Installation, Configuration & User Manual
for
iDrate Garden Reticulation System

Need this manual in a larger format? Download a copy

Airstream reserves the right to change or modify the design, specifications, software, hardware, firmware or Apps at any time without prior written or oral notice.
# Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Forward</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>iDrate lamp specifications</td>
<td>7</td>
</tr>
<tr>
<td>Part 1</td>
<td>SMART PHONE / TABLET CONTROL</td>
<td>8</td>
</tr>
<tr>
<td>1.1</td>
<td>Quick setup guide</td>
<td>8</td>
</tr>
<tr>
<td>1.2</td>
<td>Equipment</td>
<td>10</td>
</tr>
<tr>
<td>1.2.1</td>
<td>Standard iDrate control</td>
<td>10</td>
</tr>
<tr>
<td>1.2.2</td>
<td>Linking multiple iDrate modules</td>
<td>11</td>
</tr>
<tr>
<td>1.2.3</td>
<td>Connecting iDrate to an existing 24VAC retic system</td>
<td>12</td>
</tr>
<tr>
<td>1.3</td>
<td>System requirements for smart phone or tablet control</td>
<td>13</td>
</tr>
<tr>
<td>1.4</td>
<td>Installation instructions for smartphone or tablet</td>
<td>14</td>
</tr>
<tr>
<td>1.5</td>
<td>Configuration using a smart device</td>
<td>20</td>
</tr>
<tr>
<td>1.5.1</td>
<td>Name an iDrate watering station</td>
<td>20</td>
</tr>
<tr>
<td>1.5.2</td>
<td>Pairing iDrate system to bridge</td>
<td>22</td>
</tr>
<tr>
<td>1.5.3</td>
<td>Advanced configuration</td>
<td>23</td>
</tr>
</tbody>
</table>
Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.6</td>
<td>App user manual</td>
<td>25</td>
</tr>
<tr>
<td>1.6.1</td>
<td>Home screen</td>
<td>25</td>
</tr>
<tr>
<td>1.6.2</td>
<td>Stations screen</td>
<td>26</td>
</tr>
<tr>
<td>1.6.3</td>
<td>Station details</td>
<td>27</td>
</tr>
<tr>
<td>1.6.4</td>
<td>Adjust percentage run time</td>
<td>28</td>
</tr>
<tr>
<td>1.6.5</td>
<td>Programs</td>
<td>29</td>
</tr>
<tr>
<td>1.6.6</td>
<td>Edit programs</td>
<td>30</td>
</tr>
<tr>
<td>1.6.7</td>
<td>Schedules</td>
<td>31</td>
</tr>
<tr>
<td>1.6.8</td>
<td>Setting and editing a schedule</td>
<td>32</td>
</tr>
</tbody>
</table>
# Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 2</td>
<td>IDRATE COLOUR TOUCH SCREEN CONTROL</td>
<td>33</td>
</tr>
<tr>
<td>2.1</td>
<td>Equipment</td>
<td>33</td>
</tr>
<tr>
<td>2.1.1</td>
<td>iDrate control with a wall mounted colour touch screens</td>
<td>33</td>
</tr>
<tr>
<td>2.1.2</td>
<td>Linking multiple iDrate modules</td>
<td>34</td>
</tr>
<tr>
<td>2.1.3</td>
<td>Integrated iDrate, iLight &amp; iZone automation system</td>
<td>35</td>
</tr>
<tr>
<td>2.2</td>
<td>Installation instructions for touch screen control</td>
<td>36</td>
</tr>
<tr>
<td>2.3</td>
<td>Configuration</td>
<td>39</td>
</tr>
<tr>
<td>2.3.1</td>
<td>Name an iDrate watering station</td>
<td>39</td>
</tr>
<tr>
<td>2.3.2</td>
<td>Setting a station for soak and cycle</td>
<td>40</td>
</tr>
<tr>
<td>2.3.3</td>
<td>Advanced configuration</td>
<td>41</td>
</tr>
<tr>
<td>2.4</td>
<td>Touch screen user manual</td>
<td>43</td>
</tr>
<tr>
<td>2.4.1</td>
<td>Main menu</td>
<td>43</td>
</tr>
<tr>
<td>2.4.2</td>
<td>Home screen</td>
<td>44</td>
</tr>
<tr>
<td>2.4.3</td>
<td>Summary screen</td>
<td>45</td>
</tr>
<tr>
<td>2.4.4</td>
<td>Programs</td>
<td>46</td>
</tr>
<tr>
<td>2.4.5</td>
<td>Program setup</td>
<td>47</td>
</tr>
<tr>
<td>2.4.6</td>
<td>Schedules</td>
<td>48</td>
</tr>
<tr>
<td>2.4.7</td>
<td>Setting and editing a schedule</td>
<td>49</td>
</tr>
</tbody>
</table>
# Table of contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4.8</td>
<td>Setting the time</td>
<td>50</td>
</tr>
<tr>
<td>2.4.9</td>
<td>Changing the home screen colour</td>
<td>51</td>
</tr>
<tr>
<td><strong>Part 3</strong></td>
<td><strong>TROUBLE SHOOTING, FAQ, WARRANTY</strong></td>
<td><strong>52</strong></td>
</tr>
<tr>
<td>3.1</td>
<td>Trouble shooting</td>
<td>52</td>
</tr>
<tr>
<td>3.2</td>
<td>FAQ</td>
<td>56</td>
</tr>
<tr>
<td>3.3</td>
<td>iDrate product warranty policy</td>
<td>60</td>
</tr>
<tr>
<td>3.4</td>
<td>Further assistance</td>
<td>61</td>
</tr>
</tbody>
</table>
iDrate can be controlled from a number of different devices as follows:

- Smart phone or tablet
- An iZone colour touch screen
- A combination of two or more of the above devices

iDrate needs to be configured using a smart phone or iZone touchscreen. There are subtle differences between smart phone / tablet configuration and touch screen configuration. We recommend you use the appropriate part of this manual to assist you when setting up your iDrate system. Once configured correctly using one method, the configuration will be correct on other devices.

This installation and user manual has been divided into three parts as follows:

**Part 1. Smart Device** — installation, configuration and user manual for smart phones or tablets

**Part 2. iZone Touch Screen** — installation, configuration and user manual when combined with an iZone automation system

**Part 3. Trouble Shooting, FAQ and Warranty** — applicable to both Parts 1 and 2 above.

Installation should only be undertaken by qualified trades people. Work involving 240V must be installed by a qualified electrician in accordance with AS/NZ 3000:2007 Electrical installations.
## iDrate specifications

For model numbers: CRCT

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power supply</strong></td>
<td>Input: 24VAC 50Hz</td>
</tr>
</tbody>
</table>
| **Power consumption**         | Maximum - dependent on solenoid valves used  
Minimum - 3.6 Watts (includes Airstream transformer losses) |
| **Control frequency**         | 433 Hz |
| **Operating temperature range** | -5°C to +60°C |
| **Environment**               | Suitable for indoor or outdoor use. Suitable waterproof conduit connections must be fitted to the iDrate module if installing outdoors. |
| **Size & Weight**             | Height: 295 mm  
Width: 165 mm  
Depth: 82 mm  
Weight: 1650 grams (includes transformer) |
PART 1 - SMART PHONE / TABLET CONTROL

1.1 Quick setup guide

1. Download the iDrate App

2. Connect the wireless bridge to your modem Ethernet port. Plug the bridge into a GPO

3. Remove the iDrate system from its packaging and mount it on the wall using the two mounting holes. Wire the solenoid valves and pump / master valve (if used) as per the wiring diagram. If using an iDrate transformer, install it by removing the mounting bracket and install the transformer as shown below. Wire the 24V and common into the terminals as per the wiring diagram. Check all connections to ensure they are wired correctly and are secure.
4. Turn on the power to the installed iDrate system.

5. Press the “Pair” button on the iDrate retic controller and at the same time press the “Pair” button on the iDrate App. The blue pair LED on the iDrate retic controller will flash rapidly as it pairs to the system. Pair 2\textsuperscript{nd} and 3\textsuperscript{rd} iDrate modules (if fitted).

7. Start controlling your iDrate system via the App
1.2 Equipment

1.2.1 Standard iDrate control (up to 8 stations)

6 Station system with pump control shown above

A maximum of 24 stations can be controlled by a single system (3 iDrate modules linked see 1.2.2)
1.2 Equipment

1.2.2 Linking multiple iDrate modules

Maximum 24 station system with pump control shown above. Wiring to pump relay and solenoid valves as per standard iDrate control diagram 1.2.1

Set selector switch on each iDrate module for the appropriate solenoid valves

Modem, bridge, smartphone, bridge, optional repeater, pump and solenoid valves not shown for clarity
1.2 Equipment

1.2.3 Connecting iDrate to an existing 24VAC retic system

- Turn off existing retic controller but leave the power on to this unit.
- To save costs order iDrate without transformer.
- Use the 24VAC power from the existing controller to power the iDrate.
- Install links from existing retic controller to iDrate controller.
- Retain existing wiring to and from retic controller, pump, common & solenoid valves.

Modem, bridge, smartphone, bridge, optional repeater, pump and solenoid valves not shown for clarity.

6 station system with pump control shown above

A maximum of 24 stations can be controlled by a single iDrate system (3 iDrate modules linked to the existing retic controller see 1.2.2)
1.3 System requirements for smart phone or tablet control

Smartphone, Tablet or PC
• You will need a smartphone or tablet or PC. The following platforms are supported: Apple and Android.

System Requirements
iOS SOFTWARE REQUIREMENTS
• Compatible with iPhone, iPod touch, and iPad. iOS 6.0 and higher.

ANDROID SOFTWARE REQUIREMENTS
• Requires Android: 2.1 and higher.

WiFi modem or network switch
• You will also need a compatible WiFi modem or network switch with a spare RJ 45 access port. Some WiFi modems, firewalls and security settings are not compatible with the iDrate bridge and will need to be changed, or your modem replaced to enable the iDrate app to operate. If you have issues with your modem or network you will need to contact your IT expert to resolve them.
1.4 Installation instructions - for smart phone or tablet

1. Download the iDrate App
   a. You will need an account with the manufacturer of your phone to enable you to download Apps from their respective store.
   b. Apple—Apple App Store
   c. Android—Google Play Store
   d. Login to the respective store.
   e. To search for the iDrate App type “iDrate Controller” into the stores search menu.
   f. Select iDrate Controller and download the iDrate App

2. Connect the light bridge to your computer network via an Ethernet port.
1.4 Installation instructions for smart phone or tablet (continued)

3. The power pack and bridge can be separated if required.
   a) Use a Philips screw driver to remove the two screws at the base.
   b) Separate the two halves.
   c) Remove the power adaptor and discard the base.

4. Plug the bridge into a power outlet, switch the power outlet on. It is recommended that the bridge is located in the centre of the building and as high as possible to maximise the range.
1.4 Installation instructions for smart phone or tablet (continued)

5. Remove the iDrate system from its packaging and mount it on the wall using the two mounting holes. Wire the solenoid valves and pump / master valve (if used) as per the wiring diagram. If using an iDrate transformer, install it by removing the mounting bracket and installing the transformer as shown below. Wire the 24V and common into the terminals as per the wiring diagram. Check all connections to ensure they are wired correctly and are secure.
6. Switch the power on to the iDrate.

7. Press the pair button on the iDrate module and at the same time press the pair button on the App home screen. The blue Pair LED will flash blue while the iDrate pairs to the WiFi bridge.

8. If you have more than 8 stations you will require additional iDrate modules to control stations 9 to 16 and 17 to 24. Set the station range selector switch to the appropriate position and pair the additional iDrate modules as per above.

9. You are now ready to configure, name and control the watering stations on your App.
1.4 Installation instructions for smart phone or tablet (continued)

9. If you would like to control your iDRate system when you are away from home you will need to register your system at Airstream Living Technology https://worldwide.air-stream.com.au/
   b. Register your system. You will need a username (your email address) and a password (remember this as you will need it to login remotely). To register your system you need your unique system ID number. This can be found on your App. (see below)
1.4 Installation instructions for smart phone or tablet (continued)

c. Install and pair additional repeater modules as required to ensure full and reliable coverage across the whole building.

d. Once your iDrates are up and running you can test your remote login. To do this you need to simulate being outside your WiFi area:
   - On your smart phone go to settings and turn your WiFi OFF
   - Open the iDrate App
   - Click on “Login to World Wide”
   - Type in your email address and your password
   - We recommend you press “Login & Remember Me” to avoid having to type in the email address and password in future.
   - Select the system you are controlling
   - Try switching an iDrate on or off

e. Please note when operating the system remotely there can be a delay of up to 1 minute for the commands to be executed.

f. Don't forget to switch your WiFi back on.
1.5 Configuration using a smart device

1.5.1 Name an iDrate watering station

**Name iDrate watering stations**

It is recommended that you name your iDrate watering stations for ease of use.

1. To name your iDrate stations, go to “Stations”.
2. Press the current name.

3. Press the current name. This will take you to the Station details screen.
1.5.1 Name a station (continued)

4. Using the Backspace button, delete the existing name and type in your new name.
5. Press return to save
1.5.2 Pairing iDrate system to bridge

To Pair the iDrate controller to the bridge

Press and hold down the “Pair” button on the iDrate controller. The Pair LED on the controller will light up blue.

At the same time press the Pair button on the App

The Pair LED on the iDrate controller will flash blue rapidly to indicate it is pairing to the bridge. When it stops flashing the pairing process is complete.
1.5.3 Advanced configuration

Press here to change the number of soaks in a cycle

Press here to change how the iDrate system and the smartphone/tablet will automatically sync their time.

Press to go to back to the home page

Press here to change the number of connected stations (solenoid valves)

Press here to change the soak pause time

Press here to change the global Test run time for each station

Press here to change the maximum time any station can run for while in manual mode

Press here to change how the iDrate system and the smartphone/tablet will automatically sync their time.

Press here to manually sync the iDrate system to the smartphone/tablet’s time

Press here to pair the iDrate system to the bridge

Press here to manually configure the WiFi Bridge

Press here to change the radio frequency for the entire system. Please note if you change the frequency for the system you will need to re-pair all the connected wireless devices including switches, sensors and iLights
### 1.5.3 Advanced configuration (continued)

<table>
<thead>
<tr>
<th>Wifi Bridge</th>
<th>Press here to change the first tag line on the screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>iDrate</td>
<td>Press here to change the second tag line on the screen</td>
</tr>
<tr>
<td>Home Automation</td>
<td>Press here to view the iDrate device list</td>
</tr>
<tr>
<td>iDrate Device List</td>
<td></td>
</tr>
<tr>
<td>Change Password</td>
<td>Press here to change the password</td>
</tr>
</tbody>
</table>
1.6 App user manual

1.6.1 Home screen

- Press here to switch your system On and Off.
- Press here to test all stations. The test run time can be adjusted in Config. Arrow will turn green when running in a test mode.
- Press here to increase or decrease the watering time by a set percentage for all stations.
- Press to manually run a program or to set up or edit a program. (1.6.5).
- Press here if rain is forecast. You can select between 1 and 7 rain days. When you want the system to run scheduled programs this must be set to Fine.
- Press to pair an iDrate module. The “Pair” button on the iDrate module must also be pressed at the same time.
- Press to name your iDrate system. You can have up to 5 different iDrate systems on your App. Naming them helps you to easily identify each system (see 1.4).
- Warning to indicate a faulty solenoid, station or wiring that is serving a station named Flower beds.
- Tag lines. These descriptions can be changed in the Config.
- Press to activate a schedule or to configure a new schedule (See 1.6.7).
- Press to access advanced configuration settings (See 1.5.3).
- Logout of the current iDrate system.
## 1.6.2 Stations screen

<table>
<thead>
<tr>
<th>Station</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front lawn</td>
<td>Auto</td>
</tr>
<tr>
<td>Vegies</td>
<td>Auto</td>
</tr>
<tr>
<td>Back Garden</td>
<td>Man</td>
</tr>
<tr>
<td>Pot Plants</td>
<td>Pause</td>
</tr>
<tr>
<td>Back Lawn</td>
<td>Auto</td>
</tr>
<tr>
<td>Tennis Court</td>
<td>Soak</td>
</tr>
<tr>
<td>Flower beds</td>
<td>Fault</td>
</tr>
<tr>
<td>Hot house</td>
<td>Test</td>
</tr>
</tbody>
</table>

- **Press to go to the main menu page.**
- **Press here to go to the details screen for this station. See (1.6.3).**
- **Factory default name is Station 4. Press here to change name.**
- **Station name. Press here to change name or access details.**

- **Indicates this station is set to run automatically via a schedule or programme.**
- **Indicates this station is running due to a schedule or program.**
- **Indicates this station is running in manual mode.**
- **Indicates this station is manually overridden Off and will not run as part of any programme, schedule or test mode.**
- **Indicates this station is running due to a schedule or program. This station is set to Soak cycle.**
- **Indicates this station is running due to a schedule or program. This station is set to Soak cycle and has paused in the Soak part of the cycle.**
- **Indicates this station has a fault. See trouble shooting to fix the problem.**
- **Indicates this station is running in test mode.**
1.6.3 Station details

To navigate here from the Home screen press > Stations > Station name

- Press to go back to the summary screen
- Indicates you are in the station details menu
- Current name for this station
- Next scheduled run day/time
- Last time this station was run
- Indicates that Soak & Cycle mode for this station has been deactivated.
- Press here to change the station name
- Time in minutes that this station will run for on the next scheduled programme.
- Total time in minutes that this station will run over the next 7 days
- Press here to activate Soak & Cycle mode. You can change the number of Soaks and the Soak time in Config. See (1.5.3)
1.6.4 Adjust percentage run time

To navigate here from the Home screen press > %

Tip!
If you do not want any percentage change just set to 0% and your stations will run for the times set in programs.
1.6.5 Programs

To navigate here from the Home screen press > Programs

Press here to run the this program manually

Press here to setup and edit programs (See 1.6.6)

Indicates this program has not been named.

Indicates this program is currently running. If you press here you can stop this program.
1.6.6 Editing programs

Indicates current program being changed.

Press here to change the name of this program

Station name. (See 1.5.1) to change station name.

Indicates the time this station will run for when this program is active. In this example the run time is 10 minutes

Indicates this station will not run as part of this program. To set a station to off simply set the run time to 00:00
1.6.7 Schedules

To navigate here from the Home screen press > Schedules

Tip!
Set up your programs first and then schedule the time and days you want the program to run automatically.
Enable the schedule or disable it if you don’t want the schedule to operate.

Any of your programs can be set to automatically start at any time of your choosing. Press here to enable the time based schedule for the program.
1.6.8 Setting and editing a schedule

To navigate here from the Home screen press > Schedules > Edit > Then the schedule you want to modify

Indicates current schedule / program that you are changing or setting.

Indicates days this schedule has been set to run on.

Press here to save your new setting.

Press to add the days you want this schedule to run on.

Spin hour, minute and AM/PM to set the start time

Indicates the estimated finish time for this schedule
PART 2 - IDRATE COLOUR TOUCH SCREEN CONTROL

2.1.1 Equipment for iDrate control with wall mounted colour touch screen

6 Station system with pump control shown above

A maximum of 24 stations can be controlled by a single system (3 iDrate modules linked see 2.1.2)

Pump or master valve. Pump to be switched via suitable contactor
Max current 750 mA
Min current 50 mA
2.1 Equipment

2.1.2 Linking multiple iDrate modules

Maximum 24 Station system with pump control shown above. Wiring to pump relay and solenoid valves as per standard iDrate control diagram 2.1.1.

Set selector switch on each iDrate module for the appropriate solenoid valves.

Modem, bridge, smartphone, bridge, optional repeater, pump and solenoid valves not shown for clarity.
2.1.3 Integrated iDrate, iLight & iZone automation system

A maximum of 24 iDrate stations, 14 AC zones, 128 iLights and 12 colour touch screens can be supported by one combined iZone / iDrate / iLight system.
2.2 Installation instructions for touch screen control

1. If using smart phone or tablet control as well as touch screen control it is possible to use either method to install an iDrate system. Below is a description on how to install your iDrate system if you only have an iZone touchscreen without a smartphone or tablet.

2. Connect the light bridge to your computer network via an Ethernet port on your modem.

3. Plug the bridge into a power outlet and switch the power outlet on. It is recommended to locate the bridge in the centre of the building and as high as possible in order to maximise the WiFi range.

   a) Pair the bridge to the system by pressing and holding the Pair button on the Bridge while simultaneously pressing the Pair button on the home screen.

4. The power pack and bridge can be separated if required

   Using a Philips head screw driver remove the two screws at the base.
2.2 Installation instructions for touch screen control only (continued)

Separate the two halves. Remove the power adaptor and discard the base.

5. Remove the iDrate system from the packaging and mount it on the wall using the two mounting holes. Wire the solenoid valves and pump / master valve (if used) as per the wiring diagram. If using an iDrate transformer, install it by removing the mounting bracket and installing the transformer as shown below. Wire the 24V and common into the terminals as per the wiring diagram. Check all connections to ensure they are wired correctly and are secure.
6. Switch the power on to the iDrate system. The Auto LED should flash red indicating there is power to the system.

7. Press the Pair button on the iDrate system and at the same time press the pair button on the touchscreen. The blue pair LED light will flash rapidly and a message will be displayed on the touchscreen to confirm pairing was successful. Repeat this process on each iDrate module on your system (if fitted).

8. You are now ready to configure, name and control the iDrate system on your touch screen.

9. If required, install and pair repeaters as required to ensure full and reliable control of your iDrate systems.
2.3 Configuration

2.3.1 Name an iDrate watering station

It is recommended that you name your stations for ease of use.

1. To name your iDrate stations go to the home page and press the “Stations” icon.
2. Press the current station name. This will take you to the Station’s summary screen.

3. Press the pencil adjacent to the current name.
4. Delete the existing name and type in your new name.
5. Press enter to save
2.3.2 Setting a station for soak & cycle

To reduce “run off” and maximise the water you apply to your garden it is recommended you use the soak & cycle feature. This feature will run a station for part of it’s cycle and then stop to allow the water to soak into the soil before applying more water. You can initiate the soak & cycle feature for any station. Please note the soak & cycle feature is disabled when using test or manual modes.

1. Go to the home page and press the “Stations” icon.
2. Press name of the station you would like to initiate the soak & cycle feature.
3. Press the Soak & Cycle button. It will now run in a soak & cycle mode. The factory default is 1 soaks and the wait time between cycles is 10 minutes. You can change the number of soaks and the wait time between cycles in the system configuration. See (2.3.3)
### 2.3.3 Advanced configuration

On the home screen press the Config button.

Type in the password “wamfud” and you will be taken to the System Config screen.

#### System Config Screen

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of stations</td>
<td>8</td>
</tr>
<tr>
<td>Number of soaks</td>
<td>2</td>
</tr>
<tr>
<td>Soak pause</td>
<td>10 mins</td>
</tr>
<tr>
<td>Test run time</td>
<td>5 mins</td>
</tr>
<tr>
<td>Max manual run time</td>
<td>25 mins</td>
</tr>
<tr>
<td>Pair a Device</td>
<td></td>
</tr>
<tr>
<td>RF Config</td>
<td></td>
</tr>
<tr>
<td>WiFi Bridge</td>
<td></td>
</tr>
<tr>
<td>Tag Lines</td>
<td></td>
</tr>
<tr>
<td>Tag Line 1</td>
<td></td>
</tr>
<tr>
<td>Tag Line 2</td>
<td></td>
</tr>
<tr>
<td>iDrate Device List</td>
<td></td>
</tr>
</tbody>
</table>

- **Press to go to home page**
- **Press here to change the number of stations**
- **Press here to change the number of soaks in Soak & Cycle station**
- **Press here to change the soak pause time**
- **Press here to change the time each station will run in the test mode**
- **Press here to change the maximum time a station will run if operated in manual mode**
- **Press here to pair an iDrate module**
- **Press here to change the radio frequency channel. **All RF devices in the system will need to be paired again after the channel has been changed.**
- **Press here to go into advanced IT settings for the bridge. This should only be changed by qualified IT professionals**
- **Press here to change the tag lines that display at the bottom of the screen**
- **Press here to view a list of devices and their software revisions in this system**
- **Press here to go back to the iDrate home screen**
2.3.3 Advanced configuration (cont)

Press to go to home page

Press here to enter your own unique password

Press here to go back to the previous screen
2.4 Touch screen user manual

2.4.1 Main menu

Press here to control your iZone air conditioning system
(See iZone manual for details)

Press to set system time and date. (See 2.4.8).

Press to change screen settings (see 2.4.9)

Press here to control your iTouch
reticulation system

System date and time

Press here to control your iTouch
system (see iTouch manual for details)

Press to activate or deactivate this touch screen’s audio feed back (beep on touch).
2.4.2 Home screen

Press here to turn your iDrate system on or off.

Press here to run a test on all stations.

Press here if you want to increase or decrease the run time by a percentage. This increase / decrease will apply to all station run times.

The schedules will only run if fine is selected. Press here if rain is expected. You can choose up to 7 rain days.

Tag line: this will vary depending on the installation company.

System date and time

Press to here to view and control the stations.

Press to activate a program or to configure a new favourite (2.4.4).

Press to activate a schedule or to configure a new schedule (See 2.4.6).

Press here if rain is expected.

You can choose up to 7 rain days.

WiFi connection

Press to access advanced configuration settings (See 2.3.3)

Press to pair an iDrate module
2.4.3 Summary screen (indicative only)

Station Summary

- **Front Lawn**: Indicates this station is configured for Soak & Cycle mode and is currently running. Press here to change.
- **Front Shrubs**: Indicates this station is configured for Soak & Cycle mode and is currently running. Press here to change.
- **Flower Bed**: Press here to change.
- **Back Shrubs**: Indicates this station is in standard Auto mode and is currently running. Press here to change.
- **Back Lawn**: Indicates this station is in Auto mode but is not running. Press here to change.
- **West Beds**: Indicates this station is currently running in manual mode. Press here to change.
- **Trees**: Indicates this station has been manually paused and will not run in any program, schedule, test or manual modes. Pausing will also suppress any faults detected on this station. Press here to change.
- **Vege Patch**: Indicates this station is faulty. Check solenoid and wiring associated with this station. Press here to change.

Press to go to home page

Indicates this station is in Auto mode but is not running. Press here to change.

Indicates this station is configured for Soak & Cycle and is currently running. Press here to change.

Indicates this station is in standard Auto mode and is currently running. Press here to change.

Indicates this station is currently running in manual mode. Press here to change.

Indicates this station has been manually paused and will not run in any program, schedule, test or manual modes. Pausing will also suppress any faults detected on this station. Press here to change.

Indicates this station is faulty. Check solenoid and wiring associated with this station. Press here to change.

Indicates the iDrate controller for this station is not communicating with the bridge. See “Trouble shooting” guide to rectify. Press here to go back to the home page.
2.4.4 Programs

To run any program manually just press the program you want and it will run through the stations as per your assignment.

Default name typically indicates this Program has not been named and is not being used.

Indicates this program is currently running

Program name. This is typed in when you configure your program

Press here to setup and edit Programs (See 2.4.5)
2.4.5 Program Setup

To navigate here from the Home screen press > Programs > Program setup > Press the Program you want to setup

- **Current program name**: Indicates the current program name.
- **Station name**: Indicates the name of each station.
- **Run time**: Shows the run time for each station.
- **Press here to change the name of the current Program**: Allows changing the name of the current program.
- **Indicates this station will run for 1 hour and 5 minutes. Press to change**: Shows the run time for a station.
- **Indicates this station will not run as part of this program as run time is set to 0:00. To change press the Off button and set a run time.**: Indicates when a station will not run.
- **Indicates this station is set to run in this program**: Shows which stations are set to run in the current program.

Press here to scroll up to previous stations.
2.4.6 Schedules

Tip!
Set up the programs first then come here and set the start times and days of the week you want the program to run automatically.

压任意已经配置好的时间表来激活该时间表。默认名称通常表示该程序还没有被命名且未被使用。

按这里，然后按你想要编辑的时间表。（见2.4.7）

指示此时间表正在运行且正在运行中。

指示此时间表未激活。

默认名称通常表示该程序尚未被命名且未被使用。

按这里，然后按你想要编辑的时间表。（见2.4.7）

指示此时间表正在运行且正在运行中。

程序名称。这在您配置程序时输入。

按这里，然后按你想要编辑的时间表。（见2.4.7）
2.4.7 Setting and editing a schedule

- Indicates current schedule that you are changing or setting.
- Indicates the start time for this schedule.
- Indicates the estimated stop time based on the station run times including Soak times.
- Green Indicates the days this schedule will apply. Press to stop the schedule running on this day.
- White indicates the days this schedule will not run. Press to change.
- Press the key pad to change the time. Remember it is in 24 hour format so for 2:30 am type in 0230.
- Press the green enter button to save your new setting.
- Press here to clear this schedule.
- Press here to go back to the schedule summary.
### 2.4.8 Setting the time

![Image of a time setting interface]

- **Current time:** 12:30
- **Current date:** 01/01/2011

- Press the left or right arrows to move to the value you want to change.
- Indicate the minutes are be changed.
- You must press the enter button to save the changes you have made.

*Note: The image shows how to set the time and date on a device using a 24-hour time format.*
2.4.9 Changing the home screen colour

Slide left / right to adjust the screen brightness.

Slide left / right to adjust the screen saturation.

Slide left / right to adjust the screen contrast.

Press the colour you would like for your home screen. Fine adjustments to the shade, tone, hue can be made using the brightness, contrast and saturation slides.

Press here to go back to the home screen.
3.1 Trouble shooting

System On/Off button.

Pair button.

Pump / Master running Red LED

Pair Blue LED.

System On/Off LED.
- Red Flashing = System Off
- Green Flashing = System On
- Green / Red Alternating = Not communicating with bridge

Station running Red LED

Manual control button. This is useful to test or run stations if your iDrate system is installed but your WiFi modem is not installed.

For new home constructions - If there is a period before your Wifi is installed and you need to water your garden you can use the manual control button. Or for automatic control, if the iDrate system has never been paired, and is left On it will run all stations for a period of 10 minutes every 24 hours. It starts this automatic program 12 hours after the iDrate power is turned on.

iDrate does not need the internet to control your system, it only needs a WiFi modem connected. If your WiFi modem stops working the iDrate will continue to operate with the same programs and schedules that were running before the modem stopped working.
3.1 Trouble shooting (continued)

**iDrate fault indication**

This symbol adjacent to a watering station name indicates a fault with the station. Possible causes:
- Wiring has not been connected correctly.
- Wiring is damaged.
- Solenoid is faulty

This symbol adjacent to a watering station name indicates a fault with the iDrate Control module. Possible causes:
- Module has lost power. Check wiring and ensure module is powered correctly.
- Module selector switch has not been set to the correct range. Set selector switch correctly.
- Wireless signal is not reaching the bridge. Install one or more repeaters to extend the wireless range.
3.1 Trouble shooting (continued)

iDrate control is erratic or misses instructions
Your iDrate relies on a consistent wireless signal from the bridge to the iDrate module(s). If you experience erratic or missed instructions check the following:

• iDrate modules have been paired and / or setup correctly. See installation instructions
• Radio signal between bridge and iDrate is being blocked.
  • Check iDrate is not in a steel cabinet as this may block the radio signal.
  • Relocate bridge closer to iDrate.
  • Install repeater(s) between bridge and iDrate to boost the signal.
• Modem is not communicating with the bridge.
  • Check WiFi is switched ON
  • Check modem settings
  • Modem may not be compatible with iDrate—Try a different modem

iDrate takes a long time to react to my changes
1. There can be up to a 5 second delay between completing the change to the change taking effect. This may be up to several minutes if using 3 or 4G control via remote access (World Wide) or IFTTT.
2. Ensure your iDrate is receiving the wireless signal from the bridge. Move the iDrate closer to the bridge and test. If this makes a difference your wireless signal is being blocked by the building structure. You should install one or more repeaters to boost the signal.

Location
Placing your iDrate inside a metal cabinet or metal garden shed can affect the wireless communication between the iDrate and the bridge. If this is found to be the cause of intermittent, slow or no response, then we recommend you try the following:

• Relocate your bridge closer to the iDrate module. (Ideally the bridge should be located centrally in your home or building.
• Install an iDrate repeater mid way between your bridge and iDrate
3.1 Trouble shooting (continued)

- Change the location of your iDrate module.
- To maximise radio communications, it is recommended that your iDrate module is installed at least 500mm above the ground.

**iDrate is not designed for:**
- Fire services
- Use in conjunction with 3rd party controllers, sensors or apps not approved by Airstream Living Technology
- Solenoids or relays that are not rated for the iDrate module
3.2 FAQ

How do I save water by using iDrate?
You can save water in a number of ways by installing an iDrate system.

- Set up an IFTTT applet to automatically pause scheduled watering when rain is forecast.
- Use the Soak and Cycle mode on stations. This will divide your watering time up and allow a soak time between watering cycles. This prevents excessive water run off.
- Use the rain delay options (between 1 and 7 days) to prevent your reticulation system from running when rain is forecast in your location.
- Use the -% to decrease watering times by a set percentage when the weather is cooler
- Use different schedules for different parts of your garden to ensure the optimum volume of water for each location
- Add more stations for more flexibility - iDrate can be expanded to 24 stations giving you more bespoke watering for different parts of the garden

Why does the App ask me if I want to update the iDrate system time to this device?
If you are setting iDrate schedules on your App it is important that both the App and the iDrate system times are in sync. If you select “Always” the App and the iDrate system will automatically sync the time when you log on to the system in your WiFi zone. If you want to change this selection later go into Config Menu and update System Time Interval.

How many iDrates can I have on a single system?
The base iDrate system can control 8 stations plus a master valve or pump. You can add two more iDrate modules making a total of 24 stations plus a master valve or pump, all from a single bridge.

How many solenoids can you run off a single station?
We recommend you only run one solenoid off each station. If you add more than one solenoid valve to a station the iDrate system may detect excessive power draw and will interpret this as a fault and prevent this station from running until it is rectified.
Can I have more than one bridge in a house?
You can have as many bridges as you like. You will need to login and out of each bridge on the App to control the iDrates in each system.

Can my bridge control other devices in my house?
Yes, your bridge incorporates the power to control your lights, power points and air conditioning. Contact Airstream to find out how your whole home can be inexpensively controlled from your phone or tablet.

If I install an iDrate system in my new house before the WiFi modem is installed can I still water the new garden automatically?
Yes. If there is a period before your Wifi is installed and you need to water your garden you can use the manual control button. Or for automatic control, turn the iDrate system on it will run all stations for a period of 10 minutes every 24 hours. It starts this automatic program 12 hours after the iDrate power is turned on. Once your WiFi is installed you can pair the bridge and set up the programs and schedules to suit your requirements.

I want to switch my WiFi off at night but my iDrate schedule is set to operate when the WiFi is off. Will my schedules still run?
Yes. The schedules and programs are stored in the bridge so if the WiFi is turned off or disconnected the iDrate will still run as programmed. You will however not be able to view or change schedules, programs or any other features from your phone when your WiFi is off. The exception to this is if you also have an iZone system installed you can still view and change all the settings from the iZone touch screen even when the WiFi is off.

How can I tell when a station last ran and when it will run again?
On the home screen press stations, then press the name of the station you would like to interrogate. Here you will see the details for this particular station. It will show you the station name, when it will run next, how long it will run for, when it last ran, and the total number of minutes it will run per week from all set schedules. Please note it does not include when the station is run manually or in test mode. At this
3.2 FAQ (continued)

screen you can also set the Soak and Cycle.

What is Soak and Cycle?

In the config you can set the number of soaks and the length of the soak time. If you set the number of soaks at 3 and the soak time at say 12 minutes. In the details screen for each station, press the station name) you can switch the Soak and Cycle on for each station.

Let’s say you have a station called Veggie Patch which you have set in the programs to run for 20 minutes. When this station runs on a scheduled program the run time will run for 5 minutes, then wait for 12 minutes for the water to soak into the soil, then run for 5 minutes etc. It will have 4 run cycles of 5 minutes each with 3 soak times of 12 minutes between each run cycle. Soak and cycle helps reduce run off and allows the water to soak into the soil before applying more water.

I want my garden watering to be finished by 10am in the morning. How do I know what time to start a program with all the soaks and cycles?

iDrate does all the hard work for you. When you set up a schedule iDrate will calculate the estimated finish time for you and display this under the time adjustment so you can simply adjust the start time and ensure the finish time is before 10am in the morning. Press the save button on the App and your schedule is set. Don’t forget to activate your schedule by pressing the saved schedule so that a small clock is displayed on the top right hand corner of the schedule.

I have set up a schedule but it just does not run?

Please check the following:

- The days of the week have been set for the schedule you are trying to run.
- The schedule has been saved
- The schedule is activated by pressing the schedule. A small clock is displayed on the top right hand corner of the schedule button to indicated it has been activated.
3.2 FAQ (continued)

Now that the rains have arrived, I want to stop my schedules but I don’t want to lose the schedule settings.

At the home page press Schedules, you will see all the schedules that are active have a small clock in the top right hand corner of the schedule. Press the active schedules and the clock will disappear indicating that the schedule is now de-activated and will not run. When you want to reactivate the schedules, simply go to the schedules and press the one you want to activate. The small clock will reappear indicating the schedule is now active and it will run on the scheduled days at the scheduled times.
### 3.3 iDate product warranty policy

This document sets out the warranties that are provided by Airstream Components WA Pty Ltd ACN 146 196 778 (“Airstream”) in relation to each Product.

#### Definitions

In this document:

- **“Australian Consumer Law”** means the law set out in Schedule 2 of the Competition and Consumer Act 2010 (Cth) and any corresponding provisions of state or territory fair trading legislation.
- **“Customer”** means the party that acquired the Product from Airstream for that party’s use or, if the party who acquired the Product from Airstream was an authorised distributor, reseller or dealer, the party who acquired the Product from the distributor, reseller or dealer.
- **“iZone Tablet”** means the product known as the “iZone Tablet”.
- **“Product”** means:
  - an iZone Tablet; or
  - other product manufactured by or for Airstream.
- **“Site”** means the place at which the Product is located.
- **“Third Party Goods”** means a product (including batteries) or item of equipment manufactured by a third party which is supplied with, or fitted to, a Product.
- **“Warranty”** has the meaning given in clause 2.1.
- **“Warranty Claim Form”** means the warranty claim form available on the Website.
- **“Warranty Period”** means:
  - for an iZone Tablet, one (1) year;
  - for a Product (excluding an iZone Tablet) that has not been registered in accordance with clause 3, two (2) years; or
  - for a Product (excluding an iZone Tablet) that has been registered in accordance with clause 3, eight (8) years,
  from the date of purchase by the Customer.

#### Warranty

Subject to clauses 4 and 5, Airstream expressly warrants that each Product is free from operational defects in workmanship and materials for the Warranty Period (“Warranty”).

The benefits of the Warranty are in addition to all other rights and remedies which the Customer may have under Australian Consumer Law and any other law in relation to the Product to which the Warranty relates.

Each Product comes with guarantees that cannot be excluded under Australian Consumer Law.

**Extended Warranty**

In order to receive an extended eight (8) year Warranty for a Product (“Extended Warranty”) the Customer must register the Product by completing, and providing to Airstream, the registration form supplied in the Product user manual or downloaded from the Website (“Registration”).

Registration must be completed within sixty (60) days of the Product being purchased by the Customer.

#### Exclusions to Warranty

The Warranty does not cover Third Party Goods.

Subject to any statutory provisions to the contrary, the Warranty does not extend to cover damage to furniture, carpets, walls, ceilings, foundations, vehicles, or any other consequential loss arising either directly or indirectly due to the malfunction of the Product.

If a third party installer knowingly installs a defective Product, the Warranty will be strictly limited to the resupply of that Product and shall not include any labour costs.

#### Repair or Replace

During the Warranty Period, Airstream will, subject to clause 6, replace or repair any defective Product or defective component of a Product without, subject to clause 8, charge provided that the defect does not constitute damage that has arisen from:

- faulty, improper, incorrect or incomplete adjustment, operation or installation of the Product;
- any modification of the Product, without the written approval of Airstream, including tampering with or any attempt to disassemble the Product;
- inadequate or improper maintenance of the Product;
- misuse or abuse;
- normal wear and tear;
- failure for any reason to follow the instructions for use given in any user manual applicable to the Product;
- act of God;
- fire, flood, collision or other trauma; or
- insects or animals.

#### Transportation Costs and Risk During Transit

All transportation charges incurred in returning a defective Product, or any defective component parts of a Product, to Airstream for repair or inspection, and the cost of returning them to the Customer must be paid by the Customer.

The Customer assumes the risk of, and shall be responsible for, any loss of or damage to any Product during transit. For this reason, Airstream recommends that the Customer take out shipment/postage insurance.

#### Assignment

The Customer may not assign or otherwise transfer the Warranty.

Airstream may at its sole discretion transfer or assign the Warranty.

#### Warranty Claim Procedure

To obtain the benefit of the Warranty the Customer must:

- contact Airstream within the Warranty Period or within seven (7) days of the discovery of the defect, whichever is the earlier;
- complete and send to Airstream the Warranty Claim Form accompanied by proof of purchase of the Product.

#### Description Charges

- Call out fee plus first hour on Site $165.00 plus GST
- Hourly labour rate after first hour on Site $100.00 plus GST
- Replacement parts for Product and deliveries As per Airstream’s current price list

The Charges are subject to variation by Airstream from time to time.

Airstream will replace, or conduct repairs to, a Product as soon as practicable but will not be liable for any loss or damage caused by any delay.

#### Assignment

The Customer may not assign or otherwise transfer the Warranty.

Airstream may at its sole discretion transfer or assign the Warranty.

#### Exclusions to Warranty

- fire, flood, collision or other trauma; or
- insects or animals.

#### Transportation Costs and Risk During Transit

All transportation charges incurred in returning a defective Product, or any defective component parts of a Product, to Airstream for repair or inspection, and the cost of returning them to the Customer must be paid by the Customer.

The Customer assumes the risk of, and shall be responsible for, any loss of or damage to any Product during transit. For this reason, Airstream recommends that the Customer take out shipment/postage insurance.
4.0 Further assistance

For further assistance you may wish to try the following sources:
www.iDrateyourworld.com.au
www.izone.com.au
www.air-stream.com.au

If you require assistance from the manufacturer contact:

Airstream Components
9 Geelong Court
Bibra Lake
Western Australia 6163

Email: support@air-stream.com.au
Phone: +61 8 9418 6631
www.air-stream.com.au