



PRODUCT GUIDE

An overview of all the
innovative products
available through
DIT AgTech.



ABOUT DIT AGTECH

DIT AgTech is the country's preeminent leader in technology systems for the agricultural and livestock sector.

Our mission is to provide graziers and farmers with the most advanced technology to use in a number of applications on their properties to improve animal health, well being and increase production values.

Our various IoT devices enable property owners to have the peace of mind that their property is running efficiently and they are able to control this all from the cloud based uHUB platform.

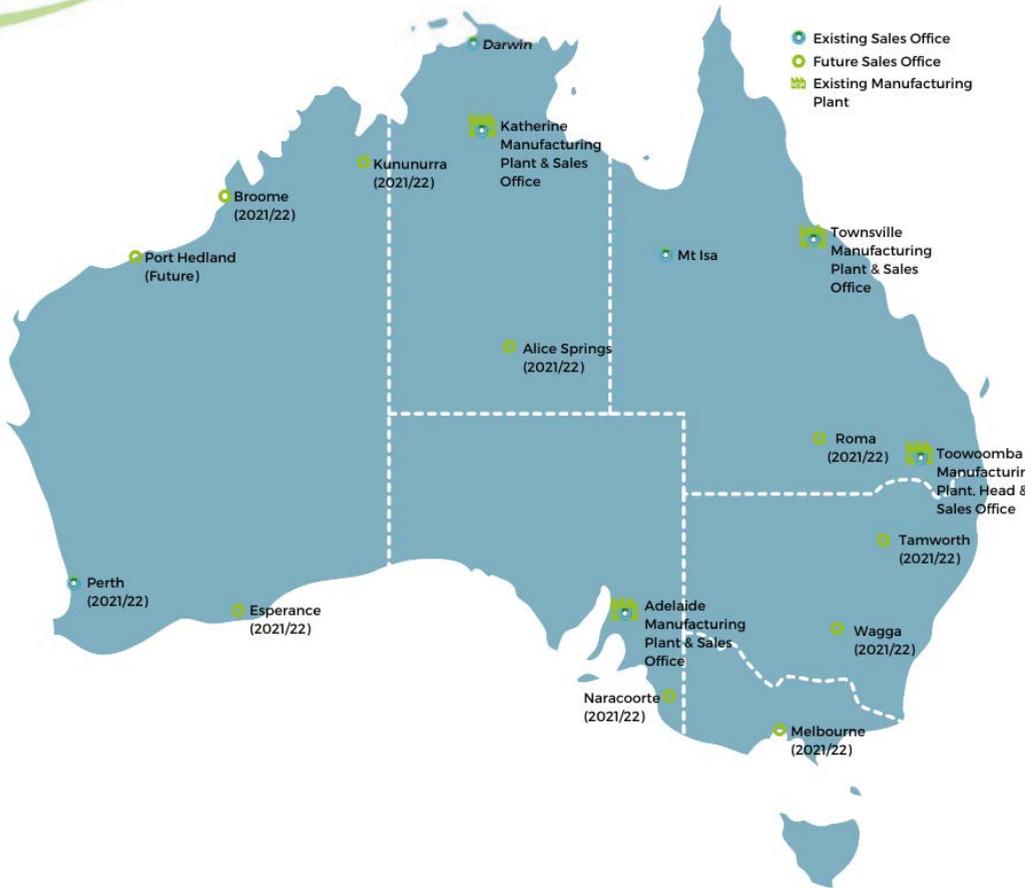
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- 06** **uPRO ORANGE**
Most cost effective source of nitrogen, for dry season supplementation.
- 08** **uPRO GREEN**
Soluble Phosphorus for year round supplementation.
- 10** **uPRO SOUTHERN**
Put an end to lick runs and oral drenching.
- 12** **uTRACE**
Providing livestock with essential trace minerals for growth and production.
- 14** **uTETANY**
Prevent grass tetany. Put an end to rumen boluses and capsules.
- 16** **uCALM RANGE**
Supporting your livestock during transport, yarding and handling
- 18** **MADE TO ORDER**
A range of products which can be formulated to suit individual requirements.
- 20** **uDOSE**
Technology designed to proportionally dose DIT supplements into livestock drinking water.
- 22** **uCAM**
Cloud based remote camera and data solution uploaded in real time.
- 24** **uTANK**
Solar powered unit that uses ultrasonic technology to measure water levels.
- 26** **uHUB DASHBOARD**
Cloud based platform used to monitor on farm technology in the palm of your hand.



OUR LOCATIONS



Find us in these locations across Australia

Contact **1300 123 348** for your nearest Territory Manager



WATER SUPPLEMENTING

What are the benefits of water supplementation?

DIT are the market leaders in water supplementation (formerly known as water medication) for the Australian livestock industry.

Ruminant nutrition differs greatly to normal animal nutrition. Unlike monogastric animals, ruminant animal digestion is dependant entirely on the ability of rumen microbes to convert available pasture into substances that sustain growth. It is the health of these rumen microbial colonies that determines the health of the ruminant animal. Rumen microbes are many and varied and so too is their response to the type of feed available.

At DIT AgTech, our core belief is that the most cost-effective method to maximise the maintenance, growth and production of livestock is to ensure that these rumen microbes have access to all the elements required for normal rumen fermentation. Our supplements have been designed specifically to address the primary limiting nutrient because all animal performance depends on the availability of the most limiting nutrient.



uPRO ORANGE

Cost Effective, Safer form of urea for dry season utilisation

Key Points

- The most cost-effective source of Crude Protein
- Ideal for dry feed protein supplementation, whilst also providing Phosphorus and Sulfur
- Patented inclusion of Urea Phosphate provides safety and stability

Analysis (as fed basis)	%
Minimum Crude Protein	207.9
Urea Equivalent	72.3
Nitrogen (N) Total	33.3
Phosphorus (P) as water soluble	6.7
Sulphur (S) as water soluble	2.4

uPRO ORANGE

Product Guide

Why Supplement uPRO ORANGE?

uPro ORANGE is uniquely designed to overcome dry periods and utilise dry pastures while being the most cost-effective source of crude protein. During these times the nutritional value of pastures being grazed is significantly low and become less accessible to cattle and sheep. As a result of pastures maturing, it becomes harder for animals to digest causing a decline in weight gains. A lack of protein within the pasture is responsible for the loss of productivity in animals during the dry. This inadequate supply of protein limits the function of the rumen microbes, with cellulolytic bacteria unable to break down and utilise the cellulose components of the grass. By providing a steady source of non-protein nitrogen (NPN), the cellulolytic bacteria are able to effectively establish and utilise the low-quality pasture efficiently. This also provides additional growth factors to microbes within the rumen to also utilise to finally provide a source of true protein to the animal itself.



uPRO ORANGE

Product Guide

uPRO GREEN

Smash Phosphorus Deficiency

Key Points

- 100% soluble and available source of phosphorus for wet season when P is the limiting nutrient
- Provides an additional source of nitrogen and sulphur as a buffer against sudden pasture protein drop
- Can be used as an effective supplement for all round feeding on marginal country throughout Northern Australia

Analysis (as fed basis)	%
Minimum Crude Protein	98.2
Urea Equivalent	34.2
Nitrogen (N) Total	15.7
Phosphorus (P) as water soluble	21.2
Sulphur (S) as water soluble	1.2

uPRO GREEN

Product Guide

Why Supplement uPRO GREEN?

Cattle and sheep require phosphorus (P) for almost every bodily process. During the wet and growing season, particularly in Northern Australia, when pasture energy and protein is not limiting, P supplementation plays a vital role in ensuring pasture utilisation is maximised. However, while the requirements for P for growing bones, milk production and lactation are well understood, the requirement for P by rumen microbes for rumen fermentation is less understood. This requirement is additional to the requirements of the animal itself.

As well as supplying P, uPRO GREEN provides Nitrogen in the form of "slow release", safe urea. Numerous studies have shown that feeding some nitrogen during the wet season does provide a benefit that translates to more kilos of production. Traditionally, many P supplements come in the form of a blended Calcium Phosphate. Whilst it is important to balance the C:P ratio, calcium deficiency is rarely an issue and nearly all grazing livestock will obtain their calcium requirements directly from pasture intake. In contrast, uPRO GREEN provides its P in the form of Urea Phosphate, which means that for every gram of P that is fed, an additional gram of N is available as well to produce rumen microbial protein.



uPRO GREEN

Product Guide

uPRO SOUTHERN

Put an end to lick runs in Southern Australia

Key Points

- A soluble source of the major macro and micro nutrient requirements of grazing beef, dairy and sheep specific to Southern Australia
- Can be used both to supplement livestock feeding on dry pasture or as part of a year round supplementation program
- When used in conjunction with the uDOSE, uPRO SOUTHERN is the only supplement available that does not have to be manually administered to livestock.

Analysis (as fed basis)	%
Minimum Crude Protein	62.8
Urea Equivalent	21.8
Nitrogen (N) Total	10.1
Phosphorus (P) as water soluble	7.6
Sulphur (S) as water soluble	3.37
Magnesium (Mg) as water soluble	0.73

uPRO SOUTHERN

Why Supplement uPRO SOUTHERN?

Minerals play a vital role in ruminant nutrition as they are required by ruminant microflora to break down and utilise pasture in rumen fermentation. uPRO SOUTHERN is the first water supplementation product designed for livestock production in Southern Australia.

uPRO SOUTHERN is ideal for both year round feeding and targeted supplementation to address specific pasture deficiencies. uPRO SOUTHERN contains;

- Urea Phosphate to provide a 100% soluble Phosphorus and Nitrogen Ammonium Sulphate to provide sulphur as well as additional Nitrogen
 - Magnesium Sulphate to provide a buffer against magnesium deficiency which can manifest as grass tetany
 - DIT's exclusive uTrace trace element solution, providing a source of Iodine, Copper, Cobalt, Selenium, Zinc and Manganese
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uPRO SOUTHERN

Product Guide

uTRACE

Essential Trace Mineral Boost

Key Points

- Most cost-effective way to combat trace element deficiencies therefore reducing intensive handling and associated animal stress
- Eliminate trace element needling requirements
- Customisation can be done to address specific trace elements deficiencies

Analysis (as fed basis)	mg/L
Iodine	624
Cobalt	247
Copper	7000
Zinc	19285
Selenium	242
Manganese	20077
Magnesium	14550
Sulphur	19350

uTRACE

Why Supplement uTRACE?

uTRACE differs from many other trace mineral products available on the market as it does not require needling or drenching to be administered. uTRACE is designed to provide rumen microbes with a daily source of soluble, and therefore 100% available source of trace minerals to supplement pasture intakes.

uTRACE is a water-soluble trace element solution that is formulated to provide all major trace elements required by sheep and cattle. It can be customised to address specific trace element deficiencies. uTRACE contains:

- Iodine
- Copper
- Cobalt
- Selenium
- Zinc
- Manganese



uTRACE

Product Guide

uTETANY

Put an end to rumen boluses and capsules

Key Points

- Provide the complete or partial magnesium requirements of grazing livestock to aid in the prevention of grass tetany

Analysis (as fed basis)	%
Minimum Crude Protein	62.8
Urea Equivalent	21.8
Nitrogen (N) Total	10.1
Phosphorus (P) as water soluble	7.6
Sulphur (S) as water soluble	3.37
Magnesium (Mg) as water soluble	0.73

uTETANY

Product Guide

Why Supplement uTETANY?

uTETANY is a formulated product designed to prevent and counter the effects of hypomagnesemia also known as grass tetany which is caused by low levels of blood magnesium commonly found as a result of pasture magnesium deficiency. Lactating cows are often the most susceptible to grass tetany as available magnesium in the pasture may drop below the requirements of the animal. uTETANY supplies a source of soluble magnesium so that at risk animals have a readily available source of magnesium when requirements rise above and beyond what the pasture can supply. By supplying magnesium through the water, requirements to individually drench or insert rumen boluses are completely alleviated. uTETANY contains:

- Magnesium Sulphate to provide a buffer against magnesium deficiency which can manifest as grass tetany
- DIT's exclusive uTRACE trace element solution, providing a source of Iodine, Copper, Cobalt, Selenium, Zinc and Manganese



uTETANY

Product Guide

uCALM RANGE

Stress and Dehydration Relief

Key Points

- A water soluble product designed for rehydration and stress relief during yarding and transportation

Analysis (as fed basis)	%
Minimum Crude Protein	0.0
Sodium Chloride	0.98
uTRACE Mineral Micro Mix	1.5
Sulphur (S) as water soluble	14.9
Magnesium (Mg)	1.935
Glucose	1.455
	10.10

Why Supplement uCALM?

Livestock experience stress during yarding, transport and weaning, resulting in production loss from decreased appetite and extended recovery periods. uCALM provides magnesium as a natural sedative to reduce stress in livestock as well as electrolytes and trace minerals to aid in hydration.

uCALM EXPORT was developed off the back of the trial and research work undertaken by DIT as part of being awarded an accelerating commercialisation grant to develop a product specifically to try and address some of the animal welfare issues associated with live export. uCALM EXPORT is formulated specifically to supplement livestock at all points along the live export supply chain including farm gate, transportation, export yards and depots, onboard vessels, and at discharge. uCALM EXPORT provides a soluble source of trace minerals, electrolytes and magnesium to provide an animal welfare and performance benefit.

uCALM WEANER is designed to not only re-hydrate and provide stress relief to cattle and sheep during weaning and yarding, but also to provide rumen microorganisms in young and developing livestock with a source of phosphorus, nitrogen and glucose, to stimulate collusion digestion and appetite. Supplementary feeding of weaners has shown to be a cost-effective method of decreasing mortality rates.

CONTAINS:

- uTRACE (trace element solution)
- Magnesium sulphate
- Electrolytes



uCALM

Product Guide

ALSO AVAILABLE

Products made to order

- DIT is able to formulate a wide range of water-soluble feed additives. If you have a query or an idea about dosing a particular input or feed additive through livestock drinking water, please contact our nutritional specialist on 1300 123 348.

Products

- **uPRO MULGA**
- **uFORAGE**
- **uPHOS**

Also Available

What is uPRO MULGA ?

A variation of our uPRO ORANGE mix designed specifically to supplement cattle and sheep grazing on mulga. Mulga (*Acacia aneura*) is a small tree native to regional areas of Australia. Mulga contains tannins, a bio molecule, which binds to protein in the plant. This binding behaviour prevents the animal from accessing the protein while grazing mulga, resulting in reduced production and development. As well as providing a source of nitrogen, phosphorus and sulfur to rumen microbes, uPRO MULGA contains Polyethylene Glycol (PEG) which has been shown to assist the breakdown of tannins found in mulga.

What is uFORAGE?

uFORAGE is a specifically formulated to reduce the effects of Prussic Acid on cattle grazing forage sorghum. Sorghum grown in stressed situations can have increased levels of Cyanogenic Glycosides which is converted into Prussic Acid. The levels are normally higher in plants that have suffered through drought and even more likely once the drought has broken and plants begin to grow. As well as providing a source of nitrogen and phosphorus, uFORAGE contains high level of sulphur, which is believed to increase cattle's efficiency to convert Prussic Acid into a non-toxic form. uFORAGE is also ideal for cattle grazing Leucaena.

What is uPHOS?

uPHOS is a phosphoric acid-based formulation, designed to supply livestock with available P in phosphorus deficient country. uPHOS does not contain any nitrogen and is an alternative product to uPRO GREEN where nitrogen supplementation is either not desired or necessary.



uDOSE

Efficient supplementing via remote telemetry

Key Points

- Designed for exclusive use with the DIT Supplement range
- The only dosing unit designed specifically to be compatible with urea feeding
- Enhanced safety features for peace of mind
- Ensure the whole herd receive the correct supplement dose
- Cost effective - reduced wear and tear on equipment, save on labour costs
- Flexible rental and install options
- Touch screen for ease of use
- Remote telemetry for monitoring dose rates

Why dispense with a uDOSE?

The uDOSE is designed exclusively for use with the DIT supplement range. Put an end to expensive lick runs and ensure that all your herd are receiving the correct dose of supplements while enjoying the peace of mind that our safety features offer. Check on the efficiency and control the uDOSE from the palm of your hand with the uHUB app.

Features

- Treat up to 10,000 head per day per unit
- Multiple fail safe mechanisms proven to provide safety
- Solar powered
- Remote telemetry with uSEE Platform connectivity
- Tech support available



*Unit Includes

uDOSE Unit	Microprocessor control board, solenoid valve, electronic gate valve, high pressure 12v Diaphragm Pump
Battery	12 volt 75ah
Solar Panel	70w Monocrystalline
Conductivity Probe	Included
Manifold	Water meter, injection point and required plumbing fittings
Remote Monitoring Capability	Satellite Data Package Included
Warranty	Lifetime
Updates and Servicing	Lifetime

*Included in Full Service Model and Units with Offtake agreements

uCAM

Cloud based remote camera and data solution

Key Points

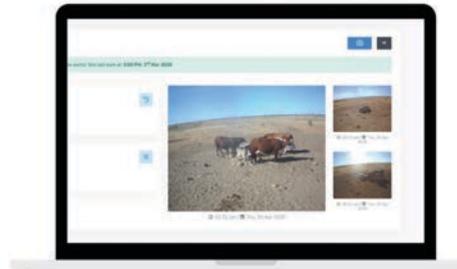
- Monitor livestock and water troughs
- Monitor creek and river crossings
- Takes photos on a schedule or on demand
- Review images via uSEE App on your phone or laptop
- Satellite or Next G coverage

Why install a uCAM?

The uCAM is a cloud based remote camera and data solution. Take photos on a schedule or on demand to see when issues arise on your property. Review images via the uHUB Platform on your mobile phone or laptop from anywhere in the world. The flexible mounting hardware allows you to position the camera to capture the most relevant images.

Features

- Next G and Satellite options
- Images immediately uploaded
- View via uHUB Platform
- Notifications via email or SMS
- Mounting hardware supplied
- Solar powered
- Fully mobile
- Tech support available
- One year warranty



Unit Includes

The uCAM is currently under re-development and the new product will be ready for release in mid 2021.

uTANK

With built in Rain Guage

Check water levels remotely with uHUB technology

Key Points

- Check water levels on tanks, irrigation systems, dams and turkey nests
- Satellite or Next G coverage
- Review data from the palm of your hand with the uHUB App
- Set Email or SMS notifications for pre-set water level discrepancies

Why install a uTANK?

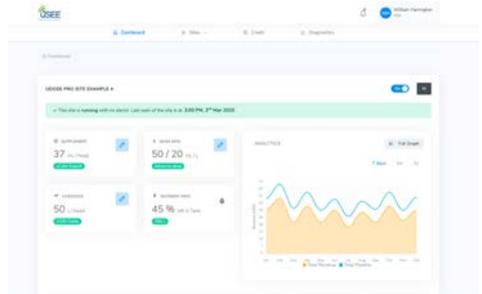
The uTANK is a solar powered unit that uses hydrostatic technology to measure the level of water in your tank or reticulated water system. The level readings are immediately uploaded to the uHUB cloud via mobile or satellite network.

You can review these readings anytime via the uHUB Platform.

Set email or SMS notifications for when the water level is above or below desired limits. Standard tank sensors include a rain gauge mounted on the lid. The modular design allows for easy access for servicing and replacement of parts.

Features

- Next G and Satellite options
- Readings immediately uploaded
- Built in rain gauge
- View via uHUB Platform (mobile app or web browser)
- Notifications via email or SMS
- Mounting hardware supplied
- Solar powered
- Modular, hard wearing design for serviceability
- Tech support available (Territory managers or phone support)
- One year warranty



Unit Includes

The uTANK is currently under re-development and the new product will be ready for release in mid 2021.

uHUB DASHBOARD

Why install the uHUB Remote Monitoring Platform?

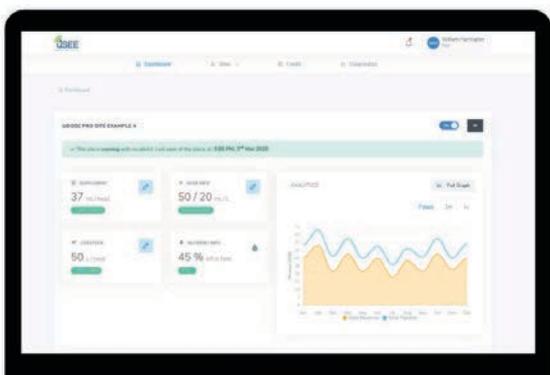
uHUB Remote Monitoring is a revolutionary remote monitoring solution that captures live data and images of a targeted site.

The cloud-based technology allows you check livestock watering points, feeding devices or other sites and access the data through your mobile device or computer via the uHUB website and app.

The solar powered units work on mobile and satellite coverage, have flexible hardware and are easy to install allowing you to position them at any site or watering point that needs monitoring.

Notifications and alerts through email and SMS can be customised so you know when an image is taken and if a tank or dam level has changed allowing you to make informed decisions and save time. The website and app allow you to observe current data, view past data, change the image and data schedule, top up your credit and view costs saved.

uHUB Remote Monitoring is the solution to help you increase productivity, increase animal welfare, reduce costs and most importantly give you peace of mind.



Latest Observations

 West Gooyong North George's



NOTES



DIT AgTech

'Enabling farmers to produce more with less'



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