

DCUR

(Device Charge Unit Recognition)

User Manual

V1.3

Revision History

Revision	Released Date	Description	Remark
V1.0	2025/09/22	Preliminary	
V1.1	2025/11/08	Update Product Name Update User Operation Update Box Compatibility	
V1.2	2025/11/19	Update Electrical	
V1.3	2025/12/02	Update FCC Warning Add IC Exposure	

Contents

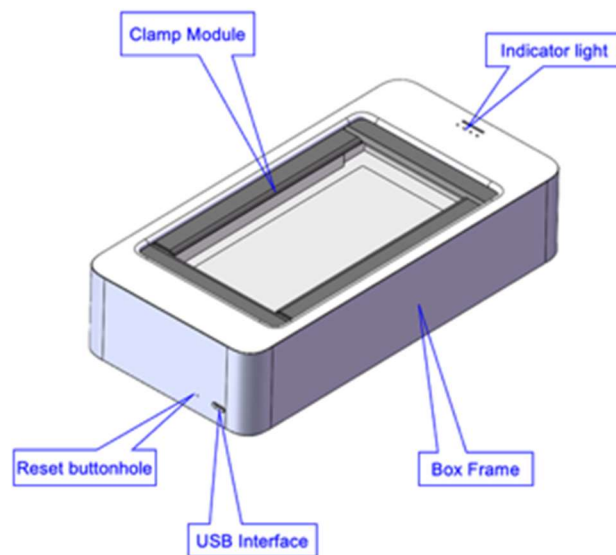
Overview -----	P4
User Operation -----	P5
Corsica DCUR Spec Sheet -----	P7
Internal Fixture Critical Components -----	P8
Wiring Diagram and Connection -----	P9
BOX Module -----	P11
Clamp Module -----	P12
Fixture Assembly -----	P13
User Guide -----	P14
Regular Operation & Device Compatibility -----	P14
Coil-Coil Perpendicular Distance -----	P14
Coil-Coil Radial Distance -----	P15
Box Compatibility -----	P15
Shipping & Handling -----	P16
Environmental Requirements -----	P16
Storage -----	P17
Cleaning -----	P17
Maintenance and Malfunction -----	P18
Service and Repair -----	P18
Module Swap -----	P18
Grounding -----	P19
Waterproof & Dustproof -----	P19
FCC Warning -----	P19
IC Warning -----	P20
NCC Warning -----	P21
CE RED Requirement -----	P21
ANATEL Warning -----	P21
사용자 안내문 -----	P21
Thailand NBTC Certification -----	P22

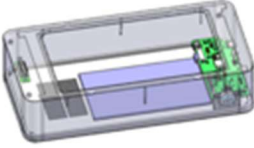
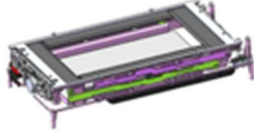
Overview

The **Corsica Device Charge Unit Recognition (DCUR)** is a fixture designed to recognize and auto charge the repaired iPhone when iPhone box is placed into the device. If the correct iPhone is inside the box, it will automatically turn on and charge.

The fixture consists of 1 wireless Qi chargers, PCBA and LED light that are interconnected and controlled through a controlled board and powered via an internal battery. The battery can charge using USB Type C. Once the battery is fully charge, fixture can work as a handheld device and can be moved around freely.

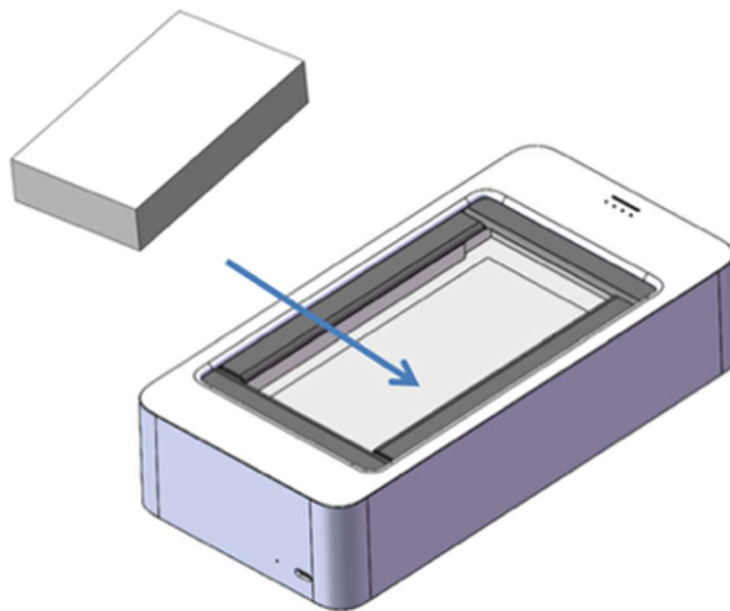
The entire fixture casing and mechanism are made of plastics. There are consist of 2 main modules (Box and Clamp) to be assembled as operation fixture. The Clamp Module is designed with gearing system to allow iPhone to be clamped and centered when the iPhone Box is inserted. The gearing system is also named as centering mechanism. The gearing system will automatically center the iPhone Box and start detecting the iPhone. The gearing system comes with damper to allow centering system to close slowly. The detection will be controlled by controlled board with the charger being installed inside the iPhone Box. It will have LED to determine the condition of the charging. The device is equipped with micro switch to ensure present of the iPhone Box. If the incorrect iPhone or empty Box is placed into the device, the charging will not turn on.



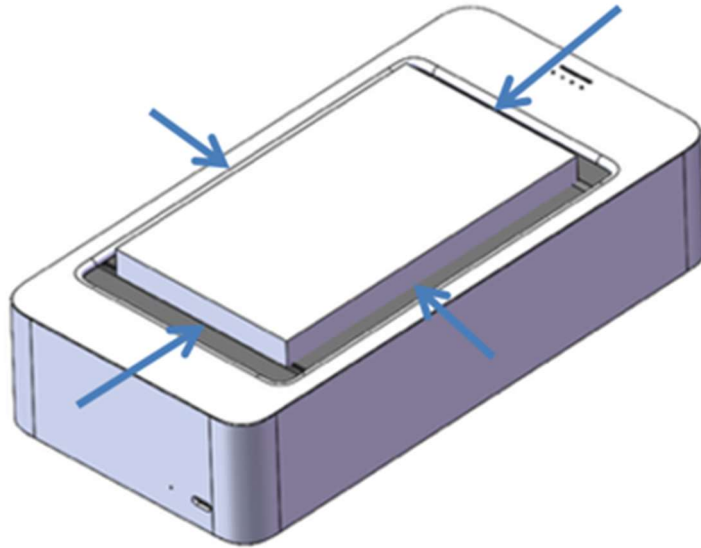
Fixture Module	Picture
Box Module	
Clamp Module	

User Operation

First, Insert and lightly press the box...
With the serial number facing up and toward the LED lights.

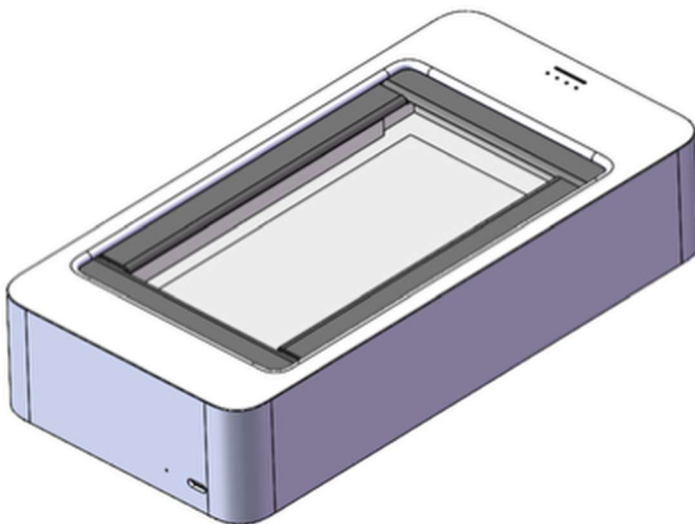


Second, Clamp and perfectly center the phone above the Qi charger. The pill shaped LED light will automatically turn on. After 30 seconds it is safe to assume the phone is receiving a charge if the LED is still solid. If after 30 seconds, the pill shaped LED starts flashing, it's indicating that the phone is not receiving a charge.



If the pill shaped LED is solid after 30 seconds, the employee should continue with diagnostics. If the phone is successfully charging, but the diagnostic is unsuccessful, it's indicating that an in genuine mobile phone is in the box, and should mark the end of the test.

If the phone is successfully charging, and the diagnostic is successful, the test has been completed.



Corsica DCUR Spec Sheet

Model #

310-062-455-000000

General Info

Dimensions: W x H x D

5.13 x 2.23 x 10.25 (in)

130.18 x 56.68 x 260.40 (mm)

Weight: 1.95 lbs / 0.9 kg

Electrical

AC Input: 100-240 VAC

DC Voltage: 5-15 V

Max Input Power: 45 W

Working Power: 15 W

Single Wireless Charger Output: 5W Max

Wireless Working Frequency Range and Maximum Transmission Power for CE RED

Installation

It is the handheld device and cannot be stacked when used. The battery needs to be charged when low power.

Required Accessories

- AC Power Cable (region-dependent) to USB-C connector to the device.

Brand

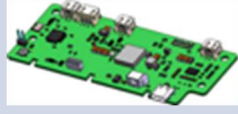
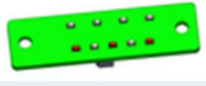
WORLD AUTOMION



Service

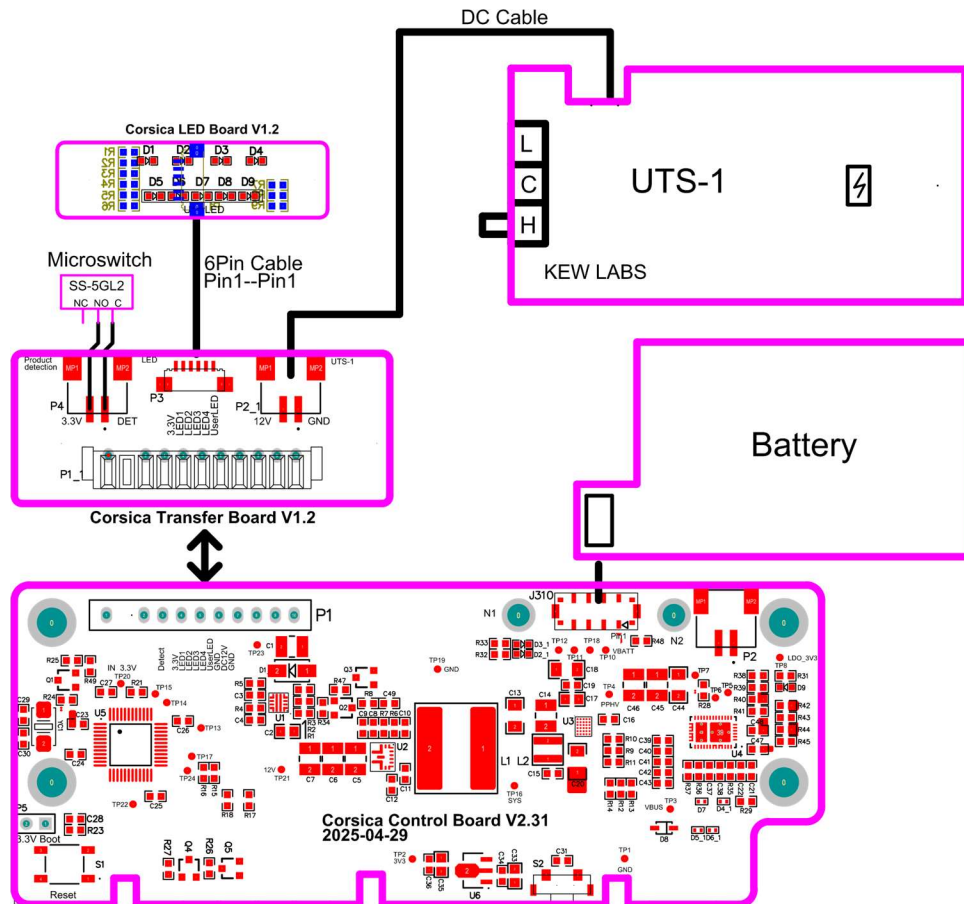
The Corsica DCUR is designed to be serviced if the mechanism malfunction and PCBA electrical function is not working; this to help keep the fixture in service if the centering mechanism or charger are broken or electrical controller is not working properly. If internal components are broken, it may require further service and electrical work.

Internal Fixture Critical Components

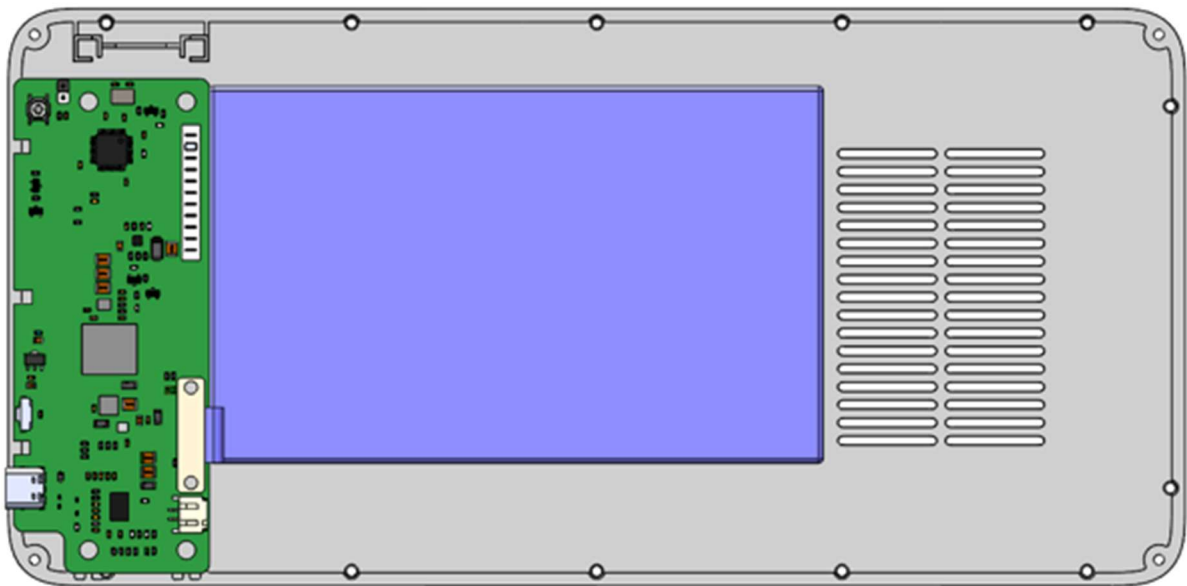
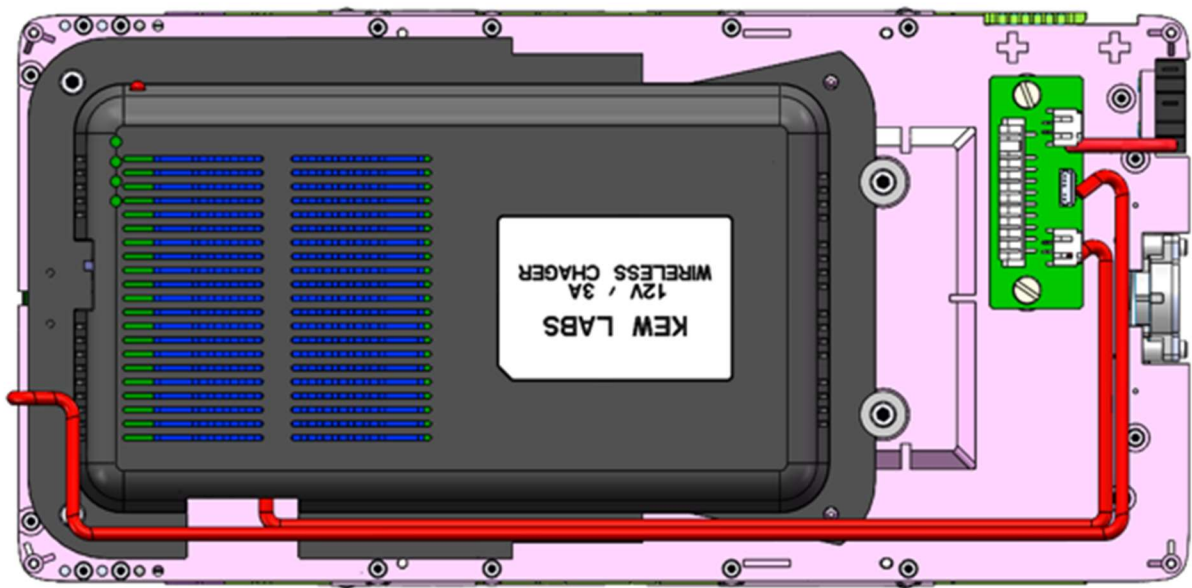
Item	Definition	Brand	Manufacture	Supplier	Specification	Qty.	Picture
1	Control PCBA	World	China	World	Corsica Control Board V2.31 PCBA	1	
2	Battery	DESAY	China	World	X3610 Pack	1	
3	Wireless Charger	Kew Labs	USA	World	UTS-1 (Thin)	1	
4	LED PCB	World	China	World	Corsica LED Board V1.2 PCBA	1	
5	Micro switch	OMRON	China	World	SS-5GL2	1	
6	Wiring PCBA	World	China	World	Corsica Transfer Board V1.2 PCBA	1	

Wiring Diagram and Connection

Wire diagram illustration. It shows connection between control PCBA board with the UTS-1 charger, battery and PCBA LED board and micro switch.

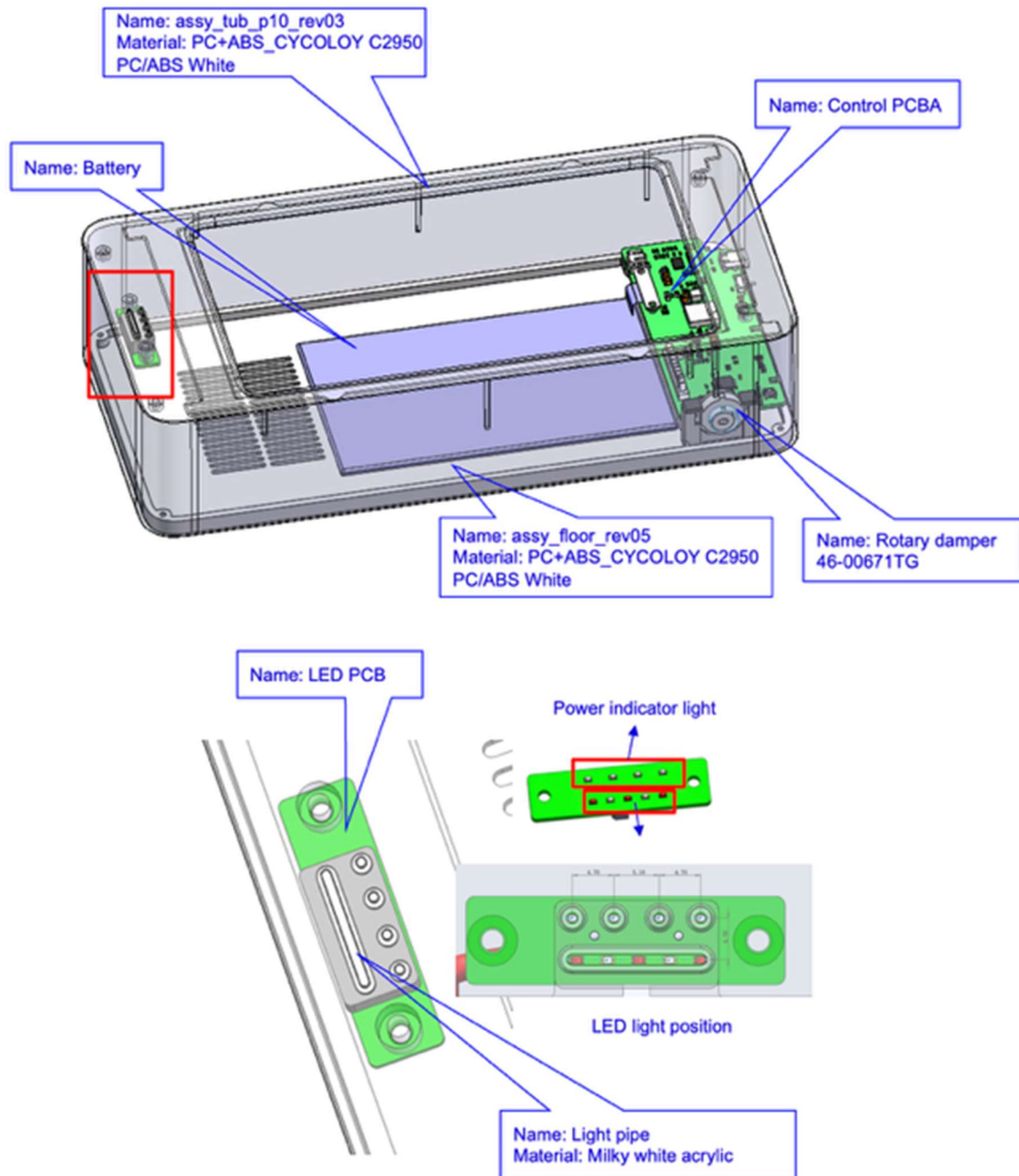


Wiring connection with PCBA and charger, PCBA and battery are show on below pictures.



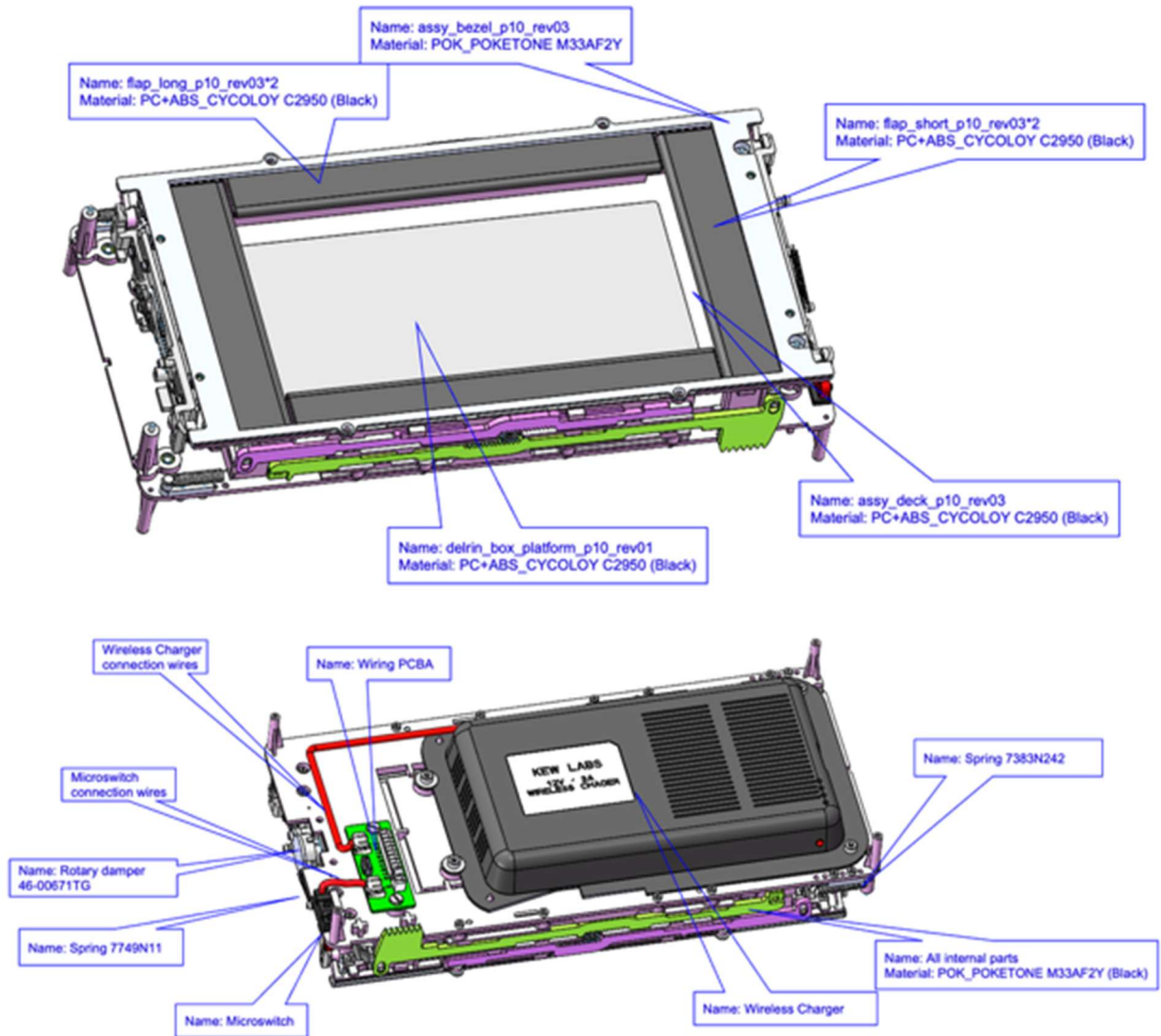
Box Module

The Box module consists of outer TUB, Floor, Control PCBA, LED PCBA and Battery.



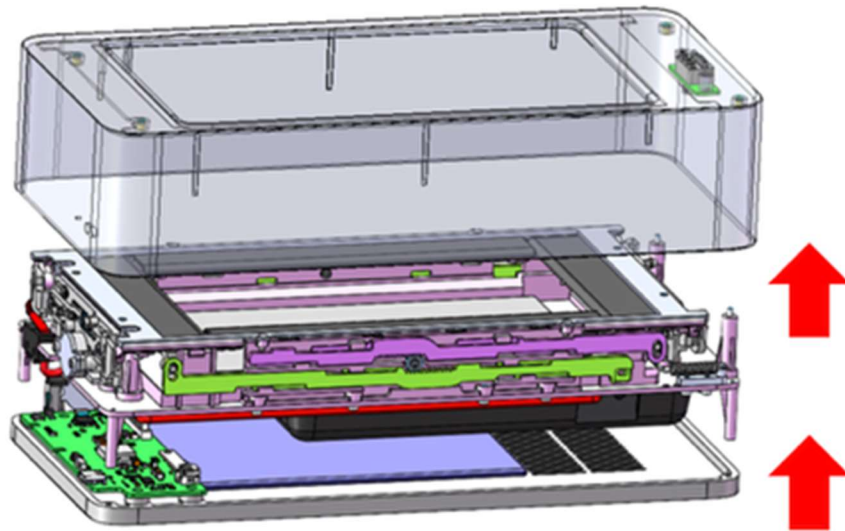
Clamp Module

The Clamp module consists of centering clamp mechanism with gearing system, Kewlab Qi-charger and PCBA board.

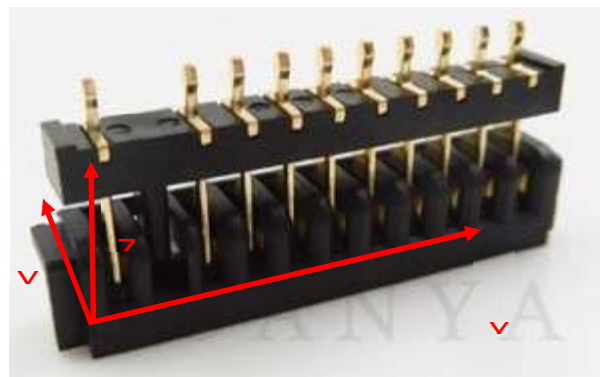
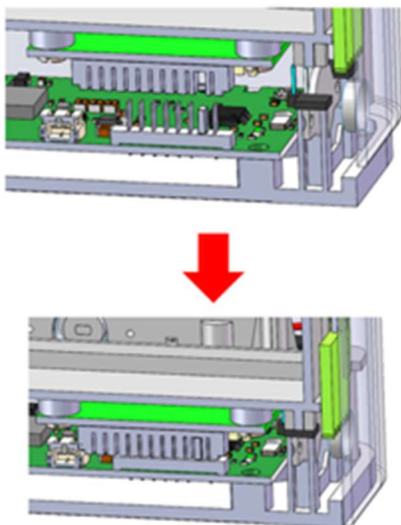


Fixture Assembly

The fixture assembly of the entire unit is to insert the Clamp Module into the Box Module. First is to insert the Clamp Module into the Tub and follow by Floor plate and tightening by 4x screws at each corner.



By adding a wiring PCBA and connecting it through male and female connectors, the wires between the Clamp Module and the Box Module can be removed. Below pictures show by inserting the female connector of wiring PCBA into the male connector of the control PCBA.



User Guide

Before Applying Power

Verify wall power is 110 or 220V

Verify the power cable is certified, in good condition, not frayed or torn.

If a power strip is used, ensure it is certified, in good condition, not frayed or torn.

Verify the USB cable is certified, in good condition, not frayed or torn.

Regular Operation & Device Compatibility

Operation of the fixture with wireless devices for charging & recognition is to be controlled by an external computer and software to meet customer's unique demands.

Coil-Coil Perpendicular Distance

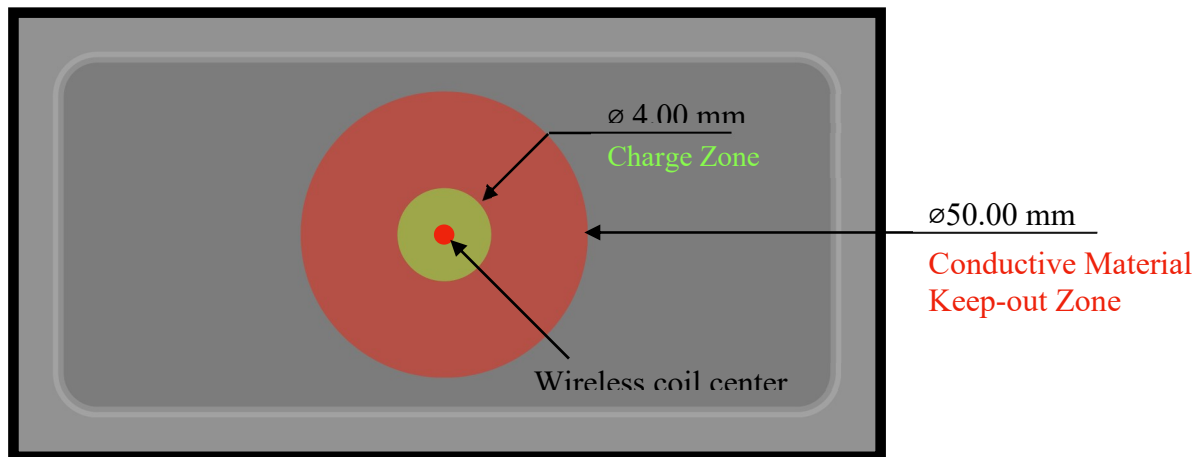
The use of an off-the-shelf wireless charger leads to a minimum and maximum distance between the coil of the wireless charger and the charging coil of the device. This range has been tested to work between 4-17 mm. A plate is built into the fixture of a thickness of 9.2 mm to help bring in scope a variety of devices. This means that devices must be between 0 – 7.8mm from the mid plate for use in the DCUR.



Coil-Coil Radial Distance

The lateral distance between the charger coil and the device coil must be <4 mm for reliable charging.

This makes the charge zone effectively a 4mm diameter from the charger coil center.



SAFETY WARNING:

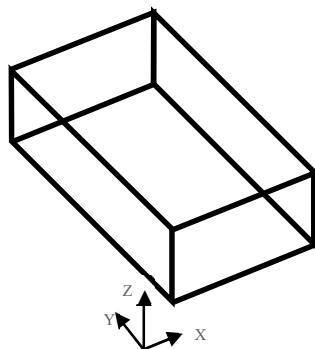
Do not place any conductive materials in a 50 mm diameter zone around the charger coil center.

Placement of any conductive material in this zone may result in non-functional charging, over-heating or fire safety risks.

Box Compatibility

If tested and approved by the end customer, some wireless devices may be placed into the fixture while inside of their packaging boxes. The device charging coil must still meet the coil-coil perpendicular and lateral distance requirements and the box must not contain any conductive materials between the device and the charging coil.

Any box in the size range provided below will be centered by the mechanism built into each module. Do not exceed the maximum recommended box size dimensions.



Dimension	Min	Max
Width (X)	83mm	92.6mm
Length (Y)	130mm	180.8mm
Depth (Z)	-	43mm

Shipping & Handling

Ensure the fixture is stabilized during shipping or transportation so that it is not bouncing, shaking or sliding around. Use vendor approved and tested packaging for any transport.

Always use the handles on the left and right side of the fixture to lift and transport the fixture. Do not attempt to lift the fixture using just one handle.

Keep the fixture level when lifting and moving during setup.

Environmental Requirements

1. Indoor use only in air-conditioned lab, office, store or warehouse environments.
2. The fixture can be left in standby mode indefinitely but should be Powered OFF at the end of every shift, when it is to be left alone and or unsupervised for prolonged periods of time.
3. Temperature Range:
 1. Operating ambient temperature: 32° to 95° F (0° to 35° C)
 2. Non-operating temperature: -4° to 113° F (-20° to 45° C)
4. Relative Humidity Range: 5% to 95% noncondensing
5. Any and all liquids, hazardous, flammable or not, should be kept at a distance and never allowed to touch or enter the fixture to prevent contamination, corrosion or potential for electrical shorts
6. Do not operate the instrument in the presence of flammable gases or fumes

7. The fixture should be used in an environment with adequate ventilation where no flammable vapor-air or gas air is present. Adequate ventilation is defined as ventilation (natural or artificial) that is sufficient to prevent the accumulation of significant quantities of vapor-air or gas-air mixtures in concentration above 25% of their lower flammable (explosive) limit, LFL (LEL)

Storage

When the fixture is not in use, pack properly and store in a controlled environment.

1. Indoor temperature -4° to 113° F (-20° to 45° C)
2. Indoor Relative Humidity Range: 5% to 95% noncondensing
3. Do not store in direct sunlight
4. Keep away from water, oils and other liquids
5. Keep away from areas containing volatile components or corrosive gases
6. Store in a dust-free place.
7. Avoid subjecting the fixture to regular vibration shocks above 0.5G.

Cleaning

The fixture's outer surfaces may be cleaned as follows:

1. Allow fixture to cool down to room temperature (minimum 15 minutes).
2. Clean with lint free wipes
3. Do not use compressed air or vacuums to clean internally.
4. Do not use liquid or sprays of any kind.

Maintenance and Malfunction

This fixture does not require regular maintenance from the technician.

If the operator encounters any malfunction, broken parts or components, discontinue use immediately, power the fixture off, unplug and notify management and or engineering staff.

If the operator encounters any unexpected electrical behavior such as unintended power cycling (on/off), power drops as evidenced by changes to fixture lighting, fans, sounds, sparking or malodor, discontinue use immediately, power the fixture off, unplug and notify management and or engineering staff.

If any other abnormal issues are encountered, discontinue use immediately, power the fixture off, unplug and notify management and or engineering staff.

Service and Repair

Do not remove any panels or covers of the fixture. Technicians or operators must not remove any protective or enclosure panels on the fixture, or disassemble any other parts of the fixture.

This fixture is not designed to be serviceable by end users. Component replacement and / or internal adjustment should only be performed by authorized service personnel / engineering staff. Service by Authorized Personnel

The fixture is designed to have swappable modules and can accommodate more complicated repairs such as component replacements, wiring fixes, etc. The most basic servicing for the fixture is the **module swap**.

Module Swap

A module composes of the centering mechanism, and Qi Charger. If any of these components fail, it is best to swap out a whole module and then diagnose which part has an issue and repair if possible.

Swapping a module requires the following steps:

1. Unplug back of fixture from USB
2. Remove back panel screws (4x)
3. Remove the floor module
4. Remove Qi Charger screws (4x)
5. Remove the Qi Charger power cable
6. Acquire new module
7. Install Qi Charger screws (4x)
8. Plug in power cable from the Qi charger
9. Install the floor module
10. Install back panel screws (4x)
11. Plug in USB cable

Grounding



Terminal which is bonded to conductive parts of equipment for safety purposes.

Waterproof & Dustproof

IPX0.

FCC Warning

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC 15.105 Information to the user (Class A) Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC RF exposure statement:

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance between 20cm the radiator your body.

IC Exposure

This equipment complies with radio frequency exposure limits set forth by the Innovation, Science and Economic Development Canada for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux radiofréquences définies par la Innovation, Sciences et Développement économique Canada pour un environnement non contrôlé.

IC Warning

IC RSS-Gen 8.4 User Manual Notice for Licence-Exempt Radio Apparatus This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development

Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) L'appareil ne doit pas produire de brouillage; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NCC Warning

「取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。」

CE RED Requirement

European Importer Information:

Name: Apple Distribution International Ltd.

Address: Hollyhill Industrial Estate, Cork, Ireland

ANATEL Warning

ANATEL Res. 680 RF warning sentence:

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

ANATEL website:

Para maiores informações, consulte o site da ANATEL www.gov.br/anatel/pt-br

사용자 안내문

업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경

Thailand NBTC Certification

