

LAUNCH



ECS-012U

User Manual



WARNING

Read this material before using this product.
Failure to do so can result in serious injury.

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1. Safety & Warnings



Important Safety Instructions

This manual contains important instructions for Model ECS-012U. The following basic precautions should be followed during installation, operation and maintenance. For the general instructions, the types of specific models are not required to be indicated:

- Read all the instructions before installing or using this product.
- The charging should be supervised when used around children. Do not allow children to operate the charge point.
- Do not touch the connector or end terminals with your fingers or any sharp metallic objects or tools.
- Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or has any other signs of damage.
- Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage. Please save these instructions.
- Improper connection of the equipment-grounding conductor will result in a risk of electric shock. Please contact a qualified technician if you are confused about whether the product is properly grounded. Do not refit the plug provided with the product – if it does not fit the socket, please contact a qualified technician to have a proper socket installed.

Grounding Instructions

This product must be grounded. If it occurs malfunction or breaks down, grounding will provide a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord that has an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate socket that is properly installed and grounded under the local regulations.

User Maintenance Instructions

Turn off the power to the charge point before cleaning. Do not use cleaning solvents to clean any part of the charge point. The enclosure, cable and connector should be cleaned with a clean, dry cloth to remove dust and dirt. Grounded under the local regulations.



WARNING



Moving, Transporting, and Storage Instructions

- Improper movement or storage of the charge point will result in damage to the product.
- Turn OFF the circuit breaker at the service panel before performing any electrical work or repair.
- The charging should be supervised when used around children. Do not allow children to operate the charger.
- Keep the charge point away from explosive or flammable materials, chemicals, vapors and other hazardous objects.
- Do not touch the connector or end terminals with your fingers or any sharp metallic objects or tools. Do not put fingers into the socket pin when the unit is powered on.
- If the charge point occurs repeated fault, please contact the qualified personnel.

Use or operate charge point

- It should be in a well-lit area and away from the crowded place to avoid accidental tripping risk.
- Away from areas of child activity to avoid potential shock risk.
- Turn off the power supply or unplug the charge connector to achieve electrical isolation.
- Do not tamper with or modify this device.
- Do not use this device if the charger fails to work correctly in accordance with the operation manual. Contact the qualified technician to repair or contact the supplier for replacement.
- Improper installation of the charge point will result in personal injury or product damage.
- This charge point installation guide is not a substitute for electrical safety precautions.
- Use this charge point within the specified operating parameters, otherwise may result in injury or death.
- Install the charge point in a location where the charging cable will not be stepped on, tripped over, damaged or stressed.
- Do not use the charge point if the flexible power cord or cable is frayed, has broken insulation, or any other signs of damage.
- Only for use with vehicles that do not require ventilation.
- To avoid a risk of fire or electric shock, do not use this charge point with an extension cord.
- Risk of explosion. This equipment has arcing or sparking parts that should not be exposed to flammable vapors. This equipment should be located at least 460 mm (18 inches) above the floor.

 CAUTION

- Incorrect installation of the charge point will result in the risk of damage to the battery of vehicle and the charge point itself. These damages will void the warranty for the vehicle and the charge point.
- Do not operate the charge point in temperatures beyond its specified operating range.
- Risk of electric shock. Do not remove cover or attempt to open the enclosure. No user serviceable parts inside. Refer servicing to qualified service personnel.
- Do not use this product if there is any damage to the unit. To reduce the risk of electric shock, connect only to properly grounded outlets.

Alternating current supply symbol:



Pour le français:



Consignes de sécurité importantes

Ce manuel contient des instructions importantes pour les modèles ECS-012U. Les précautions de base suivantes doivent être suivies lors de l'installation, de l'utilisation et de la maintenance. Pour les instructions générales, il n'est pas nécessaire d'indiquer les types de modèle spécifique:

- Lisez toutes les instructions avant d'installer ou d'utiliser ce produit. Le chargement doit être supervisé lorsqu'il est utilisé à proximité d'enfants.
- Ne laissez pas les enfants utiliser le chargeur. Ne touchez pas le connecteur ou les bornes d'extrémité avec vos doigts ou des objets ou outils métalliques pointus.
- N'utilisez pas ce produit si le cordon d'alimentation flexible ou le câble EV est effiloché, a une isolation brisée ou présente tout autre signe de dommage.
- N'utilisez pas ce produit si le boîtier ou le connecteur EV est cassé, fissuré, ouvert ou présente tout autre signe de dommage.
- Veuillez conserver ces instructions.
- Une connexion incorrecte du conducteur de mise à la terre de l'équipement entraînera un risque de choc électrique. Veuillez correctement mis à la terre. Ne remettez pas la fiche fournie avec le produit - si elle ne rentre pas dans la prise, veuillez contacter un technicien qualifié pour faire installer une prise appropriée.

Ce produit doit être mis à la terre

En cas de dysfonctionnement ou de panne, la mise à la terre fournira un chemin de moindre résistance pour le courant électrique afin de réduire le risque de choc électrique. Ce produit est équipé d'un cordon doté d'un conducteur de mise à la terre et d'une fiche de mise à la terre. La fiche doit être branchée dans une prise appropriée qui est correctement installée et mise à la terre conformément aux réglementations locales.

Instructions de maintenance

Coupez l'alimentation du chargeur avant de le nettoyer. N'utilisez pas de solvants de nettoyage pour nettoyer les pièces du chargeur. Le boîtier, le câble et le connecteur doivent être nettoyés avec un chiffon propre et sec pour enlever la poussière et la saleté.

Instructions de déplacement, de transport et de stockage

- Un déplacement ou un stockage incorrect du chargeur entraînera des dommages au produit.
- Éteignez le disjoncteur au niveau du panneau de service avant d'effectuer tout travail ou réparation électrique.
- La charge doit être supervisée lorsqu'elle est utilisée à proximité d'enfants. Ne laissez pas les enfants utiliser le chargeur.
- Maintenez la borne de recharge à l'écart des matières explosives ou inflammables, des produits chimiques, des vapeurs et d'autres objets dangereux.
- Ne touchez pas le connecteur ou les bornes d'extrémité avec vos doigts ou tout objet ou outil métallique pointu. Ne mettez pas les doigts dans la broche de la prise lorsque l'appareil est sous tension.
- Si le point de charge présente des défauts répétés, veuillez contacter le personnel qualifié.

Utiliser/faire fonctionner le chargeur

- Il doit être dans une zone bien éclairée et loin des endroits bondés pour éviter tout risque de trébuchement accidentel.
- Loin des zones d'activité des enfants pour éviter tout risque de choc potentiel.
- Coupez l'alimentation ou débranchez le connecteur de charge pour obtenir une isolation électrique.
- Ne pas altérer ni modifier cet appareil.
- N'utilisez pas cet appareil si le chargeur ne fonctionne pas correctement conformément au manuel d'utilisation. Contactez le technicien qualifié pour réparer ou contactez le fournisseur pour le remplacement.
- Une installation incorrecte du chargeur entraînera des blessures corporelles ou des dommages au produit.
- Ce guide d'installation du chargeur ne remplace pas les précautions de sécurité électrique.
- Utilisez ce chargeur dans les paramètres de fonctionnement spécifiés, sinon cela pourrait entraîner des blessures ou la mort.
- Installez le chargeur dans un endroit où le câble de charge ne sera pas piétiné, trébuché, endommagé ou soumis à des contraintes.
- N'utilisez pas ce chargeur si le boîtier ou le connecteur est cassé, fissuré, ouvert ou présente tout autre signe de dommage.
- Une installation incorrecte du chargeur entraînera un risque d'endommagement de la batterie du véhicule et du chargeur lui-même. Ces dommages annuleront la garantie du véhicule et du chargeur.



ATTENTION



- N'utilisez pas le chargeur si le cordon d'alimentation flexible ou le câble est effiloché, a une isolation brisée ou tout autre signe de dommage.
- Le chargeur ne contient aucune pièce réparable par l'utilisateur. N'essayez pas de démonter, réparer ou remonter le chargeur vous-même. Si nécessaire, veuillez contacter un technicien qualifié.
- Ne faites pas fonctionner le chargeur à des températures au-delà de sa plage de fonctionnement spécifiée.

Symbole d'alimentation en courant alternatif:



2. Packing List



Mounting Template (*1)



User Manual (*1)



M4*12 Screw (*2)



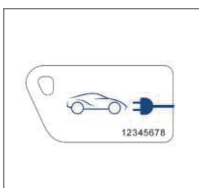
M4*32 Screw (*6)



Connector Holster (*1)



Φ6 Wall Plugs (*6)



RFID card (*2)



M4 Hex Key (*1)

3. Product Overview

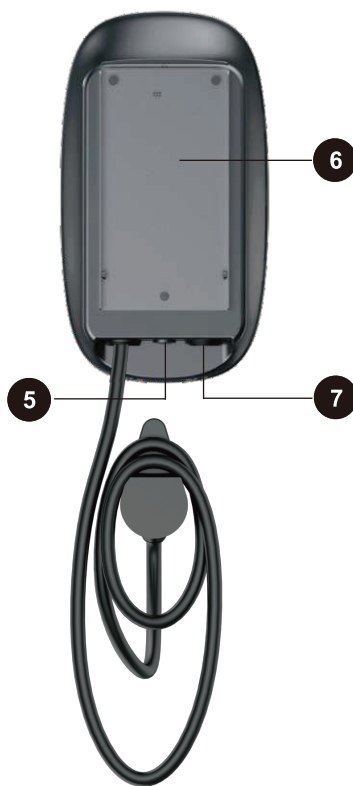
3.1 Components & Controls

External Cover



1. RFID card sensing area
2. LED Indicator
3. Cable holder
4. Charging cable

Base Cover



5. Network cable inlet
6. Mounting bracket
7. AC input cable inlet

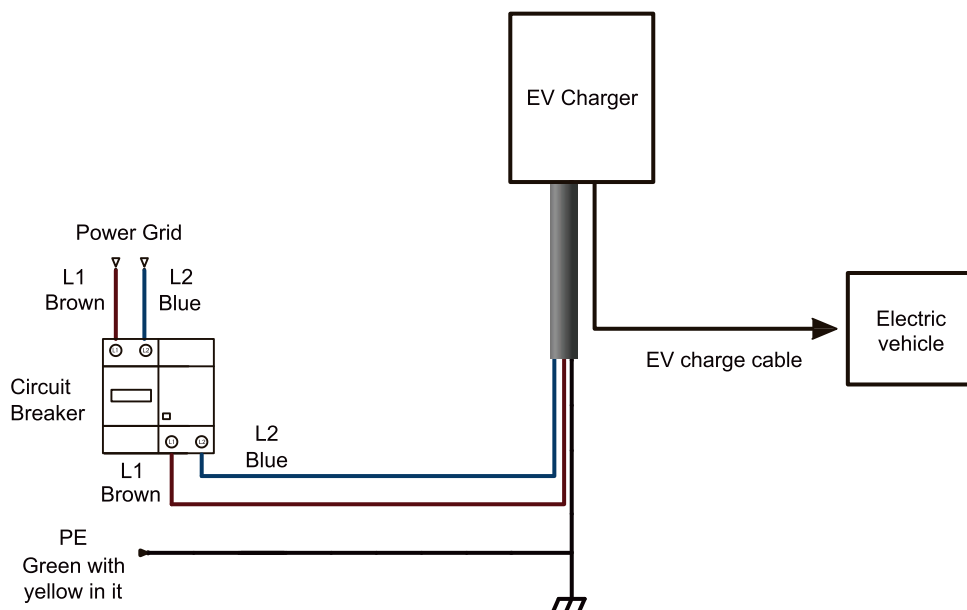
3.2 Technical Specifications

Specification		ECS-012U
Input	Power Supply	Single-Phase
	Rated Voltage	240V AC
	Rated Current	50A
	Frequency	60Hz
	Maximum Current	50A
	Input Plug	Hard-wire
Output	Output Power	12kW
	Charging Outlet	Type 1
	Cable Length	≥23ft
Communication	WiFi	Yes
	Bluetooth	Yes
User Interface	Housing Material	Plastic PC
	LED Indicator	RED/YELLOW/GREEN
	Start Mode	Plug & Charge/RFID/APP
Safety	Leakage Current Protection	CCID 20
	Enclosure Rating	NEMA 4
	Electrical Protection	Over current protection, Leakage current protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection
	Certification standard	UL 2594, UL 2231-1 & -2
Environment	Installation	Wall-mount
	Working Temperature	-30°C~+50°C
	Working Humidity	5%~95%
	Working Altitude	<2000m
Package	Product Dimension	344*192*101mm(H*W*D)

4. Installation

Upstream Wiring Charging stations are considered continuous load devices (EVs draw maximum load for long durations); therefore, electrical branch circuits must be sized at 125% of the load for North American installations, in accordance with National Electric Code (NEC) requirements. (For other regions, refer to local code.) This means that the rating of overcurrent protection associated with field installed branch circuits is at least 63A.

4.1 Wiring



4.2 Mounting

1. Installation Notice

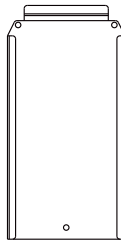
- 1) All applicable local, regional, and national regulations must be applied when installing, repairing and maintaining this device.
- 2) The device can be installed on wood, stone, cement or metal walls, but make sure it can be fixed and will not fall easily.
- 3) This device shall be mounted at a sufficient height from ground such that the height of the storage means for the coupling device is located between 450 mm (18 inches) and 1.2 m (4 feet) from ground for indoor use, between 600 mm (24 inches) and 1.2 m (4 feet) from ground for outdoor use.

2. Checks before starting the Installation Process

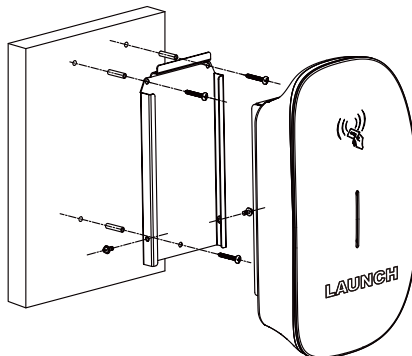
- 1) Ensure the device's location allows good operational access for normal use and repair & maintenance.
- 2) The AC input components within the premise's power supply are correctly fitted with required protection items prior to installation of the device.

3. Installation Procedure

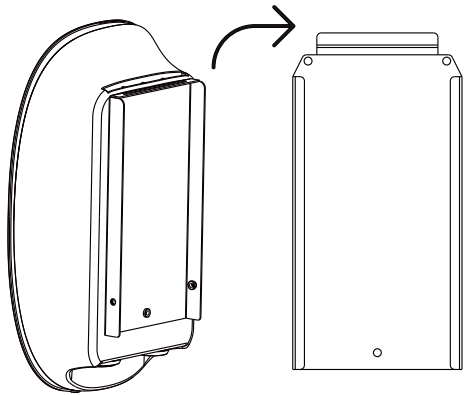
- 1) Based on the holes of the mounting bracket, drill 3X $\phi 6 \times 35$ mm holes on the wall, and insert the wall plugs.



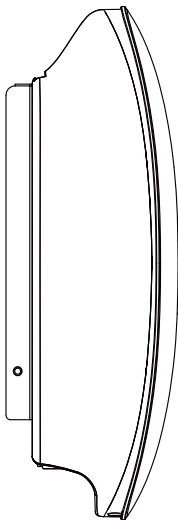
- 2) Lock the mounting bracket onto the wall by 3xM4*32mm mounting screws.



3) Insert the upper edge of the mounting bracket into the rectangular opening on the back of the charger.



4) Lock the 2 x M4*12mm screws on two sides.



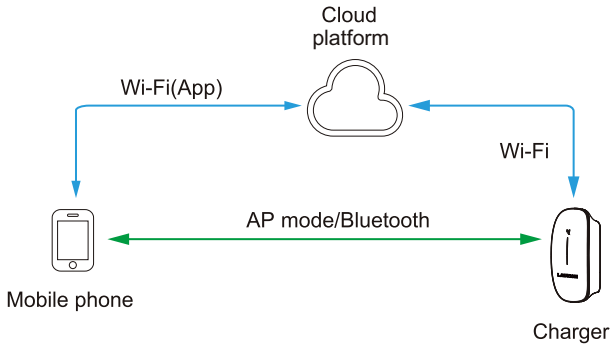
5. Configure network for the charger

You need to configure the network for the charger.

Decide what internet connection should be used for the installation. There are two types of internet connection that is possible to use for installation:

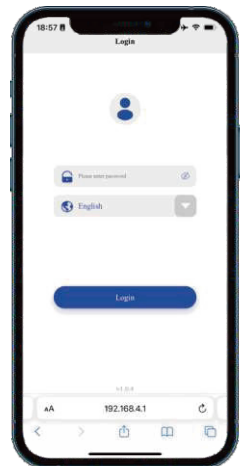
- Local Wi-Fi connection from the building where the installation is setup.
- Ethernet cable from the router/switch.

If you select Wi-Fi for communication, you must first configure the internet for the charger using AP mode. The following shows the topology diagram using Wi-Fi.



The AP mode, which is similar to a local area network, operates the internet locally between you mobile phone and charger.

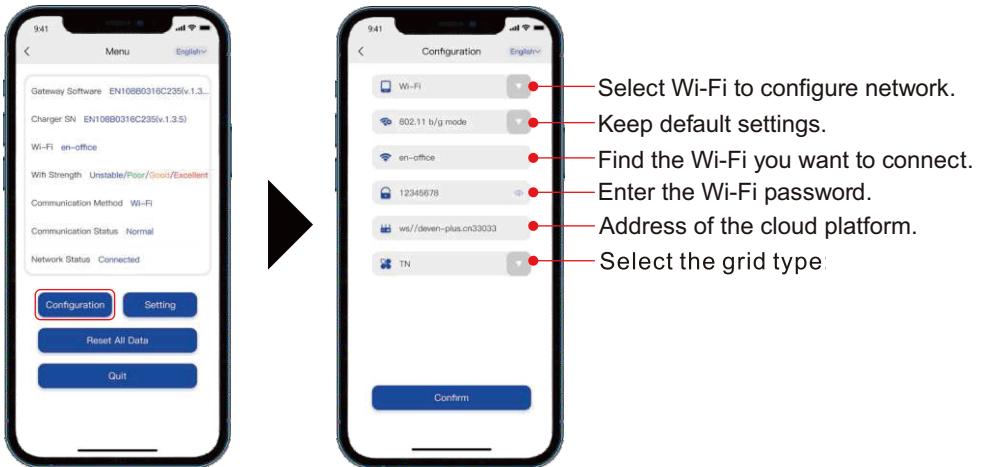
1. Set your phone to airplane mode and make sure that the WLAN is turned on.
2. Restart the power supply of the charger to activate the hotspot (the hotspot remains available for 15 minutes only).
3. Locate the charger's Wi-Fi hotspot (Wi-Fi name: the serial number of the charger) in your phone's Wi-Fi list.
4. Enter the password (admin123) to connect the charger to your phone.
5. To access the Login page of AP mode, enter the IP address 192.168.4.1 in a browser, followed by the 4-digit network password: a PIN number*, which can be found on the last page of this manual.





Your charger will automatically restart once the network configuration is complete, ending communication between your phone and the charger. At this point, your phone may automatically join other Wi-Fi hotspots, preventing you from accessing the network configuration page. As a result, before accessing the network configuration page, please ensure that your phone is connected to the Wi-Fi hotspot of the charger.

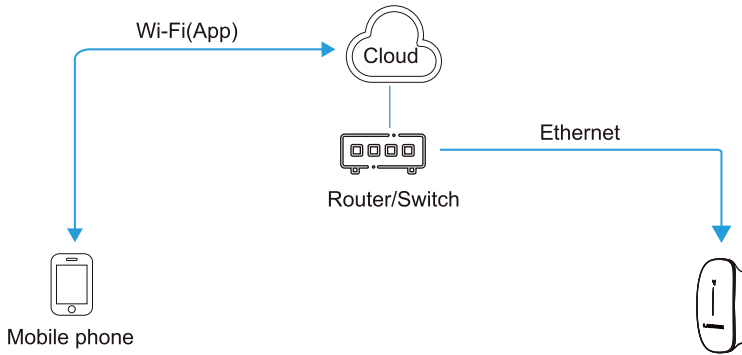
Use Wi-Fi for communication



The address of cloud platform refers to an address that connects you charger to a cloud management platform. If you want to connect your charger to a 3rd party's platform, you can enter the URL of the 3rd party platform.

Use Ethernet for communication

If you select Ethernet for communication, you just need to connect the charger to cloud platform via Ethernet cable. The following shows the topology diagram using Ethernet cable.



Your charger has been connected to cloud platform after completing network configuration.

6. Operations & Configuration

6.1 Charging Operation - Plug & Charge

Tips: The charger will undergo self-testing after power on, it takes about 30s.

1

Standby

A green indicator flashing slowly for 1s at 3-sec intervals indicates the charger is ready to use.

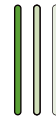


2

Plugin

Plug the charging connector into your EV's charging socket.

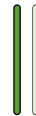
A green indicator flashing for 200ms at 1-sec intervals indicates the charging connector is plugged in.



3

Charging

A green indicator breathing at 1-sec intervals indicates the charging is in progress.



4

Fully Charged

Solid green light indicates the EV is fully charged.



5

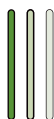
Unplug

Unplug the charging connector.

Return to standby mode after the charging has finished.

6.2 Charging - Use RFID Card

Plugin



Plug the charging connector into your EV's charging socket.
A green indicator flashing for 200ms at 1-sec intervals indicates the charging connector is plugged in.

Use RFID Card



Put the RFID card on the reading area to start or stop charging.
A yellow indicator flashing at 100-ms intervals indicates the RFID card is successfully read.

6.3 X-Charger App

X-Charger is your charger's companion app. After connecting your charger to X-Charger, you can use the app to intelligently control your charger and enjoy the charging service.

Use your mobile device to scan the QR code to download and install X-Charger app.



X-Charger App Download



App Instructions

7. Troubleshooting

Fault	Indicator Status	Solution
Leakage current fault	Red indicator keeps on	Charging stopped, please notify the after-sales service to solve the fault.
CP fault	Red indicator keeps on	Charging stopped, please notify the after-sales service to solve the fault.
Overcurrent	Red indicator keeps on	Charging stopped, please try again 10 minutes later.
Input terminal overtemperature	Red indicator keeps on	Charging stopped, please try again 10 minutes later.
Relay over temperature	Red indicator keeps on	Charging stopped, please try again 10 minutes later.
Under voltage	Red indicator keeps on	Grid abnormal, charging stopped, please try again 10 minutes later.
Over voltage	Red indicator keeps on	Grid abnormal, charging stopped, please try again 10 minutes later.



If the fault persists, please contact customer service: overseas.service@cnlaunch.com or you can view the faults in the X-Charger App by tapping Me, then tapping the message icon on the upper right corner.

8. Maintenance

No.	Item	Operating process
1	Keep the charger clean.	Use a cloth to clean the charger surface. If there is any damage or dirt on the vehicle connector, charging cable, or vehicle connector holder, please contact customer service immediately.
2	Keep the charger intact.	Do not hit or press hard on the case. If the case is damaged, please contact customer service.
3	Avoid letting moisture or water enter the charger.	If there is water or moisture inside the charger, you must immediately switch off the electricity supply to avoid immediate danger. Please notify your maintenance professional before continuing to use the charger.
4	Avoid charger rusted.	Keep the charger away from dangerous substances such as flammable gases and corrosive materials.

9. Warranty

Period: Unless otherwise stated by local laws, we will provide a limited warranty of up to 2 years starting from the date of purchase.

Scope: The charger and charging connector.

The limited warranty does not cover the following :

1. Normal wear and tear.
2. Damage or failure caused by unauthorized upgrades conducted by a customer.
3. Damage or failure caused by external factors such as fire, flood, abnormal voltage, other natural disasters, and secondary disasters.
4. Damage or failure caused by improper handling of the charger, such as impact from a fall and careless transportation after purchase.
5. Damage or failure caused by a customer not following the user manual.

6. Damage or failure caused by non-equipment factors like human error by a non-authorized individual carrying out maintenance. Unauthorized repairs will render the limited warranty void.
7. Damage or failure caused by external factors such as power grid malfunctions.

Limitation of liability:

We have compiled this document to the best of its knowledge but cannot guarantee that all information provided is error-free, nor will it accept liability in this respect. To the maximum extent permissible under local applicable law, we hereby disclaim any and all indirect, incidental, special and consequential damages arising out of or relating to the AC Charger, including, but not limited to, loss of time, loss of income, loss of use, loss of personal or commercial property, inconvenience or aggravation, emotional distress or harm, commercial loss (including but not limited to lost profits or earnings), incidental charges such as telephone calls, facsimile transmissions, and mailing expenses. To the maximum extent permissible under local applicable law, we will not be liable for any direct damages in an amount that exceeds the market value of the AC Charger at the time of the claim.

The above limitations and exclusion will apply whether or not the customer's claim is in contract, tort (including negligence and gross negligence), breach of warranty or condition, misrepresentation (whether negligent or otherwise) or otherwise at law or in equity, even if we have been advised of the possibility of such damages or such damages are reasonably foreseeable.

Nothing in this manual shall exclude, or in any way limit, our liability for death or personal injury solely and directly caused by their negligence, or that of its employees, agents, or sub-contractors (as applicable), fraud, or fraudulent misrepresentation, or any other liability to the extent the same is proven in a court of competent jurisdiction in a final non-appealable judgment and may not be excluded or limited as a matter of local law.

10. Compliance Information

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.

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

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC Statement

This device complies with Canada Industry licence-exempt RSS standard(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.

Avis d'Industrie Canada

Le présent appareil est conforme aux CNR d'industrie 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; et

2) l'utilisateur de l'appareil doit accepter brouillage radioélectrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement. mauvais fonctionnement de l'appareil.

CAN ICES-3 (B)/ CAN NMB-3 (B)

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

2) l'utilisateur de l'appareil doit accepter brouillage radioélectrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement. mauvais fonctionnement de l'appareil.

CAN ICES-3 (B)/ CAN NMB-3 (B)

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