



**ULTRA-TECH**  
ELECTRONICS

**HIGH QUALITY PRODUCTS  
& SOLUTIONS FOR LIGHTING CONTROLS  
& SPECIALISED ENGINEERING**

- △ TECHNICAL EXPERTISE**
- △ PRODUCT RELIABILITY**
- △ STANDARD & CUSTOM PRODUCTS**
- △ THE RIGHT SOLUTION  
FIRST TIME & ON TIME**

# WHO WE ARE

## THE NAME BEHIND SOME OF THE GREAT NAMES IN HIGH WATTAGE LIGHTING

Ultra-Tech Electronics is an Australian manufacturer and preferred supplier of high intensity discharge (HID) lighting control products and systems. We supply local and international lighting companies with products and solutions for their high wattage lighting projects.

### Our name is synonymous with:



Technical expertise in lighting



Superior product reliability – with ISO9001 accreditation since 1994 & 100% final testing



High quality replacement alternatives to other brands and products



Standard & custom products: The right solution for every project – right first time & on time



Contract Manufacturing, Engineering & Testing Services – leveraging our superior systems & processes for specialised engineering

A privately owned family business, we are based in the Southern Highlands of New South Wales, adjacent to the Hume Freeway and close to the city and port of Sydney.

*"We are widely acknowledged as experts in high wattage lighting controls. We have been designing and manufacturing products, components and systems for the sector since 1987."*



# WHAT WE DO

## WE DESIGN, MANUFACTURE, ASSEMBLE AND PROVIDE CUSTOM SOLUTIONS AND TECHNICAL SERVICES

For nearly 30 years we have been designing, manufacturing, assembling and supplying innovative components and products that have been used in high wattage lighting projects around the world.

### Products & services include:

- Ignitors, ballasts & capacitors
- LED auxiliaries, high efficiency voltage matching & protection devices
- Transformers, dimming control gear & energy saving equipment
- Voltage regulators
- Harmonic suppression devices
- Power factor correction
- Exterior weather proof & interior control boxes
- Geartray assemblies
- Sheet metal parts, such as trays, brackets & enclosures
- Contract luminaire assembly & contract electrical equipment assembly
- Testing services – electrical & thermal
- Consulting services & technical expertise
- Constant voltage transformers and power supplies.







## **TECHNICAL EXPERTISE**

### ***SAVING TIME AND COSTS ON LIGHTING AND OTHER PROJECTS***

We have extensive technical expertise in lighting control systems and products.

Major OEM customers and others in the lighting industry have acknowledged us as the leading experts in precision HID lighting control equipment.

Our expertise is highly regarded and sought after for advice on product selection, application and site related technical matters, saving time and costs on lighting projects.

### **Our knowledge & experience**

Some of our key staff have more than 30 years of experience in research, development, design and precision manufacturing processes. This enables us to provide a high level of technical back-up and design capabilities for new and modified products, at short notice and at competitive prices.



## **SUPERIOR PRODUCT RELIABILITY**

### ***LONGEVITY AND PROVEN PERFORMANCE***

Our products are designed to comply with international standards and our design, manufacturing and management systems are accredited to ISO-9001 Quality Management Systems standard since 1994.

In addition, our systems for design, material selection, processing and 100% final testing ensure superior product reliability and performance.



## **HIGH QUALITY ALTERNATIVES TO OTHER BRANDS AND PRODUCTS**

### **REPLACEMENTS AND SPARE PARTS**

Because of our expertise, design and manufacturing capabilities, our team can offer technical advice and suitable replacements for most other brands of control gear products and components.

In addition to OEMs, we supply Electrical Wholesalers and Utility providers with replacements and spare parts.

## **STANDARD & CUSTOM PRODUCTS**

### **THE RIGHT SOLUTION, FIRST TIME AND ON TIME**

While we supply standard off-the-shelf products, our in-house design capabilities and flexible manufacturing systems can ensure timely customised solutions for most lighting projects.

We are customer oriented and always willing to adapt to customer needs. This means we seek and deliver the right solution, first time and on time.



# **CONTRACT MANUFACTURING, ENGINEERING & TESTING SERVICES**

## ***WE LEVERAGE OUR SYSTEMS AND PROCESSES FOR OTHER MANUFACTURING AND SPECIALISED ENGINEERING PROJECTS***

Our superior ERP systems, design and manufacturing processes, coupled with our manufacturing capabilities and rigorous quality control, means we can provide contract manufacturing and engineering services for projects outside the lighting industry. These include:


- Contract assembly
- Testing of electrical & mechanical products
- Refurbishing & refitting of luminaire & other equipment on a rotational basis
- PCB design
- Electronic PCB assembly
- Coil winding
- Robotic welding
- Calibration
- Class H varnishing
- Injection moulding
- Encapsulation using urethanes or epoxy resins
- Sheet metal & other fabricated metal components.

## ***TESTING AND COMPLIANCE***

Our skilled engineering staff use precision calibrated equipment for testing and measuring electrical, thermal, physical and lighting parameters. Precision laboratory ovens can test the thermal performance of control equipment, electrical and other materials.

We advise on product compliance and regulatory requirements such as mandatory standards, EESS and ACMA regimes.

Please call us for more information.



***"We can control the coding,  
purchasing and stocking of  
parts and finished goods for  
our customers – enabling  
them to focus on other  
aspects of their businesses."***





# PROJECT SHOWCASE

## **ADELAIDE OVAL**

*ADELAIDE SA, AUSTRALIA*

In the mid-1990s we supplied lightweight control gear to operate high wattage Metal Halide lamps in a revolutionary new retractable lighting tower. Ultra-Tech designed and manufactured unique control gear housings with special thermal properties and project specific ballasts to reduce the size and weight of the gear.

During the 2013 refurbishment of Adelaide Oval we were pleased to be asked back to provide 700 control gear sets for new era higher output lamps and luminaires. Our new gear sets feature high quality components and precision multi-tapped ballasts.



## **SYDNEY OLYMPIC AQUATIC CENTRE**

*HOMEBUSH NSW, AUSTRALIA*

The Olympic venue is now known as the Sydney Aquatic Centre. In the lead up to the Sydney Olympic Games, Ultra-Tech supplied specially designed and coated control gear housings that were less noticeable and had specific thermal qualities. The gear housings took into account the high temperatures found in these warm indoor applications. Our gear housings were designed to ensure that components could be operated within their rating and provide a reliable long term solution.

In 2015 the Sydney Aquatic Centre was refurbished with new lamps, luminaires and control gear. The new control gear was designed and manufactured in Australia by Ultra-Tech.



## **HONG KONG JOCKEY CLUB** **HAPPY VALLEY & SHA TIN RACECOURSES, HONG KONG**

In the early 1990s Ultra-Tech supplied new control gear for cutting-edge high wattage Metal Halide lamps at the Happy Valley and Sha Tin racecourses. With a unique compact design, 1800 sets of the gear remained in service until 2014 – again demonstrating the longevity and reliability of Ultra-Tech equipment.

We then developed a hybrid ballast system with a unique coupling of two separate purpose-built ballasts that operate in conjunction with third party supplied systems to save energy. In addition, the ballasts provide a fail-safe solution to keep lamps operating during maintenance on other system components. We also recommended and supplied surge suppression components for the 2000 new sets of control gear.



## **BELLERIVE OVAL** **HOBART TAS, AUSTRALIA**

In 2009 Ultra-Tech supplied the control gear for the new lighting system at Bellerive Oval (also known as Blundstone Arena).

Bellerive Oval is now the home of cricket in Tasmania. The first cricket match under lights was held in December 2009 and the venue continues to host international cricket matches under lights.





# OTHER ULTRA-TECH PROJECTS AROUND THE WORLD

## *MINING & GAS PROJECTS (MOBILE LIGHTING TOWERS)*

Ultra-Tech has extensive experience in supplying control equipment for high-power mobile tower lighting. These lighting systems often operate on diesel driven alternators which present a number of their own challenges. Sites are often remote and thermal conditions arduous. Ultra-Tech products and solutions have been used extensively in open cut mining operations and in the construction phases of mine sites and large LNG developments.



## *MARINE & AIRPORT LIGHTING*

We supply control gear and components for airport and marine lighting applications. Products include current to voltage converters and rapid restrike systems for apron lighting.



## *GOLF COURSES & DRIVING RANGES*

Our equipment is used to control and regulate the lighting at numerous golf courses and driving ranges in Australia and around the world.



## *1300 SMILE STADIUM, TOWNSVILLE QLD, AUSTRALIA*

The home of the North Queensland Cowboys - NRL Premiership 2015 winners



For further information about  
your particular requirements,  
please contact us

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## Associations & Accreditations



ISO9001 accredited with SGS since 1994  
Founding Member of Lighting Council Australia  
Member Australian Industry Group (AIG)

Certification with TISI (Thailand)  
Certification with KTL (Korea)  
Certification with CQC (China)