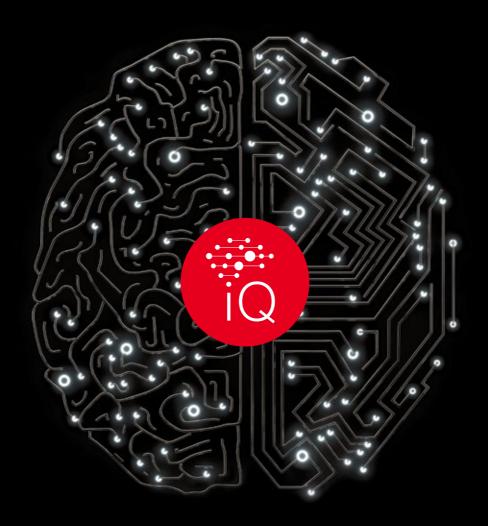
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SITECO IQ

Handbook Version 1.0, 03.2022

Contents

_	rato maton
3	Desk-Remote
4	Street-Remote
6	Smart-Wire
9	Night-Set
13	Lumen-Switch
14	Light-Fading
15	Smart Interface
16	Light-Switch
17	Color-Switch
18	CLO 2.0
19	Surge-Protection
20	Temp-Guard
21	Fuse-Plus
22	DALI 2 and SDI
23	Password protection and security
0.4	

Thank you for choosing SITECO iQ luminaires. SITECO iQ luminaires feature an even greater selection of lighting-control options and even easier operation. These future-oriented, sustainable products will not only prepare you to fulfill the many requirements of today, they will equip you to meet the challenges of tomorrow.

This handbook will familiarize you with the many functions this cutting-edge technology offers.



Auto-Match

Exchange components, update components

SITECO Auto-Match makes everything about this easy. Because the information and values needed are available over a nervous system in both the ECG and the LED board and the components communicate with each other.

As soon as a new element is added to the luminaire, it automatically receives all the settings and information from the system and begins its initial training autonomously. Gone are the days when someone has to painstakingly read out operating hours and dimming settings and manually transfer them. This saves a lot of time and effort both on-site and in the organization because no one has to look up configuration information for an old luminaire anymore.

Auto-Match secures and transfers, for example:

- Master data such as the luminaire designation, the order number, the Lumident serial number, and the light distribution and color.
- Settings or configuration data for example all iQ functions including the adjusted Lumen-Switch, Night-Set, Fading and Smart-Wire.
- Measurement data such as operating hours and the historical operating conditions, including previous switch-on cycles and the LED board's temperature history – particularly important for luminaires with SITECO CLO 2.0 and higher.



Note: iQ luminaires may only be operated in conjunction with suitable SITECO LED modules designed for this purpose. For iQ luminaires with more than one LED module, the LED modules must be replaced together if necessary.

Use of LED modules from different generations within one luminaire is not permitted.

When changing the LED board – for example, to a new, more efficient LED board – the new LED board will also autonomously adjust the existing iQ ECG to the required values.

If both devices need to be replaced at the same time – that is, the iQ ECG and iQ LED board due to, for instance, lightning damage – the original settings can be accessed and adjusted using the iQ_{Ann} .



Desk-Remote

Adjusting the luminaire in the workshop

You'll make faster progress if you adjust luminaires in the workshop before installing them: Thanks to the convenient SITECO Desk-Remote function, you don't have to remove the luminaire from its packaging - let alone open it - to transfer all parameters securely and without the need for an electrical connection. Desk-Remote with improved near-field communication (NFC) and our iQ_{Ann} make this possible.

A great advantage of Desk-Remote is the long range of the radio signal. iQ luminaires can be checked and adjusted without opening the luminaire or the shipping box. This saves a lot of time. Desk-Remote also makes it possible to work without a cable and without the need for an electrical connection. Besides not needing to be connected to electricity, the luminaire also doesn't require connection to DALIcables, which saves even more time.

The following is needed to use Desk-Remote:

- · A SITECO iQ luminaire.
- The iQ_{Ann} 3.1 or higher with user account and access data.
- · A SITECO iQ handheld device or
- A smartphone with Android or iOS operating system and the SITECO mobile RFID interface; conventional NFC transmitters are not compatible due to SITECO Desk-Remote's greater range.

The SITECO mobile RFID interface or the SITECO iQ handheld device must be held within at least 30 centimeters of the luminaire glass or placed on the symbol shown on the right-hand side of the box. The iQ_{Aoo} displays all iQluminaires in the near vicinity along with the luminaire identification number. If several luminaires are in the vicinity, the technician simply selects one of the displayed luminaires. The iQ_{App} documentation provides more detail about the procedure for checking and adjusting luminaires.



Several security measures have been implemented for Desk-Remote

- Checking iQ luminaires and making changes are only possible using the iQ_{hon}
- Different roles can be assigned to users with the possibility of restricting authorization to individual installations (luminaire groups) as well as the range of functionality.
- · Access is only possible in the immediate vicinity (30 centimeters) of the luminaire.
- A specific transmitter is required (the SITECO mobile RFID interface).



Street-Remote

Adjusting the luminaire from the sidewalk

Spending huge amounts of time adjusting or checking streetlights is a thing of the past: Thanks to SITECO Street-Remote, no tools and cable connection are needed as all parameters are easily and quickly transmitted over a stable Bluetooth connection from the pavement. Road closures, the need to use cherry pickers and the risk of having to remove parked vehicles all vanish. This means adjustments – for example, to accommodate events or at the request of residents – can be made quickly and easily.

To implement settings over Bluetooth, simply

- Use the iQ_{App} 3.1 and higher on a smartphone (with Bluetooth 4.0 or higher) or, alternatively, the SITECO iQ handheld device.
- Switch on SITECO iQ light (230-volt power supply) with Bluetooth function.
 Note: To check which SITECO luminaires have Bluetooth, use the iQ_{App} to scan the Lumldent QR code on the box or in the installation space of the luminaire. For this purpose, it's a good idea to adhere one of the Lumldent QR codes inside the mast door.

It is both important and a precondition for Street-Remote that the luminaires have power. If necessary, briefly switch the luminaire's fuse off and then on again. For safety reasons, the Bluetooth function only remains on for a certain time after the power is switched on (time can be set in the iQ_{Ann}).

The iQ_{App} 3.1 and higher can then be used to check and adjust the luminaire. Select the luminaire you want to check or adjust. Lumldent recognizes all luminaires with Street-Remote switched on within a distance of 20 meters. The list of all Bluetooth luminaires within this range is displayed along with the luminaire identification number. To check that the correct luminaire has been selected, click on the luminaire and the LED module will flash. This function makes it easier to select the right luminaire and to work with larger luminaire inventories.

The iQ_{App} can subsequently be used to check the luminaire's current settings and such data as operating hours and temperatures, view any error messages, and change all adjustable iQ functions. In addition, the luminaire can also be reset to the original configuration it had at the time of delivery.



Important: To check and adjust the luminaire using the IQ_{App}, the smartphone's Bluetooth function also has to be activated. Any changes made to the settings become active after the luminaire is restarted (power ON).

Several security measures have been implemented for checking and adjusting iQ luminaires using Street-Remote

- Checking iQ luminaires and making changes are only possible using the iQ_{Ann}
- Different roles can be assigned to users with the possibility of restricting authorization to individual installations (luminaire groups) as well as the range of functionality.
- · Access is only possible in the immediate vicinity (about 20 meters) of the luminaire.
- The length of time the Bluetooth function remains on (that is, the duration after each time the
 luminaire is switched on). After switching on the light (either power on or light on over DALI or D4i),
 the luminaire's Bluetooth function will then only remain active for the chosen period of time and will
 subsequently switch off automatically. The duration can be adjusted using the iQ_{Ann}.
- The factory default setting is for the Bluetooth function to remain on one hour after the luminaire is switched on. If required, this time can be adjusted to a value of between 5 minutes and permanently on.
- The radio link between iQ_{Ann} and the luminaire is encrypted using AES-128.



Smart-Wire

Nighttime reduction over control wire has many uses

SITECO Smart-Wire brings intelligence to existing control wires and provides an easy means for obtaining control options. When, for example, control wires become accessible in the current distribution board during a conversion to LED. Even the range of control options for existing wires expands significantly. Smart-Wire enables preset dimming values and dimming profiles to be activated, making it very easy to switch between, for example, standard situations and a setting for the weekend, for emergencies, or for an event.

SITECO's Smart-Wire expands the familiar control wire by offering additional control options. The control wire – that is, an additional cable – is connected to the luminaire's terminal block at the connection marked LST or SM. (Important note: Do not bridge SDI/DALI with the control wire due to the lower electric strength!) When ordering iQ luminaires with a preassembled cable, the control wire is identified with a cable label.

The control impulse to the ECG is initiated by switching on or off a supply voltage (230 volts) on this phase. The luminaire then switches between two light settings when the control wire is switched on or off. The iQ luminaire's behavior when the voltage on the control wire is switched on or off can be altered with the iQ_{ADD} (version 3.1 and higher).

SITECO's Smart-Wire features a wide range of applications, so it can be used in many different ways:

1. Standard control (2-stage)

Use the control wire to switch between two dimming levels – for example, 100% and 50%: Smart-Wire expands this functionality to provide the option of changing the light color and light distribution in addition to the dimming level (if the LED board supports this function). This means that for each of the two light settings, a dimming level, a fading time, a light color and a light distribution can be selected. The light setting remains active as long as the control wire's voltage state (for example, 0V/230V) continues.

The default settings for this are implemented using the iQ_{ADD}.

2. In combination with Night-Set

Smart-Wire also makes it possible to shift between two Night-Set profiles – that is, to switch back and forth.

Night-Set This enables, for example, shifting between a weekday and a weekend profile or a standard and an event profile.

Switching between the two Night-Set profiles is done by activating the control wire at the point the luminaire is switched on (supply power on the main phase). The settings can be implemented using the iQ_{App}. In accordance with the factory settings: Even if the control wire is not used, the control wire port is assumed to have no electrical current and profile 1 (default) is used.

If, on the other hand, an electrical current is present on the control wire when the luminaire is switched on (supply power on the main phase), the luminaire selects profile 2 (the Night-Set/Smart-Wire profile).

Instead of the second profile (Smart-Wire profile), a simple light setting without gradation can also be selected. This setting can be used, for example, to switch the lighting to 100% in the event of a certain kind of operation. The standard profile is interrupted for the time the control wire is activated and can be subsequently resumed.

3. Expanded control (10-stage)

Smart-Wire also recognizes the length of time an electrical current is present on the control wire and the length of time the current has been interrupted. This makes it possible to switch between up to 10 light settings. The dimming level and the fading time can be set for each of these 10 light settings. If the LED board permits it, the light color and light distribution can also be selected. The default settings for this are applied using the iQ_{App} .

The ECG recognizes the following electrical current fluctuation durations ("pause time"):

Function	Pause time in sec.					
Light setting 1	1.5					
Light setting 2	2.5					
Light setting 3	3.5					
Light setting 4	4.5					
Light setting 5	5.5					
Light setting 6	6.5					
Light setting 7	7.5					
Light setting 8	8.5					
Light setting 9	9.5					
Light setting 10	10.5					

Smart-Wire tolerates a deviation of up to ± 0.2 seconds for these times.

Besides the iQ luminaire, this functionality also requires a control unit in the electrical distribution system that switches the control wire on and off. Conventional controls can be used. SITECO offers the product SITECO Connect Group Control (230V or 12/24V) for this purpose. A communication module that allows remote access and provides radio clock functionality is also available.

The Smart-Wire connection uses 1.8mA – this means more than 5,000 luminaires, for example, can be simultaneously controlled by a 10A fuse.

When using this function, the recommendation is to operate the iQ luminaires on their own control wire. This is because the pulse will briefly affect older SITECO luminaires, which only recognize the standard 2-stage control wire mode and are operated on the same control wire, by dimming them up and down for the duration of the command. If only one control wire is available, it's possible to check whether the older or non-SITECO luminaire can be set with a tolerance related to the control pulse used, for example 2.5 seconds.

The default settings for the iQ luminaires are implemented using the iQ $_{\rm App}.$



Night-Set

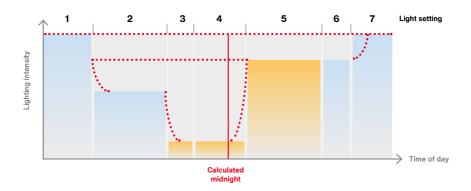
Night-Set controls nighttime reduction

while also offering a whole host of other control options. Additional dimming and lighting functions are available that allow a more customized approach to implementing night reductions – and you can switch between profiles, for example to vary weekdays and weekends. Time-dependent adjustments for light color and light distribution can also be made. This helps nighttime light use to be deployed in a way that protects nature and animals.

Night-Set is used for automatic nighttime reduction without the need for an additional control unit so the luminaire's ECG automatically implements the same lighting program every night. Up to seven dimming levels can be set for the course of the night.

Beyond dimming, Night-Set from SITECO allows seven light settings to be applied. For each light setting, the dimming level and the fading time at the start of the light setting as well as – if the LED board permits it – the light color and/or the light distribution can be applied. This means Night-Set in the iQ luminaires provides a very versatile automatic control option.

All Night-Set settings are preset at the factory and can be changed with the iQ_{App} 3.1. and higher.



On the basis of the power-on time of each previous seven-night period of time, the iQ ECG then calculates an artificial midnight for each luminaire. For this reason, switching off the luminaire's electrical current over the main phase during the day is necessary for Night-Set. This can be done, for example, by means of a central twilight switch with protection or a radio ripple control.

When first switched on, the Night-Set profile starts immediately and lasts eight hours. With each additional night, Night-Set measures the power-on time and adjusts the artificial midnight to the actual situation at the location. At the end of the seventh night, the artificial midnight has been calculated. This is then continuously calculated from the average power-on times of the past seven nights. In this way, Night-Set adapts to different power-on times in summer and winter.

The first dimming level or light setting starts when the luminaire is switched on. The start time of each further dimming level or light setting is specified as negative or positive time before and after the artificial midnight. With -02:30, for example, the light setting starts 2 hours and 30 minutes before the calculated artificial midnight. With +03:55 the light setting starts 3 hours and 55 minutes after artificial midnight. The level can start a maximum of 10.5 hours before artificial midnight and end 10.5 hours after midnight.

A profile start of "0" sets it exactly to virtual midnight. The time of a level can be applied in minute increments.

The length of time for the dimming level or light setting is then determined by the start time of the other light settings.

In locations where nighttime varies significantly with summer and winter, short lighting periods during the summer may not activate the Night-Set light settings that lie outside the actual power-on time.

If the ECG is switched on before the profile has stared, the switch-on value is used and then the full profile is implemented. Switching on while one of the profile's seven light settings is active will result in the dimming level moving toward this light setting.

SITECO has also thought ahead for maintenance operations: For maintenance work, luminaires are often switched on during the day. Out-of-the-ordinary switching on would normally lead to an unwanted change in the Night-Set profile's switching times. For this

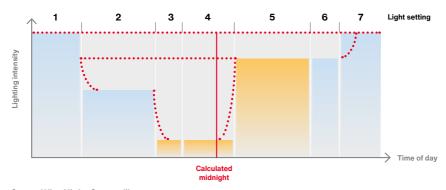
reason, power-on times of less than 2 hours or more than 18 hours are not considered when determining artificial midnight.

Night-Set combined with Smart-Wire

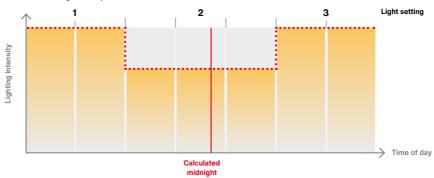
Additionally connecting a control wire to the ECG → smart-wire makes it possible to switch between two profiles with Night-Set as well. This allows, for example, flexible selection between a weekday and a weekend profile or activation of a lighting profile for events. Temporarily switching to a special light setting to accommodate, for example, rescue operations, is also possible.

Profile 1 (standard) is activated if 0V is present on the control wire when the luminaire is switched on (power on), Night-Set profile 2 (Smart-Wire) is activated if 230V is present.

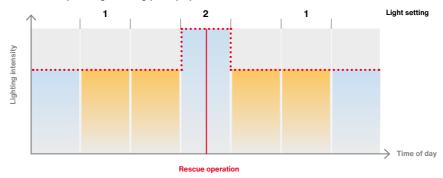
Standard Night-Set profile (example)



Smart-Wire Night-Set profile



Smart-Wire special light setting (example)



SITECO iQ Handbook



Lumen-Switch

Where exactly does the luminaire get positioned? What light is needed there?

With SITECO Lumen-Switch, the answers to these questions can change. This is because the function makes it possible to adjust and readjust the luminous flux at any time, even later on – for example, when updated nature conservation requirements make it necessary or if the neighborhood has requested it. This means the luminaire is and remains ready for the future.

Lumen-Switch makes it possible to specify the dimming level when the luminaire is switched on (power on) – the light color \rightarrow color-switch and light distribution \rightarrow Light-Switch as well if the luminaire permits it.

The settings can be conveniently changed using the iQ_{Ano}.



When powered on, the luminaire performs a self-test using the factory settings and then uses the switch-on value.



Light-Fading

The SITECO Light-Fading function creates a gentle transition between two dimming levels, leading to a smooth progression among various dimming levels. This means changes don't happen all at once and are instead perceived as part of a natural transition.

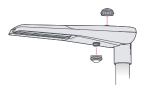
The settings can be conveniently implemented using the iQ_{Ano}.

The fading time specifies how long it should take until the new brightness level of a light setting is reached, starting from the current brightness level.

When switching on the electrical current, the luminaire initially activates the value 100% and then uses the adjusted switch-on value. Light fading then ensures smooth transitions when further shifting between the light settings – for example, between dimming.



Note: Fading is not possible when switching off the luminaire through power OFF.



Smart Interface

From simple control to a connected system.

The Smart Interface (in accordance with Zhaga Book 18, D4i, standard) not only ensures a secure future, it also enables additional flexibility and greater independence. Cities and municipalities can gradually adopt the lighting control technology, selecting when to launch or retrofit as required. All intelligent functions, such as Smart-Wire, will also be available in combination with Smart Interface in the future.

iQ luminaires are optionally equipped with the standard interface. When ordering the luminaire, look for the label "Smart Interface." iQ luminaires are available with a choice of Smart Interfaces upward and/or downward. They are D4i certified and comply with Zhaga Book 18.

Accordingly, the following standards have been implemented:

- DiiA DALI Part 250 Power Supply
- · DiiA DALI Part 251 Memory Bank Extension
- · DiiA DALI Part 252 Energy Reporting
- DiiA DALI Part 253 Diagnostics Maintenance



One additional note: For Zhaga devices that will be connected – for example, controllers or sensors – the dimming curve for iQ ECGs must have the "linear" setting (not logarithmic) it had at the time of delivery.



Light-Switch

Adjusting light distribution

How does the weather affect light distribution? The SITECO Light-Switch function uncouples road safety from weather conditions just that much more. Because Light-Switch ensures glare and reflections can be reduced when the roads are wet, an effect that results in improved visibility. And ultimately this positively contributes to the safety of all road users.

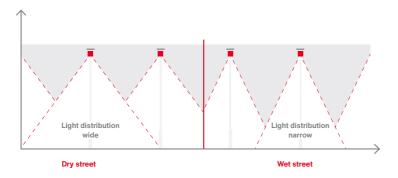
Light-Switch is a luminaire's ability to shift among various light distribution patterns.

Besides providing for weather-related lighting, it can serve other purposes as well.

The function is available as an option and can be selected when ordering the luminaire.

The Smart-Wire and Night-Set functions are used for controlling the light distribution patterns. → Smart-Wire → Night-Set

Control: "Smart-Wire" example



SITECO iQ Handbook

Color-Switch



Adjusting light color

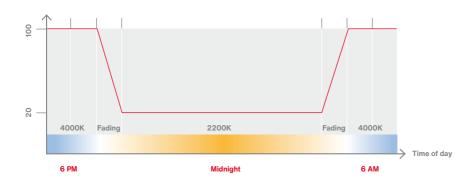
Which light colors will be stipulated in the future? Thanks to SITECO Color-Switch, you don't have to worry about that. Investing in this feature will certainly pay off because you can easily adjust the light color later on; for existing luminaires, this can be cone by simply changing the module. But Color-Switch can deliver even more: It's able to switch between preset light-color values to, for example, improve traffic safety at defined times. Or to avoid disturbing the rhythm of nocturnal insects through the use of warmer light. In this way, SITECO is making a long-term contribution to nature and species conservation.

Color-Switch is available as an option and can be selected when ordering the luminaire. The Smart-Wire and Night-Set functions are used for controlling the colors.



Important note: For iQ luminaires with more than one LED module, the LED modules must be replaced together if necessary. Use of LED modules from different generations within one luminaire is not permitted.

Control: "Night-Set" example

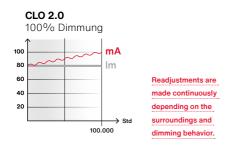




CLO 2.0

Always constant lumen output

CLO 2.0 compensates for minimal, but technically normal aging effects of the LEDs. After all, sun, wind and precipitation influence the environment in the luminaire. This results in an ideal tracking curve and the ability to maintain a constant luminous flux throughout the luminaire's service life. That means there's always exactly as much light available as is really needed – no more, no less.



SITECO's constant luminous flux regulation 2.0 and higher takes into account both current and past environmental and operating conditions, including the number of operating hours and switch-on cycles, protection provided by dimming, and temperature related to the weather and climate.

	AVG. ambient temperature at night				
Germany	5.5°C				
Italy	11.6°C				
Norway	1.5°C				
Dubai	23°C				

The reduced current feed at the start of service life helps save energy, and the constant luminous flux ensures additional safety in the city. And thanks to **Auto-Match**, these values are not lost, even when the ECG is replaced. Instead, they are automatically transferred to the newly exchanged ECGs.

Ambient temperature	−5°C	0°C	5°C	10°C	15°C	20°C	25°C
Avg. energy savings with CLO 2.0	7%	6.5%	6%	4.5%	3%	1.5%	

SITECO iQ Handbook

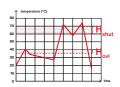
Surge-Protection

The surge-protection (10kV) integrated into the luminaire provides maximum protection for the luminaire electronics against the risks of power surges. This protection comprises all electronic components, including the ECG and the LED board.

Additionally, electronic circuits prevent static charge damage when nonconductive masts, such as those made of concrete, wood and plastic, are in use.

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Temp-Guard



SITECO Temp-Guard delivers reliable protection against overheating: Several sensors permanently monitor the luminaire's temperature status, automatically dimming it when critical values are reached. This effectively protects the luminaire electronics from overheating. Temp-Guard provides a vital service, especially in southern countries and those with temperate climates but hot summers.

The maximum ambient temperature specified on the luminaire is the benchmark value for operation. If this value is exceeded, Temp-Guard will kick in to protect the components from overheating.





Fuse-Plus

This control technology in the luminaire minimizes switch-on surges. When converting from conventional lighting to LED, the high inrush currents of LED luminaires made by other manufacturers often require a new fuse plan or different fuse ratings. In contrast, SITECO iQ luminaires have very low switch-on surges. This means a large number of luminaires can be protected by one fuse and existing fuse concepts are not negatively impacted.

The number of iQ luminaires that can be operated on single circuit breaker can be found in the data sheet for the respective iQ ECG.

DALI 2 and SDI



iQ luminaires have DALI 2 or SDI

Besides wireless controlling, iQ luminaires also allow cable controlling using DALI 2 or SDI.

Unlike the well-known DALI, SDI only has a reduced set of DALI commands. SDI operates solely in broadcast mode and allows the following three commands:

- Dim
- · Query the current dimming level
- · Query if the ECG is in operation

The iQ_{Ann} is used to check and implement settings.

For connecting a smartphone to the luminaire, SITECO offers the SITECO ServiceBox 3. The ServiceBox connects to a smartphone over Bluetooth (with Bluetooth 4.0 or higher). When doing this, the smartphone's Bluetooth function needs to be activated. Then the luminaire and ServiceBox DALI inputs are connected. ServiceBox 3 documentation provides further information about using the ServiceBox.

The iQ ECG receiving a valid DALI command over the cable will deactivate other controls such as Smart Interface, Night-Set and Smart-Wire until the next switch-off (power off).



Important note: The SDI/DALI connector may not be connected to the LST connector!

This is because the DALI input for the SITECO iQ ECGs is unsuitable for voltages higher than 25V.



Password protection and security

SITECO iQ luminaires are protected against unauthorized access through the following measures:

- Checking iQ luminaires and making changes are only possible using the iQ_{App.}
- · User data can only be created and changed by the person responsible for the lighting system.
- Different roles can be assigned to users with the possibility of restricting authorization to individual installations (luminaire groups) as well as the range of functionality
- Wireless access to the luminaires is particularly protected as well.
 You can find out more about this in the sections on Desk-Remote and Street-Remote functions.

iQ on smartphones and PCs



Obtain information, check, adjust and digitally manage

iQ offers a modern software concept for configuring and managing luminaires using a smartphone and PC.

iQ is available at no cost as a smartphone app in Apple App Store or in Google Play Store. For those who don't have their own smartphone readily available, SITECOoffers an iQ handheld device installed with the iQ software.

Users can also use a PC to conveniently implement presettings and view documentation at **www.lumident.siteco.com** \P .

Obtaining information

A Lumldent QR code is affixed to the luminaire boxes and in the installation space of each iQ luminaire to enable identification of individual luminaires.

Your advantages:

- · Quickly identify luminaires in the warehouse
- Quickly call up technical data on installed street luminaires by scanning the QR code
- Always have documentation for example, data sheets readily available

Simply scan the QR code to display information about the luminaire – for example, technical data such as the luminous flux and the light color. In addition, the technical data sheet, installation instructions and photometric test report can be called up with a smartphone.

Checking and adjusting

iQ on a smartphone also makes it possible to read out and check the luminaires. In addition, the iQ functions can be adjusted. Using the \rightarrow Desk-Remote and \rightarrow Street-Remote functions, the smartphone connects to the iQ luminaires over a wireless connection. Of course, it's also possible to connect to the SITECO ServiceBox 3 to implement SITECO outdoor luminaire settings over cable.

SITECO iQ Handbook

Your advantages:

- · Implement the lumen package settings for the luminaire in the workshop before installation
- · Quickly change the nighttime reduction after installation
- · Check the luminaire's condition at any time

Digitally managing

The luminaire can also be inventoried by scanning the Lumldent QR code. This will create a digital luminaire registry resulting in documentation for all scanned SITECO luminaires. The luminaires can subsequently be displayed in a table and map, thereby providing a good overview of the lighting system.

Defining work packages and specifying presettings for the luminaires can be carried out on a PC to simplify implementation of settings on the street or in the workshop. In addition, organizations (luminaire groups) can, for example, be created and authorizations assigned.

Your advantages:

- Luminaires clearly displayed on a map
- · Settings can be tracked at all times
- Information can be quickly accessed for making investment decisions

More about this is described in the documentation for iQ software.





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If you have any further questions, please contact a sales representative or technical support by phone at +49 8669 33 844 or by email at technicalsupport@siteco.de

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