INSTALLATION GUIDE
Remote WOW Flexi System

Tru-Test
DATAMARS

Remote WOW Flexi

Remote WOW Flexi Drafter

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The Remote WOW system is licensed under Australian Patent 2005233651 (owned by Sheep CRC Ltd.)

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Contents

Before you start

Before you install the Remote WOW system, ensure that your cattle are ready.

Health and Safety

Personal Protective Equipment (PPE)

For health and safety reasons the following PPE (highlighted in yellow) must be worn during assembly of Remote WOW equipment.

Gloves	Safety Shoes	Safety Coat	Mask	Safety Glasses

What you need to wear (as an installer during assembly)

These are compliant with regional standards.

Safety Shoes	Industrial quality safety shoes/boots (with steel caps) are mandatory for use by the installer (during assembly or during transit and handling) to mitigate the risk of heavy items (e.g. WOW platform, cattle frames) falling and causing injury to the installer's feet.
Safety Glasses	Safety plastic glasses are mandatory for use by the installer operating any machinery that is pneumatic or air driven (e.g. the air impact wrench). This is to mitigate the risk of injury to the eyes.

Safety recommendations

⚠️

Warning!

- The satellite transmission emits radiation and you should comply with safety recommendations, see page 19.
- Do not short the battery (e.g. by inadvertent use of a large spanner near the battery terminals).
- Ensure the equipment is switched off before assembly and installation.
- Take care when lifting and moving heavy equipment, for details refer to section *Warnings with Remote WOW equipment*, see page 5.

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Special attention checks

Comments under procedure steps may have the following special attention symbols to indicate quality or safety concerns.

Check	Description	Examples
⚠️ **Warning**	**Warning**, to mitigate risk of injury.	Do not weld on the platform with load bars attached, or near the batteries connected to the electronics box as this may cause failure and is not covered by warranty.
✋ **Caution**	**Caution**, to take special care when attending to a step.	Do NOT overtighten the bolts (as this may strip the threads).
💡 **Tip**	**Tip**, to recommend or suggest an idea to follow.	Once a month, all year round we recommend you do the following: Clean the solar panels with a soft, clean cloth and warm, soapy water.
ⓘ **Information**	**Information**, a reference to other documentation.	Refer to separate documentation for details of testing procedures.
📄 **Note**	**Note**, related information to pay attention to.	If you have checked all of the above, and there is still an issue, contact Datamars Technical Support (for contact details refer to page 6).

Warnings with Remote WOW equipment

⚠️ *WARNING!*

- This equipment is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the equipment by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the equipment.

⚠️ *WARNING!*

- The Remote WOW system is heavy. Always use appropriate hoisting equipment, and at least two people for heavier equipment (e.g. WOW platform, cattle panels)
- Take care to use both hands to lift and move equipment and avoid back injury caused by bending and lifting heavy objects.

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Datamars Technical Support

Contact *Datamars Technical Support* for issues to do with your Remote WOW system.

We also encourage you to provide us with your comments about the product and documentation. We value your feedback!

ⓘ	Australia	Telephone: AGDATA on 1800 248 774 (5am – 5pm Australian Eastern Standard Time zone, 7 days a week) Email: **agdata@datamars.com**
	New Zealand	Telephone: AGTRAC on 0800 248 722 (5am – 5pm NZ zone, 7 days a week) Email: **agdata@datamars.com**

Datamars Territory Manager

ⓘ	Australia	Telephone: Australia Customer Service on 1800 641 324 (9am – 5pm Australian Eastern Standard Time zone, Mon to Fri) Email: **ordersaustralia@datamars.com**

The Remote WOW solution

- Automated weight monitoring with accurate individual weights.

- Measurements taken every day on every animal.

- All data transmitted to the cloud and accessible online 24/7 via your Datamars Livestock account.

Use existing electric fencing, or construct temporary fencing to suit your site:

Models available

1	**Remote WOW Flexi 4G**	2	**Remote WOW Flexi Satellite**
3	**Remote WOW Flexi Drafter 4G**	4	**Remote WOW Flexi Drafter Satellite**

Remote WOW Flexi

Remote WOW Flexi

Agile, flexible and suited to a range of intensive grazing cattle applications.

Designed to be moved, it's easily tailored to suit your autonomous cattle weighing demands.

Cattle panels not included

- Available in 4G or satellite models depending on your farm requirements.

- Your cattle should be entering and exiting the fenced off area around the water trough through the single entrance/exit.

- If your cattle are comfortable doing this without any human intervention, then they are ready for the Remote WOW to be installed.

✋ If your cattle are **not** comfortable entering/exiting the fenced off area without human intervention, we highly recommend that you persevere with training your cattle before installing the Remote WOW Flexi. Refer to your cattle training document, supplied separately.

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Remote WOW Flexi Drafter

- Available in 4G or satellite models depending on your farm requirements.

- Your cattle should be entering through the spear gated entrance to the fenced off area and exiting via a separate spear gated exit.

- If your cattle are comfortable doing this without any human intervention, then they are ready for the Remote WOW Drafter to be installed.

 If your cattle are **not** comfortable entering/exiting the fenced off area via the spear gates without human intervention, we highly recommend that you persevere with training your cattle before installing the Remote WOW Flexi Drafter. Refer to your cattle training document, supplied separately.

Unpacking the box

Checking components - Flexi

• Electronics box
 	
• Platform (with MP600 load bars fitted)
 	
• Still image camera (optional)
	For Flexi Satellite model
	    • Satellite antenna
	    • Satellite antenna support bracket (to be mounted on cattle panel or solar panel mounting frame)
	 ~ or ~ For Flexi 4G model
	    • 4G high gain antenna with cable/mounting clips

Electronics box

Platform (with MP600 load bars installed)

Satellite antenna (for satellite units)
(for providing a stronger
communications signal in remote areas)

Satellite antenna mounting kit
(with cable and nuts/bolts kit for
attaching to solar panel mounting frame)

~ OR ~

4G antenna (for 4G units)
(for providing cellular communications
to the Remote WOW system)

Checking components – Flexi (continued)

Nuts and bolts kit	1 x Solar panel
Solar power quick connectors	1 x XRP2 heavy duty EID antenna
1 x Solar panel extension cable (5 m)	1 x XRP2 heavy duty EID antenna extension cable (5.5 m)
1 x Solar power mounting frame kit	

Nuts and Bolts kit
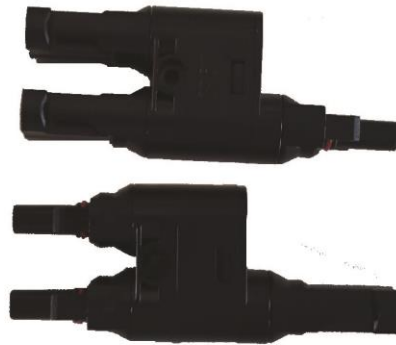
2 x Solar power quick connectors

1 x Solar panel extension cable (5 m)
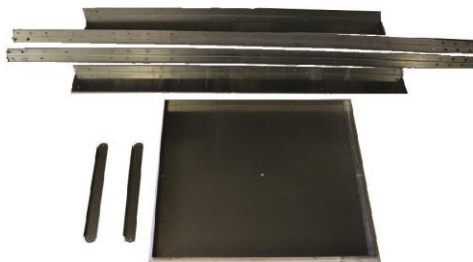
1 x Solar power mounting frame kit

1 x solar panel

1 x XRP2 antenna

(Optional) **Still image camera** (for capturing images of livestock)

XRP2 antenna extension cable (5.5 m)

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Checking components - Flexi Drafter

• Electronics box
 	
• Platform (with MP600 load bars fitted)
 	
• Draft module kit
 	
• Still image camera (optional)
	For Flexi Satellite model
	
	    • Satellite antenna
	    • Satellite antenna support bracket (to be mounted on cattle panel or solar panel mounting frame)
	
	~ or ~
	
	For Flexi 4G model
	• 4G high gain antenna with cable/mounting clips

Electronics box

Platform (with MP600 load bars installed)
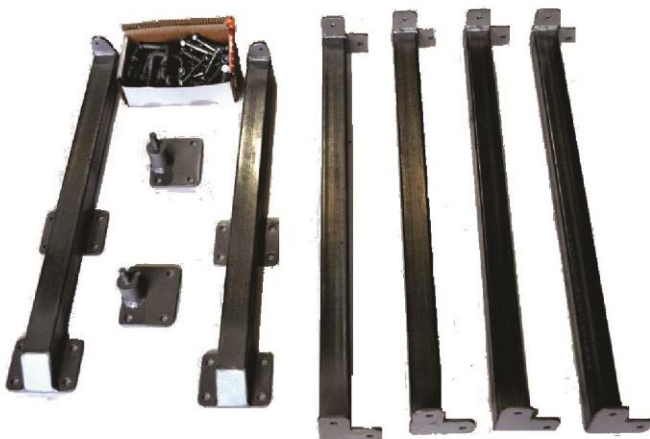
Draft module kit (including
U-bolts and nuts to assemble)
(Remote WOW Flexi Drafter only)

Satellite antenna (for satellite units)
(for providing a stronger
communications signal in remote areas)

Satellite antenna mounting kit
(with cable and nuts/bolts kit for
attaching to solar panel mounting frame)

~ OR ~

4G antenna (for 4G units)
(for providing cellular communications
to the Remote WOW system)

Checking components – Flexi Drafter (continued)

Nuts and bolts kit	2 x Draft motors
2 x Solar power quick connectors	2 x Solar panels
2 x Solar panel extension cables (5 m)	1 x XRP2 heavy duty EID antenna
2 x Solar power mounting frame kits	1 x XRP2 heavy duty EID antenna extension cable (5.5 m)

**Nuts and Bolts kit**

2 x Solar power quick connectors

2 x Solar panel extension cables (5 m)

2 x Solar power mounting frame kits

2 x solar panels

1 x XRP2 antenna

2 x Draft motors (with covers) and draft motor control cables (Remote WOW Flexi Drafter only)

(Optional) **Still image camera** (for capturing images of livestock)

XRP2 antenna extension cable (5.5 m)

Introduction to the Remote WOW Flexi system

System components – Remote WOW Flexi

The Remote WOW product range allows you to weigh, analyse and manage your livestock from any location.

Get to know the parts of your Remote WOW Flexi system before you install it. If anything is missing, contact *Datamars Technical Support* (for contact details refer to page 6). Images are indicative and are not shown to scale.

Remote WOW Flexi (4G model)

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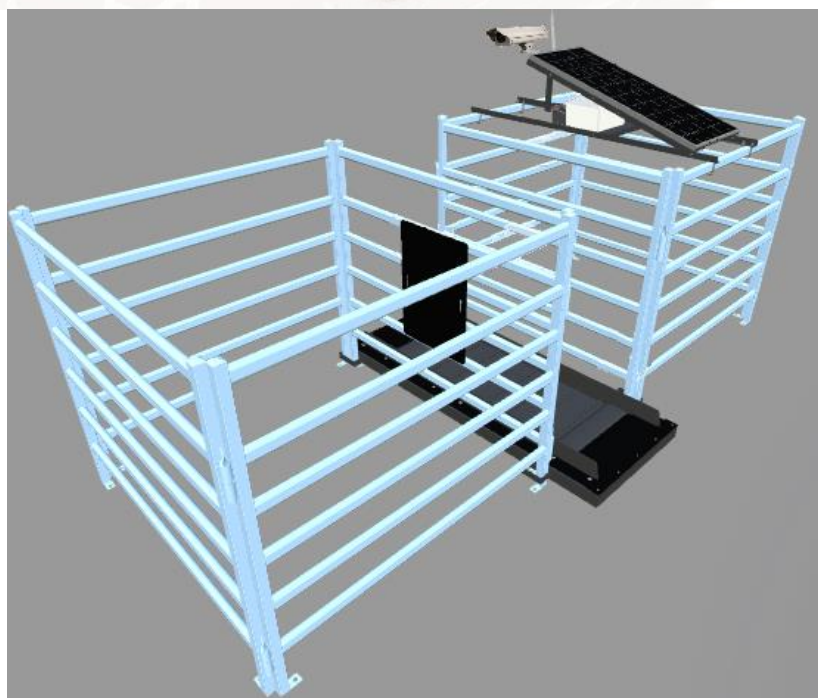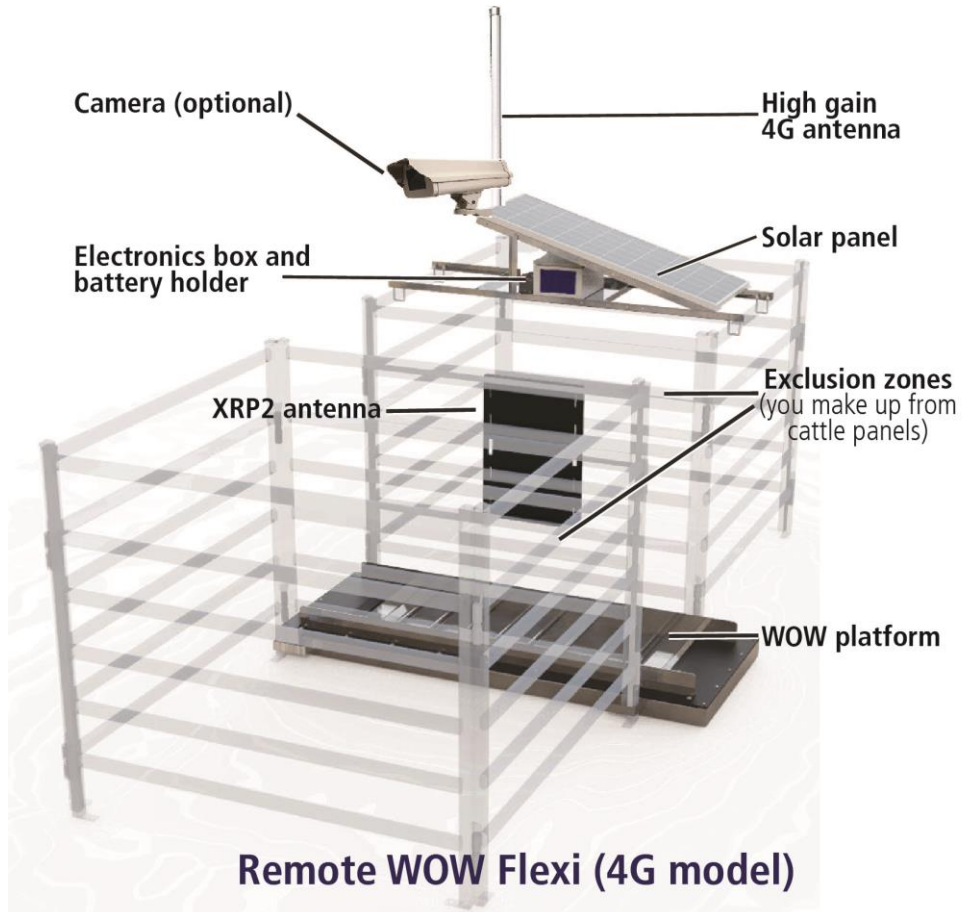
System components – Remote WOW Flexi Drafter

The Remote WOW product range allows you to weigh, analyse and manage your livestock from any location.

Get to know the parts of your Remote WOW Flexi Drafter system before you install it. If anything is missing, contact *Datamars Technical Support* (for contact details refer to page 6). Images are indicative and are not shown to scale.

Remote WOW Flexi Drafter (4G model)

DATAMARS
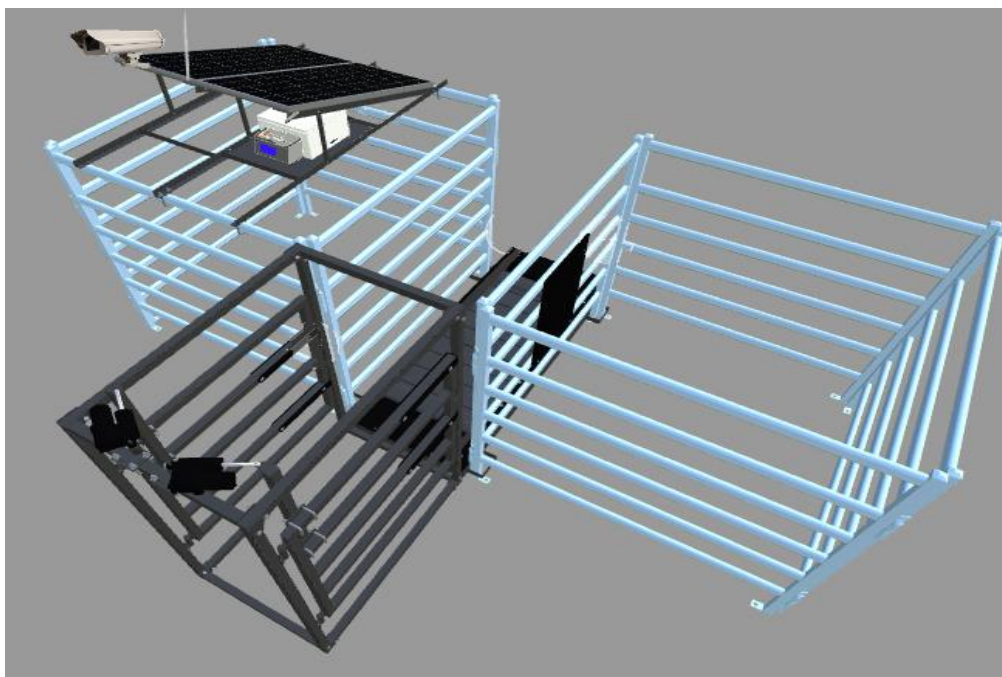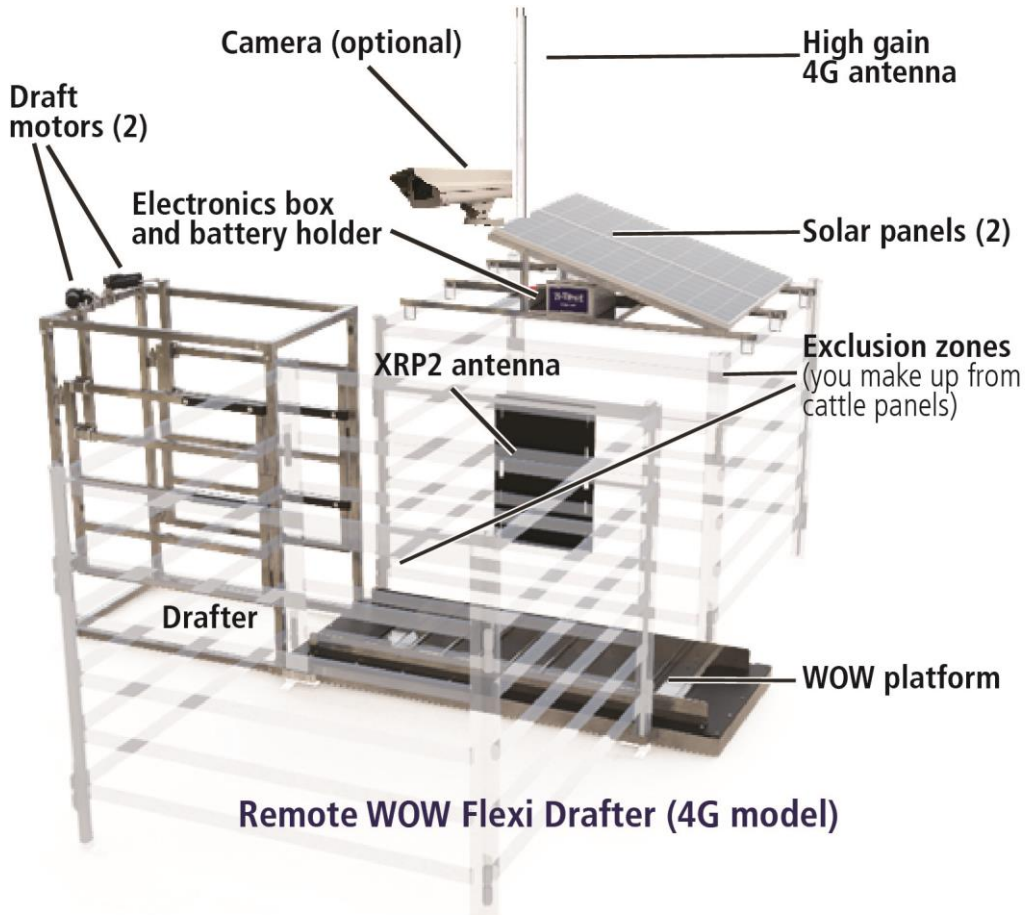
How is the system used?

Remote WOW Flexi
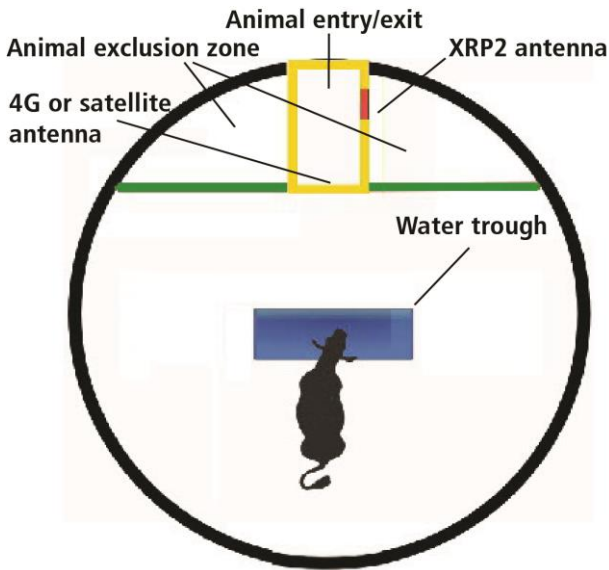
Remote WOW Flexi Drafter
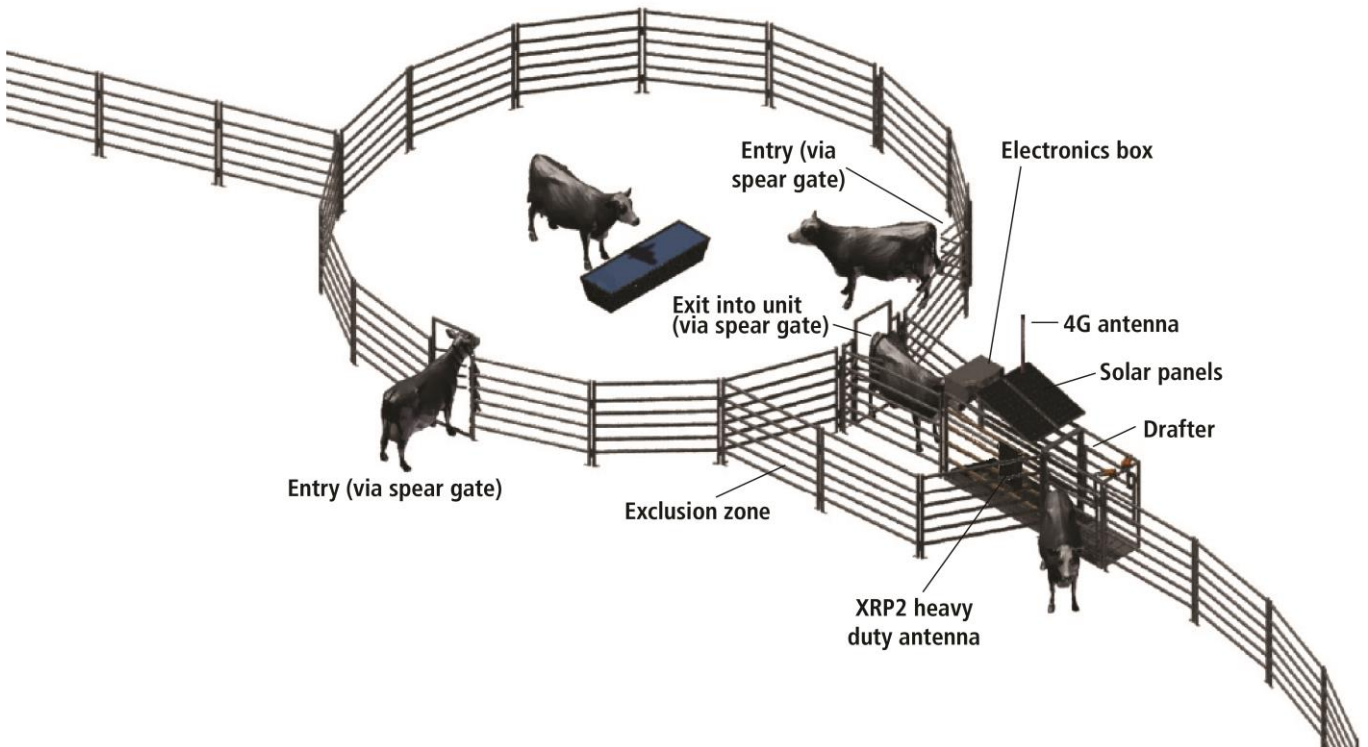
(i) For basic operation of your Remote WOW system refer to the *Remote WOW and Remote WOW Drafter Cattle Training* document you have received.

Assembling your Remote WOW system

Recommended tools

Assembly tools are needed for construction and installation of a Remote WOW system and you are recommended to source the following to use:

• A ladder	• Spanner and socket set	• Electric drill and drill set
• An impact driver	• Flat screwdrivers	• A shovel to cover the platform with soil once installed
• 5/16″ Tek# screw bit	• Philips screwdrivers	
• 3/8″ Tek# screw bit		

Other required items (not included)

- 2 – 4 working EID tags for commissioning

- An Android or an iOS smartphone/tablet:

  - Loaded with the recommended Google Chrome* or your OS default web browser.

  - To log into the system Wi-Fi for positioning the satellite antenna (depending on purchase) and general commissioning.

  - To arrange a date and time for commissioning the system, contact *Datamars Technical Support* (for contact details refer to page 6).

For satellite antenna commissioning:

  - A compass or other means to identify direction.

    You can download a free compass app for your smartphone/tablet and use this to determine directions.

For the Remote WOW Flexi system:

- One Deep Cycle battery (recommended N70T 100 amp hour Century Deep Cycle).

For the Remote WOW Flexi Drafter system:

- Two Deep Cycle batteries (recommended N70T 100 amp hour Century Deep Cycle).

  A jumper to connect batteries together in parallel (for 12 V operation) is required for the two battery installations (and supplied as part of the power cable kit).
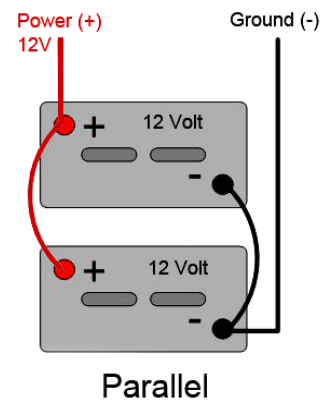
Warning!
Do not weld on the platform with load bars attached, or near the batteries connected to the electronics box as this may cause failure and is not covered by warranty.

Assembling the Remote WOW Flexi

Step 1: Assemble the Remote WOW Flexi system

1. Drill 9 mm holes on sides of the weighing platform to fit hoops. The location on the platform is dependent on size of cattle panel that will be used to build the race. Fit the hoops using Taptite bolts (supplied in the Solar panel mounting frame kit, as shown in the diagram below).
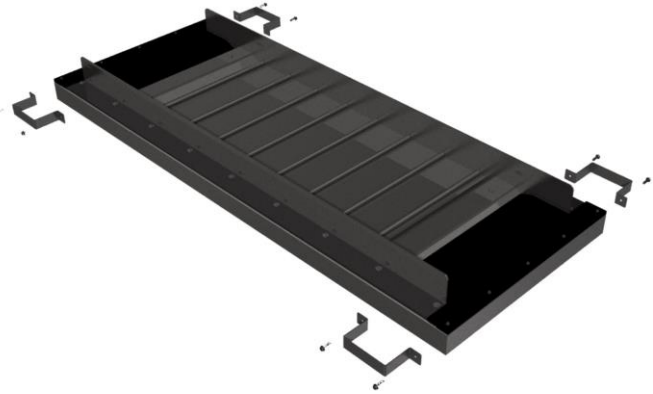
Do NOT overtighten the bolts (as this may strip the threads).

Step 2: Mount and connect the single solar panel (Flexi)

1. Build the solar panel mounting frame as per the diagram below using the supplied fittings kit and fit additional legs as required to accommodate the number of solar panels to be used. The Remote WOW Flexi solar frame will accommodate one (1) solar panel.
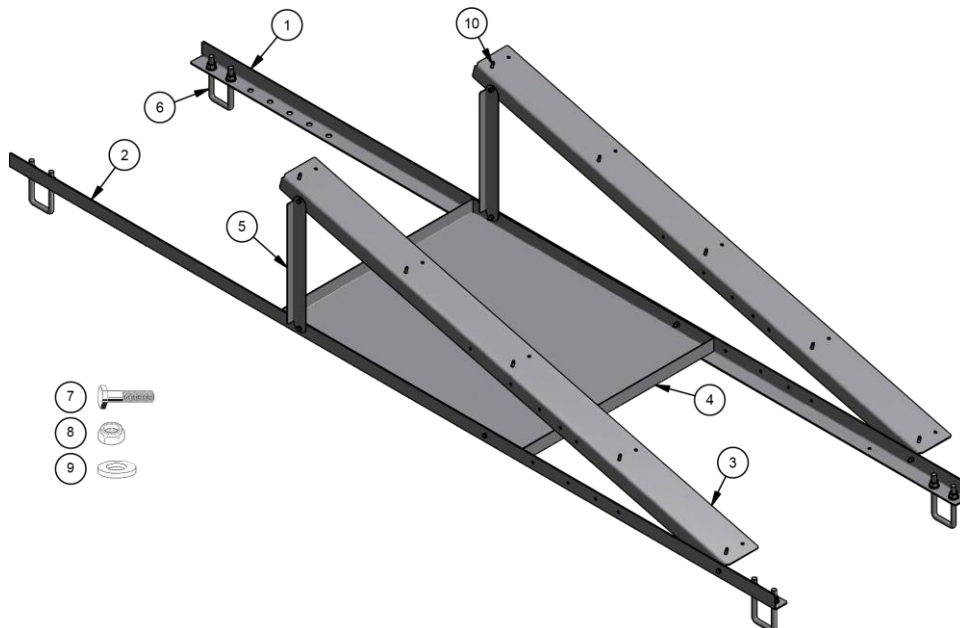
Item	Qty	Title	Item	Qty	Title
1	1	3mm Galv sheet	8	8	Nyloc nut
2	1	3mm Galv sheet	9	16	ZP flat washer
3	2	3mm Galv sheet	10	10	Tek screw
4	1	1.6mm Galv sheet			
5	2	1.6mm Galv sheet			
6	4	12mm DIA-50x110 U-bolt			
7	8	M6 ZP Bolt GR 8.8			

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Step 3: (Optionally) Mount the camera (Flexi)

1 Should you wish to install the camera you can mount the camera to a suitable site on the cattle panels or solar panel mounting frame. Alternatively, you may want to install an antenna support bracket where appropriate. You will need to drill the holes into the metal frame (or fasten with Tek screws, see page **Error! Bookmark not defined.**) to support the camera to its support.

2 Mount the camera on the brackets located on the solar frame.

3 Use the M8 bolts, washers and nuts to attach the camera.

Step 4: (Optionally) Mount the 4G, or satellite antenna (Flexi)

You must install either a 4G antenna or a satellite antenna.

4G antenna mounting

For 4G units: Mount the 4G antenna through the 20 mm hole located on the bracket, securing the nut supplied.
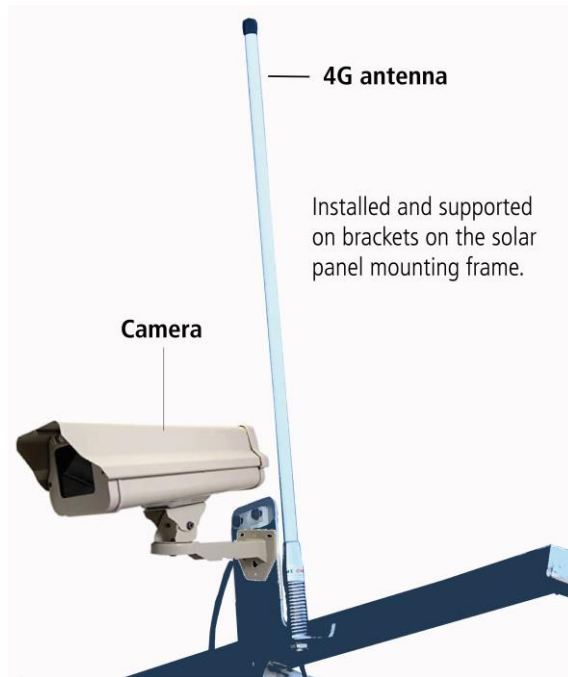
The 4G antenna must be positioned with the antenna sticking vertically up. Transmission is performed all around the antenna to locate the nearest 4G tower.

Satellite antenna mounting

For satellite units:

1   *For satellite units*: Affix the antenna to the cattle panels or solar panel mounting frame (and antenna support bracket) with the supplied M8 bolts or tech screws, washers and nuts.

2   When the camera and antenna are secured in position, run the cables along the solar frame to the electronic enclosure.
3   Attend to the elevation and angle of mounting (see page 19).
4   When the camera and antenna are secured in position, run the cables along the solar frame into the cable trays along to the electronic enclosure, and connect the cables to their devices.

> Ensure that all cables are tucked into the cable tray on the top of the WOW crate, to stop birds from damaging them.

Care and attention during testing and commissioning

> *Warning!*
>
> The satellite transmission emits radiation and you should maintain a minimum of two metres distance from the front of the antenna at all times when it is switched on and operational (although the warning sticker affixed to the antenna recommends 1 metre).
>
> During operation the antenna is sending and receiving information with the satellite using a narrow band of transmission power more than ten times that of a mobile phone. As such reasonable health safety measures (to avoid interaction with this radiation) should be taken to remain two or more metres away from the direction of the front of the antenna.

When installed and operational the antenna is mounted at the top of the cattle frames and pointed towards the satellite and hence this is not an issue. It is only during testing and commissioning that an installer needs to take this care and attention.

Elevation and angle of mounting

Installation of the satellite antenna will require moving it when mounted on its support bracket, to point towards the nearest satellite, to enable transmission.

Before you lose your data connection, determine the altitude, elevation and azimuth of the satellite to facilitate correct positioning of the antenna.

> For details on determination and connection to a satellite refer to:
> *   *Appendix: B – Determining a satellite*, (see page 35).

Step 5: Position the Remote WOW Flexi system

1   Build the race setup with cattle panels as shown in the diagram below. Use of four (4) panels is required on the side on which the solar panels and electronics box will be mounted. It is recommended to use four (4) panel on the opposite side as well for maximum stability.

2   Using the supplied M14 U bolts, washers and nuts, mount the solar panels and frame to the top of the cattle panels which form the side of the race so that the solar panels are pointing as directly north as possible. The solar frame can be mounted parallel or perpendicular to the weigh platform to achieve the best orientation.

3   Position the Remote WOW Flexi as per the image below from the *Remote WOW and Remote WOW Drafter Cattle Training* document (refer to your cattle training document, supplied separately).

4   The yellow box is the Remote WOW Flexi with exclusion zones on either side (to ensure animals don't activate the **XRP2 heavy duty EID antenna** more than once.

5   Cover the platform with soil from the surrounding area. This covering should be from end to end of the platform such that the platform base is not visible, and no higher than the sand skids on either side of the platform. This helps minimise time needed for animal training by reducing noise when crossing the platform and also providing a familiar surface.

It is important that the **XRP2 heavy duty EID antenna** (shown in pink) is at the end of the Remote WOW Flexi closest to the animal entry/exit so that animal weights are captured as animals go out from the water trough (assuming the tags are in the right ears of the animals). The exclusion zones help to ensure the animal is not recorded twice.
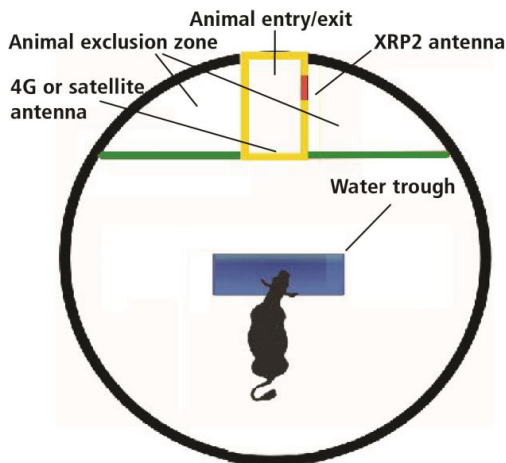
Step 6: Mount and connect the XRP2 heavy duty EID antenna, batteries, and fit electronics box (Flexi)

1   Mount the **XRP2 heavy duty EID antenna** towards the exit end as below.

2   Connect the **XRP2 heavy duty EID antenna** 5 m extension cable (grey) to the antenna and to the electronics box. Use 3/8″ hex head Tek screws and screw bit.

> Where possible, run the **XRP2 heavy duty EID antenna** cable and blue loadcell cables in conduit to protect against animal damage.

3   Place the electronics box and battery on tray under the solar panel.

> You can also mount the antenna onto a sheet of form ply (or marine ply) that is approximately 50 mm larger than the antenna itself. This allows the antenna to be set off the steel rails and allows the best read range. Also, you can attach hooks to either side of the ply and hook it over the top rail!

> Cables must be disconnected before relocation and reconnected after relocation.
>
> The cable ends all fit into specific and unique sockets in the electronics box.

Step 7: Plug in the cables (Flexi)

1   Run the cables neatly up the cattle panels and then across to the shelf below the solar panel. Connect each cable to its port. Each cable will only connect to one port (apart from the blue load bar cables, however these ports are interchangeable and will not affect the operation of the scales).

2   Plug in the load bars, solar panel and drafter (if applicable).

3   Connect the solar panel lead to the supplied solar panel extension cable.

4   (optionally) connect the 4G or satellite antenna into the port located on the electronics box.

5   Mount and connect the camera's ethernet cable into a spare ethernet port (only if the camera is installed) and connect the positive and negative terminals to the batteries.

6   Connect the battery cable from the electronics box to the batteries. Ensure that the red wire goes to the positive terminal and the black wire goes to the negative terminal.

   If the terminals have hex nuts instead then:
   - take care not to use a fastening tool (such as a spanner) that could reach across and short the battery.
   - preferably use a torque adjustable nut driver to ensure they are not overtightened.
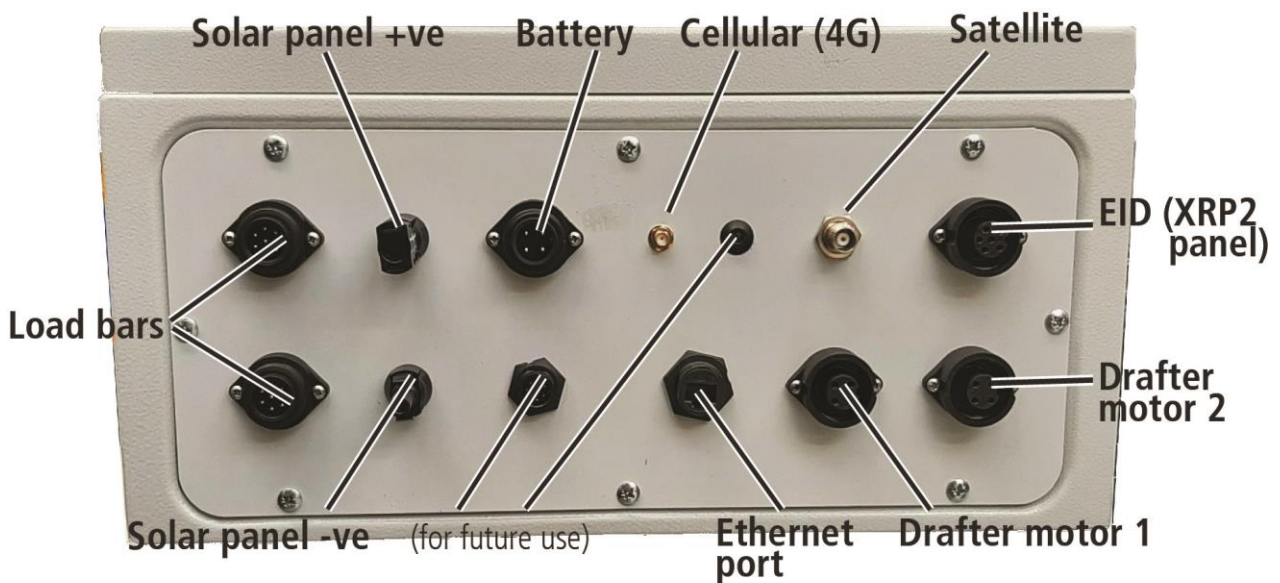
Electronics box

Assembling the Remote WOW Flexi Drafter

Step 1: Assemble Remote WOW Flexi Drafter system

1   Drill 9 mm holes on sides of the weighing platform to fit hoops. The location on the platform is dependent on size of cattle panel that will be used to build the race. Fit the hoops using Taptite bolts (supplied in the Solar panel mounting frame kit, as shown in the diagram below).
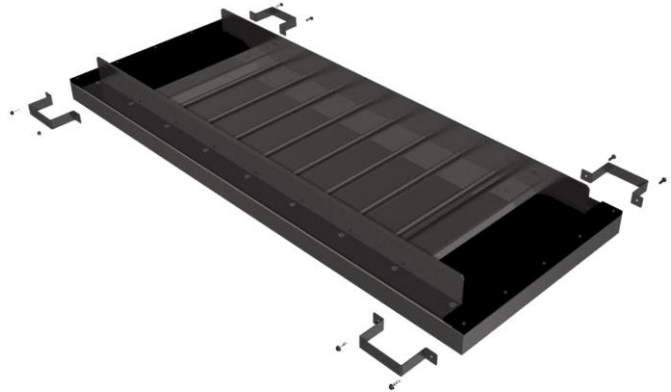
Do NOT overtighten the bolts (as this may strip the threads).

Step 2: Assemble the Drafter module

1   Assemble the Remote WOW Flexi Drafter module using supplied fixings kit, as shown in the diagrams:

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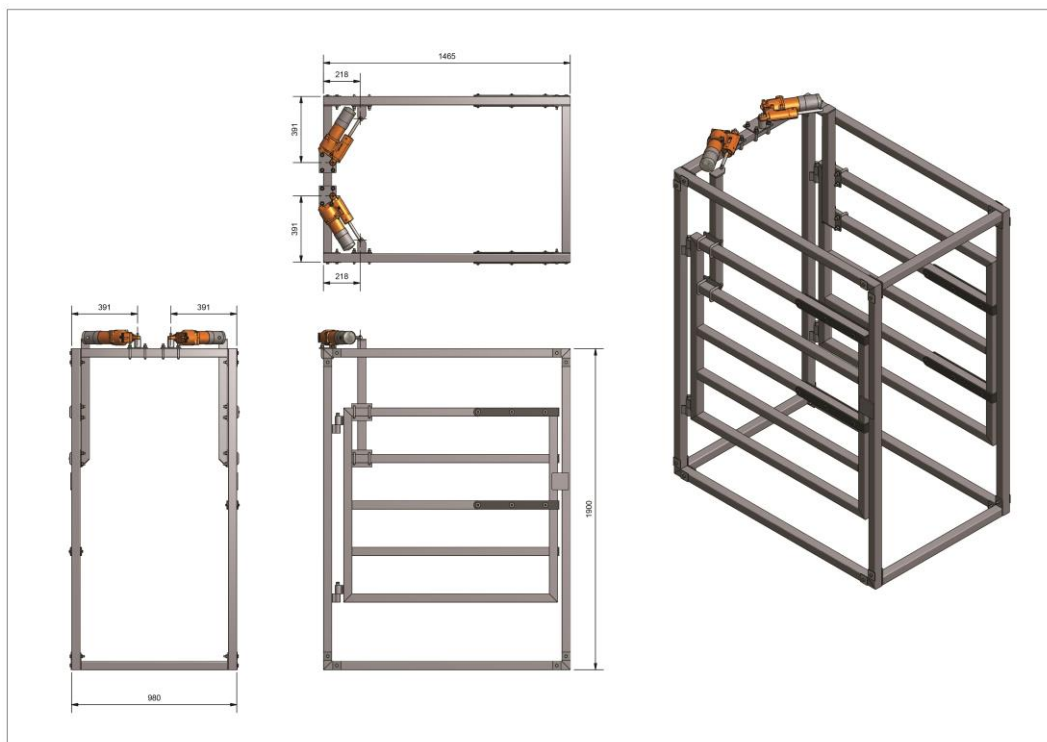
Expanding the Remote WOW Flexi Drafter panels out:

DATAMARS
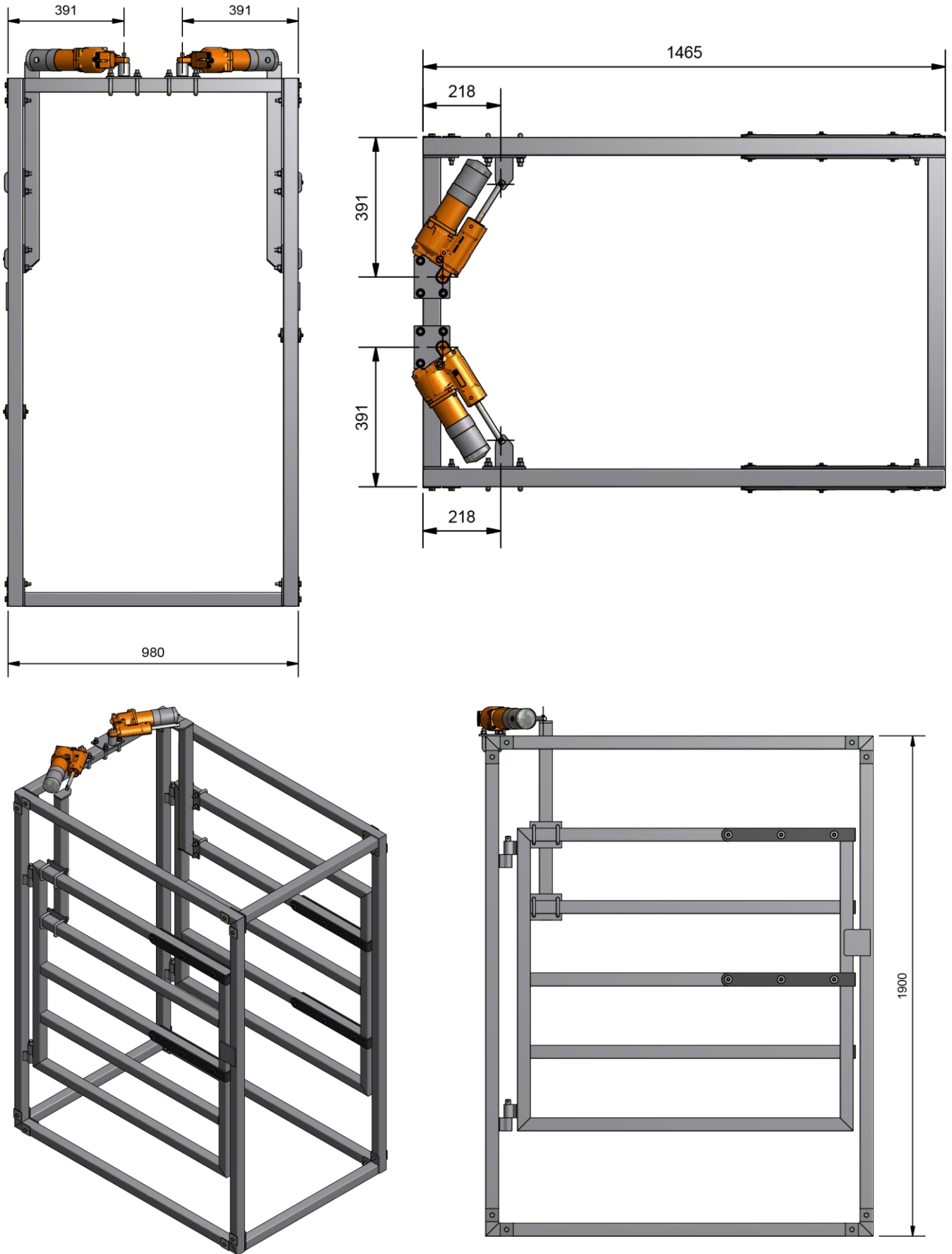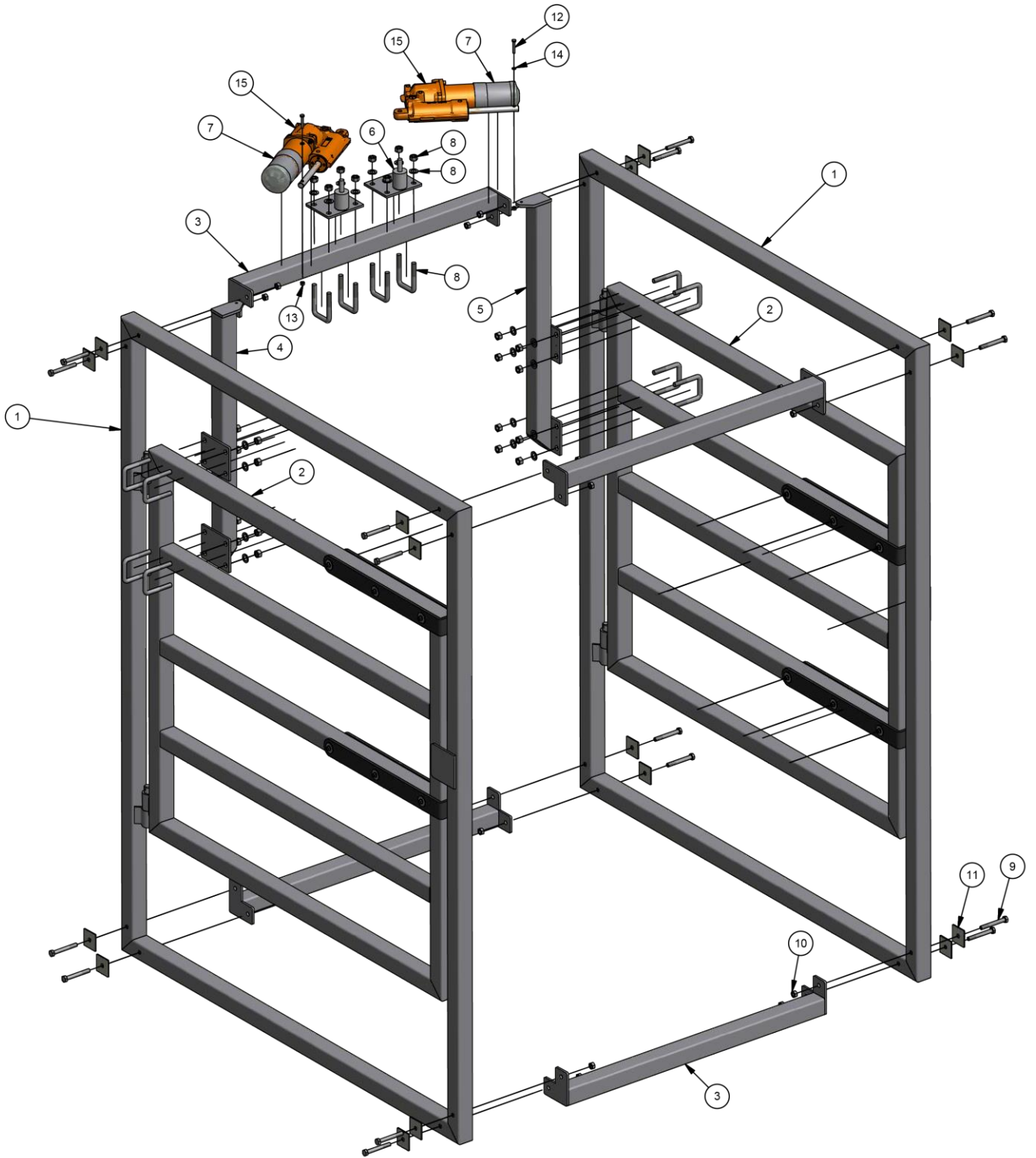
Item	Qty	Title	Item	Qty	Title
1	2	Outer frame	8	12	12mm U-bolt c/w washers and nuts
2	2	Drafter gate	9	16	M10 x 80 ZP GR 8.8 bolt
3	4	Frame spreader	10	16	M10 Nyloc nut
4	1	Actuator bar long LH	11	16	M10 x 50SQ x 3 washer
5	1	Actuator bar long RH	12	2	M6 x 35 ZP bolt
6	2	Pivot plate	13	2	M6 Nyloc nut
7	2	Motor cover	14	4	M6 ZP flat washer

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Step 3: Mount and connect the two solar panels (Flexi Drafter)

1   Build the solar frame as per the diagram below using the supplied fittings kit and fit additional legs as required to accommodate the number of solar panels to be used.
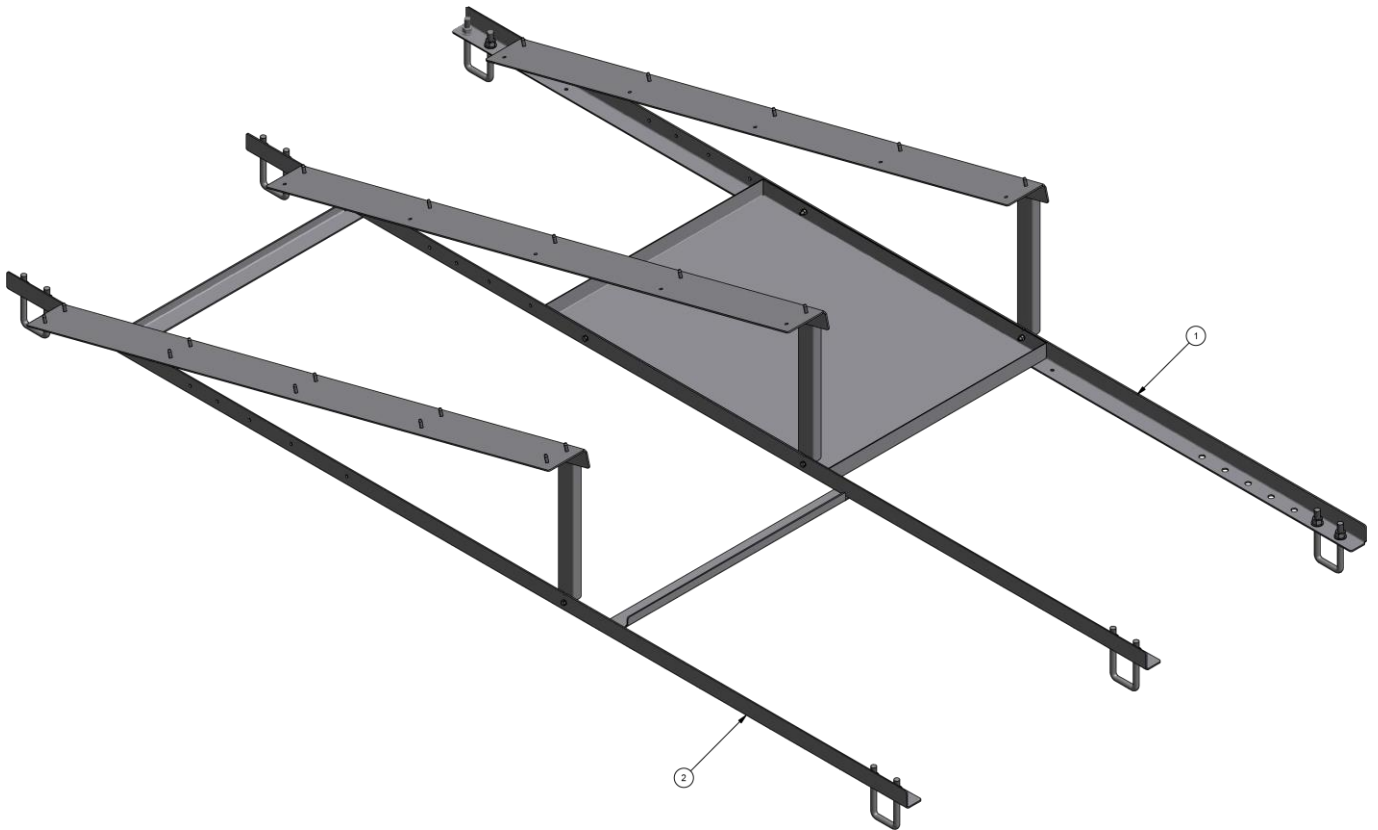
Item	Qty	Title
1	1	Flat Pack Solar Stand
2	1	Solar stand extension

For more detailed labelling of the parts, see page 17.

The Remote WOW Flexi Drafter solar frame will accommodate two (2) solar panels.

Step 4: (Optionally) Mount the camera (Flexi Drafter)

1   Should you wish to install the optional camera you can mount the camera **to a suitable site on the cattle panels or solar panel mounting frame** (and the antenna support bracket). You will need to drill the holes into the metal frame to support the camera/antenna.

2   Use the M8 bolts, washers and nuts to attach the camera.

Step 5: (Optionally) Mount either the 4G antenna or satellite antenna (Flexi Drafter)

You can choose to install **either** a 4G antenna or a satellite antenna to your Remote WOW Flexi system.

1 *For satellite units*. Affix the antenna to the cattle panels or solar panel mounting frame (and antenna support bracket) with the supplied M8 bolts or tech screws, washers and nuts.

2 When the camera and antenna are secured in position, run the cables along the solar frame into the cable trays along to the electronic enclosure.

Step 6: Position the Remote WOW Flexi Drafter system

1 Build the race setup with cattle panels as show in the diagram below. Use of four (4) panels is required on the side on which the solar panels and electronics box will be mounted. It is recommended to use four (4) panel on the opposite side as well for maximum stability.

2 Using the supplied M14 U bolts, washers and nuts, mount the solar panels and frame to the top of the cattle panels which form the side of the race so that the solar panels are pointing as directly north as possible. The solar frame can be mounted parallel or perpendicular to the weigh platform to achieve the best orientation.

Remote WOW Flexi Drafter (4G model)

3   If you are drafting animals into a paddock that does have water in it, you can put the drafter at the entry or exit. We recommend placing it at the entry.

4   If you are drafting into a paddock that **does not** have water in it, you must draft on the exit and provide a third spear gate back into the water trough area.

5   Position the Remote WOW Flexi Drafter as per the image below from the *Remote WOW and Remote WOW Drafter Cattle Training* document (refer to your cattle training document, supplied separately).

6   The yellow box is the Remote WOW Flexi with exclusion zones on either side (to ensure animals don't activate the **XRP2 heavy duty EID** antenna more than once.

7   Cover the platform with soil from the surrounding area. This covering should be from end to end of the platform so that the platform base is not visible, and no higher than the sand skids on either side of the platform. This helps minimise time needed for animal training by reducing noise when crossing the platform and also providing a familiar surface.

It is important that the **XRP2 heavy duty EID antenna** (shown in pink) is at the end of the Remote WOW Flexi towards the entry/exit so that animal weights are captured as animals come off the water trough (assuming the tags are in the right ears of the animals). The exclusion zones help to ensure the animal is not recorded twice.

Step 7: Mount and connect the XRP2 heavy duty EID antenna, batteries, and fit electronics box (Flexi Drafter)

1   Mount the **XRP2 heavy duty EID antenna** towards the exit end as below.

2   Connect the **XRP2 heavy duty EID antenna** 5.5 m extension cable (grey) to antenna and to electronics box.

> Where possible, run the **XRP2 heavy duty EID antenna** cable and blue loadcell cables in conduit to protect against animal damage.

3   Place electronics box and single battery on tray under the solar panel.

> You can also mount the antenna onto a sheet of form ply (or marine ply) that is approximately 50 mm larger than the antenna itself. This allows the antenna to be set off the steel rails and allows the best read range. Also, you can attach hooks to either side of the ply and hook it over the top rail!

Step 8: Plug in the cables (Flexi Drafter)

1   Run the cables neatly up the cattle panels and then across to the shelf below the solar panel. Then connect each cable to their ports. Each cable will only connect to one port (apart from the blue load bar cables, however these ports are interchangeable and will not affect the operation of the scales).

2   Connect the solar panel leads from the solar panels to the 2-to-1 plugs on the supplied solar panel extension cable.

3   Plug in the load bars, solar panel extension cable and drafter cable.

4   Connect the 4G (optional 4G antenna) or satellite antenna cable into the port located on the electronics box.

5   Mount and connect the camera's ethernet cable into a spare ethernet port (only if the camera is installed).

Electronics box
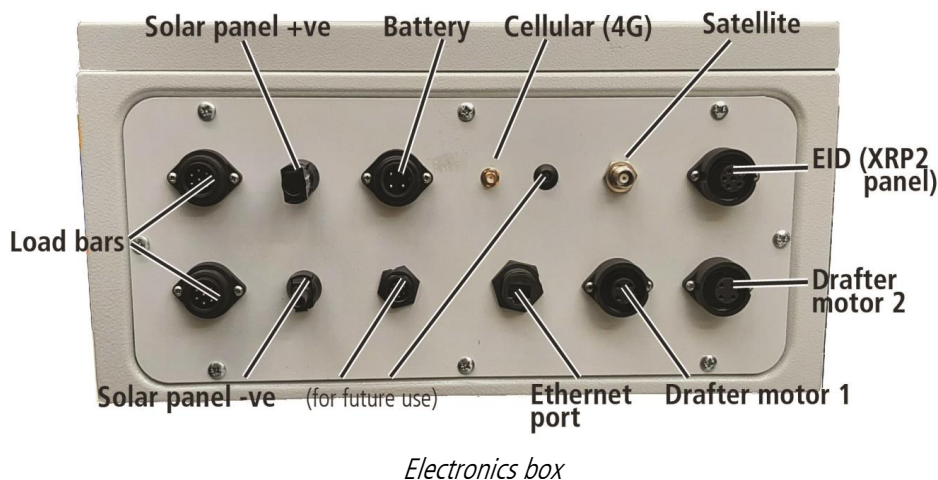
Commissioning the system

You are now ready to commission the system.

Complete a Commissioning checklist form (see page 34) and email it to **agdata@datamars.com**

Contact *Datamars Technical Support*. They will assist you to complete the commissioning process.

Satellite systems

They will ask you to:

- Power up the system.

Aligning the satellite antenna

For satellite sites you will have installed a satellite antenna and pointed it towards a suitable satellite, ready for operation. A further procedure is required to align the antenna to connect and optimise transmission.

To align the antenna:

- Log in to the Remote WOW Wi-Fi using your mobile smartphone/tablet
- Navigate to the web page at IP address: **192.168.50.1**
- Navigate to the signal strength display
- Adjust the satellite antenna to the position that provides the highest signal strength (typically with a reading of 60-65)

- Check that the communications are working.
- Check that EID tags can be read.
- Check weights are being received.
- Check that the drafting gates are operating.
- Check that the camera is relaying images.
- Align the satellite antenna (only if a satellite antenna has been installed)
- Sign you up to Datamars Livestock® cloud software and connect your Remote WOW system.

4G systems do not need this configuration procedure.

Is the system operating?

1   On your smartphone, enable Wi-Fi and connect to the Remote WOW system:

Wi-Fi name:	**Remote WOW**
Password:	**trutestRemoteWOW**
Enter the following information into your web browser:	**192.168.50.1**

Recommended browser to use
- Android smartphone/tablet: Google Chrome* (from the Google Play* store)
- Apple iOS smartphone/tablet: Google Chrome* (from the Apple Store*)

If the Remote WOW web page opens, then the system is operating.

Troubleshooting / FAQ

If you have any trouble with the Remote WOW system, there are a few things which you can check:

Are weights being received?

You can use your smartphone as a screen to view live weights.

1   On your smartphone, enable Wi-Fi. Connect to the Remote WOW Wi-Fi as outlined in Is the system operating? above.

2   When the screen below is displayed, stand on the scale with your phone and check if the weight shown is correct.
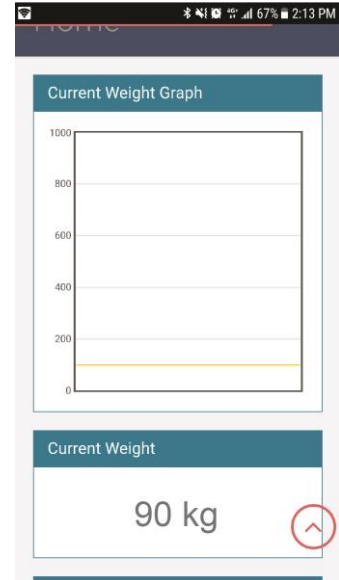
> If you have checked all of the above, and there is still an issue, contact *Datamars Technical Support* (for contact details refer to page 6).

Are EID tags being read?

You can use your smartphone as a screen to view EID tag reads.

1   Wave one EID tag in front of the **XRP2 heavy duty EID antenna**.
2   On your smartphone, enable Wi-Fi. Connect to the **Remote WOW** Wi-Fi as outlined in section *Is the system operating?* above.
3   When the screen below is displayed, check that the tag number displayed is correct for the tag used.
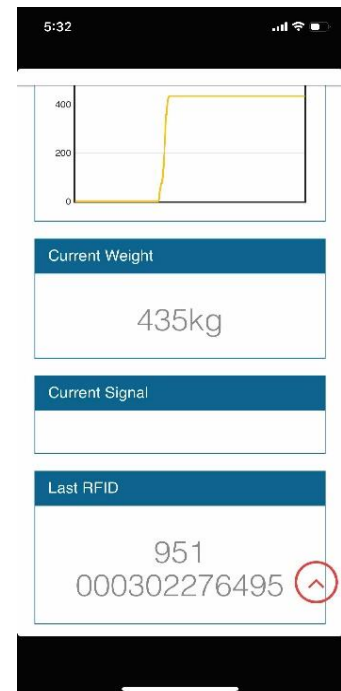
Maintenance and disposal

The Remote WOW systems are designed to be hands off, day to day, week to week. However, like all machines, they require some maintenance.

Once a month, all year round we recommend you do the following:

- Clean the solar panels with a soft, clean cloth and warm, soapy water.

A build-up of bird droppings may prevent the solar panels from working correctly. Ensure you remove any bird droppings when cleaning the solar panels.

Once or twice a year we recommend you do the following:

- Check the water level in the battery/batteries and top up with distilled water if required.
- Clean the camera lens with a soft, clean cloth (using nothing abrasive, and if the camera is installed).
- If you have a Remote WOW Flexi Drafter, grease the top and bottom drafter bearings.
- Inspect the platform seals for damage to ensure that dirt cannot get between any cracks or openings and cause damage.
- Examine the inner and outer platform to check that there is no dirt or rocks trapped, thus obstructing platform compression. Clean out any debris if necessary.

Remote WOW Flexi models only:

Constantly check all cables are protected and not damaged,

Disposing of the product at the end of its life

The Remote WOW system contains two lead acid batteries which must be removed before the product can be scrapped.

This product and its battery must be disposed separately from household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.

Product warranty

Terms and conditions for Remote WOW products

Effective October 2019

Datamars SA's warranty obligations for Remote WOW products manufactured by, or for Datamars SA, are limited to the terms set out in this policy.

Datamars SA warrants its products to be free of defective materials and workmanship for the periods outlined below.

If a warranted defect occurs, please return the product along with proof of purchase to the place of purchase. If Datamars SA receives a valid claim within the warranty period, Datamars SA will, at its option:

- Repair the product at no charge, using new replacement parts.

- Exchange the product with a product that is new or has functionality equivalent to the original product; or

- Refund the product's original purchase price.

Warranty period

The period of warranty (warranty period) begins at original date of purchase and runs for the following terms:

- Two years against manufacturing defect.

Exclusions and limitations

This warranty applies only to Datamars products manufactured or supplied by, or for Datamars SA.

The liability of Datamars SA under this warranty is excluded to the extent that any defect has been caused or contributed to, by:

- Any accident, contamination, tampering, modification, wilful damage, improper storage, improper use or negligent act of, or by omission by, any person other than Datamars SA
- Improper installation of the unit
- The use of the unit for any other purpose than drafting animals and/or weighing livestock
- The use of the unit for any other purpose than for which it was intended
- The use of anything other than the original equipment or manufacturer's parts
- Any damage to the unit caused by storm, landslide, fire, lightning, earthquake, tornado or any other naturally occurring phenomenon
- Any damage to the cabling of the Remote WOW system caused by production animals, vermin, bird life or other pest
- This warranty specifically excludes the unit colour, which may fade or change over time.

To the maximum extent permitted by law, this warranty is exclusive, personal to you, non-transferable, and in lieu of all other warranties, representations or conditions relating to this product (whether express or implied and whenever arising) whether originating by statute, law, trade, custom or otherwise.

The product warranty is only valid in the original country of purchase. Any claims made in another country may incur full repair costs at the owner's expense.

Appendix: A - Commissioning checklist form

Please complete a copy of this form and email it to *Datamars Technical Support at* agdata@datamars.com.

DATAMARS Remote WOW Commissioning checklist form	
Organisation/Company	
Contact Person	
Contact Address	**Work Phone**
	Mobile Phone
Town/City	**Email**
State/Postcode	

Remote WOW model (tick applicable)

Remote WOW Prime 4G	☐	**Remote WOW Flexi 4G**	☐
Remote WOW Prime Satellite	☐	**Remote WOW Flexi Satellite**	☐
Remote WOW Prime Drafter 4G	☐	**Remote WOW Flexi Drafter 4G**	☐
Remote WOW Prime Drafter Satellite	☐	**Remote WOW Flexi Drafter Satellite**	☐

Farming system (tick applicable)

Extensive Cattle	☐	**Intensive Cattle**	☐	**Other**	☐
Feedlot Cattle	☐	**Extensive Sheep**	☐		☐
Intensive Sheep	☐	**Feedlot Sheep**	☐		

AUS Sales Contact / Territory Manager	
Contact Name	

Desired outcomes (e.g. weaning times for breeding herd, representative weights to inform mustering etc.)

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Appendix: B - Determining a satellite

Only relevant for Remote WOW Flexi Satellite and Remote WOW Flexi Drafter Satellite models.

When installing a satellite antenna (see page 19) you need to ensure the angle and elevation of the antenna is pointed towards a chosen satellite for optimising communication with it.

There are a number of web site utilities that can be used for identifying suitable satellites for your location and from the list of satellites found you choose the best one that provides the highest elevation, as that will facilitate the most reliable (and fastest) connection.

To determine a satellite to connect to:

- For example, in a new browser tab go to: https://www.satking.com.au/satellite-tv/vast-satellite-receiver/dish-alignment-calculator-with-google-map

- Enter your physical address into the Location box and click Go!

- Select a satellite from the dropdown of available ones to select from, and click Go!

- Scroll down to see the statistics on the address like the longitude, latitude, dish elevation and azimuth.

- Use the dish elevation and azimuth data for configuring the satellite antenna at the top of the Remote WOW.

We recommend selection of an INMARSAT satellite. Each Inmarsat satellite covers some part of the earth's surface, but none can cover the entire surface. This means that there are several satellites up there for each operator.

In APAC (Asia/Pacific), we can use these as they are visible to us:

- INMARSAT 4-F1

- INMARSAT 3-F3

- INMARSAT 5-F3 (except central and south Asia)

In EMEA (Europe/Middle East/Asia) we can use these as they are visible in that region:

- INMARSAT 3-F5

- INMARSAT 3-F2

In the Americas we can use these as they are visible in that region:

- INMARSAT 3-F4 (except Alaska and north-west Canada)

- INMARSAT 5-F2 (except Alaska and north-west Canada)

- INMARSAT4-F3

The ideal is to choose the Inmarsat option that provides the highest elevation, as that will facilitate the most reliable (and fastest) connection.

Entering "Adelaide Bore Road NT" as the location in Australia and selecting INMARSAT3-F3 as the satellite presents a dish elevation of 34.3 degrees and azimuth 64.6 degrees.

You can get similar results using other satellite location utilities such as: https://www.oceaneering.com/positioning-solutions/geostationary-satellite-calculator/

This one works off entering the longitude and latitude of the location, selecting a detected satellite from the results set based on the highest elevation.

# Appendix: C - Datamars Livestock® cloud software

What is it?

Datamars Livestock® is a cloud-based online programme that enables you to access your weighing data from anywhere, on any device with an internet connection.

What does it do?

Datamars Livestock® enables you to see how your animals are performing against target weights, and identify top and bottom performers via simple graphs and charts. Your weighing data is transformed into clearly presented graphs, generating powerful insights to help you identify trends and better manage your livestock.

You can view camera images (if camera is installed), check stock tallies and send newly created draft lists to the Remote WOW system.
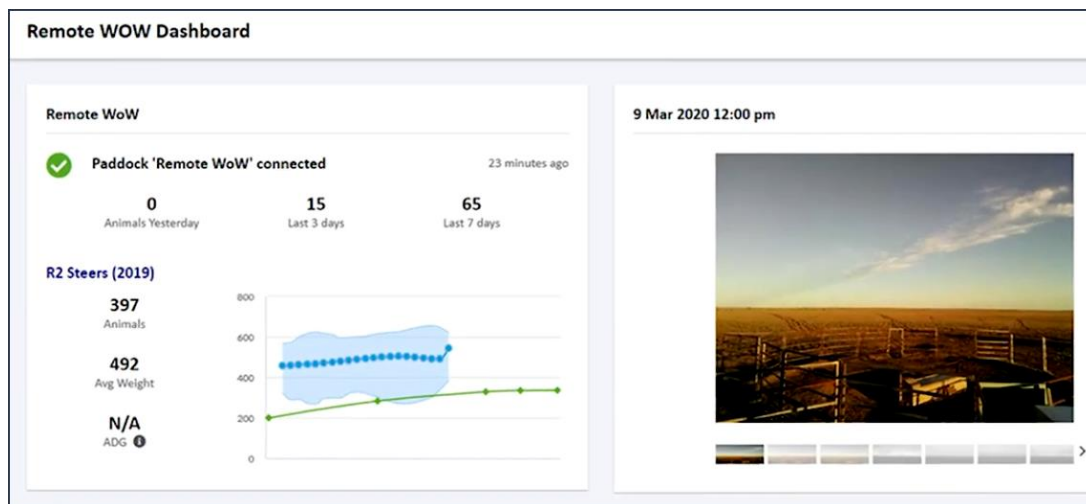
Why should I use it?

Using Datamars Livestock® will allow you to turn your weight data into clearly presented and useful information to help you better manage individual animal performance. Some of the benefits include:

- Single cloud portal allows you to access your weighing data from anywhere.
- Weigh data is automatically uploaded for viewing.
- Animal weights and data can be viewed by individual animal or by group.
- Information can be shared with staff, vets or consultants without needing to attach files to emails.
- Animal performance can be set up and tracked against target weights.
- Particular animals can be selected and drafted remotely.

For details on how to access and operate Datamars Livestock®, contact *Datamars Technical Support*. (for contact details refer to page 6).