Welcome to the World of Innovations

Pendant | Panels | Curtains | Wall Guards | Rails | Air Handling Unit
UVC Disinfection System | Patient Warming System

About us

We are a proud Indian organization which understands the needs of our hardworking doctors and nurses and manufacture and design our products accordingly. With over 18 years of experience in the field of manufacturing Pendants, Bed Head Panels, trolleys, accessories and many thousands of units installed across the India, Medi-rail Systems ® is constantly setting new standards for quality and perfection along with comfortable working spaces for our Doctors.

For more than 18 years, our staff, highly specialized in medical engineering, have been assisting in the planning, decision making, and implementation processes in hospitals in India, seeing a lot, listening very carefully, learning from the customers and advising them as well. This mutual exchange helps us to get better at what we do. Workplace design - right from the start

All our products stands for variability. Different combinations of racks and rails for mounting devices are possible. Various assembly options serve to satisfy the highest nursing requirements and combine functionality with elegant design. Whether in the emergency departments, operation theatres, recovery rooms or intensive care units.

Surgeon's Pendant with Control Panel

Aluminium Extruded Single Arm Ceiling Suspended Unit for Operation Theatres. Multi movements with high load bearing capacity. 330° Arm and console rotation. Console size (H) 900 mm, (W) 50mm, (D) 150 mm. with 6 trays for keeping accessory on vertical rail.

Control Panel:

- Input Power Supply : 24V DC
- Display : 7 Segment Display (0.5inch) 16 Nos.
- 12 Keys, 10 LED indications
- Digital Inputs : 05 Nos.
- Digital Outputs : 02Nos.
- Analog Inputs : 02 Nos.
- Real Time Clock to show current time
- Elapsed Time Indication
- Inbuilt EEPROM & Watch dog features.
- Buzzer indication for any error
- Hepa & Room Pressure : Range 0 to 3.5 Kpa
- Vacuum pressure Switch : Setting Range - 1 to 0 Bar
- Air, Oxygen & Nitrous Pressure Switch : Setting Range 0.2 to 7.5 Bar
- Humidity Sensor : Range 0 to 99% RH
- Temperature Sensor : Range 2 to 60°C.

Surgeon's O.T. Pendant with Extended LCD Arm

Aluminum Extruded Single Arm Ceiling Suspended Unit for Operation Theatres. Multi movements with high load bearing capacity. 330° Arm and console rotation. Console size (H) 900 mm, (W) 50mm, (D) 150 mm.

- Additional LCD arm for Keeping monitor.
- Provision for Gas Outlets & Electrical Switch/ Sockets.
- 6 trays for keeping accessory on Vertical rail.

Other Models:

- Single Arm Surgeon's Pendant for General Surgery
- Double Arm Surgeon's Pendant
- Surgeon's Pendant with Patient Warming Mattress
- Remote Operated Surgeon's Pendant

I.C.U. Pendant

Aluminum Extruded Ceiling Suspended Unit with rotation specially designed for ICU and other critical areas such as Recovery, Casualty & PICU etc.
All accessories are mounted on Aluminum Extruded Vertical Rail with Strong Fixation Clamps.

It comes along with following accessories:
• Revolving Monitor Tray with Clamp.
• Vertical Rail 4 Feet.
• Storage Basket with Clamp.
• Syringe Pump Attachment with Clamp.
• IV Stand with Clamps.
• Provisions for Gas Outlets & Electrical Switch Sockets can be customized.

Various Models Available

Anaesthesia Pendant

Aluminum Extruded Ceiling Suspended Unit Specially designed for Anaesthetist in operation Theatre.

The Customized pendant is available in two variants -
• Anaesthesia Pendant - Rigid
• Anaesthesia Pendant - with Extended Arm

This Anaesthesia Pendant has provisions for Gas outlets, Electrical Switch Sockets & Data Points with accessories Like Monitor Tray, IV Stand and Storage Basket etc.

Bed Head Panels

Aluminium Extruded Bed Head Panel available in various sizes and colours, Where all gas connections along with electrical switches, nurse call systems etc comes in one panel which is mounted on the wall at working height.

Horizontal Bed Head Panels

Bed Head Panels

Cartoon Bed Head Panels Specially designed for Pediatric and Neonatal ICU as per clients requirement.

Bed Head Panels

Vertical Bed Head Panels

Aluminium Extruded
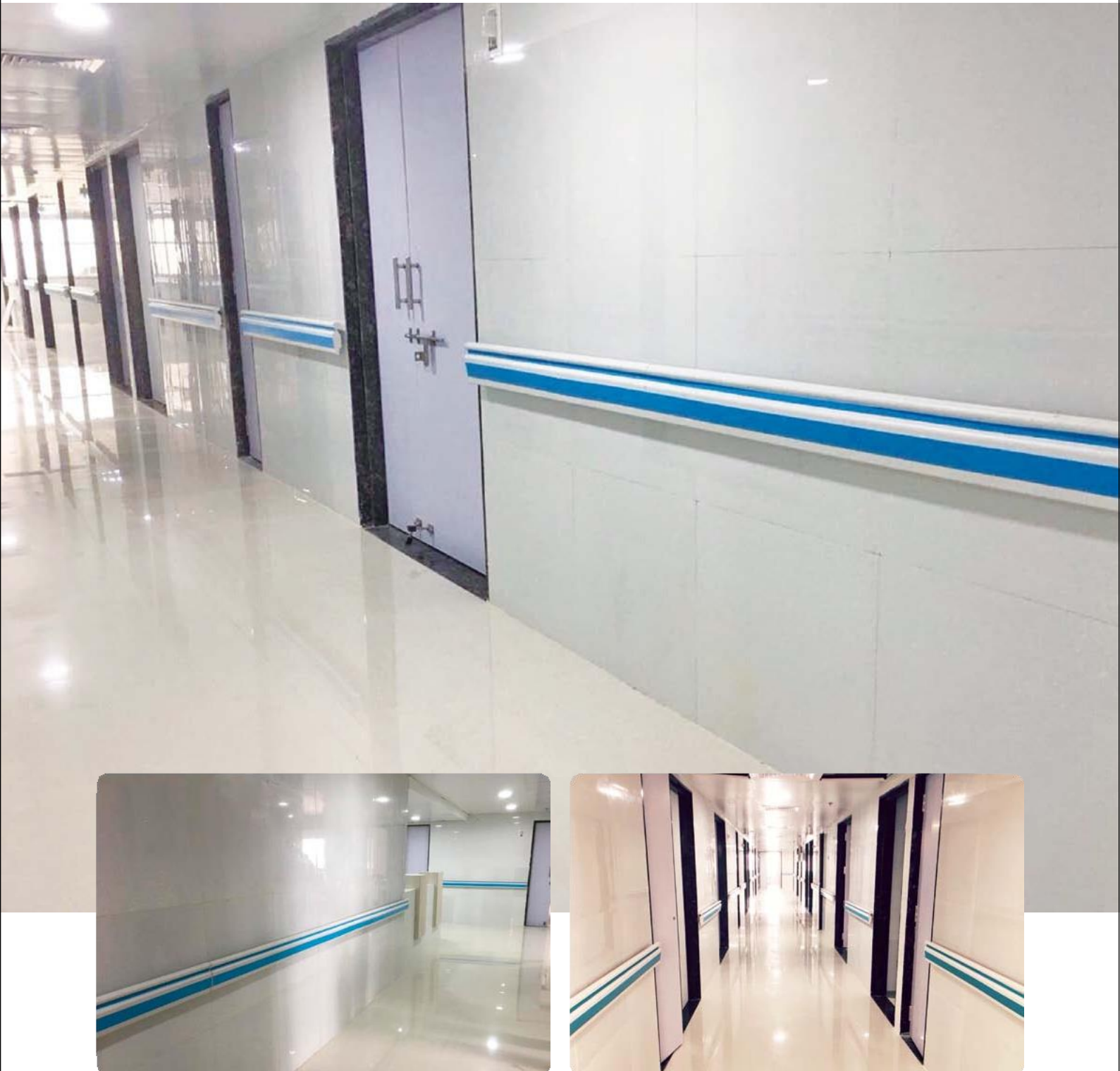# Curtain Track with Curtain Cloth

Wall Guards

Wall guards are designed to keep your walls and fixtures from incurring costly and unsightly damage while enhancing their appearance.

They sit flush against walls, cases, cash registers and more to prevent everyday wear and tear.

This wall guard is easy to Install and requires no maintenance.

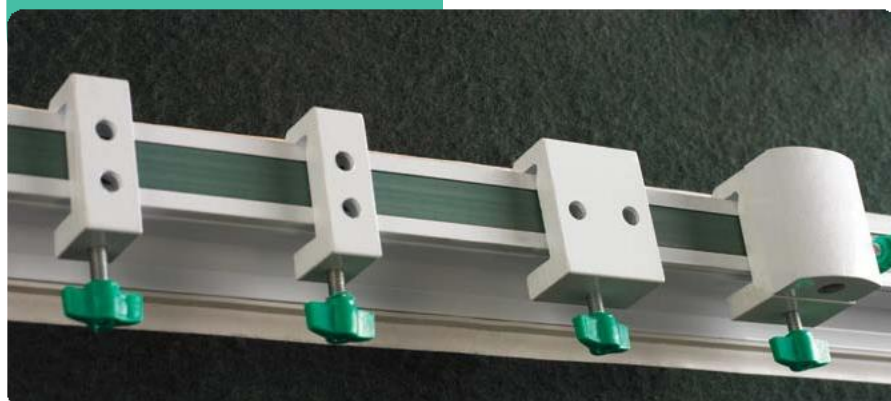It can be custom cut or cut to fit on site.

Rail Accessories

Rails for Keeping Various Accessories

Vertical Rail

Horizontal Rail

Medi-rail Systems.... ®
efficacy personified

Miniature
Air Handling Unit

A revolutionary germicidal product

CORONA FIGHTER
Kills **99.9%** Viruses

Air Handling unit with forced air circulation with Pre filters, HEPA Filter, Ultra Violet light & many more Air Purification system to ensure sterile & purified Air.

A Must Unit in:
- Operation Theatre
- Critical care units
- ICU
- NICU

- Human Milk Banks
  And all other areas where sterile Environment is Mandatory.

CORONA FIGHTER
Kills 99.9% Viruses

Medirail Miniature Air Handling Unit is a revolutionary new germicidal product for air sterilization. It sterilizes premises against airborne infection caused by bacteria and spores. It is compact, portable, easy to use and maintain and complies with International Statutory Safety Regulations. The Medirail unit is capable of destroying greater than 99.97% of micro-organisms in the air.

UV tubes arranged in a mathematically designed reflective chamber, controlled airspeed and lengthwise flow of air in close proximity to the tubes provides maximum killing power even for the toughest bacteria, germs, spores and moulds.

Medirail has been exhaustively tested under field and laboratory conditions. A range of trials performed by Microbiology Laboratories employed a number of different test protocols to measure the machine's efficiency. Tests against both airborne and normally static organisms proved equally effective across a wide range of genera including gram positive and gram negative bacteria, moulds.

Unit's performance & trials were carried out within various hospitals in and around Pune.

Air Flow

Clean Air

Product Features:

Safe - no toxic residues, silent operation, low operating costs, compact, portable, modern design, high efficiency to size ratio, no ozone depletion, ease of use and maintenance.

Medirail Miniature Air Handling Unit provides a comprehensive solutions for infection control and sterilization.

Easy to Install and use

Height	:	460 mm
Width	:	415 mm
Weight	:	9 Kg
Electrical	:	220 Volts
Power Consumption	:	60 Watts
Fan Type	:	80 C.F.M.
dB rating	:	40 dB
Pre Filter	:	Non woven poly - 5 micron
A.C. Filter filter	:	Silver impregnated carbon
Hepa Filter	:	Efficiency 99.97% - 0.3 micron
E.S.P.	:	Germicidal type
High Voltage	:	Anion Ion Generator
Area recommended	:	2500 cu feet
Installation method	:	Wall mounted

Applications:

Hospitals and Healthcare:
• Operation Theatres
• Burns Units
• Neo-Natal Wards
• Intensive Care Units (ICUs)
• Post-Operative / Recovery Rooms
• Orthopedic Rooms/wards
• Isolation rooms/wards
• Microbiology / Pathology Labs
• Culture Rooms
• Sterilization Depts.
• Mortuaries/Morgues
• Waiting & Consulting rooms
• General Wards (OPDs), etc.

Pharmaceutical Industry:
• Microbiological Labs
• Clean Rooms
• Pass Boxes
• Packing areas
• Sterile Storage Rooms
• Sterilization Departments, etc.

Alpha Miniature Air Handling Unit can even be used in Rest rooms & Pantry for effective removal of odour.

Medi-rail Systems....®

efficacy personified

UVC Disinfection System

A Reliable Safety Device for Protection Against Infection
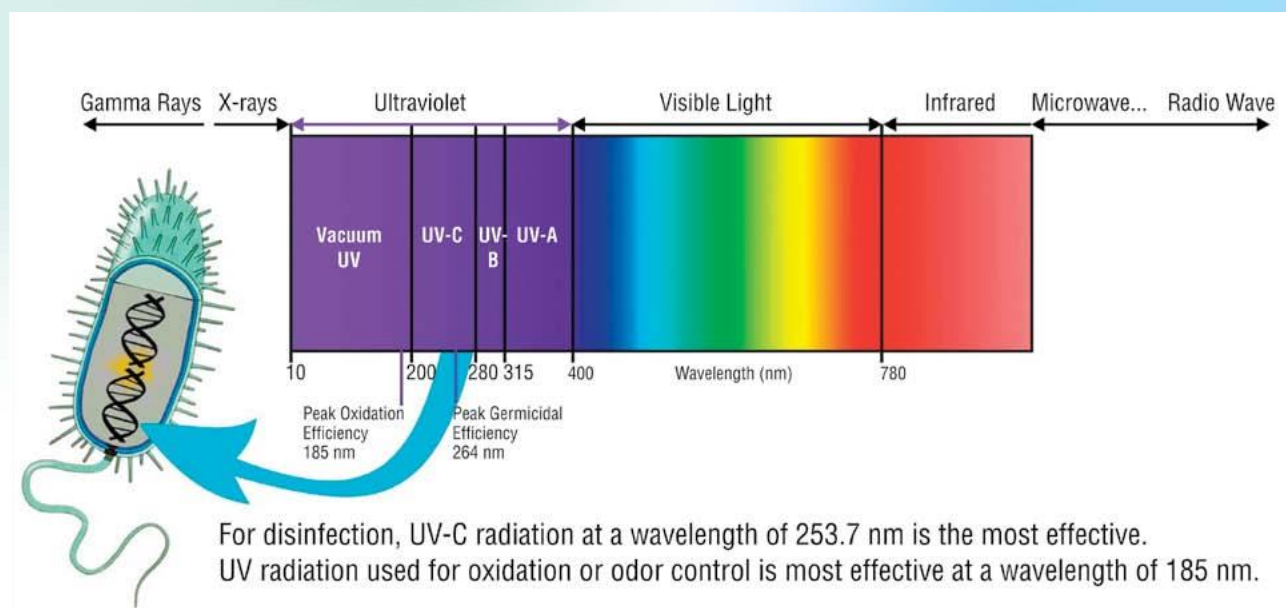
CORONA FIGHTER

Kills 99.9% Viruses

Kill Viruses like COVID-19, MRSA, SARS, EBOLA and other germs

Ultraviolet Germicidal Irradiation (UVGI) is a disinfection

method that uses short-wavelength ultraviolet (ultraviolet C or UV-C) light to kill or inactivate microorganisms by destroying nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions. UVGI is used in a variety of applications, such as surface, food, air, and water purification.

The effectiveness of germicidal UV depends on the length of time a microorganism is exposed to UV, the intensity and wavelength of the UV radiation, the presence of particles that can protect the microorganisms from UV, and a microorganism's ability to withstand UV during its exposure.

Light Spectrum (Electromagnetic Radiation)

For disinfection, UV-C radiation at a wavelength of 253.7 nm is the most effective.
UV radiation used for oxidation or odor control is most effective at a wavelength of 185 nm.
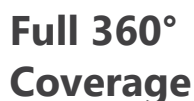
Introduction:

YODDHA, YODDHA++, HYGEIA & HYGEIA LITE, are the latest constant wave UV-C surface and air disinfection technology designed specifically for all areas of the hospital and healthcare environment.

The Tower are completely mobile, making it perfect for disinfecting ambulances and suitable for disinfecting patient rooms, operating theatres and all over the hospital, or even in airplane cabins, hotels, corporate offices, conference rooms i.e. any space.

They give optimum results along with a fast and effective germicidal dose of continuous wave UVC energy killing germs and pathogens when and where you want. The disinfection Tower are perfect for use all over the hospital, in even the smallest spaces. It can be adjusted for any height between covering floor to ceiling and eliminating shadows, for more thorough disinfection. The Tower completely remove the guess work and ineffectiveness of regular cleaning.

Kill Viruses like COVID-19, MRSA, SARS, EBOLA and other germs.

Faster Disinfection	**Faster Disinfection**	**Extends to Shadowed Areas**
Full 360° Coverage	**Floor to Ceiling Disinfection**	**Easy to Transport**

Comparison Chart

Description	Yoddha		Yoddha++		Hygeia		Hygeia Lite
Tubes	39W	75W	39W	75W	39W	75W	75W
Electrical Specifications	110V	90V	110V	90V	110V	90V	90V
	425mA	800mA	425mA	800mA	425mA	800mA	800mA
	156W	300W	312W	600W	234W	450W	225W
Number of Tubes	4		8		6		3
Displacement	-		900 mm		-		-
Numbers of Wheels	4		4		4		4
Weight	24 kg		24 kg		33 kg		20 kg
Height	1565 mm		1400+900 displacement mm		1467 mm		1500 mm
Radiation	253.7 nm		253.7 nm		253.7 nm		253.7 nm
Total Consumption = 230V A/C ±10% 50Hz							
Standard life of 1 tube = 10000 hrs.							

YODDHA

A minimalistic UV-C tower with powerful UV-C technology used for disinfection which eliminates the virus or infections within its 6-8ft radius.

A human friendly operating system with a control unit which is easier to use and comprehend.

Key Features:

- 4 tubes of 39W/75W each which radiate the wavelength of 253.7nm which is ideal for disinfection.
- It is mobile with 4 castors which makes it easier to move it around.
- Remote control with smart indicators which indicate the tube status along with a ON and OFF timer with a smart reverse countdown feature for better accessibility.
- Disinfects the area within the 6ft-8ft radius of the machine.
- Disinfects the entire room in 20-30 minutes. (Approximate Room Area: 250 sq.ft.)
- Towers completely remove the guess work and ineffectiveness of regular cleaning.
- Ensures 99.99% disinfection.
- It has no ozone affecting emission or damage to the environment.
- Emergency stop wireless remote optional.

YODDHA++

A colossal UV-C implied tower with an extendable actuator comprehended technology which ensures the spread of light in every shadowed place.

It has 8 tubes of 39W/75W each of the wavelength 253.7nm which is ideal for disinfection With 4 castors which makes it easier to move it around. It has an actuator implied technology which extends its top up to 900mm maximum which has tubes inside to increase the spread of the light.

Key Features:

- It does not require any additional repositioning after room set up.
- 4 tubes installed in the body and extra 4 at the top makes sure the light has reached every nook and corner of the room.
- At a click of a remote control button it extends its top up to the desirable height [900mm max].
- On and Off timer which ensures human safety always.
- Ensures disinfection of the whole room along with the ceiling as well as the floor which many UVC towers fail to do.
- It has a retractable top which is useful in a room with any given height.

  Disinfects the entire room in 20-30 minutes*. (Approximate Room Area: 500 sq.ft.)

- Towers completely remove the guess work and ineffectiveness of regular cleaning.
- Ensures 99.9999% disinfection.
- It has no ozone affecting emission or damage to the environment.
- Emergency stop wireless remote optional.

HYGEIA

One of a kind Ultraviolet-C disinfection tower with a built-in MINI-AHU which sterilizes the air in the room along with the disinfection of the surfaces. It has 6 tubes of 39W/75W each with a built-in AHU.

Key Features:

- 6 tubes of 39W/75W each which radiate the wavelength of 253.7nm which is ideal for disinfection.
- It is mobile with 4 castors which makes it easier to move it around.
- It encompasses a MINI-AHU which has a non-woven poly-5 microns pre filter, silver impregnated carbon A.C filter which has the efficiency of 99.97%-0.3 micron.
- It does not require any additional repositioning after room set up.
- On and Off timer which ensures human safety always.
- Ensures 99.9999% disinfection.
- It has no ozone affecting emission or damage to the environment.
- Ensures the disinfection of air as well as the surface in the radiation radius.

  Eliminates the need of purification of air because of the built-in features.
- Towers completely remove the guess work and ineffectiveness of regular cleaning.
- Disinfects the entire room in 20-30 minutes. (Approximate Room Area: 400 sq.ft.)
- Emergency stop wireless remote optional.

HYGEIA LITE

An Automatic UV-C Disinfection revolving system which disinfects the room within 10-15 minutes. HYGEIA LITE is a revolving system which is effective in destabilizing the growth of viruses like COVID, SARS, MRSA AND EBOLA. They give optimum results along with a fast and effective germicidal dose of continuous wave UVC energy killing germs and pathogens when and where you want. The disinfection device is perfect for use all over the hospital, in even the smallest spaces. It can be adjusted for any height between covering floor to ceiling and eliminating shadows, for more thorough disinfection. The device completely removes the guess work and ineffectiveness of regular cleaning.

Key Features:

- 3 tubes of 75W each which radiate the wavelength of 253.7nm which is ideal for disinfection.
- It is mobile with 4 castors which makes it easier to move it around.
- Remote control with smart indicators which indicate the tube status along with a ON and OFF timer with a smart reverse countdown feature for better accessibility.
- Disinfects the area within the 6ft-8ft radius of the machine.
- Towers completely remove the guess work and ineffectiveness of regular cleaning.
- Ensures 99.99% disinfection.
- It has no ozone affecting emission or damage to the environment.
- Disinfects the entire room in 10-15 minutes. (Approximate Room Area: 250 sq.ft.)
- Emergency stop wireless remote optional.

ARTEMES

Artemes is a revolutionary disinfection system which sanitizes and disinfects our belongings thoroughly. Artemes uses UV-C light which is used for purification of air in hospitals and purification of water. It's modern and stylish look complements the surroundings well a doesn't seem like a typical industrial disinfector. Its name was derived from the great warrior Artemes. The product will help us win this war against the Pandemic like a warrior by keeping our belongings clean.

The UV-C type technology has been researched for more than 10 years and now it's been proven that it is useful and sufficient for breaking down any virus (SARS, MRSA, EBOLA, COVID, etc.) so that it can't reproduce. The product uses the same technology to disinfects the products that we use daily.

The product has various time modes which can be used according to the size of the product that you want to disinfect

1 min : **Small products**
(phones, wallet, keys, masks, etc.)

2 min : **Medium sized products**
(fruits and vegetables, milk bags, kirana item, etc.)

3 min : **Large sized products**
(laptops, bags, purses, delivery packages, etc.)

Key Benefits:

- Completely removes the guesswork and inaccuracy of human cleaning.

- Leaves no residue.

- Needs no refilling or has any refilling properties.

- No human touch and can be used for 10000 hrs.

Electrical Specs:

- 230V ±10% 50 Hz

- 4 tubes of 8W each with 253.7nm constant radiation.

Faster Disinfection

CORONA FIGHTER
Kills 99.9% Viruses

MINI YODDHA

A state-of-the-art mini-UV-C disinfection tower which efficiently disinfects a small cabin or a small room within minutes.

Light weight and a modern design are the salient features of the tower along with its capacity to neutralise the spread of COVID-19.

CONTROLLER :

Smart ON/ OFF switch, Tube hour's indicator, 5 minutes interval timer, Countdown Timer for activation of the tubes as well as the tower.

Faster Disinfection

Full 360° Coverage

Extends to Shadowed Areas

Easy to Transport

Technical Specifications:

Total Consumption	: 230V A/C ±10 % 50Hz
No. of Tubes	: 4 (72W)
Total Height	: 600 mm
Weight	: 5 KG
Radiation Wavelength	: 253.7nm

MR-2

Patient Warming System

MR-2
Patient Warming System

Patented "WARM SAFE" Technology incorporated in the MR-21 that prevents thermal injury to patient during prolonged use of the blanket below patient. This Patented technology ensures that the heat is uniformly transferred to patient, simultaneously it ensures that thermal injury due to continuous pressure & immobility during prolonged surgeries are avoided. This technology relieves the Anesthetics / Surgeons from the fear of Ischaemia caused due to pressure. Clinical data shows that during prolonged surgery, thermal injuries have caused where pressure was greatest and also from the result of prolonged immobility of the patient.

To circumvent this issue, "WARM SAFE" technology for absolute safety of the patient, and ensures that the mattress temp. never exceeds 38°C.

Note:
Size of the Blanket can be varied as per users requirements

Features & Benefits of **MR-21**

- MR-21 blanket incorporates technologically advanced conductive heating method that effectively maintains Normothermia, or normal body temperature in anesthetized patients.
- MR-21 warms the patient from underneath, hence allows full access to surgical team.
- It warms the patient and not the operation theatre.
- The mattress temperature can be easily selected from 26°C to 40°C by means of feather touch keys.
- 3 Digit LED display continuously displays the actual Temperature of Mattress.

- MR-21 blankets are absolutely safe as the blankets works on 12 / 24 Volt DC.
- It is water proof, shock proof, easily foldable & has incredible long life.
- Control unit can be mounted on IV pole or on trolley.
- Provided with over temp alarm and auto cut off facility.
- MR-21 comes along with 2 Autoclavable cotton mattress covers.
- MR-21 is Light weight, easily foldable, hence storage is easy.
- It requires no consumables.

Technical Specifications:

Voltage	:	230 Volts AC ±10% 50 Hz. Isolated Current
Working Voltage	:	12 / 24 Volt DC
Heating Control	:	Servo Proportionate System.
Digital Display's	:	3 Digit display that indicates the Temp. of warming mattress
Sensors	:	One Sensor incorporated in MR-21 to Sense the Heater Temp.
Temperature Range	:	26 °C to 42 °C. Temperature display in °C & °F.

Clinical Studies have shown that the most important factor that caused Ischaemia is temp and exposure time. The lowest direct contact temperature responsible for a cutaneous burn in human is 44°C (Mortiz, 1947) with irreversible injury occurring after six hours of exposure, below this threshold temperature blood flow to the tissue tends to affect temp. distribution in the skin only slightly. However, once the threshold temperature has been reached Ischaemia caused by pressure or surgical techniques may well increase the rate at which injury occurs.

Also higher temp. setting may cause injury in short time.
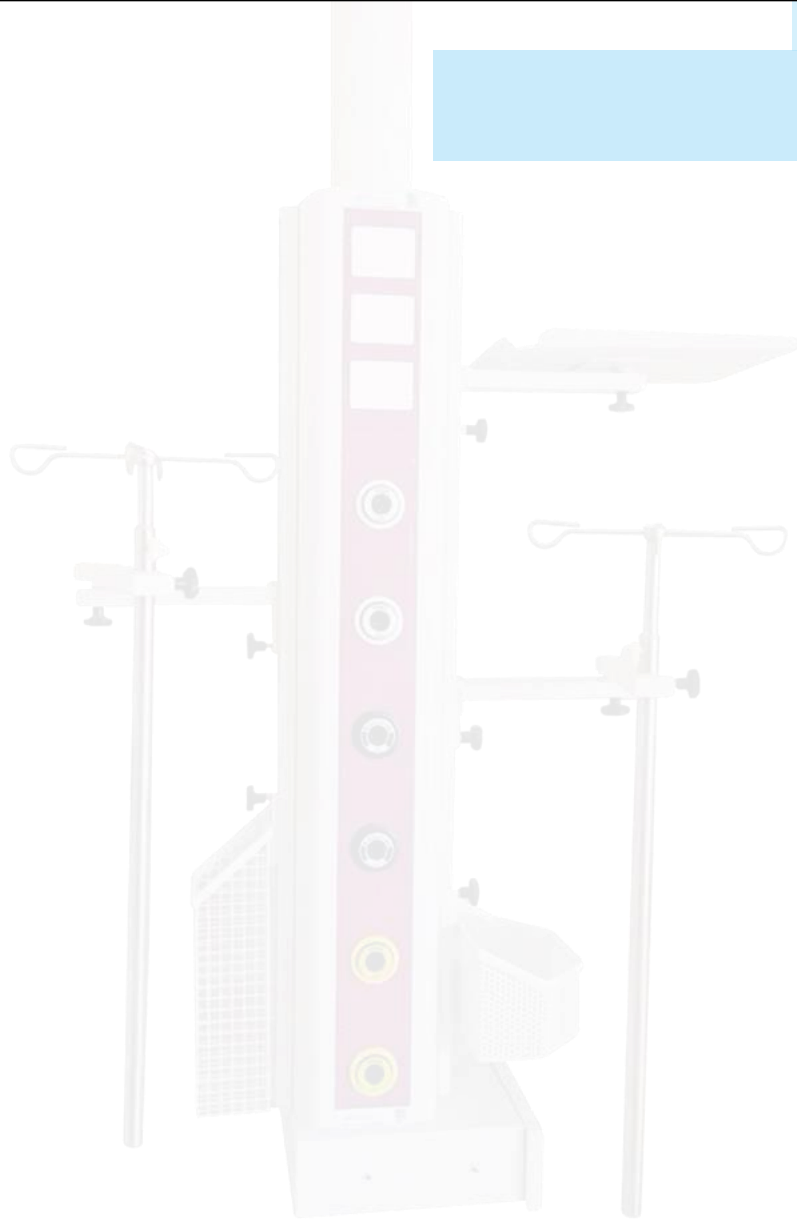
Feather Touch Keys are provided for following:

- Temp in Deg Centigrade
- UP Key
- Down Key

Indications provided for following Error's:

- Heater ON
- Sensor Fail
- Over Temp.

Your nearest contact: