

Save lives and reduce injuries with eSTOP™

Keep your Traffic Controllers out of danger with Arrowes portable traffic signal system.



Replaces stop/slow baton with remote controlled traffic lantern

Enables traffic controllers to perform duties safely away from live traffic

Remove controllers from facing abuse and hydration related risks

Reduces near misses by up to 93%

The most widely used PTSS across Australia and New Zealand



Australia's first Type 1 approved Portable Traffic Signal System (PTSS), the eSTOP™ is the new benchmark for roading safety. Made mandatory in certain States for high speed and high risk worksites, trials conducted by a tier one roading company showed use of the eSTOP™ resulted in a staggering 93% reduction of near misses.

Viewing distance: It stands out can be viewed from a greater distance, giving motorists more time to react.

Greater visibility: In low light, overcast and foggy conditions, motorists can not see traffic controllers, but they don't miss the eSTOP™.

Sun safety: Traffic controllers can stand in the shade away from harmful rays, fatigue and dehydration.

Portability: The eSTOP™ provides a more portable, easier to deploy alternative to heavy and hard to handle trailer mounted traffic lights.

Time tested reliability: Invented by Arrowes in 2016, the eSTOP™ has been built to the highest standards and time tested for endurance and performance.



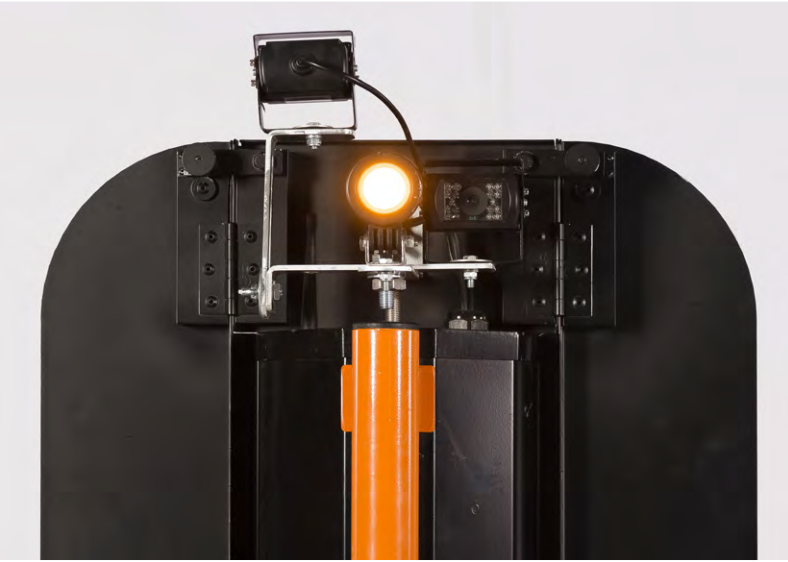
eSTOP™ Standard

In its standard configuration, each eSTOP™ lantern can be controlled either by one person in when PAIRED, or two people when independently PAIRED.

In PAIR mode one traffic controller can control two lanterns at the same time while the Hand Remote Controller (HRC), in this mode of operation, the fail-safe feature ensures no two green lanterns on at the same time.

Features

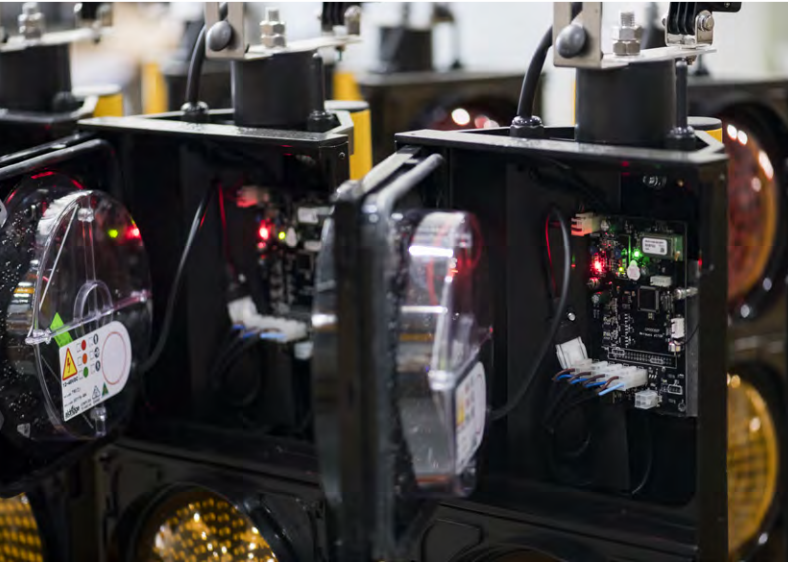
- Type 1 approved across Australia and New Zealand
- Fail-safe features to prevent 2 green lanterns at the same time
- Tilt and rotation alarms
- Ergonomic design with robust, light weight components of max 8.4 kg
- Portable and easy to assemble
- Integrated target board (compulsory in NSW & NZ) PATENT ID 2020100318
- 15 hours battery life
- Small Hand Remote Controller (HRC), UV protected, rated IP65 with range of up to 400 m, able to control up to 2 lanterns
- Handling protection, IP65 rated cable connections at all device parts to make reverse connections impossible
- Adjustable tripod legs for uneven surfaces, adjustable height
- Wind-load tested
- Fully encrypted for advanced cybersecurity



eSTOP™ Standard Multi

Provides all features of the eSTOP™ Standard but with the ability to control up to 4 lanterns with a single HRC.

In Multi Pair mode, one button will control two lanterns simultaneously. For example, when deployed on one end of a two-lane road to ensure visibility for both lanes, or to control the exit of a construction site and temporarily close all traffic when mobile plants leave.



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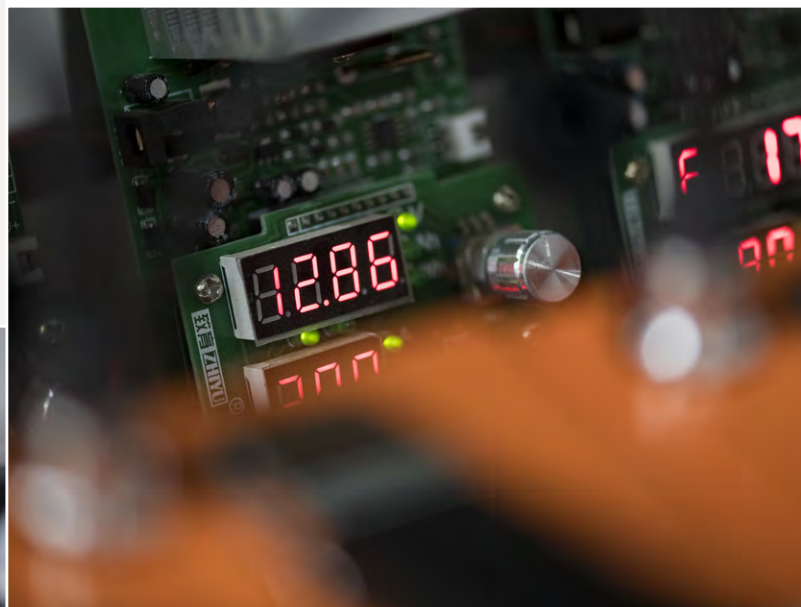


eSTOP™ Auto Patent Application ID: 2020901429

Simple to use, the eSTOP™ AUTO applies the pre-programmed logic and regulates traffic under human supervision.

The embedded vehicle radar ensures shortest possible waiting times and can overrule "green" periods when no vehicle is approaching to let the waiting vehicle on red proceed. A countdown embedded in the yellow traffic light engages with waiting motorists to avoid situations of jumping the red light, or frustrated motorists.

Based on the most deployed eSTOP™ solution across Australia and New Zealand – the eSTOP™ AUTO is extremely portable allowing for fast deploy providing frontline workers safer work environments in situations where they would otherwise have to work without any traffic control solution; such as emergency jobs and working on road bends.



eSTOP Auto Features

Provides all features of the eSTOP™ Standard, plus the following:

- Easy and simple configuration of waiting and clearance time via latest HRC X
- Human supervision only, no human intervention required after activation of AUTO mode
- Ability to operate in AUTO and MANUAL mode
- Up to 2km distance with clear line of sight
- Vehicle actuated: override Auto mode when vehicle is detected (available as option)

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Options

Bags: Protective, secure and easy to carry hard case for lanterns, target boards, batteries and tripod legs.

Camera: Front and rear camera recording providing further protection for front line workers and evidence in insurance cases. Camera footage includes GPS location, time-stamp as well as indicating traffic light status. Recording on embedded SD card.

Target Board: Patent ID 2020100318
Mandatory for NSW & NZ.

Vehicle Actuation:

(for eSTOP™ AUTO only) Patent Application ID: 2020901429

Reduces motorists waiting time; for example by extending GREEN period in case of no queuing vehicle on RED side.

HRC X up to 2km range

Patent Application ID: 2020901429

Up to 2km range with clear line of sight

Mobile car battery charging kit: Equipment required to charge eSTOP™ batteries while in the field.

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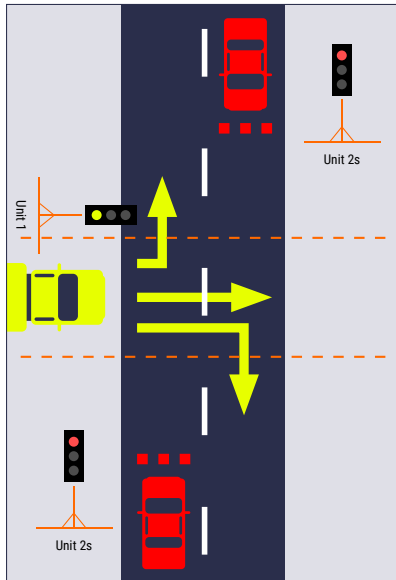


eSTOP™ Multi use case scenarios

eSTOP™ Plant Crossing States

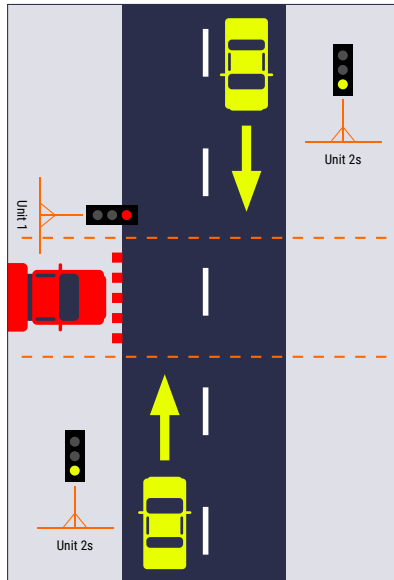
State 1

Unit 1 green = work vehicles to cross.
Unit 2s both red = all traffic stops.



State 2

Unit 1 red = work vehicles stopped.
Unit 2s both green = all traffic flowing.

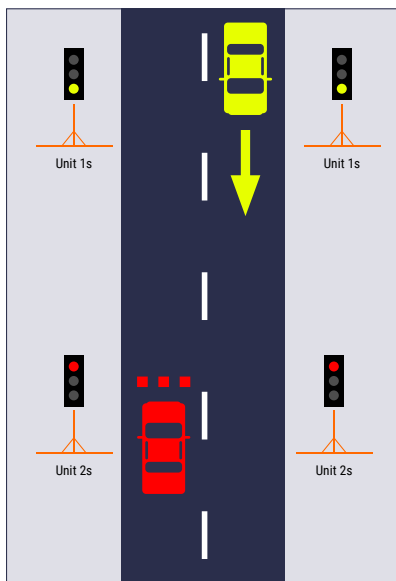


NB Unit 2s lantern colour must always match

eSTOP™ Multi Duplicate Light States

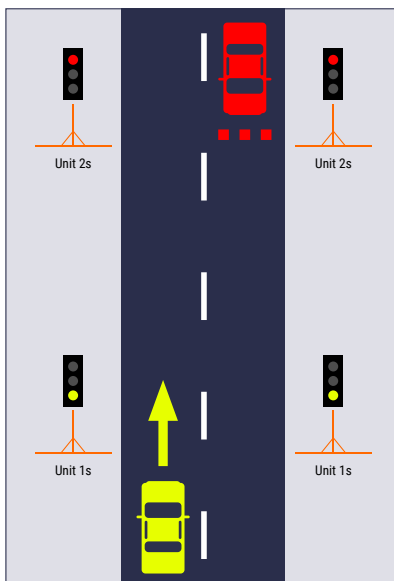
State 1

Unit 1s both green = south traffic flows.
Unit 2s both red = north traffic stops



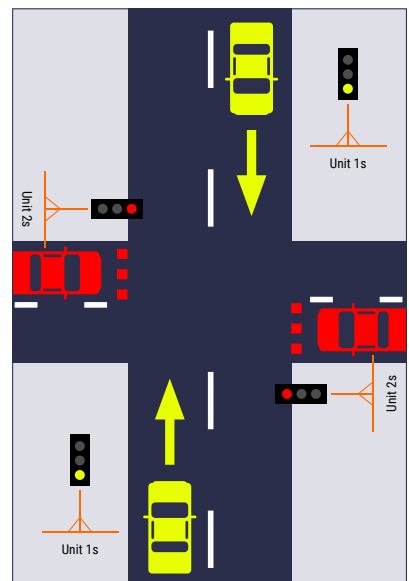
State 2

Unit 1s both red = south traffic stops.
Unit 2s both green = north traffic flows.



State 3 - Intersectional

Unit 1s both green = north & south traffic flows.
Unit 2s both red = east west traffic stopped.



Mirrored lights on each side ensures visibility of eSTOP™ in multi-lane / highway situations or to prevent visibility being blocked by large vehicles.



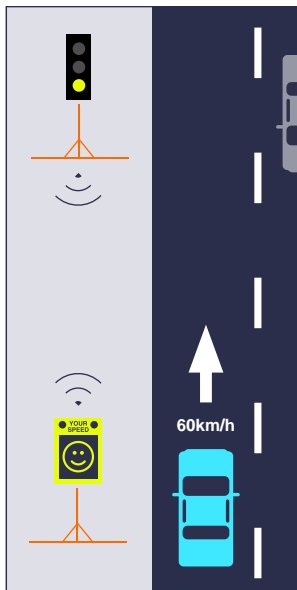
eSTOP™ with eSAS integration

Large, 'B' size eSAS

Integrated alert lights flash when eSTOP is red

Warning message on display when eSTOP is red or motorist is speeding

Connected via eSTOP™ HRC



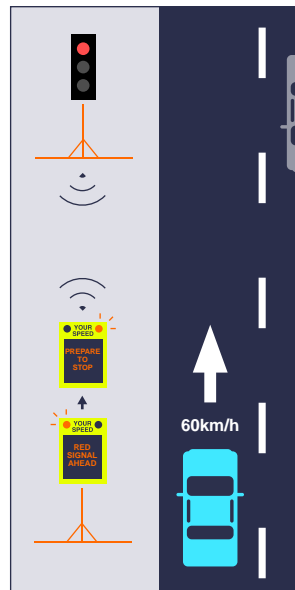
Green light + NOT speeding

eSTOP signal is green + vehicle travelling below speed limit = **Smiley face** and **THANK YOU** message. Wigwag LED is off.



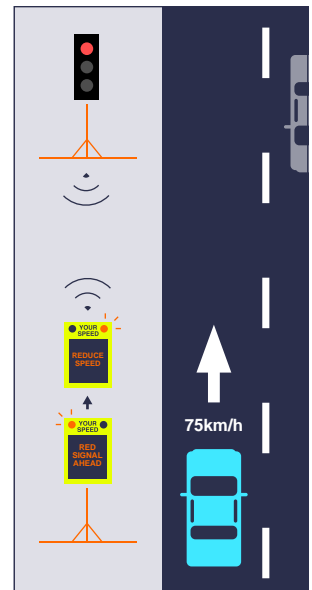
Green light + speeding

eSTOP signal is green + vehicle travelling over speed limit = **Frown face** and **SLOW DOWN** message. Wigwag LED is off.



Red light + NOT speeding

eSTOP signal is red + vehicle travelling below speed limit = **RED SIGNAL AHEAD** and **PREPARE TO STOP** message. Wigwag LED is flashing.



Red light + speeding

eSTOP signal is red + vehicle travelling over speed limit = flashing **REDUCE SPEED** and **PREPARE TO STOP** message. Wigwag LED is flashing.

Patent Application ID: 2019904761

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eSTOP™ with eBOOM integration

Pairing the eBOOM to the eSTOP™ provides both a traffic signal and a physical barrier while remaining highly portable. The units are able to be easily synchronised and controlled simply via one remote control.

With a weight of just 21 kg, the eBOOM redefines the portability of boom gates. Easily set-up by a single person, the eBOOM is designed to be positioned at the back of a traffic control ute or freestanding on a tripod base.

Following the very same pairing procedure as used for the eSTOP™, the eBOOM is controlled by the same eSTOP™ HRC is easily set to seamlessly synchronised with the eSTOP and the corresponding traffic light state.

Traffic workers can not only perform their duty outside of live traffic but also introduce an additional physical barrier to their jobsites should this be required.

eBOOM body weighs just 21kg

Sensor prevents arm lowering onto vehicles or people

Red warning light flashes when lowering and lowered

Connected and controlled by a fully encrypted HRC

4 Second beeper warning prior to lowering. Arm lowers prior to red, arm lifts prior to green

Plug-in boom arm of up to 3m

Can be positioned on a ute with no need for any extra mounting



Patent Application ID: 2020901026



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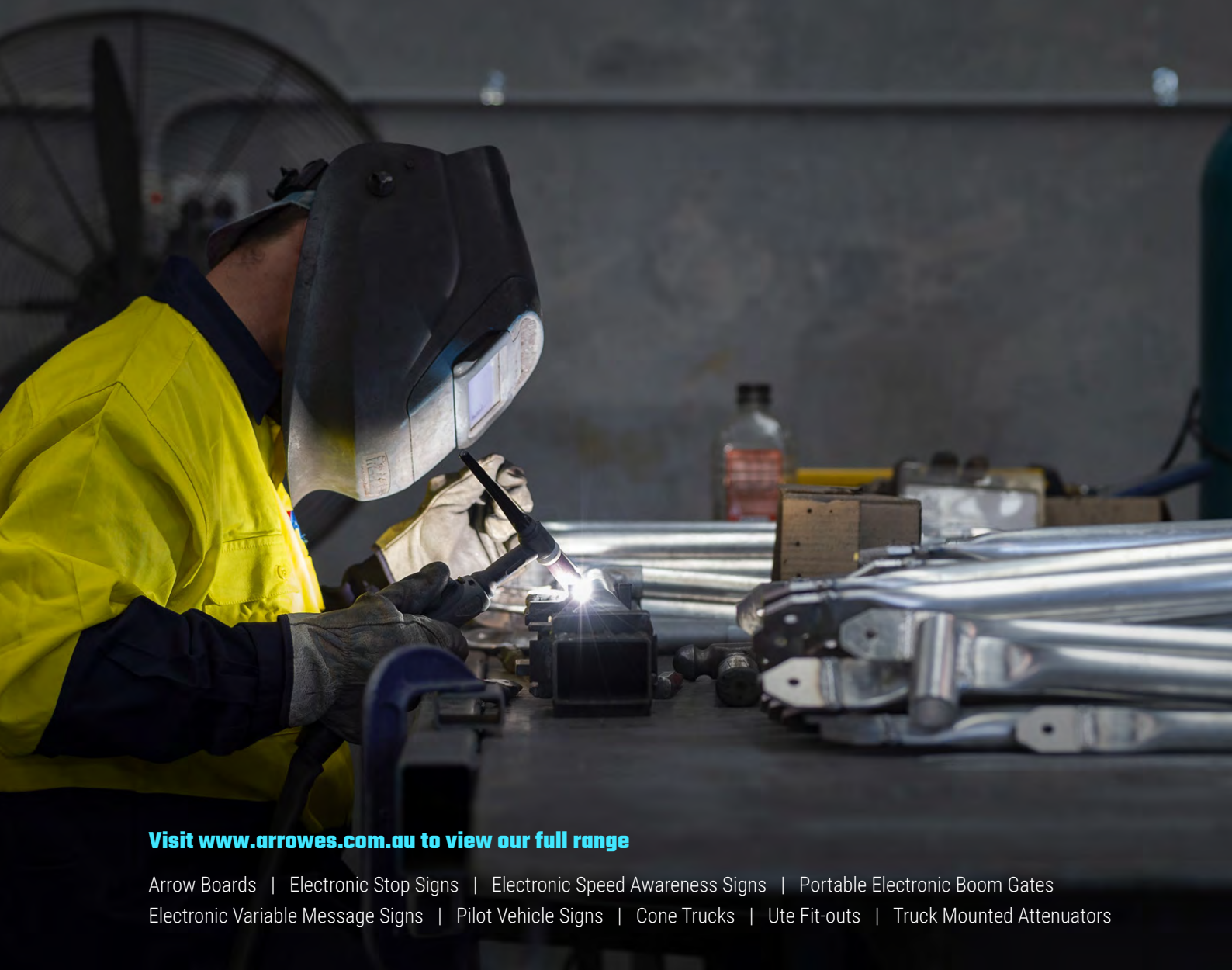
Quality Australian manufacturing.

Our manufacturing facilities are closely embedded into the local and regional supply chain and ecosystem. Arrowes sources as many components, parts and supplies as possible from our Queensland and Australian suppliers. We support the local business community and ensure our close connections benefit our clients in terms of response times, quality and service.

Find out more about how eSTOP™ can help your team:

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Visit www.arrowes.com.au to view our full range

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Electronic Variable Message Signs | Pilot Vehicle Signs | Cone Trucks | Ute Fit-outs | Truck Mounted Attenuators



ARROWES™
ROADING SAFETY