SHUFFLE

SOS • Campus • Security • Light • Mobility

SHUFFLE

Choose your **ideal** SHUFFLE
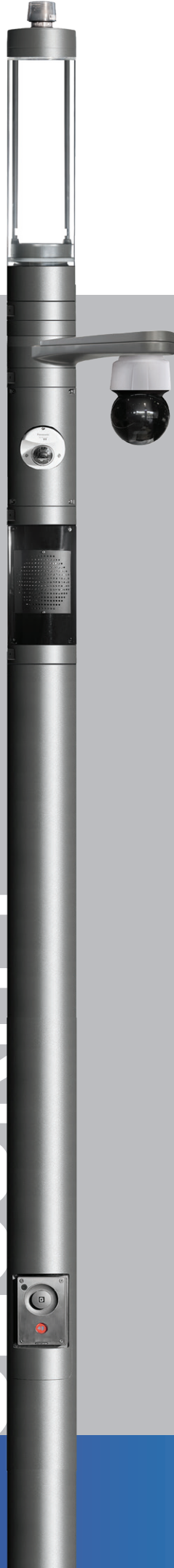
SOS

CAMPUS

SECURITY

LIGHT

MOBILITY

SHUFFLE SOS

The city's
guardian angel

What creates a feeling of security in a city? How can a lighting point reassure people? How can it ease emergency interventions? How can it prevent hazardous situations turning into disasters? How can infrastructure protect people and save lives?

SHUFFLE SOS offers the perfect solution to these requests.

This preconfigured version of the smart multi-functional SHUFFLE column is designed **to help people and emergency services in critical situations**.

With one simple push of a button, citizens can quickly get in touch with emergency services if they witness an incident or are a victim of an accident.

With a voice-over IP intercom, people can explain the problem and **receive proper assistance**. The embedded cameras enable call centres to take the right actions thanks to a real-time video feed.
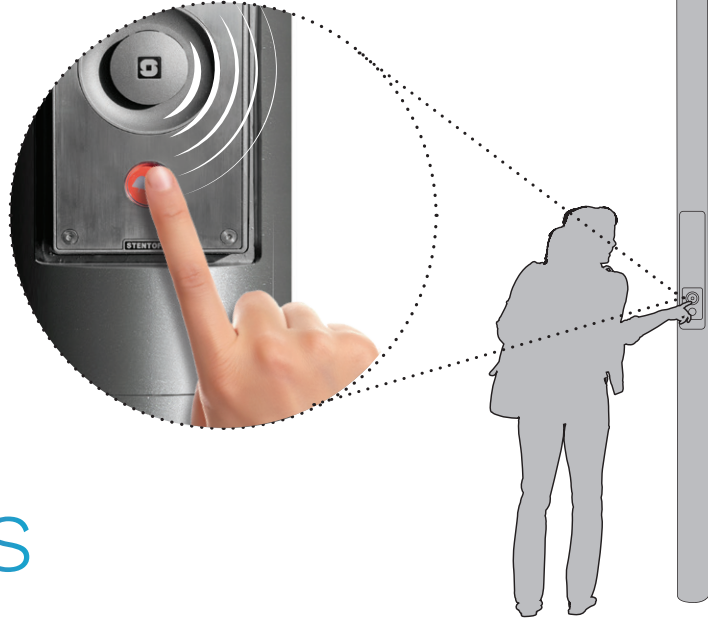
The strobe light and horn, that can be triggered remotely, make sure that the emergency signal is seen and heard by bystanders in the area. They also **guide the emergency crew** to the exact location of the incident.

With SHUFFLE SOS, people never feel alone in a city. They receive the support they expect in the shortest possible time.
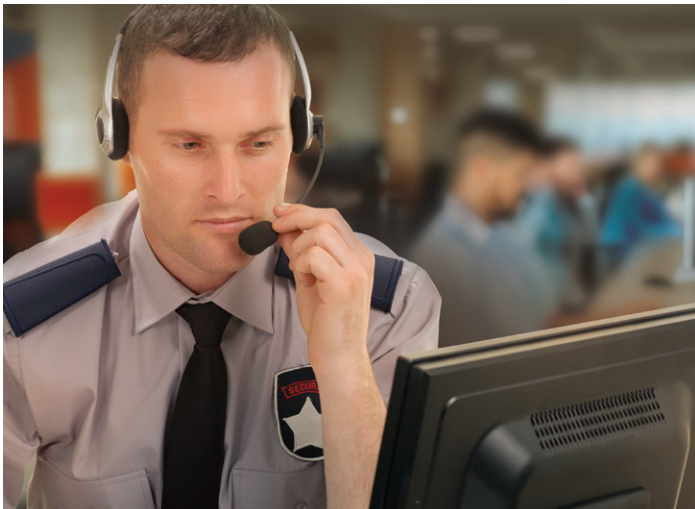
Emergency services are able to react accordingly and cover a larger zone, optimising their resources.

SHUFFLE SOS,
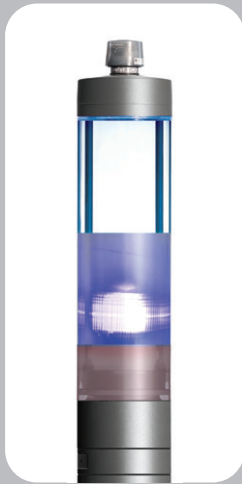the smart integrated
solution for
safer cities

Key benefits

For citizens

- **Reinforced sense of security**

- **Direct contact with city services**

- **Proper and quick support in critical situations**

For cities

- **Robust, integrated and aesthetical solution**

- **A clever and cost-effective way to leverage lighting infrastructure**

- **Remote control on local incidents**

- **Optimises on-site interventions by emergency services**

360° lighting with strobe (and IoT readiness)

- Street lighting / Ambiance lighting (optional back light control)
- Warm or neutral white LEDs
- Diffuse protector available as an option for enhanced visual comfort
- Strobe providing vital visual aid for emergencies
- Strobe can be triggered remotely or locally
- NEMA socket for smart city IoT controller

Emergency horn

- Warn or alert the nearby population
- Supports voice-over IP
- Can be triggered remotely
- Can be integrated into a global warning system

Intercom

- Unparalleled audio quality with optional video
- Vandal resistant SIP and IP intercom embedded in the column
- Background active noise cancellation
- Automatic volume adjustment

QuadView

- Seamless integration in the SHUFFLE column
- 360° view
- Vandal-proof design to protect the hardware
- Easy installation with patented mounting system
- Compatible with the Genetec video management system (ONVIF communication standard)

180° camera

- Professional CCTV camera
- Optimised against fogging
- Full HD resolution
- Image optimisation (back-light, contrasts, night vision, high luminosity)
- Compatible with the Genetec video management system (ONVIF communication standard)

Light ring

- Signage and visual help
- Red LEDs
- Low power consumption

SHUFFLE SOS

3 use cases

A **scalable** solution

The SHUFFLE SOS range includes 3 variants to cover the needs of various areas.

BASIC

CORE

ACTIVE

How can SHUFFLE SOS (Basic) help older people find help?

In a large campus for older people with large outdoor spaces, SHUFFLE SOS can be placed in strategic areas to provide light and assistance when required.

If the residents find it difficult to walk back to the building by themselves or encounter a sudden medical issue, they can press the button to contact the staff and request assistance.

The strobe light flashes to guide the rescue team to the resident.

How can
SHUFFLE SOS (Core)
help parents find lost children in an amusement park?

It's a parent's worst nightmare: while spending a fun family day at an amusement park, they suddenly lose sight of their child.

With SHUFFLE SOS, they can instantly report the disappearance to the security services of the park and describe their child (how she/he is dressed, how old she/he is…) to enable them to find her/him on the real-time video images.

The strobe can guide the child to a rescue location.

How can
SHUFFLE SOS (Active)
contribute to the regeneration of a district?

When a city invests in regenerating a district, it knows that safety is a main concern for citizens if this area had a poor reputation.

SHUFFLE SOS reassures residents and visitors as they can immediately get in touch and receive the right assistance in case of trouble (attack, theft…) by pressing the intercom button.

The emergency services receive a real-time video feed of the surroundings to monitor the situation and coordinate assistance.

They can trigger the strobe and the siren to frighten the agressor.

SHUFFLE CAMPUS

Creating places
people love to be in

What makes a place great? What kinds of services please workers and attract visitors? How can you leverage your infrastructure to create value beyond lighting? Why could it help you to meet your social and business goals?

SHUFFLE Campus is the right tool for ambitious companies, institutions, public services and cities wanting to offer **a high-quality experience** to their workers, customers, residents, citizens or visitors.
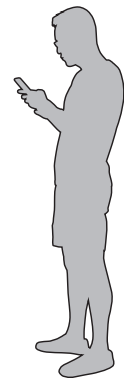
SHUFFLE Campus is a connected, modular approach to outdoor hardware with plug-and-play rotatable modules that contain pre-certified hardware.

This preconfigured version of the smart multi-functional SHUFFLE column is designed to provide multiple services, aesthetically and efficiently, to **business facilities, condominiums, academic, medical or sport complexes, parks, shopping malls or transport infrastructures** such as airports, train or bus stations. SHUFFLE Campus creates **safe, pleasant places**, **connect people** to the internet, inform and entertain them, while keeping an elegant and discreet presence that blends into any environment.

With SHUFFLE Campus, people can extend their work, play and leisure space to outdoor areas. SHUFFLE Campus is **a great asset for placemaking** as it strengthens the connection between people and the urban environment with a minimal footprint. People are encouraged to spend more time outdoors, to socialise, to contribute to the local economy and to develop a true sense of community.

The smart integrated solution for
modern and attractive complexes

Key benefits

For end-users

- Reinforced sense of safety

- Free public internet connection

- Information and entertainment

- Elegant open spaces thanks to integrated design

- Pleasant areas with attractive services and right lighting atmosphere

For managers

- Robust, integrated and aesthetic solution

- A clever, cost-effective way to leverage lighting infrastructure

- Data collection and analytics

- Security with CCTV algorithms

- Tool to inform, help and guide people

Free WiFi

360° lighting with WLAN (and IoT readiness)

- Street lighting / Ambiance lighting (optional back light control)
- Warm or neutral white LEDs
- Optional diffuse protector for enhanced visual comfort
- WLAN for professional and secure Wi-Fi network
- 2 versions: mesh network or wired network
- Dividable bandwidth, e.g. to assign a dedicated part to city operators and a restricted bandwidth for the general public
- NEMA socket for smart city IoT controller

Loudspeaker

- 100V public address system
- Frequency range: 100 - 18,000Hz
- Perfect sound - 20W power output
- Weatherproof / adapted to indoor and outdoor applications

QuadView

- Seamless integration in the SHUFFLE column
- 360° view
- Vandal-proof design to protect the hardware
- Easy installation with patented mounting system
- Compatible with the Genetec video management system (ONVIF communication standard)

PIR sensor

- Motion detection in the surrounding perimeter
- Can trigger light-on-demand scenarios to provide the right light any time

Power socket

- Schuko Type F power socket
- Supply power for any need

Light ring

- Signage and visual guidance
- Red, blue, green or white LEDs
- Low power consumption

SHUFFLE CAMPUS

3 use cases

A **scalable** solution

The SHUFFLE Campus range includes 3 variants to cover the needs of various areas.

BASIC

CORE

ACTIVE

How can SHUFFLE Campus (Basic) extend university facilities for students?

Connectivity is a vital part of everyday life, especially for students. With SHUFFLE Campus, the wireless network is expanded to outdoor areas where they gather to socialise, collaborate and exchange.

Thanks to a broadband connection, they can access all online courses and other digital platforms in areas equipped with outdoor furniture. SHUFFLE Campus also provides the right lighting level at any time thanks to responsive light-on-demand scenarios triggered by integrated sensors.

How can
SHUFFLE Campus (Core)
create a connected vibrant experience for shoppers?

The shopping mall provides free wireless internet access to shoppers and then use this as a channel to tailor communication and promotion, along with audio messages broadcasted by the public address loudspeaker.

Shopping mall managers gain granular, in-depth understanding of the shopping and buying patterns of visitors, as they can pinpoint where customers are at any given time, which stores they visit and which they bypass. Then they can better define development and commercial strategies.
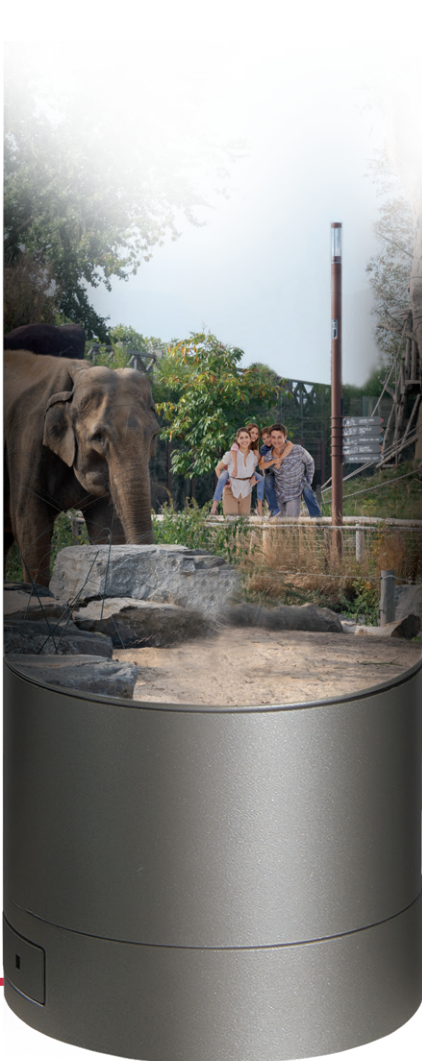
How can
SHUFFLE Campus (Active)
contribute to a memorable visit to the zoo?

Whenever visitors approach an animal area in a zoo, a SHUFFLE Campus detects motion, triggers an explanation message about those species, and encourages the visitors to use the zoo's progressive web app for an interactive journey with augmented reality and further fascinating experiences.

Using free internet connection provided by the zoo, visitors are taken into an online game that contributes to an unforgettable experience. The SHUFFLE Campus coloured light rings guide them on a logical tour through the zoo.

With SHUFFLE Campus, zoo managers get heat maps for valuable insights about the most visited attractions. They can measure the return on investment and impact on every decision they make. As SHUFFLE Campus (Active) is equipped with a power socket, they can, for instance, move their mobile ice cream shop to the best spot and plug its freezer into the closest SHUFFLE.

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SHUFFLE SECURITY

Building confidence in **outdoor areas**

How can city services or security companies leverage outdoor lighting to improve the feeling of safety for people? How can a lighting point make people more confident in outdoor areas? How can it connect them instantly to security staff or city services? How can it prevent hazardous situations turning into disasters? How can infrastructure protect people and institutions in their daily activities?

Feeling secure is a basic human right. Your residents and visitors want to feel safe at all times. SHUFFLE Security delivers a strategic breakthrough to address these challenges with **advanced lighting and security features**.

SHUFFLE Security is a connected, modular approach to outdoor hardware with plug-and-play rotatable modules that contain pre-certified hardware.
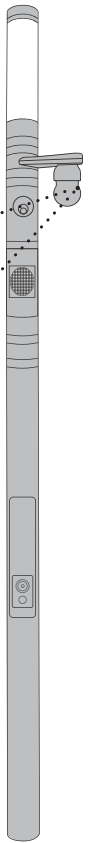
This preconfigured version of the smart multi-functional SHUFFLE column is designed to **create safe and pleasant outdoor areas**. Its aesthetic design and efficiency are ideal for places where security is essential: tourist sites, parks and squares, outdoor spaces around public and private buildings (embassies, ministry buildings, banks, hospitals, schools...), metro, bus or train stations, car parks and sports or leisure venues.

SHUFFLE Security provides a monitoring system that enables bidirectional communication: from authorities to citizens or security companies to people in the environment, and in the opposite way around, from end-users to public/property managers.
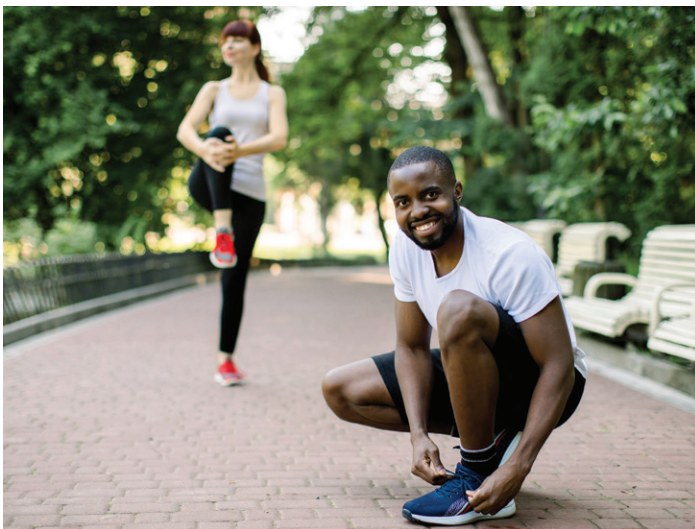
SHUFFLE Security is **a great asset for placemaking** as it improves confidence in using outdoor environments. It encourages people to socialise, to contribute to the local economy and to develop a true sense of community.

The smart integrated solution to protect
people
and places

Key benefits

For end-users

- Reinforced sense of safety

- Direct contact with city services or security companies

- Elegant open spaces thanks to integrated design

For cities/managers

- Robust, integrated and aesthetic solution

- A clever, cost-effective way to leverage lighting infrastructure

- Data collection and analytics

- Security with CCTV algorithms

- Complete solution protecting people and venues

360° lighting
(and IoT readiness)

- Street lighting / Ambiance lighting (optional back light control)
- Warm or neutral white LEDs
- Optional diffuse protector for enhanced visual comfort
- NEMA socket for smart city IoT controller

Loudspeaker

- 100V public address system
- Frequency range: 100 - 18,000Hz
- Perfect sound - 20W power output
- Weatherproof / adapted to indoor and outdoor applications

Intercom

- Unparalleled audio quality with optional video
- Vandal resistant SIP and IP intercom embedded in the column
- Background active noise cancellation
- Automatic volume adjustment

QuadView

- Seamless integration in the SHUFFLE column
- 360° view
- Vandal-proof design to protect the hardware
- Easy installation with patented mounting system
- Compatible with the Genetec video management system (ONVIF communication standard)

180° camera

- Professional CCTV camera
- Optimised against fogging
- Full HD resolution
- Image optimisation (back-light, contrasts, night vision, high luminosity)
- Compatible with the Genetec video management system (ONVIF communication standard)

Camera bracket

- Robust design with high-quality finish
- Easy installation with patented mounting system
- Compatible with a wide range of PTZ cameras

SHUFFLE SECURITY

3 use cases

A **scalable** solution

The SHUFFLE Security range includes 3 variants to cover the needs of various areas.

BASIC

CORE

ACTIVE

How can SHUFFLE Security (Basic) manage automatic access to secure car parks?

Managing car parks is a major challenge in busy cities where every square metre is precious.

With SHUFFLE Security, local councils or private companies can automate access to car parks for motorists who have subscribed to their service. The cameras at the entrance of the car park can read license plates and trigger the gate to open.

The data collected at the entrance and exit of the car park enables billing management. They can feed real-time applications to inform motorists about tavailable car park spaces.

How can
SHUFFLE Security (Core)
detect dangerous behaviour and protect people?

SHUFFLE Security enables customised detection features to be set-up according to different parameters such as the defined area, the intrusion direction and the classification of users.

It can, for instance, detect people crossing a railway track or a tram line. SHUFFLE Security can broadcast a warning message through the loudspeaker in order to avoid incidents.

Urban planning decisions may be taken based on data collected from citizen behaviour on the field.

How can
SHUFFLE Security (Active)
protect restricted-access areas?

Private or restricted-access areas need protection against intruders, especially at night. SHUFFLE Security cameras can identify movement in a place and at a time when no-one should be there. The connected lights switch on to light the area entirely.

Smart surveillance cameras automatically turn to follow and film the intruder. The intruder receives an automatic warning "you have been detected, please leave this protected area".

An alert is sent to the security services with all the relevant information and a real-time video feed so they can respond appropriately.

In addition to the automated detection features, the integrated intercom enables people to contact security services in case of an incident.

SHUFFLE LIGHT

For endless
challenges

How do you redesign your urban spaces with elegance? How could a modular system declutter and free-up space in city centres? How could simplicity and integration improve urban planning and create places people love to spend time in? Why is being Futureproof important?

SHUFFLE Light is a connected, modular approach to outdoor hardware with plug-and-play rotatable modules that contain pre-certified hardware.
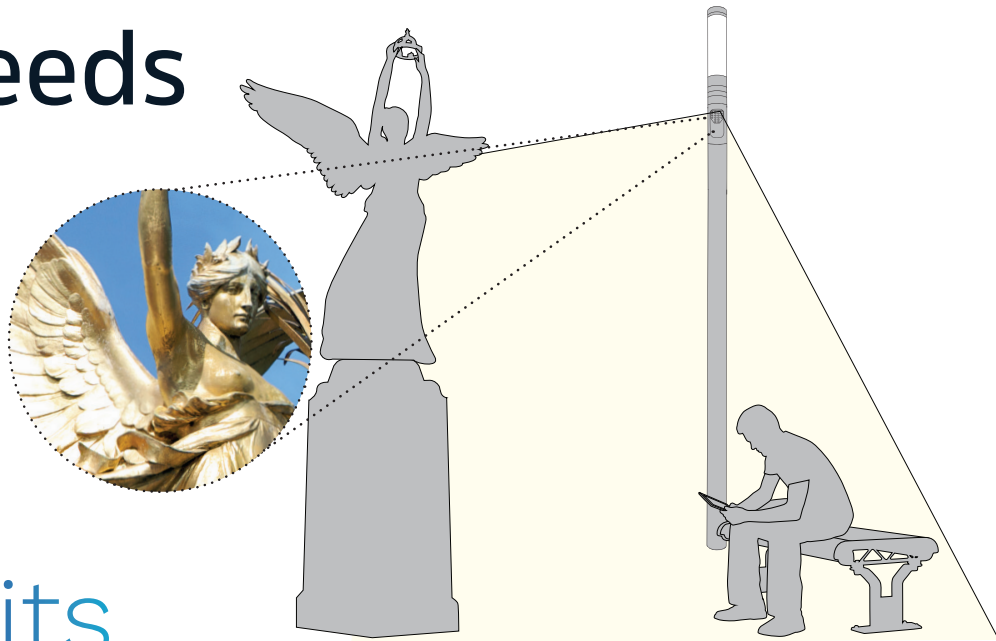
This preconfigured version of the smart multi-functional SHUFFLE column is designed to **meet the various lighting needs of an area with elegance and high energy efficiency**. Its aesthetic design integrates various lighting modules (360°, spot and light ring) with smart control features for dimming and light-on-demand scenarios. The SHUFFLE Light smart column can be installed in any place where its versatility, connectivity and simplicity create additional value beyond basic lighting.

Designed to light roads, streets, squares and other places where creating a pleasant atmosphere is a key element, SHUFFLE Light benefits from a wide range of photometries and provides aesthetic consistency for various urban environments. It offers the perfect tool for placemaking as it frees up space that can be then used to enhance the urban experience and promote people's health, happiness and well-being.

As nothing is cast in concrete, SHUFFLE Light is designed as a futureproof system. Modules can be upgraded, changed or added to meet the ever-changing needs of a place. It enables municipalities to start their smart city journey and evolve.

The smart integrated solution to meet **all lighting needs**
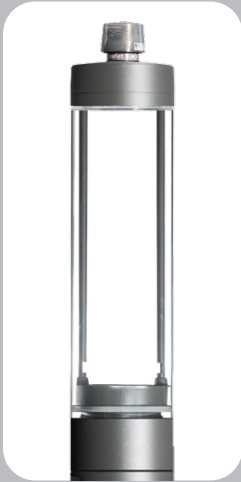
Key benefits

For citizens

- **Pleasant urban spaces with discreet and well integrated lighting infrastructure**

- **Light-on-demand features: safe and comfortable lighting when needed**

- **Visual identity to differentiate places and remember them (coloured light ring)**

For cities/managers

- **Robust, integrated and aesthetic solution**

- **A clever, cost-effective way to maximise lighting infrastructure**

- **State-of-the-art technology for maximised energy efficiency and cost savings**

- **Urban, road and architectural lighting united in a single column (urban decluttering and more aesthetic spaces)**

- **IoT connectivity for Smart City**

**360° lighting
(and IoT readiness)**

- Street lighting / Ambiance lighting (optional back light control)
- Warm or neutral white LEDs
- Optional diffuse protector for enhanced visual comfort
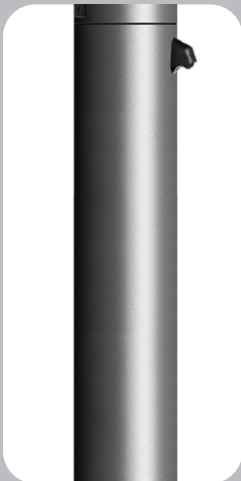- NEMA socket for smart city IoT controller

Light ring

- Signage and visual guidance
- Red, blue, green or white LEDs
- Low power consumption

180 light - Spot

- Up/Down architectural lighting (on-site adjustment)
- Lumen package range: 1,300 to 2,400lm
- On-site inclination angle settings: -10/+40°
- Neutral or warm white LEDs

PIR sensor

- Motion detection in the surrounding perimeter
- Can trigger light-on-demand scenarios to provide the right light any time

SHUFFLE LIGHT
3 use cases

A **scalable** solution

The SHUFFLE Light range includes 3 variants to cover the needs of various areas.

BASIC

CORE

ACTIVE

How can SHUFFLE Light encourage outdoor activities?

In a park or on a promenade after work, people like to go for a walk or practice a sport. Lighting plays a vital role in their experience as it enables them to stroll or work out in confidence, comfort and safety. People feel free, and even encouraged, to make the most of green spaces and promenades if they can do so in the right conditions.

However, changes in the level of activity in these spaces sometimes means that lighting at full power is a waste of energy. Why light an environment if no-one is using it? **SHUFFLE Light integrates intelligent drivers, a control system and infrared sensors (PIR) to create light-on-demand scenarios.** Most of the time, the light is dimmed to a security level. It is only when people are detected that the light goes up and guides them in their evening activities. Joggers, walkers and cyclists enjoy these safe and comfortable environments.

How can
SHUFFLE Light
celebrate art and heritage?

Cities are full of architectural details, monuments, statues and pieces of art that deserve to be highlighted with the perfect lighting solution. Although, expertise in photometry plays a key role in achieving a good result, the challenge can be elsewhere. Where can the floodlights be installed? Is power available? How can the cabling be hidden? How can the system be protected from vandalism?

With its integrated spotlight and its high impact resistance, SHUFFLE Light provides the perfect solution to all of these challenges. With its elegant yet robust design, **this smart column is able to cover all the lighting needs of an area, including architectural lighting.** SHUFFLE Light is ideal for lighting streets and squares and at the same time illuminating the jewels of the city.

How can
SHUFFLE Light
contribute to creating iconic places and help people find their way?

Places can have their own unique identity too. Planners, architects and designers should use light to differentiate city centres, squares, parks and other typical urban landscapes and to make them instantly recognisable. SHUFFLE Light includes **a coloured light ring that can contribute to creating iconic places**.

Available in red, green, blue or white, this light ring distinguishes, signs and guides people. It offers an unmissable landmark that helps people to move around the city.

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SHUFFLE MOBILITY

On the move in a
zero-emission world

What if a streetlight could charge electric vehicles? How could a smart column bring an answer to the increasing need for public charging infrastructure and support electric vehicle growth? How can a lighting-based system load the battery of your company car during your working hours at the office?

According to Deloitte, the global EV forecast will reach an annual growth rate of 29 per cent achieved over the next ten years with total EV sales growing from 2.5 million vehicles in 2020 to 11.2 million vehicles in 2025, then reaching 31.1 million by 2030.

Despite this growth, **mainstream adoption of EVs in Europe is still hindered by an insufficient charging infrastructure** in most of the regions.

SHUFFLE Mobility is a connected, modular approach to outdoor hardware with plug-and-play rotatable modules that contain pre-certified hardware.

This preconfigured version of the smart multi-functional SHUFFLE column is designed to **charge electric vehicles and protect them from vandals**. Its aesthetic design integrates an electric car/vehicle (EV) charging unit. The SHUFFLE Mobility smart column can be installed in streets where it is difficult to establish infrastructure for electric vehicle charging.

SHUFFLE Mobility does not only provide a charging solution for electric vehicles, it ensures **an outstanding experience for EV drivers** by helping them to find vacant chargers, by ensuring a high security level for them and their car and by offering the best lighting solution at night.

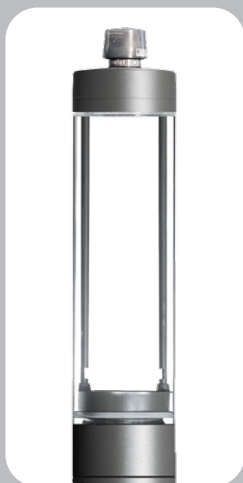# The smart integrated solution to promote **the use of electric vehicles**

Key benefits

For EV drivers

- Fast charge any time in any kind of car park

- Adapted to all electrical vehicles (Type 2 socket)

- Safety with locking system during charging

For cities/managers

- Robust, integrated and aesthetic solution

- A clever, cost-effective way to leverage lighting infrastructure

- The right tool to promote low-emission zones (LEZ)

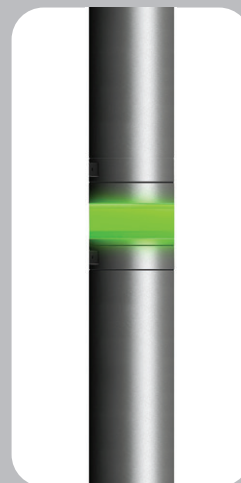- Reduction of noise and pollution in the city

**360° lighting
(and IoT readiness)**

- Street lighting / Ambiance lighting (optional back light control)
- Warm or neutral white LEDs
- Optional diffuse protector for enhanced visual comfort
- NEMA socket for smart city IoT controller

EV charger

- Professional charging station
- AC charging 11kW
- European socket (type 2)
- Safety locking during charging
- Access unit (for cabinet mounting)

Light ring

- Visual guidance
- Low power consumption
- Colour signaling: green – not in use, blue – in use

180 light - Spot

- Up/Down architectural lighting (on-site adjustment)
- Lumen package range: 1,300 to 2,400lm
- On-site inclination angle settings: -10/+40°
- Neutral or warm white LEDs

180° camera

- Professional CCTV camera
- Optimised against fogging
- Full HD resolution
- Image optimisation (back-light, contrasts, night vision, high luminosity)
- Compatible with the Genetec video management system (ONVIF communication standard)

SHUFFLE MOBILITY

3 use cases

A **scalable** solution

The SHUFFLE Mobility range includes 3 variants to cover the needs of various areas.

BASIC

CORE

ACTIVE

How can SHUFFLE Mobility (Basic) attract more customers to a shopping mall?

Shopping malls are ideal locations for electric vehicle charging. EV drivers are premium customers who want to **use the charging time productively and gladly spend it shopping** at the stores of the mall.

With SHUFFLE Mobility, private companies can increase their revenue by attracting high-profile shoppers and show their commitment to a more sustainable world.

With the light ring switching from blue (in use) to green (free), EV drivers can easily spot an opportunity to charge their electrical vehicle when looking for a place in the car park.

How can
SHUFFLE Mobility (Core)
contribute to the sustainable policy of your company?

Tax exemption and other incentives are commonly used by authorities to promote EV's. But private companies also show willingness to promote low-emission vehicles to their employees. For many reasons: to align their fleet to their sustainable policy, to decrease the budget spent on fuel or to avoid low-emission zone charges.

SHUFFLE Mobility offers the perfect tool to light the company car park and to offer **fast charging stations to employees during their working hours**.

How can
SHUFFLE Mobility (Active)
contribute to low-emission zones within cities?

Cities and governments have been adopting low-emission zone (LEZ) programs as a measure to reduce ambient exposures to air pollution, to meet the EU air quality standards.

Electric vehicles are free to move in these zones where shops, restaurants and bars are numerous. EV drivers can use an app to check all public parking spots available downtown and see where they can charge their electrical vehicle.

SHUFFLE Mobility can light these streets, secure them with its integrated camera and provide charging stations for EV drivers. The use of non-instrusive smart columns preserves the beauty of the city and declutters its streets.

BEKA Schréder

Experts in lightability™