Sundrax Electronics
Company Profile

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5.20

Business, Administrative & Contact Information

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International Company Structure

Management Team

Sales & CRM
Business Development & Marketing

9

Human Relations
Logistics & Supply
Quality Control
Finance & Legal
Warehouse
IT

15

Production & Manufacturing

Software Engineering
Control & Monitoring
Soldering & Assembly
Design & Development

34

Maintenance & Support

16

Total: **74**

Introduction

Sundrax Electronics develops and manufactures innovative software and hardware for street, architectural, and DMX stage lighting control. Lighting control systems have been our main professional field for many years, and from the very beginning when we started as small electronics developer 14 years ago, we have been paying special attention to flexibility of our solutions. Today, Sundrax employs dedicated and talented group of electronics engineers who work with the latest technologies, using cutting-edge tools to create innovative lighting control systems providing seamless integration and highest reliability.

Sundrax's QULON is advanced and reliable smart city IoT platform and intelligent lighting management system, unmatched in terms of scalability and flexibility and supported by a first-class customer service worldwide. Our mission is to design innovative, turn-key, fully integrated solutions diversified to be implemented for any location around the world: Whatever customer requirements are, we are providing reliable and project-oriented products fit for the budget allocated.

Our architectural and street lighting management systems are currently working for 80 million people in the world. 17000 controllers produced up to date control over a million lighting fixtures around the world having saved 650 million of kWh in 2018 only. Hundreds of significant buildings and historical sites are interactively illuminated with our architectural lighting control system MONARQ.

General Business Principles

Project-Oriented Solutions

In Sundrax, we are aiming to working together with you to enhance your lighting infrastructure. We can provide project-oriented solutions adapted for specific project requirements and backed up with know-how and support.

We design our advanced lighting solutions and technology around the needs of the people who experience them.

Sustainability

"Sustainable future" are not just buzzwords for us. Everything we do here at Sundrax Electronics is about promoting and building sustainable cities. Our products were developed and designed with concern for the environment and enhancement of sustainability agenda. We ourselves aim to follow and adhere to good sustainable practice not only to help our clients, but also to act responsibly on behalf of future generations.

Highest Quality

All executives and employees of Sundrax Electronics are making continuous efforts to achieve the very best quality in all our products and services we offer. We relentlessly improve and tighten our methodologies to increase productivity, quality, cost-effectiveness and customer satisfaction at all stages ranging from order receipt, development, production to shipment.

Constant Development

We all have natural curiosity. Ours helps us to keep constant process of investigating, posing questions and coming up with the method. We never stop delving in, that is how we achieve the greatest results in building sustainable future every day. Because we dare.

Our Services and Products:

Smart City IoT Platform / Smart Street Lighting

In 2012 Sundrax introduced a new generation of street lighting management system named QULON tailored for any kinds of lights and budgets so that it fits any lighting infrastructure while providing substantial energy savings and reducing maintenance costs. Beyond fail-proof individual or group remote control of any luminaire type QULON transforms street lighting into the hub of the Internet of Things and Cloud-based services of smart cities seamlessly integrating with heterogeneous networks of smart nodes, sensors and actuators: power, water, and gas meters, traffic and motion sensors, air quality monitors, weather stations, waste management, surface temperature, power generator monitoring and a host of other sensors.

QULON controllers collect electrical data from the meter (current, power factor, cumulative power, active and apparent power, voltages, etc.) and provide individual management for each connected luminaire. Gateways send these data to server and management software through GSM or Ethernet connection (Ethernet option available). Programming is performed remotely from the software and all created lighting behaviour schedules are stored in internal memory so that the lights keep working as scheduled even without internet connection.

QULON provides remote group control and individual control through both standard communication channels:

LiteWide: direct communication from luminaire controller to server through GSM connection

LiTouch: wireless radio channel (868/915 MHz) with base stations

Simpline: powerline control (PLC) with gateways in power cabinets

QULON Software provides real-time control tools, fault notifications and display of the units status and parameters. Software operators create custom energy saving dimming schedules with different priority levels, scheduled by time, astronomical clock or triggered by sensors inputs. QULON stores telemetry data, history of user actions, system performances, status of devices, errors and malfunctions in a single database with multi-level user access. Data exchange with a wide variety of other sensors and IoT platforms through API connectivity gives opportunity to seamlessy integrate QULON into existing smart city infrastructure.

Single IoT Platform: Key to Smart City

Meters: power, water, gas

Weather data

Air quality monitors

Traffic sensors

Road conditions

Waste management

Motion sensors

Electric generator monitoring

Architectural Lighting Controls

Architectural Lighting Control System MONARQ is flexible management system for façade and architectural lighting integrated into QULON street lighting management software providing our clients with an opportunity to have one service company for street and architectural lighting maintenance. Synchronizing every city lighting locations (streets, parks, highways, stadiums, airports, historical buildings, monuments etc.) with architectural lighting, you take advantage of full control over your city lighting and receive diagnostic reports of all your city lighting through the single software. Combine it with an opportunity to measure power consumption from every city lighting point as well as integrated tools to edit, send, and schedule DMX scenarios for decorative illumination, and you receive fully intelligent single software suite for remote lighting management of your city from any device in any place in the world. No doubt, such flexibility perfectly suits the needs of municipalities, city officials and maintenance companies, increases public well-being, and provides aesthetically pleasing atmosphere for the benefit of the local communities.

Stage & Theatre Lighting Controls

As the manufacturer and supplier of top-notch stage lighting control solutions, Sundrax Electronics produce series of DMX/RDM or ArtNet/sACN transceivers, converters and hybrids, transmitting signal wirelessly or via Ethernet and fibre, which are installed in numerous venues and theatres in Europe and Asia. Sundrax was one of the first companies that introduced wireless DMX transceivers working in 2.4 GHz frequency based on our proprietary beDMX® technology. Another part of our product line are ArtGates — series of multifunctional devices for bi-directional DMX512-ArtNet/sACN converting. A paragon of Sundrax's excellence in technology and entertainment culture is ArtJet — smart solution to transmit more DMX universes through single Ethernet LAN 10/100Base-T or fibre 100Base-FX link and especially advantageous for long distance installations incorporating wide range of network protocols for DMX data transmission: ArtNet I,II,III,4, sACN draft/release, KiNet v1,2, RTTrPL.
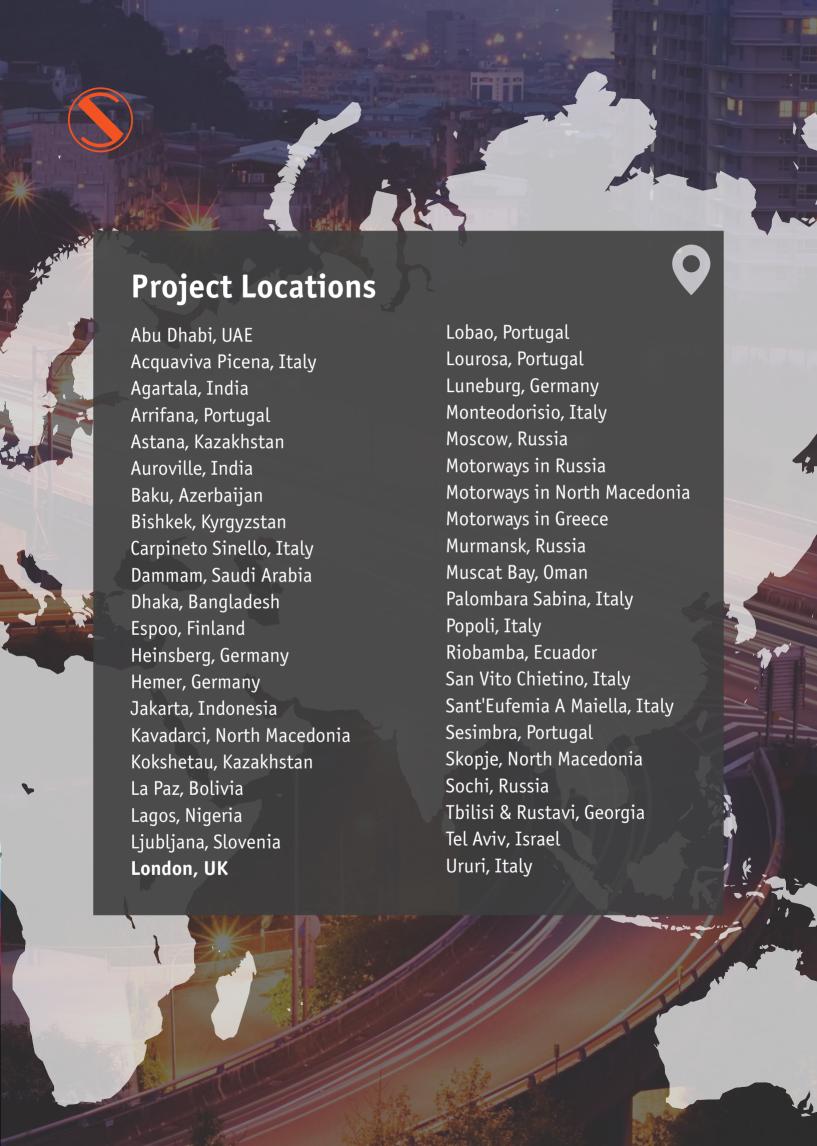
Also worth mentioning are 2016 Sundrax products PixelGates® (series of LED pixel strip controllers to map live effects, still images, and even videos on LED walls) and Compact LEDGates (tiny and stylish DMX-input LED drivers with wireless channel available and 4 outputs).

Sundrax is manufacturer of unique PowerGate devices taking advantage of existing powerline (110/220V) to transmit DMX signal through PWRDMX® technology.

Developed in 2016 and entirely upgraded through 2018 and 2019 is DALI-DMX-ArtNet converter DALIGate with different converting options, auto search andcustom grouping.

Indoor Lighting Controls

Sundrax delivers indoor lighting control solutions for smart energy-efficient management of LED lights with DMX512 or DALI protocols, as well as different kinds of LED strips and LED screens. Ethernet, radio channel or power line used for communication provide powerful and flexible tools to control both complex indoor lighting systems and single luminaire installations. Maximum energy savings are ensured by combination of daylight harvesting adaptive dimming, centralized management system, custom scheduling with incorporated sensors and video cameras. Operators from any connected laptops, smartphones or tablets access profiling of any lighting installations within Ethernet or WiFi networks. Our approach ensures maximum energy savings but also brings to life any ideas of lighting designers in shopping malls, retail spaces, corporate offices, distribution centers etc.

Project Locations

Abu Dhabi, UAE
Acquaviva Picena, Italy
Agartala, India
Arrifana, Portugal
Astana, Kazakhstan
Auroville, India
Baku, Azerbaijan
Bishkek, Kyrgyzstan
Carpineto Sinello, Italy
Dammam, Saudi Arabia
Dhaka, Bangladesh
Espoo, Finland
Heinsberg, Germany
Hemer, Germany
Jakarta, Indonesia
Kavadarci, North Macedonia
Kokshetau, Kazakhstan
La Paz, Bolivia
Lagos, Nigeria
Ljubljana, Slovenia
London, UK

Lobao, Portugal
Lourosa, Portugal
Luneburg, Germany
Monteodorisio, Italy
Moscow, Russia
Motorways in Russia
Motorways in North Macedonia
Motorways in Greece
Murmansk, Russia
Muscat Bay, Oman
Palombara Sabina, Italy
Popoli, Italy
Riobamba, Ecuador
San Vito Chietino, Italy
Sant'Eufemia A Maiella, Italy
Sesimbra, Portugal
Skopje, North Macedonia
Sochi, Russia
Tbilisi & Rustavi, Georgia
Tel Aviv, Israel
Ururi, Italy

Major Street Lighting Projects

Project: Jakarta, Indonesia

Installed: 65x Gateways and 3750x PLC control nodes at 4000 LED lighting poles in the centre of Jakarta

Project: London, UK

Installed: Remote architectural lighting control of Marble Arch, Oxford Street, London

Project: Agartala, India

Installed: Group control for over 30,000 new LED luminaires

Project: Riobamba, Ecuador

Installed: Individual GSM control through QULON LiteWide for 5,500 street luminaires in Ecuadorian city

Project: Comunes in Italy

Installed: 83x Gateways providing remote group control and monitoring for street lighting around 8 comunes in Abruzzo and Lazio regions in Italy

Project: Dhaka, Bangladesh

Installed: Individual RF control for 3,500 LED luminaires through a network of LiTouch Base Stations Mini

Project: Lagos, Nigeria

Installed: Powerline Control for 22,500 luminaire sections in Lagos

Project: Federal Motorways, Russia

Installed: Controlling over 8,000 kilometres of federal motorways neighbouring Moscow with a single street lighting CMS

Project: Moscow, Russia

Installed: Single system of remote control for all architectural lighting in the main streets of Moscow

Project: North Macedonia

Installed: Group Dimming solution, tunnel lighting control, and QULON Software Suite for lighting control at 40+ highway intersections