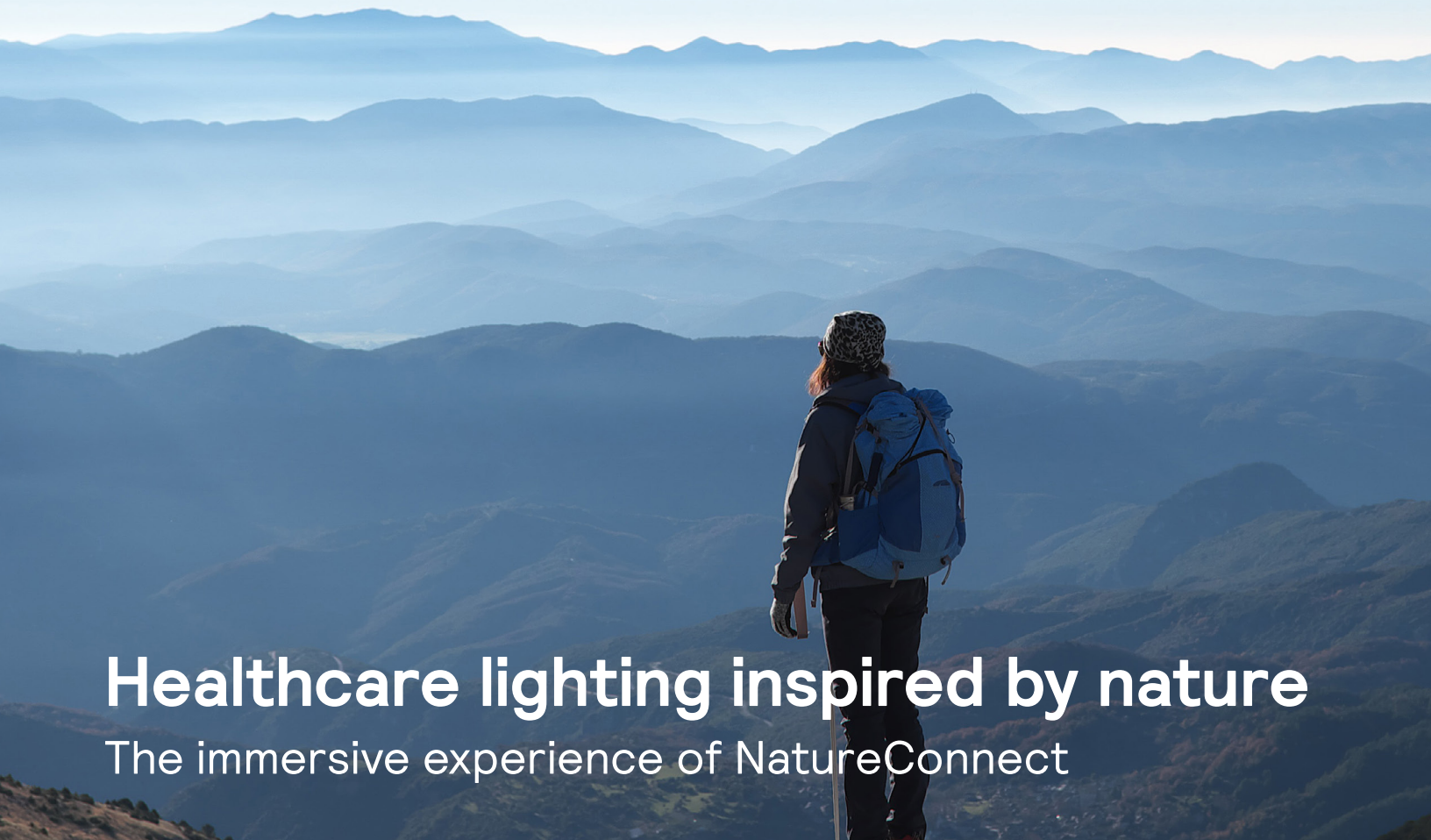
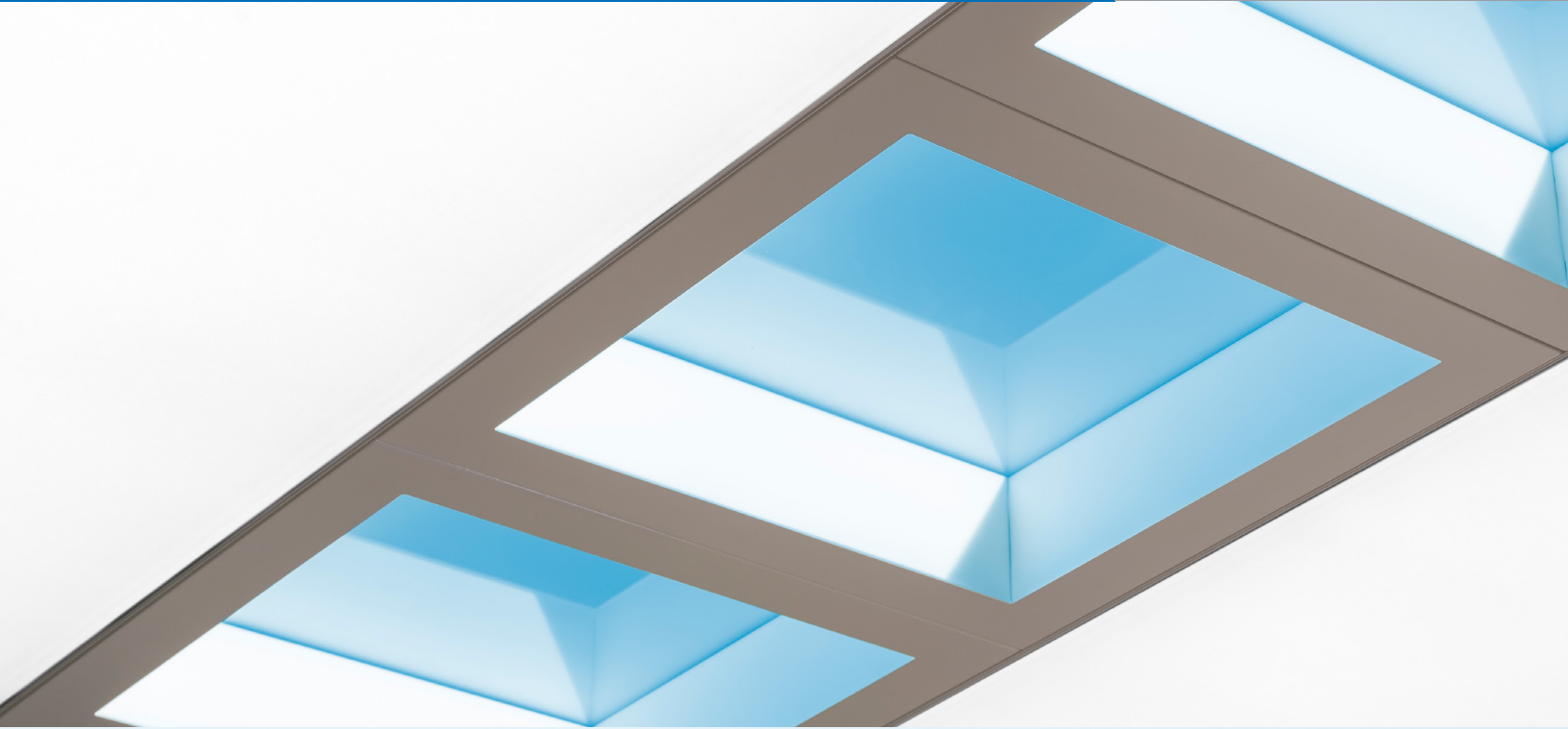




Indoor

NatureConnect

Healthcare
application guide



Healthcare lighting inspired by nature

The immersive experience of NatureConnect

Ledalite NatureConnect brings the benefits of natural light indoors

The NatureConnect lighting system is built on proven Biophilic Design principles to reconnect us with the constant cycles and variations of nature for comfortable, engaging and attractive indoor environments.

We have become the indoor generation

On average, we spend more than 90% of our time indoors¹, where we do not get sufficient access to daylight to feel happy and healthy.

The exposure to the right amount and quality of light during the day strongly impacts our mood, energy levels, comfort, quality of sleep and our health and wellbeing in general.

1. Source: The National Human Activity Pattern Survey (NHAPS)

For spaces where daylight can not come, NatureConnect is the answer



Having a **view to the sky** can create a feeling of spaciousness and a connection to nature.



Bringing the colors and dynamics from nature indoors for a **fully immersive experience**.



Stimulating wellbeing to support **energy enhancement** with the melanopic spectrum.



Creating **inspiring environments** for interiors that lack exposure to natural daylight and have low glare.



Mimicking the **daily rhythm of natural daylight** via different scenes for different applications.



NatureConnect with Interact for healthcare institutions

This is all you need for your inspiring lighting experience:



NatureConnect luminaires



NatureConnect link



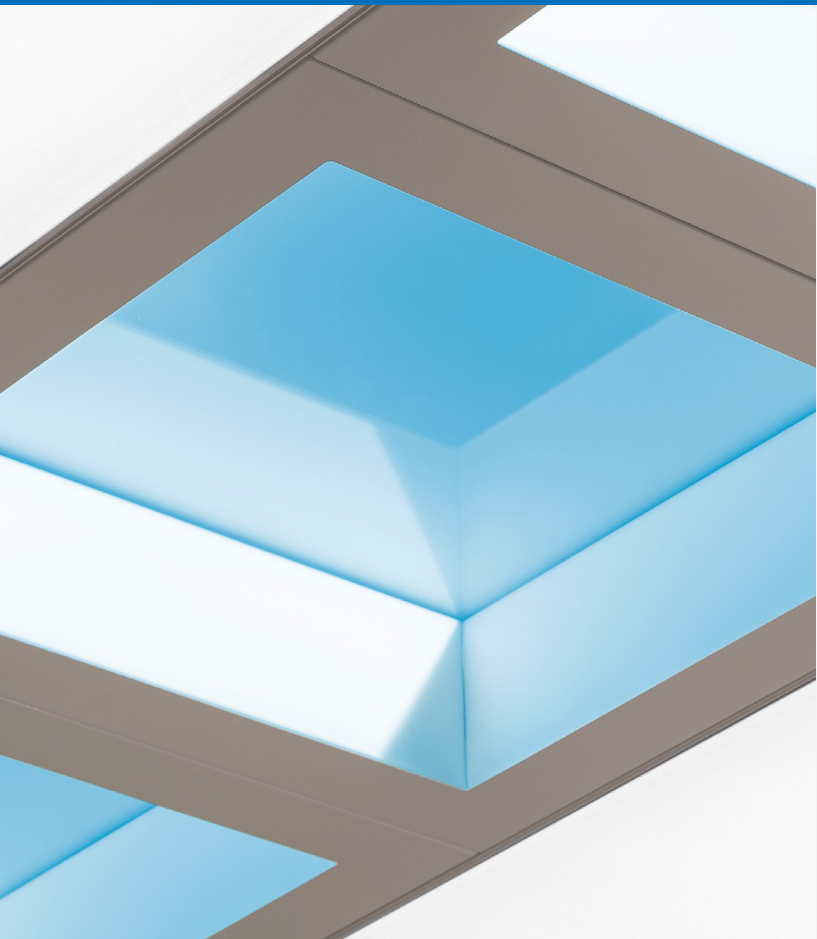
Sensor



Wireless Switch



Interact app



NatureConnect + Interact

NatureConnect combines various LED luminaires for a fully immersive natural experience. It is the perfect choice for different spaces in the hospital, from patients rooms, nurse stations, examination rooms and corridors.

Interact enables easy commissioning of the system and setting of the proper lighting behavior. Moreover, via the user interface it allows to select the desired lighting scene for the right moment.

Benefits of NatureConnect with Interact

Call on climate action. Interact reduces energy consumption when there is no occupancy in the spaces. Turning off or dimming the lighting, collecting occupancy data and interfacing with demand based HVAC systems.

Circular economy. Interact brings utilization and maintenance reports to facilitate serviceability of your assets.

NatureConnect scenes

User Interface



There are four scenes preprogrammed into the system easily accessible via the user interface. Scenes not assigned to the wireless switch buttons can be accessed via the interact mobile app.

Available scenes: Day Rhythm, Present, Relax, Energize.

Interface details

- Wireless
- On/off, dim up/down
- 3 Scene selection
- Decora style form factor

The intuitive wireless wall switch allows the user to choose between the automatic Day Rhythm or one of the other two specific natural light scenes.

- Day Rhythm
- Energize
- Present



Energy saving mode

A low brightness variant of Day Rhythm. This scene is used to create a background level of light when there is no presence in the zone. This scene activates automatically when no presence is detected by the sensors.

Noon



Morning



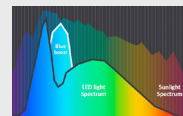
Evening



Day Rhythm



Default scene that is triggered when the system is turned on. It is optimized to mimic natural lighting. It automatically changes over the course of the day to be rendered in a way appropriate for the time of day.



Blue boost

The blue part of the light spectrum suppresses our sleep hormone and gives us energy. It stimulates us and keeps us focused. During the Day Rhythm scene NatureConnect brings the correct amount of blue light in the right time of the day as the natural light does.



A high brightness scene that provides sufficient light to support examination of the patient. This scene can be selected through the user interface.



A static scene with reduced light levels which lets patients focus on their leisure activities.



Scene that reproduces sunset, for a cozy and relaxing atmosphere, with reduced blue light emissions. This scene can be selected through the control interface.

How to configure a NatureConnect system

NatureConnect link

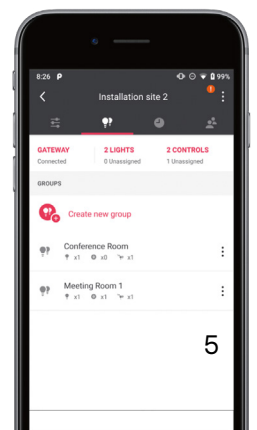
It integrates with the lighting controls system to create the NatureConnect lighting experience. It sends inputs to the luminaires included in the same lighting zone, for a consistent behavior.

Lighting zones

A lighting zone is the ensemble of all the luminaires that works with the same behavior (scene), managed by up to five user interfaces, connected to one or more NatureConnect link. A lighting zone can have nearly any size, from a single Daylight panel, to an island, to a large space with several luminaires. The amount of lighting zones is defined in the lighting plan. Every lighting zone requires at least one NatureConnect link.

Commissioning

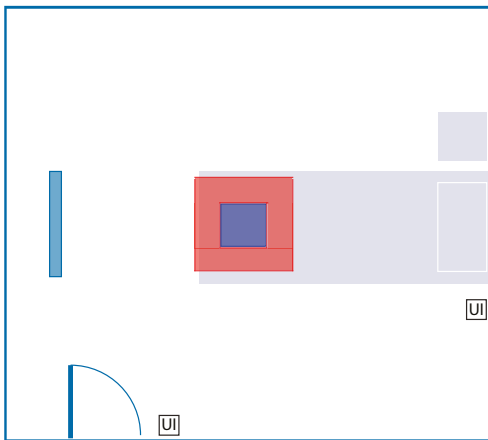
Commissioning and controlling NatureConnect link in an Interact system is as simple as commissioning and controlling a single tunable white luminaire via the Interact App.








Example application 1

Patient room with one lighting zone



-  NatureConnect skylight
-  NatureConnect lightscape
-  Wireless Interact User Interface Switch

Configuration with one lighting zone

NatureConnect	Quantity	Order code
NatureConnect mini island 4'X4' ¹ NCFG140 NC MINI ISLAND 4X4 WHT NAM	1	912401184602
NatureConnect lightscape ⁴ NCFG500 NC LIGHTSCAPE WHITE NAM	1	912401564452
NatureConnect lightscape controller ² NCFG690 NC LIGHTSCAPE CONTROLLER NAM	1	912401564454
NatureConnect link w/ Remote Radio Kit surface mount NCFG683 OR NatureConnect link plenum w/ IA Radio NCFG910	1	912401184224 OR 912401184608

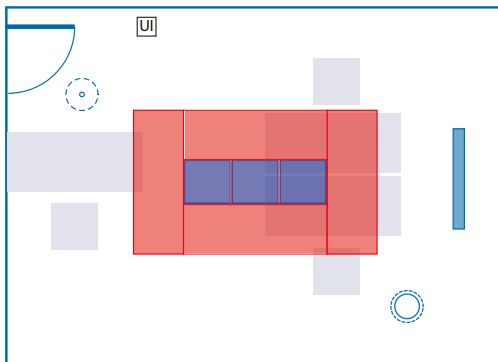
Interact	Quantity	Order code
Wireless User Interface SWS200	2	913701046713
Wireless Gateway Interact Pro LCN1840/05 ³	(1)	913701037713

1. Mini island for suspended, surface or recessed mounted installations. (Includes frame, skylight, daylight, gear tray/drivers and mounting).
2. One lightscape controller required for each lighting zone.
3. Optional for a cloud connected system with dashboard access.
4. Lightscape mounting ordered separately depending on ceiling type (not shown in this bill of materials).



Example application 2

Nurses station with one lighting zone



NatureConnect large island surface mounted



NatureConnect lightscape



Wired sensor (included with NatureConnect link NCFG681 or NCFG920)



Wireless Interact User Interface Switch



Battery-powered extension sensor

Configuration with one lighting zone

NatureConnect	Quantity	Order code
NatureConnect large island 6'x10' suspended ¹ NCFG110 NC LARGE ISLAND SUSPENDED NAM	1	912401564423
NatureConnect daylight panel 2'x6' NCFG325 NC DAYLIGHT PANEL 2PK NAM	2	912401564432
NatureConnect lightscape ⁴ NCFG500 NC LIGHTSCAPE WHITE NAM	1	912401564452
NatureConnect lightscape controller ² NCFG690 NC LIGHTSCAPE CONTROLLER NAM	1	912401564454
NatureConnect link w/ sensor NCFG681 OR NatureConnect link w/ sensor NCFG920 plenum-rated	1	912401184222 OR 912401184610

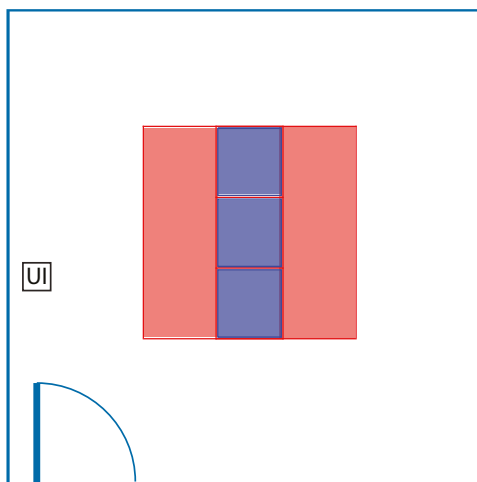
Interact	Quantity	Order code
Wireless User Interface SWS200	1	913701046713
Battery-powered extension sensor LCN3110/05	1	913701043913
Wireless Gateway Interact Pro LCN1840/05 ³	(1)	913701037713

1. Large island for suspended, or surface mounted installations. (Includes frame, skylight, gear tray/drivers and mounting). Daylight panels ordered separately.
2. One lightscape controller required for each lighting zone.
3. Optional for a cloud connected system with dashboard access.
4. Lightscape mounting ordered separately depending on ceiling type (not shown in this bill of materials).



Example application 3

Examination room with one lighting zone



NatureConnect small island surface mounted



Wireless Interact User Interface Switch

Configuration with three lighting zones

NatureConnect

	Quantity	Order code
NatureConnect small island 6'x6' suspended ¹ NCFG130 NC SMALL ISLAND SUSPENDED NAM	1	912401564425
NatureConnect daylight panel 2'x6' NCFG325 NC DAYLIGHT PANEL 2PK NAM	1	912401564432
NatureConnect link w/ Remote Radio Kit surface mount NCFG683 OR NatureConnect link plenum w/ IA Radio NCFG910	1	912401184224 OR 912401184608

Interact


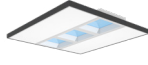




	Quantity	Order code
Wireless User Interface SWS200	1	913701046713
Wireless Gateway Interact Pro LCN1840/05 ²	1	913701037713

1. Small island for suspended or surface mounted installations (includes frame, skylights, gear tray/drivers and mounting). Daylight panels ordered separately.
2. Optional for a cloud connected system with dashboard access.

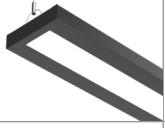
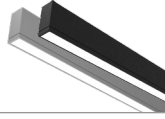


NatureConnect products overview

Below is a selection of NatureConnect products and additional tunable white luminaires that are suitable for a healthcare environment.


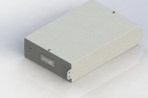
NatureConnect luminaires

					
Large island 6' x 10'	Small island 6' x 6'	Mini island 4' x 4'	Skylight 2' x 2'	Daylight panel 2'x6'	Lightscape

Ledalite DALI DT8 luminaires

			
SyncLine	TruGroove micro (recessed & suspended)	ModiFly	FloatPlane

NatureConnect controls

	
NatureConnect link	NatureConnect link plenum-rated

Interact

					
Sensor	Surface mounted bracket for sensor	Recessed mounted bracket for sensor	Wireless gateway	Wireless user interface	Battery powered extension sensor

To learn more, please visit

www.ledalite.com/NatureConnect

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PLe-2324LL - NatureConnect Healthcare Application Leaflet

