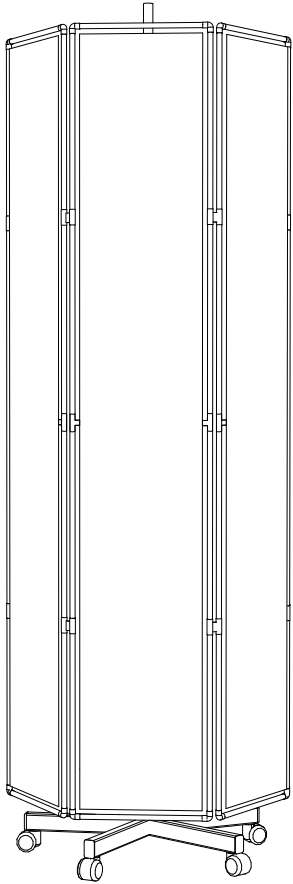


**WHAT ABOUT
FOR
COVID_19**

Helios_DIY



Helios_DIY is a hospital tool to help staff and patients during an emergency recovery.

Helios_DIY is helpful, smart, hi-tech and quick to assemble.



WHAT ABOUT FOR COVID_19

Today's global situation caused by the spread of COVID_19 is creating a defeat for national healthcare systems. These problems are found both in states with a powerful economy and especially in the most fragile ones. The lack of beds needed for every level of the disease cannot be made up for in almost all nations. Many cities are working to build emergency hospitals to receive every patient. Governments are building new hospitals inside sheds, sports arenas, hangars or in temporary structures, such as tents or containers located in the areas surrounding the hospitals. Every nation is coping with this problem by transforming spaces incongruous to hospital function.

The problem of the missing of the minimum medical equipment necessary for all patients is being encountered. Hospitals are overloaded with work, to the point of exhaustion; medical staff are unable to treat all patients adequately and provide the necessary attention to each guest.

Companies manufacturing medical machinery and equipment have increased production of all necessary equipment, and many companies in other industries have converted production to manufacture things like masks and respirators, but also disinfectants, gloves and disposable gowns.

In emergency hospitals, healthcare workers are under constant stress to try to provide the necessary care for everyone. The virus also has an extremely dangerous airborne transmissibility, so healthcare workers are at high risk working on contact with infected patients.

Helios_DIY DEVICE

Helios_DIY is a high-tech multipurpose tool for the support of medical staff and focused on the patient's well-being.

Inside **Helios_DIY**, some technological mechanisms help doctors to acquire health data of the patient. Patients can take advantage of the technological tools to increase their well-being inside the hospital and be in contact with the outside world.

Ease of installation is at the heart of **Helios_DIY's** ease of use. You can install proposed plugs and replace with whatever else is needed thanks to smart connectors.



Light Therapy

Also known as phototherapy, is a treatment in which the patient is exposed to an artificial light source. The therapy primarily treats major depressive disorder with seasonal patterns (formerly known as seasonal affective disorder, or SAD). Light is used to treat other conditions, including sleep disorders and other types of depression. The use of these lamps would help the patient to settle in dimly lit places.

← Beurer TL 100 daylight therapy lamp



Action-Camera

The video camera is an essential tool to monitor the patient during the Helios_DIY period of stationing. The data read from the camera allows the medical staff to avoid having to visit the patient. Besides, a higher amount of data can be recorded and included in the medical record.

← GoPro HERO8



Tablet

The patient can use the tablet to connect with family and friends during the hospital stay. The period inside the hospital can be long and tiring, and for the well-being of people, it is necessary to be able to stay in contact with the outside world but avoiding any contact. The patient can make video calls, read the news or distract themselves.

← iPad Air 10.5 inch



Arms + Clamp

The devices are connected to the Helios_DIY supporting structure using practical mechanical arms readily available, like the photographic ones. The mechanical arms contain the devices to be able to move for the widest fruition.

← Manfrotto Arm With Bracket + Quick-Action Super Clamp

Helios_DIY

FEATURE

Helios_DIY has unique and multifunction digital and constructive features. It is designed for high connectivity to the hospital to acquire all the data in the patient's medical records.

The smart construction system does not require previous capabilities, and assembly times are reduced to a bare minimum. Following a few easy steps, you can assemble **Helios_DIY** and use it immediately.

Helios_DIY is designed for the well-being of patients. Inside it is also possible to add tools that increase the patient's happiness. COVID_19 patients cannot have contact with the outside world and take care of themselves. Inside **Helios_DIY** it is possible to add tools for personal care or to have gifts and items handed out by families.



Wi-Fi

All installed devices have a Wi-Fi connection which you can manage the devices. The web connection is essential for the use of tablets for video calls or entertainment. The connection of the devices to the wireless network of the hospital allows access to servers and digital databases.



Cloud

The installed electromedical devices detect the patient's biological parameters and send them to a dedicated platform. All medical records data can be implemented remotely without patient contact and uploaded to the cloud. The data can also be transmitted to competent and authorized research institutes and used in scientific research.



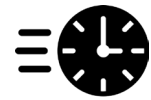
Smart Assembly

We designed the entire structure to be easily carried. Transportation and assembly of the entire tool is a milestone. The emergency does not allow complicated transport and construction times. The project was born for the ease of operation.



No Tools

The entire assembly process does not require any tools. It can be assembled entirely by hand without the use of screwdrivers, hammers or wrenches. We have designed a simple and intuitive system of assembly of all parts, only through simple interlocking elements or smooth clamps to be installed manually.



Fast!

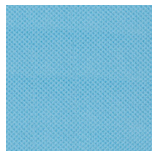
Assembly times are speedy. In just a few minutes, you can build with easy and simple steps. Not wasting time during the emergent is a fundamental step to enjoy the benefits of the project immediately.

Helios_DIY SETTING

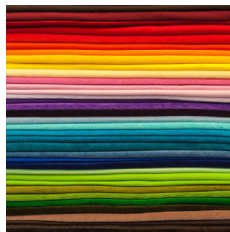
Helios_DIY consists of a few simple materials. Our will is to present a project that can be built with different materials, not depending on where you buy or brands. You can build **Helios_DIY** in any place where you can find materials similar to those we indicated. The cladding, the walls and the supporting structure can be assembled at will or with different types of materials. We desire to offer a project that you also implemented and modified by the health care personnel who use it according to their needs. The design is made available to the needs of the emergency, as well as our project. The versatility of **Helios_DIY** is an essential element to meet the needs of all the hospitals that be equipped.

Textile

Helios_DIY opens with two jointed doors creating a partition for the patient's privacy. The two large doors become a scenography that can be built with colored and decorated fabrics. The panels of Helios_DIY are covered in fabric on both sides. The fabrics must be fire fireproof, waterproof and washable and comply with current health requirements. The exterior of the structure can be covered in hospital fabric, while the interior can be composed of different textures. The fabric is lined on the structure and then closed with practical and straightforward hooks.



Front side



Inner side

DIY

DIY (Do It Yourself) is the name but also the soul of the project. Assembling all the components is quick and easy and requires only pipes and connections readily available in stores. The dimensions of each element are standard and modular. Joining all the elements does not require any previous skills. There are only simple joints, hooks that join the panels and clamps to fix the structure for maximum ease of assembly.

Tubes



Connector

Install

The design idea is to be able to create Helios_DIY in every hospital structure in a practical way and with the smallest quantity of elements. The support structure can be created new or an IV holder can be used. IV holders can only be easily obtained in hospitals. The structure composed of tubes and fabrics is attached to the IV holder creating a small box. The devices are attached to the IV holder pole with mechanical arms. All electrical equipment can be stored inside a convenient cable box. There is also the possibility to wire and connect a battery.

Cable Box

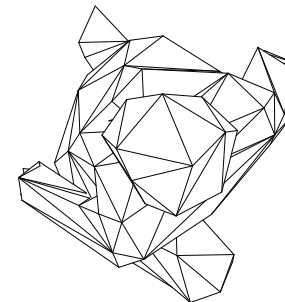
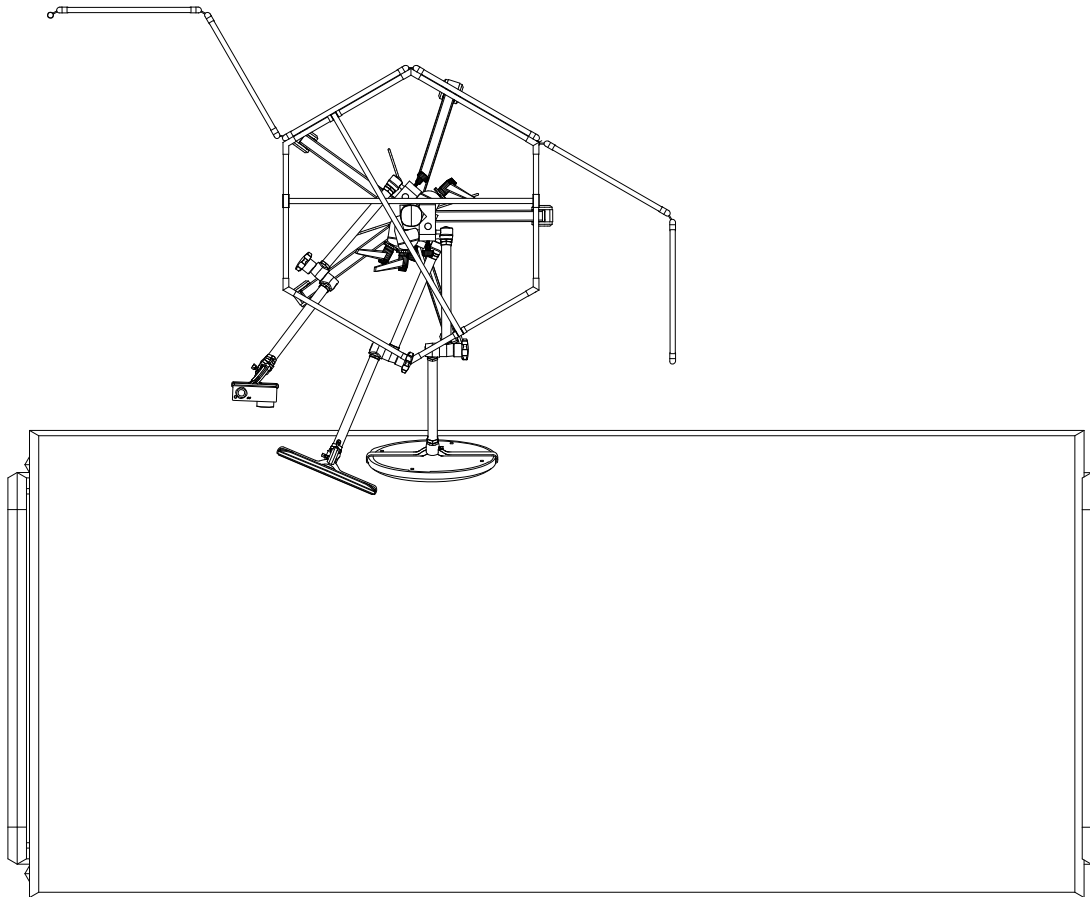


Drip Holder

Helios_DIY

TOP

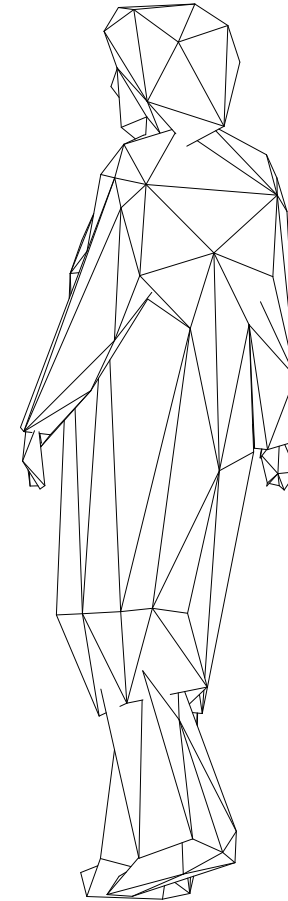
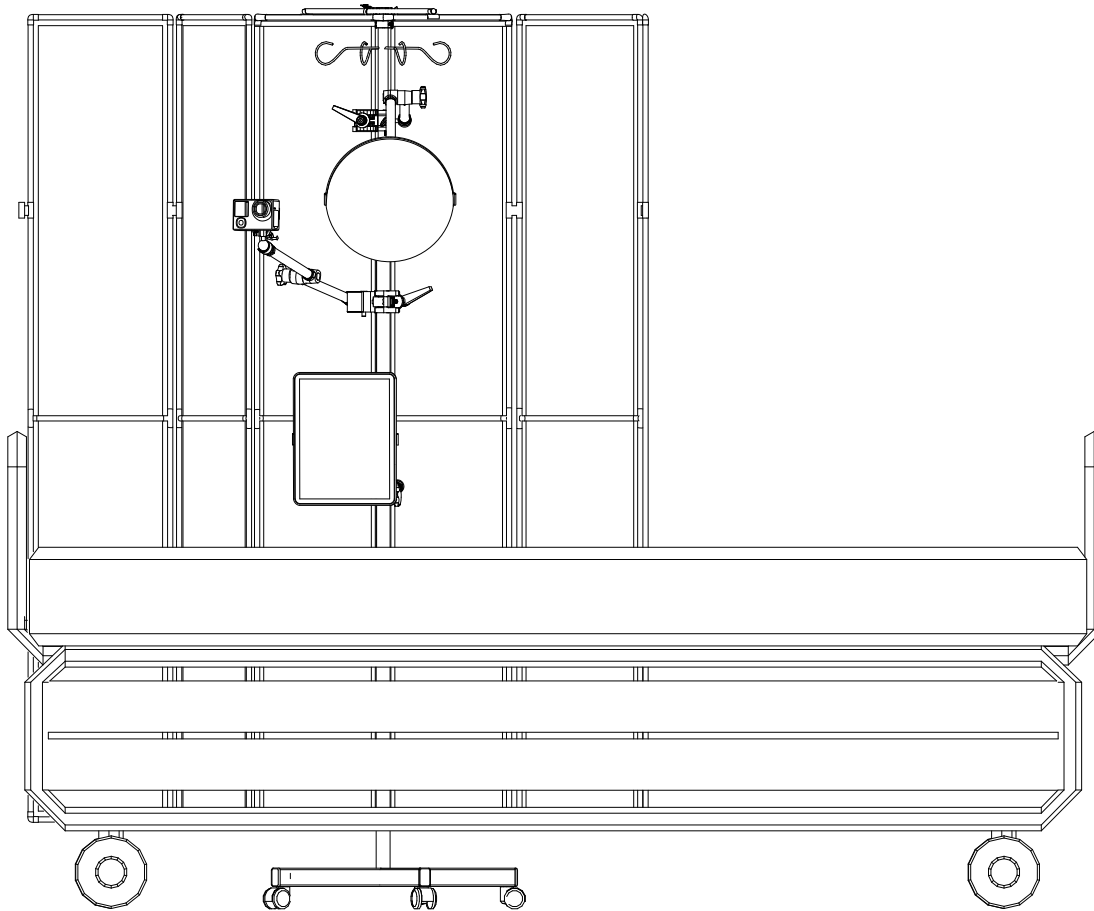
When **Helios_DIY** is open allows the patient to access multiple functions, such as a Light Therapy lamp and tablet for video calls and video screening. The Action-Cam transmits via Wi-Fi live essential data to a central computer or other devices.



Helios_DIY

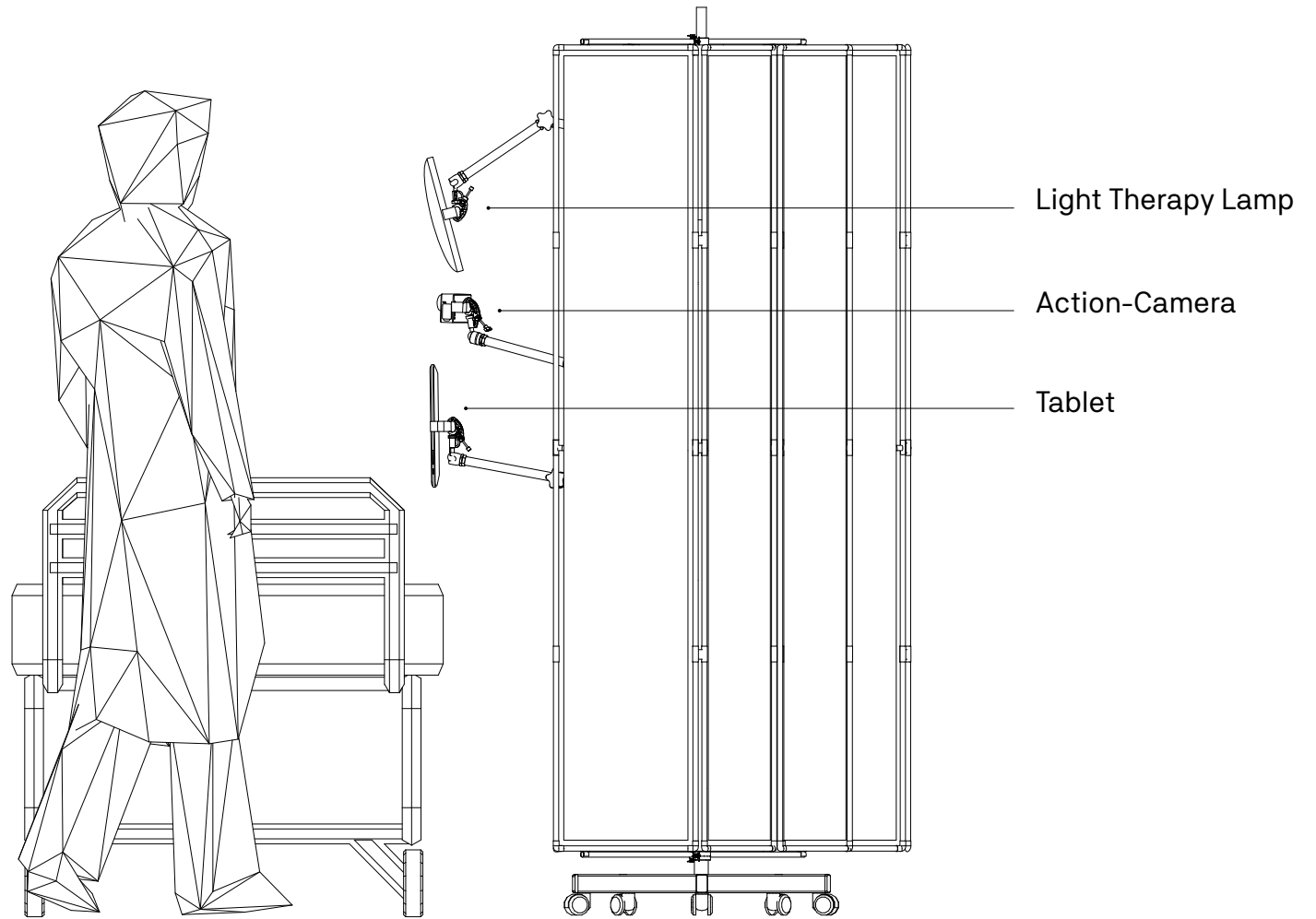
FRONT

Helios_DIY is at easy reach of medical staff and patient, and you can move **Helios_DIY** from bed to bed thanks to casters.

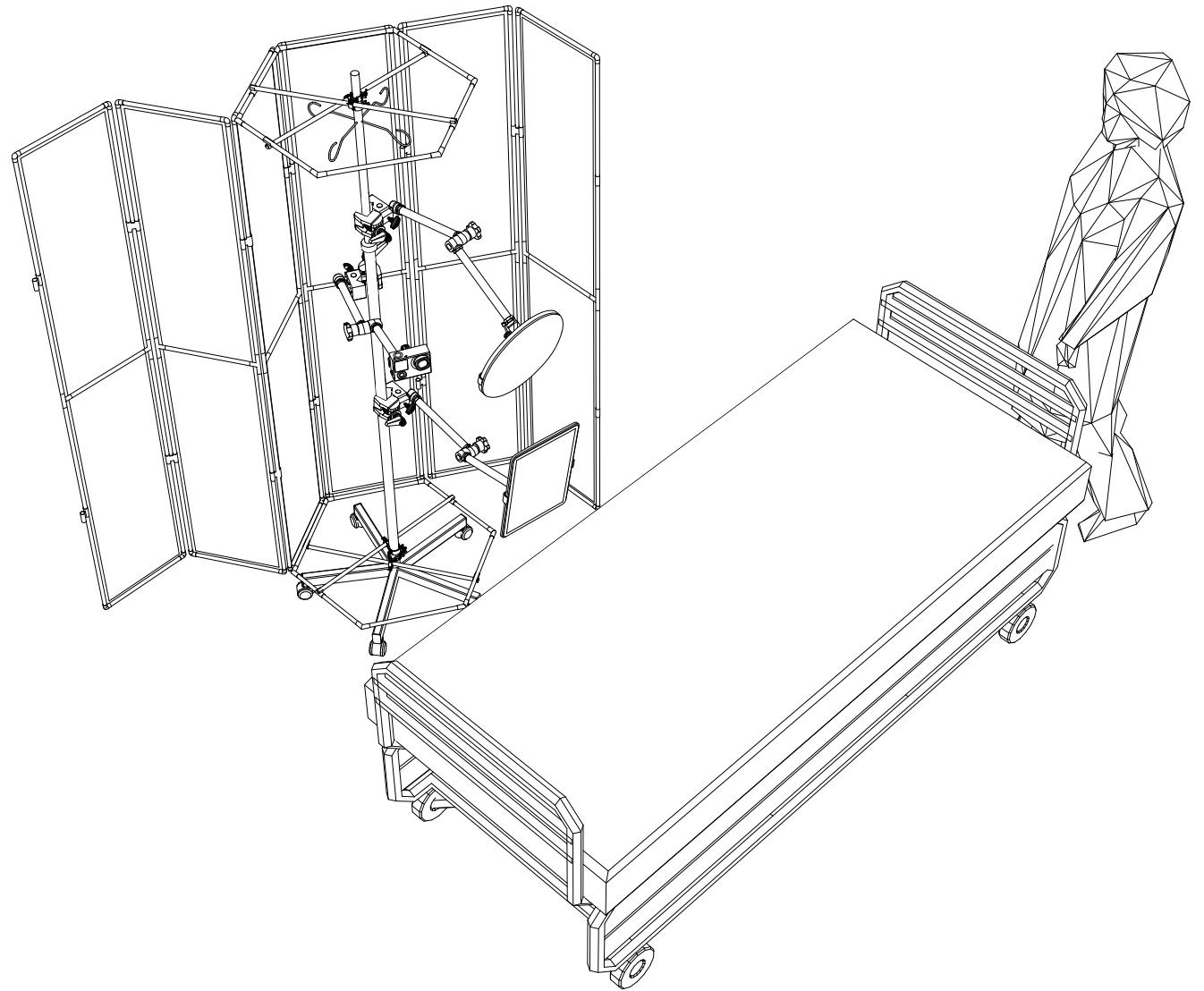


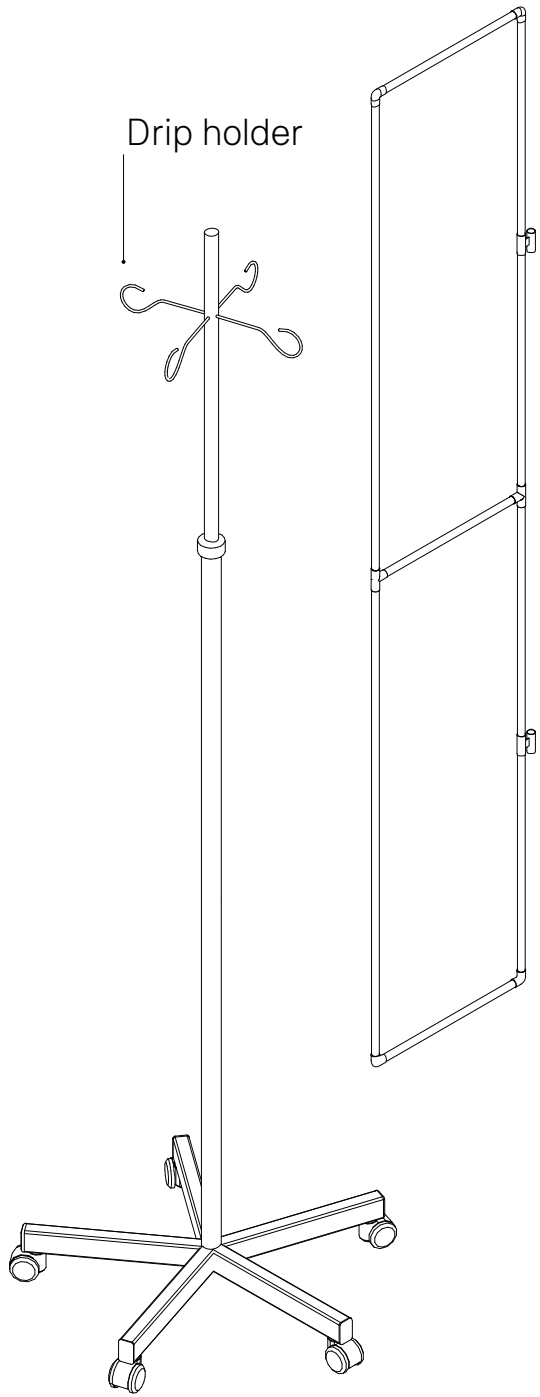
Helios_DIY

SIDE



Helios_DIY





Drip holder

Panel

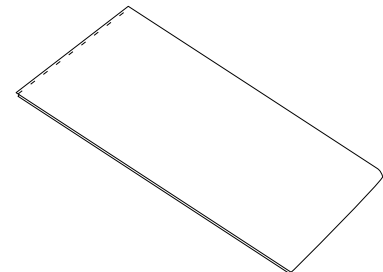
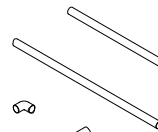
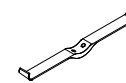
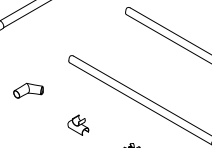
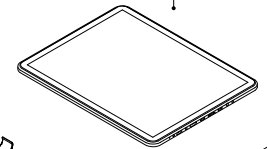
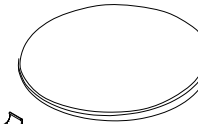
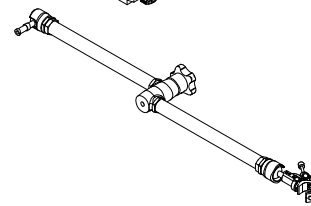
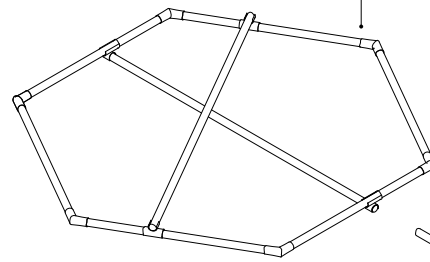
Base-Top frame

Clamp

Support

Therapy lamp

Tablet



Wi-fi cam

Connectors

Swivel clamp

Tubes

Arms + Clamp

Textile

Let's develop it together!

WHAT ABOUT

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