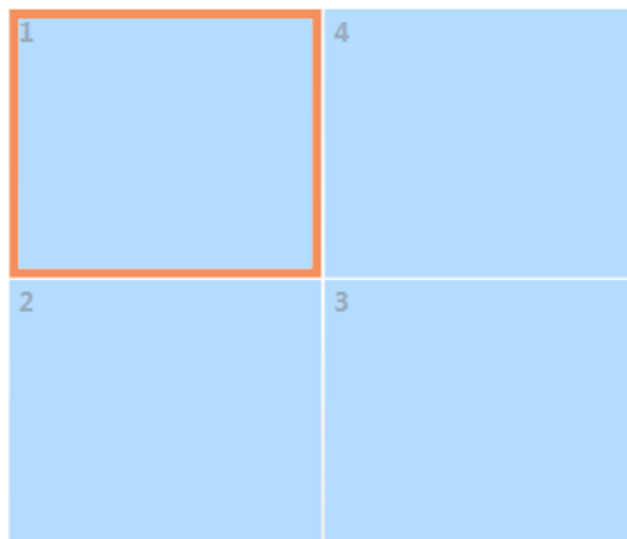


Select layout

Within the “Select Layout” area (situated on the left) your pre-configured layout will be displayed as shown below (in this case a 2x2 cell layout):



In order to select a cell from within the layout for editing, simply select the cell & it will be highlighted as shown below:



Once a cell has been selected it can be configured within the “[Edit Cell](#)” area.

Cell Settings

Edit Cell

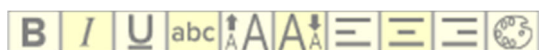
Edit Cell

After selecting a cell for editing (from the “[Select Layout](#)” area situated on the left) its available “Edit Cell” options will become available.

Appearance

Background colour, image, text and prompt configurable cell options are available.

Text Formatting Toolbar



The text formatting toolbar provides a number of text formatting icons:

	Makes selected text and numbers bold		Reduces selected text and numbers font size
	Makes selected text and numbers italic		Aligns to the left with a ragged right margin
	Underlines selected text and numbers		Centres the selected text and numbers
	Toggles selected text uppercase/lowercase		Aligns to the right with a ragged left margin
	Increase selected text and numbers font size		Changes colour of selected text and numbers

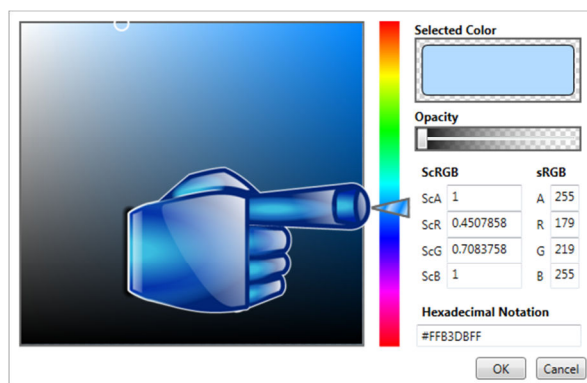
Set Cell Text

Set cell text:

Select the text field and enter the text that you would like to appear for the currently selected cell's label.



Select this option to adjust the currently selected cells background colour:



To change cell background colour, left click and hold the hue scale colour slider (shown above) then move vertically in the required direction – as the slider is moved it will change colour accordingly.

Below we can see that the colour has been changed from pale blue (shown above) and red has been selected:



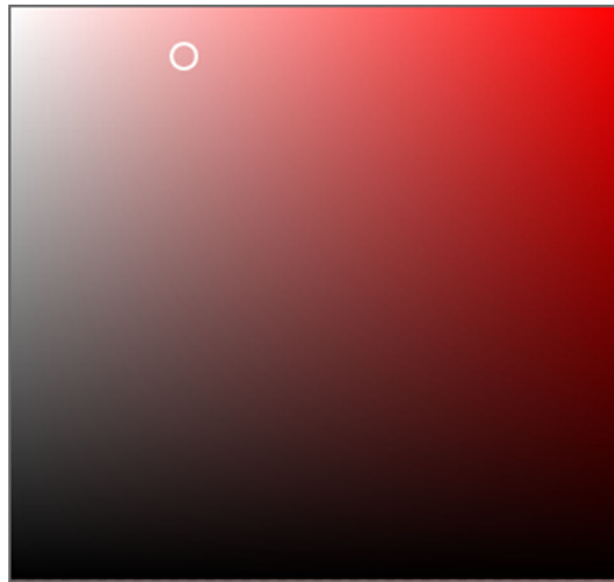
The selected colour will then be displayed in the upper right corner as shown below:



Note. To quickly jump to the required colour click the sliders bar on the selected area and the slider will reposition it-self accordingly.

Once a cell background colour has been selected, its colour shade can also be adjusted.

To change the shade of the cell background colour, click the required area in the window positioned on the left as shown below:



To lighten the shade of colour, select an area towards the upper left corner.

To darken the shade of colour, select an area towards the lower right corner.

Above we can see that the red colour has been changed to a light shade of pink.

We can also adjust the cell background colours opacity:



Moving the opacity slider in a horizontal direction will change the opacity of the currently selected colour automatically.

Positioned directly below the opacity slider are a number of colour values.

ScRGB and sRGB

The ScRGB and sRGB colour space values allow a selected colour to be accurately represented – this can be very useful when wanting to use the same colour scheme over a number of different cells.

ScRGB		sRGB	
ScA	1	A	255
ScR	0.8307699	R	235
ScG	0.008568126	G	23
ScB	0.008568126	B	23

Hexadecimal Notation	
#FFEB1717	

Cut	Ctrl+X
Copy	Ctrl+C
Paste	Ctrl+V

The Hexadecimal notation is derived from both ScRGB and sRGB values.

As shown above the hexadecimal notation value can be highlighted and then copied (right click on the value once it has been highlighted or press Ctrl+c).

Once the value has been copied to the clipboard it can then be pasted into another cells hexadecimal notation field (right click the empty field and selecting paste or press Ctrl+v).

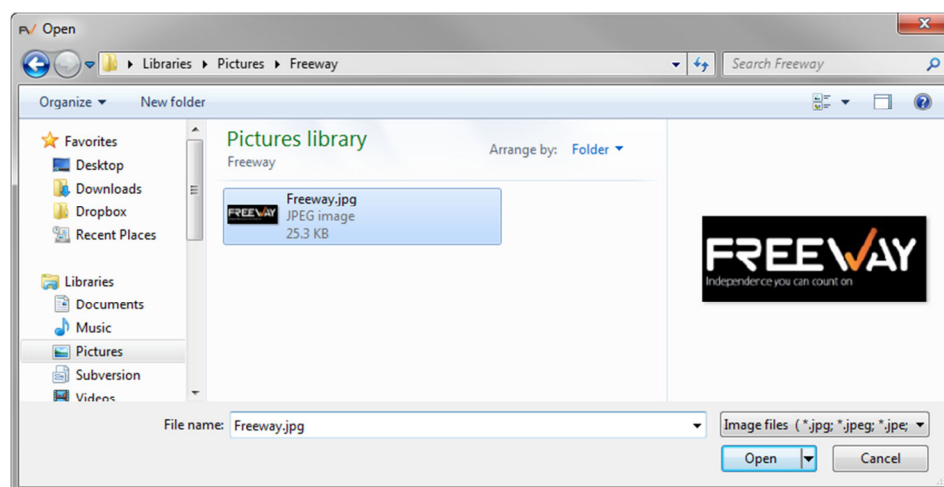
Note. A hexadecimal notation can be pasted multiple times as long as it remains within the clipboard and is not overwritten.

Note. All ScRGB and sRGB values can be copied and pasted.

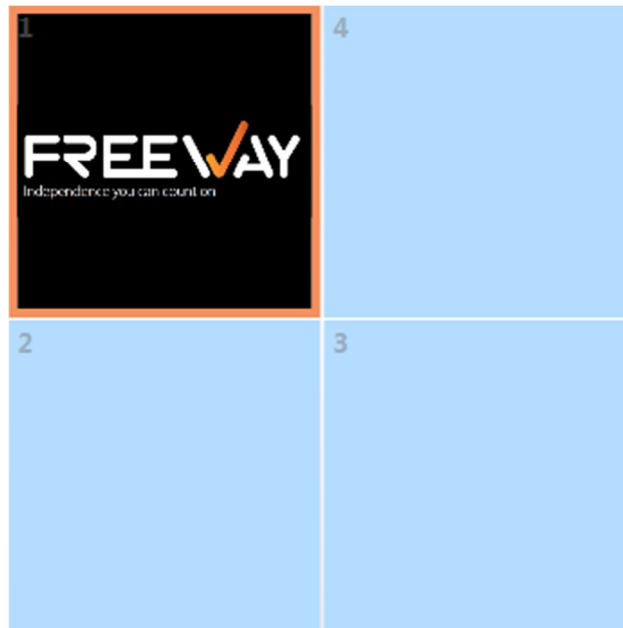
Choose Image

Choose Image

Select this option to add an image to the chosen cell. The Freeway file browser will appear allowing you to navigate to an image file that resides on your local drive, as shown below:



Once an image has been chosen for the cell (either via double clicking the image or selecting “Open”) the file browser will automatically close and the cell should now display the chosen image – below we can see the upper left outlined cell has a black background colour and a Freeway image file:



Remove Image

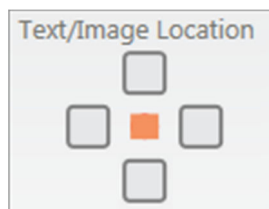
Remove Image

Once an image has been assigned to a cell the “Remove Image” option becomes available.

To remove an assigned image from a cell, select the cell and then select “Remove Image”, the image will be removed promptly.

Note. If no image has been assigned then the remove option will be greyed out (inaccessible).

Text/Image Location

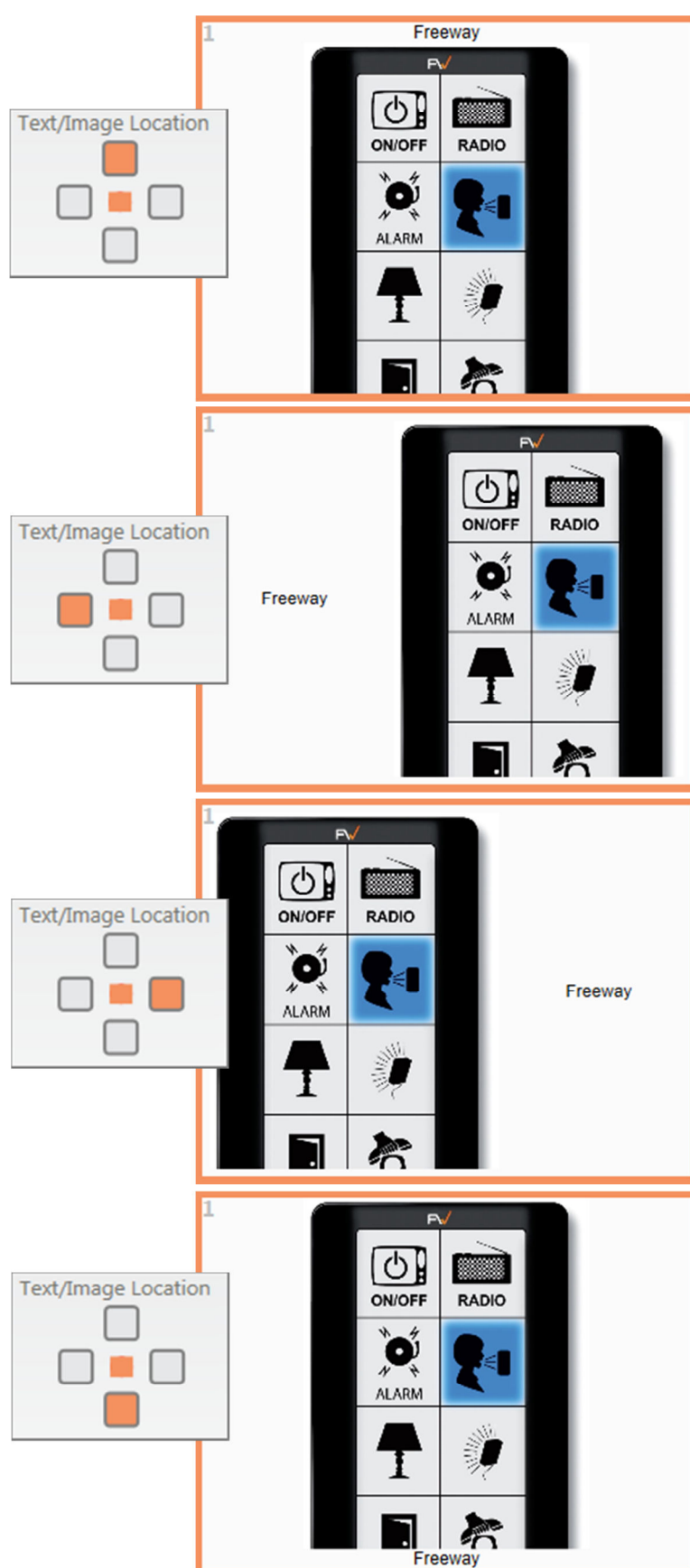


Choose the texts position relative to the associated image.

The small central orange square box represents the images position.
The four surrounding (larger) rounded boxes determine the texts position.

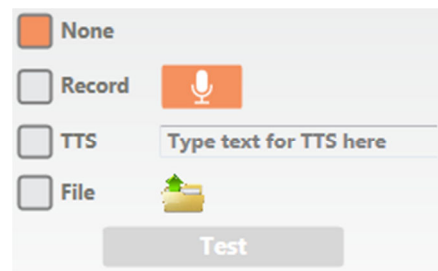
Selecting one of the four surrounding boxes will position the text and image accordingly.

Please see the following examples:



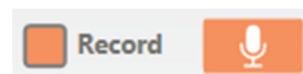
Cell Prompt

Record/select and assign a sound file for the currently selected cell's audio prompt.



A selection interface for the cell prompt. It features four radio buttons: 'None', 'Record', 'TTS', and 'File'. The 'Record' option is selected, indicated by an orange square. To the right of the 'Record' button is a microphone icon. To the right of the 'TTS' button is a text input field containing the placeholder text 'Type text for TTS here'. To the right of the 'File' button is a folder icon with a green arrow pointing up. Below these options is a 'Test' button.

Record



The 'Record' option is selected, shown with an orange square and a microphone icon.



Selecting "Record Prompt" will initiate the [Possum Voice Recorder](#).

After recording an audio prompt for the cell, the length of the sound clip will be displayed and the "Test" button will become accessible:



The 'Record' option is selected, shown with an orange square and a microphone icon. To the right of the microphone icon, the text '2.1 seconds' is displayed.

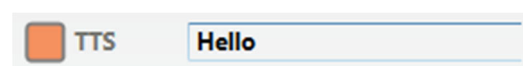


A large orange button labeled 'Test'.

To playback the recorded audio select "Test".

TTS (Text To Speech)

Select TTS and type the required word(s) in the box provided.



The 'TTS' option is selected, shown with an orange square. To the right of the 'TTS' button is a text input field containing the text 'Hello'.

To test the text entered select "Test" and the typed message will be spoken.



A large orange button labeled 'Test'.

File (Import Local File)

In cases where audio prompts/files already exist, these local files can be selected and assigned via the Freeway file browser.

Select "File" to select a sound file from your local drive.



The 'File' option is selected, shown with an orange square. To the right of the 'File' button is a folder icon with a green arrow pointing up.

Note. Freeway currently supports sound files of type ***.wav** only.

Upon selection the Freeway file browser window will open allowing 'navigation to' and 'selection of' an audio file of your choosing.

Action

Each cell is capable of performing a number of simple or advanced actions if required. Actions are split between three sections:

- No Action Required
- Simple
- Advanced

When configuring a cell if no action is required then the corresponding option should be selected – this is the default action option.

☐ No Action Required

Simple (Actions)

The 'Simple' section is selected. It includes the following options:

- Transmit Infra-red:** A trash can icon and a 'Choose IR' button.
- Transmit NEAT Alarm:** A text input field.
- Dial A Number:** A text input field.
- Play a Sound:**
 - ☒ None
 - ☐ Record (with a microphone icon)
 - ☐ TTS (with a text input field labeled 'Type text for TTS here')
 - ☐ File (with a folder icon)
- Test:** A button at the bottom right.

The simple actions area offers quick and direct access to a number of simple actions.

Note. All four simple actions can be assigned to a cell at the same time.

Transmit infra-red

Select an infra-red device and transmit one of its commands from the Possum Freeway infra-red database. Select "Choose IR" and the following window will be displayed:

The 'Choose IR' dialog box contains the following elements:

- Choose IR:** An orange button at the top left.
- Appliance Type:** A dropdown menu.
- Manufacturer:** A dropdown menu.
- Model:** A dropdown menu.
- Function List:** A table with columns 'Function Name', 'Primary Code', and 'Alternate Code'. The table is currently empty.
- New Function:** A dropdown menu.
- Repeat IR:** A checkbox.
- Transmissions Interval (ms):** A numeric input field with a value of 0 and minus/plus buttons.
- Timeout Setting:** A dropdown menu.
- Buttons:** 'OK', 'Cancel', and 'Capture Search' at the bottom.

In order to select an infra-red device, start with selecting the required “Appliance Type”.

Note. Selection boxes will be greyed out whilst inaccessible – on making a selection the next box will become accessible.

Once an “Appliance Type” has been chosen, “Manufacturer” will become accessible – click “Manufacturer” and select the required option from the drop down list.

Once a “Manufacturer” has been chosen, “Model” will become accessible – click “Model” and select the required option from the drop down list.

When an “Appliance Type”, “Manufacturer” and “Model” have been chosen the device list of functions will be displayed as shown below:

Television
Appliance Type

Panasonic
Manufacturer

N2QAYB000239
Model

Function Name	Primary Code	Alternate Code
0	▶ ●	▶ ●
1	▶ ●	▶ ●
2	▶ ●	▶ ●
3	▶ ●	▶ ●
4	▶ ●	▶ ●

▼ New Function

☐ Repeat IR

Mode: [] Transmissions Interval (ms): [0] Timeout: []

OK Cancel Capture Search

In order to select one of the devices functions (and assign it as a simple cell action) select the required function and it will highlight orange as shown below:

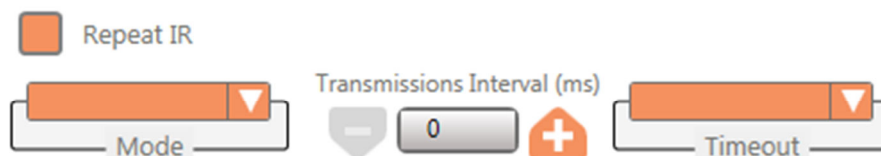
Function Name	Primary Code	Alternate Code
0	▶ ●	▶ ●
1	▶ ●	▶ ●
2	▶ ●	▶ ●
3	▶ ●	▶ ●
4	▶ ●	▶ ●

Note. Functions with infra-red assigned will have an accessible green playback button.

Repeat IR

Once a device and function have been selected if required the selected transmission can be repeated.

In order to enable “Repeat IR” click the adjacent box and it will become accessible.



Repeat IR Modes



The “**Glide**” option repeats the chosen infra-red transmission whilst switch input is held. Upon releasing switch input the transmission will halt.

The “**Sticky**” option repeats the chosen infra-red transmission after press and release of switch input, the switch must be pressed and released a second time to halt repeated transmission.

The “**Subsidiary**” option repeats the chosen infra-red transmission on each switch press. This mode times out after, say, 30 seconds from last transmission. This timeout is configurable in the Advanced Settings section of the software.

Transmission Interval

This is the period of time between repeated transmissions.
Set the value in milliseconds.

Timeout

This is the period of time set to elapse before halting a repeated infra-red transmission if no user input is received.

- Short: Refers to “[Fast Glide To](#)” Global Setting value
- Long: Refers to “[Slow Glide To](#)” Global Setting value

When you have successfully chosen an infra-red function and configured its repeat options, select “OK” to save your changes and return to “Cell Settings”.



Capture Search

Capture Search

If you cannot find a particular device within the Possum Freeway infra-red database, the “Capture Search” facility allows the user to transmit an infra-red command from their desired handset and search the Possum Freeway infra-red database for any possible existing matches.

Upon selecting “Capture Search” you will be prompted with the following:



As instructed in the image above, position your Freeway and device handset accordingly and transmit the desired infra-red command.

Note. During infra-red capture the Freeway will indicate the stream of data received represented in two vertical bars. In most cases only a short press is needed whilst capturing infra-red and will be illustrated on the Freeway by only the lower left bar lighting.

Infra-red Capture

In some cases infra-red functions will still need to be captured.

As shown below each infra-red function has two capture infra-red options available known as "[Primary and Secondary codes](#)".



Selecting one of the little red record buttons will prompt for capture of the chosen primary or secondary code.

Position the Freeway and original handset (as shown in "[Capture Search](#)" section) and transmit the required infra-red code.

After successfully capturing the desired infra-red command you will be returned to the "IR Selection" window where your recently captured code will be available for playback (as shown below).



Select "OK" to save changes and return to "Cell Settings".

Primary and Secondary Codes

Some infra-red devices require two slightly different infra-red codes (received alternatively) in order to operate correctly. Primary and Secondary codes accommodate situations where two codes are required.

Note. When capturing the secondary code ensure the button press is directly after capturing the primary code. This will reduce the risk of capturing identical infra-red codes behind both primary and secondary positions. If the secondary code is left blank it will be ignored and the primary code will be transmitted on every cell action.

New Function

In some cases, infra-red functions will need to be added.

Once an "Appliance Type", "Manufacturer" and "Model" has been chosen its list of functions will appear below. If a new function is required click "New Function" as shown below:

Upon selecting "New Function" a "Name" field will appear as shown below:

 A dialog box titled "New Function" with a small upward arrow icon to the left of the title. Below the title is a text input field labeled "Name" which is currently empty. To the right of the input field is a grey button labeled "Add".

Enter the new functions name and you will notice that the "Add" option becomes accessible:

 A dialog box titled "New Function" with a small upward arrow icon to the left of the title. Below the title is a text input field labeled "Name" which now contains the text "Arrow Up". To the right of the input field is an orange button labeled "Add".

Select "Add" and the new function will be added to the currently selected devices list of functions.

Transmit NEAT Alarm

In order to assign a simple NEAT radio frequency transmission to a cell, place the required four digit number in the box provided as shown below:

Transmit NEAT Alarm:

Upon cell selection the NEAT code will be transmitted.

Note. Only number **0 – 9** and letters **A – F** are accepted.

Dial a Number

In order to assign a simple dial telephone number action to a cell, place the required telephone number in the box provided as shown below:



Dial A Number:

Upon cell selection the telephone number will be dialed.

Play a Sound

A sound can be assigned to play upon cell selection.

Play a Sound:

<input checked="" type="checkbox"/>	None	
<input type="checkbox"/>	Record	
<input type="checkbox"/>	TTS	<input type="text" value="Type text for TTS"/>
<input type="checkbox"/>	File	

If no sound is required then select “None” (as shown above).

To “Record” a sound or select a “File” please see earlier section “[Record Prompt](#)”.

TTS (Text To Speech)

Select TTS and type the required word(s) in the box provided.

To test the text entered select “Test” and the typed message will be spoken.

Advanced (Actions)

Select this option if you wish to configure advanced cell actions.

Available Actions

Phone Book

Play Voice/Sound

Transmit IR

NEAT

Dial a Number

Pause

Toggle Day/Night Mode

Loop

No Action

OK

Cancel

Clear

The “Available Actions” window (shown above) allows the editor to build a list of actions (within a custom order) and assign them to a single cell.

Phone Book

Select a contact from the phonebook to dial.

PhoneBook

Select Contacts

Select the circle with the “expand” symbol and the current phonebook contacts will be displayed. Choose the required contact by placing a tick in the adjacent box as shown below:


PhoneBook

Select Contacts

☒

Possum Ltd

The “Phone Book” advanced action has now been added to the list.

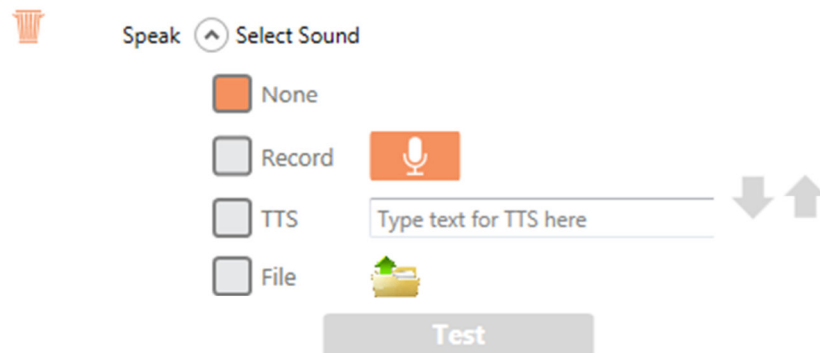
To remove the action, select “Delete Item”: 

Play Voice/Sound

Assign a recorded message, TTS or local sound file to play upon cell selection.



Select the circle with the “expand” symbol and play voice/sound options will appear:



Please refer to previous cell prompt sections “[Record](#)”, “[TTS](#)” and “[File](#)”.

To remove the action, select “Delete Item”:

Transmit IR

Assign an infra-red device command to transmit upon cell selection.



Please refer to the previous “[Transmit infra-red](#)” section.

When a device (and function) has been chosen, details of the selected device will be displayed upon returning to the available actions window (as shown above).

To remove the action, select “Delete Item”:

NEAT

Assign a NEAT code to transmit upon cell selection.



Enter the required four digit NEAT code into the provided box as shown above. Upon selecting the cell the entered NEAT code will be transmitted.

To remove the action, select “Delete Item”:

Dial a Number

Assign a telephone number to be dialled upon cell selection.

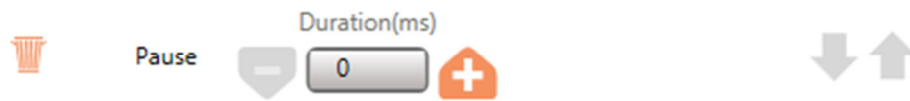


Enter the required telephone number into the provided box as shown above. Upon selecting the cell the telephone number will be dialled.

To remove the action, select “Delete Item”

Pause

The pause action inserts a period of time delay before the next action is executed.



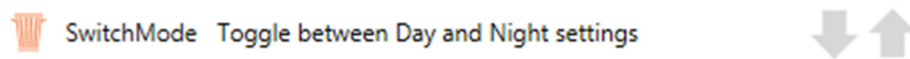
The time value is displayed in milliseconds and will increment or decrement in multiples of 100 via the - and + paddles positioned either side of the value box.

To remove the action, select “Delete Item”:

Note. Custom values can also be entered directly.

Toggle Day/Night Mode

Toggle between day mode and night mode preferences.



Upon selection will toggle the current mode preference.

To remove the action, select “Delete Item”:

Loop

Assigning a loop will result in looping any actions that appear within the list before the loop action.



A list of actions can be looped if required.

The loop action will always position itself at the end of the list and cannot be positioned elsewhere.

To remove the action, select “Delete Item”:

Note. The list of actions can only be looped once.

No Action

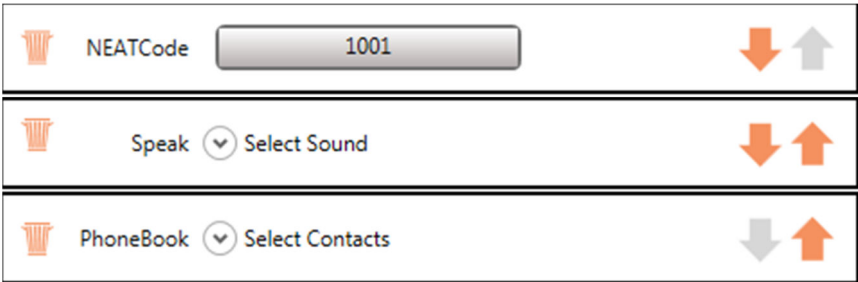
Select this option if no action is required.

To remove the action, select “Delete Item”:

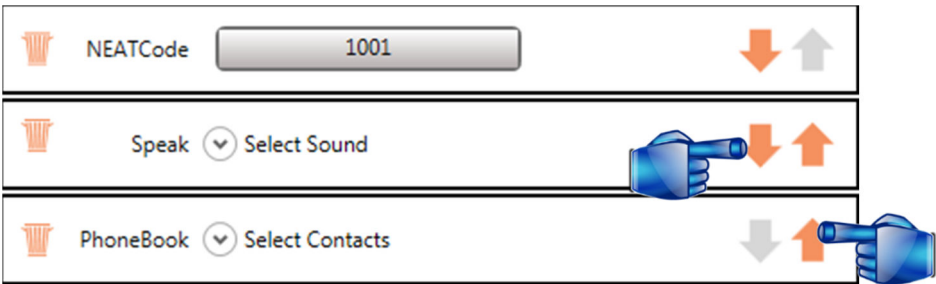
Positioning Actions within the Actions List

Each action in the actions list contains positional arrows, allowing the actions position within the list to be changed.

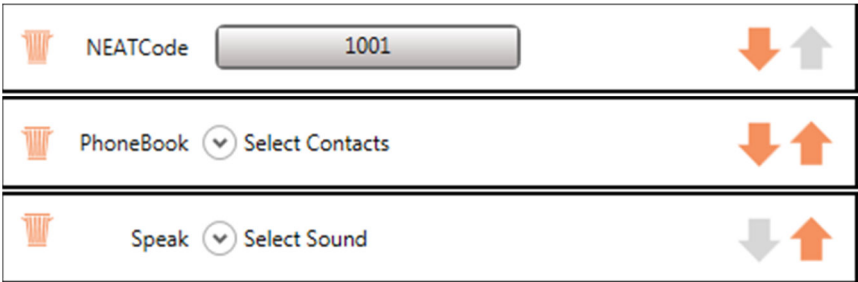
For example, below we can three actions added to the actions list.
Positions that are unavailable will have their arrows greyed out as shown below:



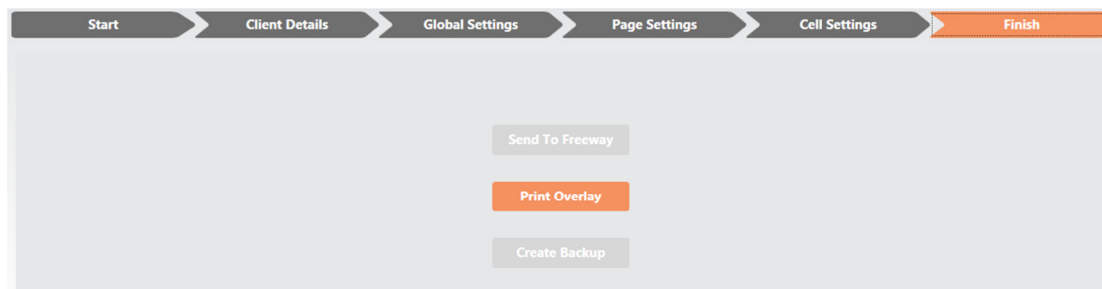
If we wanted to change our list so the phonebook contact is dialled before the speak action we can either select the speak actions positional arrow down or the phonebook actions positional arrow up:



This would then result in the required list of actions as shown below:



finish



Send To freeway

This option is enabled only if a new Freeway is plugged into the computer via the USB cable and switched on. Selecting this button will transfer the current setup to the device. A progress bar will become visible to monitor transfer progress.

Print Overlay

This option will bring up a print preview of the layout in its current state. From there, you can print the overlay using the windows print screen. If you want to make changes to the layout, quit the preview and modify the setup in the “Cell Settings” tab.

Create Backup

This option allows you to save your current setup to a file for storage. To open this file, choose the “Load From Drive” option from the “Start” tab.