Human-Centric Lighting for Healthcare

CASAMBI GUIDE

Beneficial for

Hospital Administrators

- Reduced operational costs through smart energy management
- Improved patient experience with adaptive and human-centric lighting
- Easy scalability across wards, OPDs, ICUs, and corridors
- Remote monitoring and control across large facilities
- Enhanced safety through consistent, automated lighting schedules

Healthcare Planners & Consultants

- Seamless integration into existing hospital infrastructure
- Flexible reconfiguration without downtime or room closure
- Supports circadian lighting for patient recovery and staff well-being
- Centralized control of multiple medical zones and departments
- Reliable wireless communication ideal for retrofits

Lighting Designers

- Greater design freedom with dynamic, Tuneable white solutions
- Ability to create patient-friendly and clinically appropriate scenes
- Smooth transitions between examination, treatment, and rest modes
- Better uniformity and visual comfort for sensitive healthcare areas
- Easy commissioning and scene customization using the Casambi App

Medical Staff & Patients

- Improved comfort from circadian-aligned lighting
- Better visibility for examinations and procedures
- Quiet, non-intrusive adjustments without disturbing patients
- Reduced fatigue for staff on rotating shifts
- Safer navigation in low-light or night-time conditions

Facility Managers

- Quick device replacement with no reprogramming required
- Fast and efficient maintenance
- Lower energy consumption through scheduling and automation
- Simplified management of lighting across large campuses
- Secure remote access for 24/7 control

Casambi Feature	Description
Wireless & Retrofit-Friendly	No rewiring; works with existing circuits
Scene & Mood Flexibility	Instantly shift between lighting modes
Scalable & Future-Proof	Start small, expand easily
Energy Efficient	Presence, dimming, daylight harvesting
Easy Setup	Simple app-based control
No Hidden Costs	Free App used for Set Up and Use

Patient Rooms

Siqitech D1 6-Button Switch

Down Lights - UWC CCD Driver

IR Blaster

IR Blaster

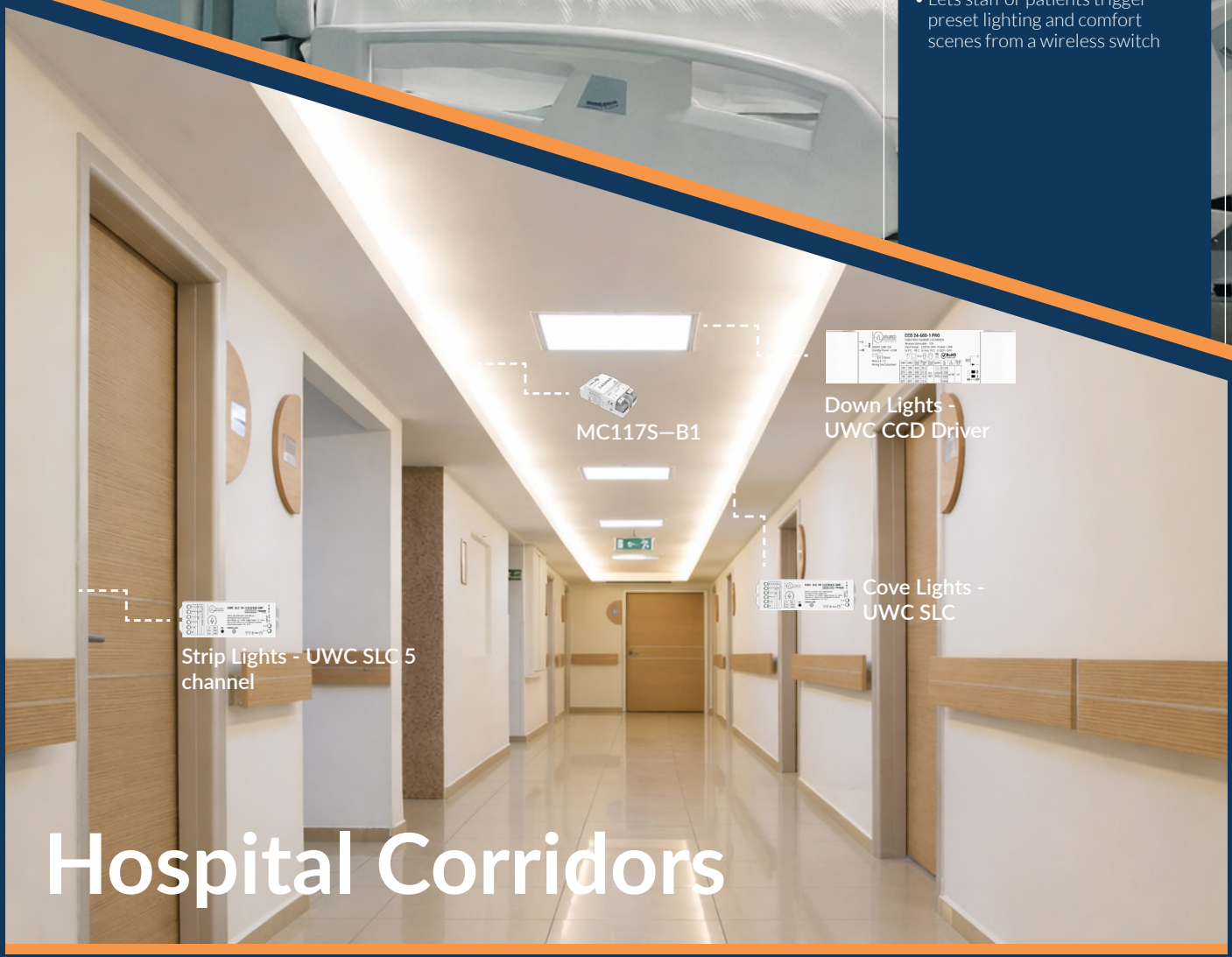
- Controls patient-room AC, TV, and other IR-based devices wirelessly

Unwired Connect CCD Drivers

- Provides wireless dimming and control of room lighting without extra wiring

Siqitech 6-Button Battery Switch

- Lets staff or patients trigger preset lighting and comfort scenes from a wireless switch



MC117S—B1

Down Lights - UWC CCD Driver

Cove Lights - UWC SLC

Strip Lights - UWC SLC 5 channel

Hospital Corridors

Unwired Connect – Strip Light Controller
(for Cove Lighting)

- Enables wireless dimming and control of continuous cove lighting along the corridor

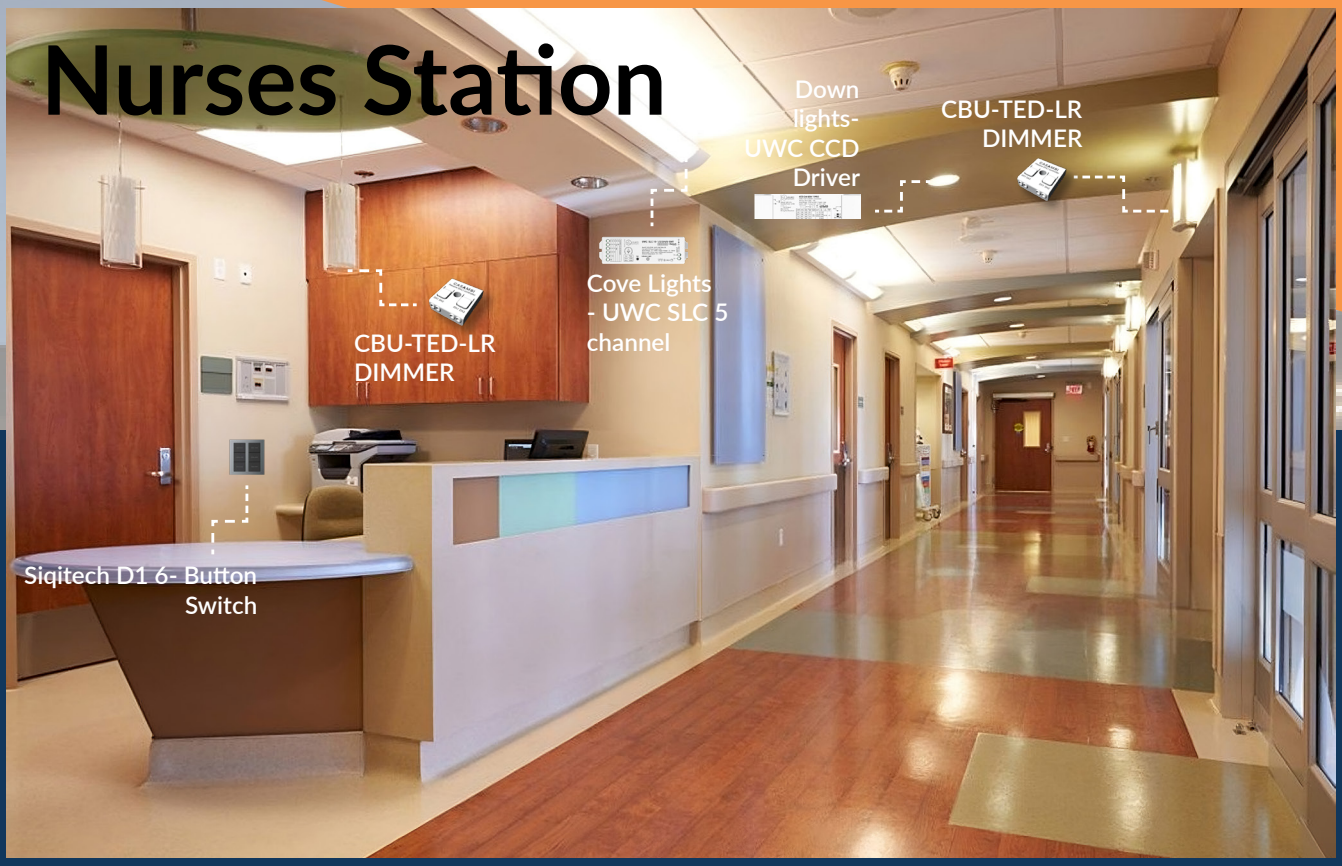
Unwired Connect – CCD Drivers
(for Downlights)

- Provides smooth, wireless dimming and control of corridor downlights for uniform illumination

Merrytek MC1175-B1 Sensor
(Placement in Cove)

- Mounted discreetly inside the cove to deliver occupancy-based auto ON/OFF and daylight response without being visible

Nurses Station



Siqitech 6-Button Switch

- Allows nurses to trigger key lighting scenes for quick task, night, and emergency operation

Casambi CBU-TED
(for Hanging Light / Wall Lamp)

- Provides wireless phase-cut dimming control for the hanging task light above the nurse station and for wall-lamp dimming

Unwired Connect – Striplight Controller *(for Cove)*

- Enables wireless dimming and control of continuous cove lighting along the corridor

Unwired Connect – CCD Drivers
(for Downlights)

- Provides smooth, wireless dimming and control of corridor downlights for uniform illumination

Casambi Functionality tailored for the Healthcare

Lighting Control

- Tuneable white & Circadian Support– Helps regulate patient sleep-wake cycles for faster recovery
- Therapeutic Colour Lighting – Creates calming ,low-stress environments in patient room and treatment areas
- Adaptive Clinical Lighting-Adjusts brightness for examinations, procedures, and night-mode safety.

Appliance Control

- TV Control – Turn TV on & off using the IR Blaster
- AC Control– Control your AC with the Casambi IR Blaster
- Curtain Controller – Open or close motorized curtains to support patient comfort, privacy, and daylight management
- Integrate all appliances with scenes like “Patient Rest Mode” or “Examination Mode” for seamless operation.

Scene Management

- Presets – Quick lighting presets for examination, procedures, rest, and cleaning
- Patient Comfort Scenes – Calming, low-intensity modes tailored for recovery and relaxation.
- Emergency & Night Scenes – Instant switch to safe, low-glare illumination during nighttime and critical events.

Timers & Scheduling

- Auto turn-on/off lights after a set duration to maintain patient comfort. Schedule motorised blinds to adjust with sunrise/sunset for better circadian support to patient rooms
- Turn AC on/off as per your desired timing
- Morning and Night Mode – Clinical scenes can trigger at specific times to support staff routines and comfort and energy efficiency.
- Scene Based automation like “Start of Day” or “End of Day” triggered at specific times.

Can be triggered from the free Mobile App , Smart Switches and Tablets (Show images of APP, switches)

Give your lights a new lease of life with Casambi Retrofit Solutions

Site with just on off switches

Functionality

- Lights can only go on and off
- Lights either at 100% or 0%
- Zero energy saving

Functionality

With only a driver change , lights can now be dimmed , set on timers , added into scenes ,configured with motion sensors

Site already with Dali wiring

Functionality

- Needs a wired controller
- Needs specialist software and laptop
- No easy changes post handover
- No Mobile app

Functionality

- With only ASD added to the Dali Control line ,lights can be wirelessly controlled , Changes can be made through the user friendly Casambi app
- Free Casambi app
- Add switches , sensors , curtain without need for additional wiring

Interoperability in Retrofit

- Works with mixed legacy and modern lighting systems
- Compatible with multiple standards: DALI / DALI-2 / D4i / DMX / 0–10V / phase-cut / PWM
- Removes compatibility issues without major rewiring or system overhaul
- Connectivity available via Cloud Gateway or Ethernet Gateway

Architecture-Adaptive Smart Lighting

- Easily adapts to different building designs and layouts
- Scalable Casambi solution suits buildings of any size
- Modular system allows fully customized installations
- Delivers seamless integration while maintaining design aesthetics

Infrastructure-Friendly

- Works smoothly within existing building infrastructure
- Wireless Casambi technology enables upgrades without rewiring
- Preserves the building's structural integrity
- Seamlessly integrates with current lighting systems
- Enables faster retrofits with minimal disruption and downtime

User-Friendly Adoption

- Easy for users to learn and use
- Works with familiar switches and sensors
- Smooth transition from traditional controls
- User-friendly app/interface
- Delivers smart features without complicating operation

Retrofit Feature	Description
Works With Existing Luminaires	Upgrade controls without replacing lights
Hybrid Wired + Wireless	Combine Casambi wireless with existing DALI networks
Fast Installation	No control cabling or data wiring needed
Ideal for Renovations	Perfect for brownfield & refurbishment projects
Reduces Project Cost	Saves rewiring, labour and material costs
Energy Savings	Occupancy, daylight & scheduling automation