THE PROBLEM:
Current environmental disinfection methods are applied at discrete moments in time (i.e. episodically). The results of achieving a “clean room” are short-lived as harmful bacteria re-populate the space.

THE SOLUTION:
Indigo-Clean offers a solution that continuously disinfects the environment and bolsters your current infection prevention efforts.

What Makes Indigo-Clean Unique?

- Indigo-Clean is an environmental disinfection device that is integrated into your lighting
- Continuous environmental disinfection kills bacteria missed during routine cleaning
- Indigo-Clean is NOT UV light... it uses safe 405nm visible light
- Automatically kills bacteria, reducing risk of human error

Break the Chain of Infection by Raising Your Standard of Clean

The healthcare environment is a reservoir for pathogens. Indigo-Clean breaks the chain of infection between the environment and an unsuspecting host.

Indigo-Clean, a patented continuous environmental disinfection technology, uses visible light to safely, automatically and continuously kill harmful bacteria, 24/7, in the air and on hard and soft surfaces.

Indigo-Clean bolsters current infection prevention methods and is proven to kill a wide range of harmful bacteria.

What Makes Indigo-Clean Unique?

- Kills bacteria in the air, and on hard and soft surfaces
- No special or additional training or staff required to operate
- Light is safe for patients and caregivers
- Does not require consumables
- Can be fully automated when used with recommended Indigo-Clean (IC100) Controls

Indigo-Clean MDLIC6 Series
6” Downlight

Indigo-Clean MEIC Series
2’x2’ and 2’x4’
How Does Indigo-Clean Work?

Indigo-Clean Technology requires no line of sight, but instead reflects off surfaces, disinfecting everywhere the light reaches.

**How It Works**:  
- The 405nm emitted from Indigo-Clean luminaires reflects off of walls and surfaces, penetrating harmful micro-organisms
- The 405nm light targets and excites naturally occurring molecules within the bacteria called porphyrins, to produce intra-cellular Reactive Oxygen Species (ROS).
- Similar to bleach, these ROS create an oxidative environment within the organism, inactivating it and preventing it from re-populating the space.

Visible light spectrum showing the active element in Indigo-Clean

- **WAVELLENGTH (nm)**
  - 254 Typical UV-C germicidal wavelength
  - 405nm Indigo-Clean germicidal wavelength

Creates ROS

- $\text{O}_2$
- $\text{O}_2^-$
- $\text{H}_2\text{O}_2$
- $\text{OH}$
- $\text{OH}^-$

Inactivation of bacteria via visible light absorption

What Does Indigo-Clean Kill?

ESKAPE Pathogens:
- Enterococcus faecalis
- Staphylococcal Aureus (incl. MRSA)
- Klebsiella pneumoniae
- Acinetobacter baumannii
- Pseudomonas aeruginosa
- Enterobacter species

As well as a range of other organisms:
- C-diff
- VRE
- Aspergillus niger
- E.coli
- Salmonella enteritidis

Sporicidal – Kills 70% of C.diff in 24 hours
SGS Lab Report# - 09S17053798

Continuously Reduce Overall Bioburden by 70%+ with Indigo-Clean™

Clinical testing has shown Indigo-Clean can achieve a continuous 70%+ reduction of harmful bacteria\(^1\) in the environment. At the same time, recently published studies show that improved cleaning can reduce HAI rates for certain organisms.\(^3\)

These results, combined with the additional cost per patient due to HAI, suggest that preventing even a single infection would create a positive ROI and drive down costs for healthcare providers.

Kill *C. diff* and Prevent It From Spreading

Indigo-Clean MDLIC6 is a dual-mode luminaire utilizing a dual-technology occupancy sensor that provides an effortless transition between white ambient mode while the room is in use, and Indigo disinfection mode when the room is not. MDLIC6 provides clinical grade control of *C. diff*, and is ideal for patient bathrooms, helping to prevent harmful bacteria from spreading to the patient room.

**Indigo-Clean™ MDLIC6 Downlight**

**Switchable: White Ambient Mode and Indigo Disinfection Mode**

- Delivered lumen range: 1,384 – 2,050 lm
- Input power: 29 – 40W
- 3000K, 3500K, 4000K, 5000K
- Continuous environmental disinfection
- Sporicidal - Proven to kill 70% of *C. diff* in 24 hrs.**
- Provided IC75 occupancy sensor switches automatically to max disinfection mode when room is unoccupied
- High performance LEDs deliver high visual acuity
- IP64 listed per IEC 60598 ensures ingress protection against dust and water (IP65 optional)
- NSF2 listing supports ease of cleanability
- Standard antimicrobial finish

**Nominal Sizes:** 6" Aperture

**Installation Types:** Recessed

**Lamp Types:** White LED, Indigo LED

**Est. LED Life:** 60,000 hrs.


** SGS Lab Report# - 09S17053798. Contact manufacturer for a copy of this report.

**Proven to Kill *C. diff***
Indigo-Clean MEIC operates in ambient white disinfection mode to both disinfect and light the room when it is occupied, or in Indigo mode for safe, maximum disinfection when the room is unoccupied. MEIC supports the patient, the patient care team and the hospital environment by killing harmful bacteria, including MRSA* and other ESKAPE pathogens, while the room is in use, and the luminaire is also sealed to prevent the spread of infection. This luminaire is ideal for emergency departments, waiting rooms and procedure rooms.

Indigo-Clean ™ MEIC
Switchable: White Disinfection Mode and Indigo Disinfection Mode

- Delivered lumen range (white disinfection mode): 2,788 – 8,122 lm
- Input power: 36 – 83W
- 3700K, 4300K
- Continuous environmental disinfection
- Kills up to 70%* of harmful bacteria
- Recommended with Indigo-Clean (IC100) room control system
- High performance LEDs deliver high visual acuity
- IP64 listed per IEC 60598 ensures ingress protection against dust and water
- NSF2 listing supports ease of cleanability
- Optional antimicrobial finish
- Standard dimming provides flexible light levels

Nominal Sizes: 2’ x 2’, 2’ x 4’
Installation Types: Grid, Flange
Lamp Types: White LED and Indigo LED
Est. LED Life: 125,000 hrs.

Proven to Kill Staph* including MRSA

Indigo-Disinfection Mode can be selected to provide maximum continuous disinfection when room is not in use.

* Per independent lab report #5G5-09516032699. Contact manufacturer for a copy of this report.
Lighting Controls Make Indigo-Clean Simple to Use

During periods of occupancy, this IC100 control system is designed to set the Indigo-Clean luminaires into white disinfection mode, which provides comfortable white light, yet maintains a level of continuous disinfection to harmful bacteria. After the room is unoccupied for 30 minutes, the control system will set the Indigo-Clean luminaires to indigo disinfection mode, which provides maximum disinfection to harmful bacteria.

Listings & Certifications

Fixtures designed for use in healthcare applications must satisfy a large number of demanding lighting and environmental requirements. For the most up-to-date information, please refer to individual product specification sheets at www.kenall.com.

- **ETL**—A product bearing the ETL Listed Mark is determined to have met the minimum requirements of prescribed product safety standards as certified by a Nationally Recognized Testing Laboratory (NRTL). The mark also indicates that the manufacturer’s production site conforms to a range of compliance measures and is subject to periodic follow-up inspections to verify continued conformance.

- **IP64**—UL Certified IP64 per IEC 60598 ensures that the enclosure is dust-tight and protected against splashing water without any harmful effects.

- **IP65**— UL Certified IP65 per IEC 60598 ensures that the enclosure is dust-tight and protected against jet streams of water from any direction without any harmful effects.

- **CCEA Approved**—The City of Chicago Environmental Air (CCEA) rating ensures that the luminaire is inherently airtight. Wiring and/or branch circuit terminations are sealed off and gasketed from the plenum air space. This listing ensures that the luminaire is sealed to limit air flow from the room side to the plenum.

- **NSF2**—An NSF2 Listing denotes that the luminaire has been evaluated for corrosion resistance, cleanability and the ability of exposed material to withstand normal wear. This supports the infection control standards established by healthcare facilities as it indicates that the luminaire is easy to sanitize.

- **CETL**—A product bearing the CETL Listed Mark is determined to have met the minimum requirements of prescribed product safety standards as certified by a Nationally Recognized Testing Laboratory (NRTL). The CETL mark also indicates that the manufacturer’s production site conforms to a range of compliance measures and is subject to periodic follow-up inspections to verify continued conformance.

Indigo-Clean M4SEDIC for Your Surgical Suite Needs

The MedMaster M4SEDIC provides continuous environmental disinfection in ORs, which supports the surgical team, the patient and the surgical suite’s critical environment.

- Proven to continuously kill 70%+ of harmful bacteria
- High performance LEDs deliver high visual acuity
- IP65 rated to ensure ingress protection against dust and water
- NSF2 listing supports ease of cleanability
- Certified to MIL STD 461F to address EM/RFI issues

Visit Indigo-Clean.com for more information.