

X10DR[®]

LIBERATE YOUR MOBILE RADIO

User Manual



Lite Series



WIRELESS PACIFIC[™]



IMPORTANT

This product is designed to radiate low levels of radio energy in accordance with global government approved regulatory standards. It features Adaptive Power Output. APO automatically adjusts the RF power output in accordance with signal required. This features limits and reduces extraneous radiated radio energy. This also helps minimize battery consumption and extends battery shift life.

Do not touch the antenna when operational. Keep Handset antenna **25mm (1")** or more away from your face and body to ensure exposure levels remain at or below the maximum levels. Keep your body at least 20cm/8" from external antennas connected to the gateway mobile charger unit.

Ne touchez pas l'antenne lorsque opérationnel. Gardez sécurisé antenne de microphone **25mm (1")** ou plus loin de votre visage et le corps pour assurer des niveaux d'exposition restent égales ou inférieures aux teneurs maximales. Gardez votre corps au moins 20cm/8 "des antennes externes connectés à l'unité de chargeur mobile gateway.

ANTENNA CONNECTION

ALWAYS ATTACH THE ANTENNA OR SMA CABLE CONNECTOR FIRMLY TO THE GATEWAY CRADLE ANTENNA PORT **BEFORE** CONNECTING XMC-RJ45/XIC-1.5 INTERFACE CABLE.

The standard supplied **XMCA** 1/4 wave stub antenna, can be fitted directly to the base of the X10DR Lite Gateway cradle when only limited range is required. For optimum range performance it should be mounted on the supplied L Bracket and placed on an unobstructed area of a vehicle roof rack, fender, or similar and connected via the supplied low loss coax cable kit to the RP-SMA-F output on the mobile charger.

Alternatively, a high performance XMPA multi-polarity roof mount antenna is approved and available as an accessory for those who require enhanced "non line of sight" coverage.



Keep your body at least 20cm away from vehicle mounted external antenna. [See page 18 for other important details.](#)

Table of Contents

Parts & Functions	4
Wearing the X10DR LITE	4
Operational Description	6
Basic operation	8
Audio adjustment & re-connection	9
Battery charging	10
Replacing the battery pack.....	11
DB15 Interface specification.....	12
RJ45 pinout definition	12
Accessories and parts.....	14
Important licensing information	16
Warranty.....	17
Important safety and handling information	18
Proper Care and Handling	21
Specifications & Approvals.....	23

Operation

Lite Handset Wireless Microphone



Lite Gateway Mobile Charger



Wearing the X10DR Handset

Always wear on your shoulder for best performance

Note: Your X10DR will provide longer range when worn with the antenna protruding above your shoulder.



Gateway Off/On: press for 1 second, gateway and Blue LED turns on. Press again for 1 second and gateway and Blue LED turn off.

Handset Off/On: OFF: press PTT, Vol + & Vol - together for 2 seconds, handset and Blue LED will turn off. ON: Put handset in powered gateway to turn on handset. Start up tones will sound.

Volume + : adjusts speaker volume louder.

Volume - : adjusts speaker volume softer.

Microphone: Speak 2 to 3cm from Mic port with a normal strength voice. Do not yell.

PTT: press to talk - release to listen.#

Charging: Handset beeps to notify correct seating when first placed in gateway. The Status LED momentarily blinks every 10 seconds to indicate charging mode. Constant blue means battery is fully charged.

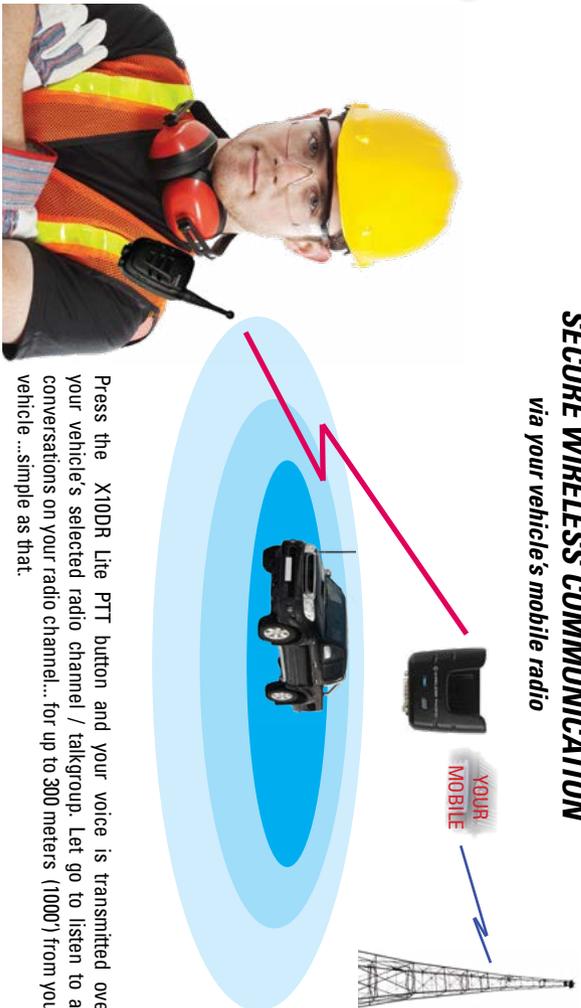
Speaker: Delivers received speaker audio. Normally mutes when inserted into gateway.

Status light: glows blue when fully operational. Flashes when "out of range" or when its paired unit is turned off.

Antenna Connector: Allows connection of longer range external antenna or replacement of the short range internal type.

When out of range the unit will slowly beep.

SECURE WIRELESS COMMUNICATION via your vehicle's mobile radio



Press the X10DR Lite PTT button and your voice is transmitted over your vehicle's selected radio channel / talkgroup. Let go to listen to all conversations on your radio channel... for up to 300 meters (1000') from your vehicle... simple as that.

Operational Description

Congratulations on choosing the revolutionary X10DR® Lite Wireless Microphone. Pronounced "extender". This incredibly compact, lightweight personal accessory extends the power of the mobile radio to the palm of your hand, whether in or out of the vehicle. X10DR has since its launch in 2012 re-defined mobile network design by increasing user mobility whilst dramatically improving the effectiveness of your infrastructure investment. This visionary solution provides users out of vehicle communications with the power and performance of their mobile radio.

X10DR Lite simply cuts the cord and puts the microphone and radio system access into the palm of the users hand when away from the vehicle, delivering true mobility without system compromise. Users can feel totally confident their private communications are kept secure due to the smart and secure 64 bit encryption functionality.

X10DR Lite unleashes the power of your mobile radio allowing wireless communication with a fixed located or vehicle mounted radio: up to 300 meters or more.* Our EVR™ enhanced voice resilience audio ensures users can communicate with clean clear audio, with the power and range of their mobile radio, whilst not being tied to the vehicle allowing the user to be truly mobile in every operational environment.

Finally, if you go out of range, the blue LED will flash and the unit will sound a warning tone if you press the PTT button so you know to move back into your communication zone or to be simply aware. This ability to now communicate whilst outside your vehicle significantly enhances a safer and more secure work environment for everyone who carries an X10DR Lite Wireless Microphone.

Basic Operation

Power On & Off

Turn off the gateway charger by pressing the front grey button for 3 seconds and the blue LED will extinguish. Turn off the handset by pressing the grey PTT button while simultaneously pressing the two blue buttons below it. The microphone will sound a de-escalating tone. To power on the gateway, press the grey button, releasing the button once the LED lights. To power on the microphone simply place it into a powered on gateway and it will sound an escalating tone. The blue LED on both units will flash for a few seconds and then go solid once they're connected.

Volume Control

First ensure your mobile radio's volume is set to a comfortable listening level. You may then adjust the handset volume by pressing the top blue button to increase or the bottom button to decrease. There are 5 listening levels. The minimum level is not zero but is designed so you can still quietly hear radio traffic and not inadvertently turn off the audio.

Transmitting/Receiving

Use like any two way radio speaker microphone i.e. press the large grey PTT button to talk and release to listen. A short talk permit tone sequence will sound when activated. Speak with a normal strong clear voice about 2-3 cm from the microphone port. Do not yell as this causes loss of clarity.

Out of Range Indication

X10DR Lite provides the user with feedback should the user move out of range from their vehicle. If you walk out of range the blue status LED will flash. If you then push the PTT an alert tone will sound to let you know your call is not getting thru. NB, you may find you need to walk back about 10 meters closer to your vehicle to re-connect - Blue status light will then glow solid.

Charging Confirmation Tone

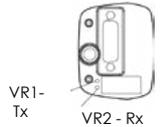
X10DR provides the user with a discrete tone whenever the X10DR handset is returned to the charging cradle. This discrete chirp ensures the user has a positive indication that the X10DR handset is charging and seated correctly in the cradle.

IMPORTANT - READ THIS

Audio adjustments

Qualified service personnel only!

when installing the X10DR system you may need to first **carefully** adjust the transmit and receive audio levels via the trimpots on the bottom of the gateway using a jewellers miniature screwdriver for optimum transmit and receive volume.



TRANSMIT: while listening on another radio, talk into the handset and adjust VR1 so it sounds the same volume and clarity as the host mobiles wired microphone.

RECEIVE: Using another radio, talk into its microphone and adjust VR2 so that the audio received thru the X10DR speaker is loud and clear with the X10DR Volume turned up near maximum.

Re-connection - Pairing

Each X10DR Lite Wireless Microphone is uniquely connected to a specific Gateway mobile charger in the factory. This ensures that all communications between the two units are secure and cannot be compromised or interfered with by a third party. In the event of a Secure Wireless Microphone being lost, it can be permanently erased from the Gateway by master resetting. You can do this by turning it off and then holding the On button for about 10 seconds until the LED momentary blinks. It is now ready to pair with a new handset.

How to pair: hold the powered on handset while pressing both the blue volume controls until the blue LED flashes and the handset beeps. (~8 secs.) Now place the handset back into the gateway. After a few seconds the handset will sound confirmation tones and the blue LED on both units will glow solid to indicate connection is complete.

Battery - Charging

The X10DR Lite Wireless Microphone should be charged overnight before initial use. Thereafter it may be left in the charger unit between calls, or may be worn all day and placed back at the end of the work day. The unit is designed to provide about 15-24 hours operation between charges even on the busiest radio channels. On quiet channels it can last up to 3-4 days. When the battery does start to go flat, a short beep will sound once every 2 minutes. It will then automatically power down after 30 minutes, so you should plan to re-charge the unit as soon as is practical once the chirps are heard.

A fully discharged battery will typically recharge in less than 3-4 hours, or less if only partially discharged. The battery will re-charge even if the mobile charger unit has been turned off providing the cradle has been correctly wired. The microphone's blue status light will indicate charging mode.

When the microphone is correctly seated in the X-Ponder cradle it will sound a double beep and then its LED will momentarily 'blink' every 10 seconds while in charge mode. The blink will end when the battery is near full capacity.



Simply place the mic into charging cradle and the X10DR Lite will beep to show correct placement.



NB: do not allow debris to fill the pocket as it may prevent the microphone from making contact with the charging pins. Keep all liquids well away from the charging cradle at all times.



Please recycle thoughtfully

Replacing the battery pack

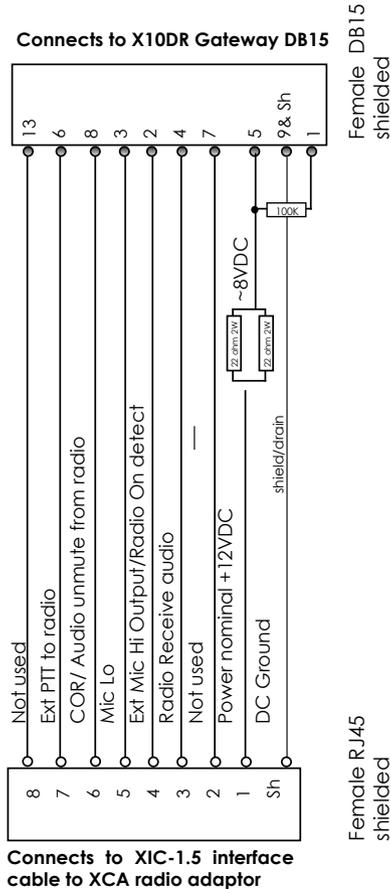
When you notice the X10DR sounding a **small chirp** every couple of minutes, it indicates the battery is nearly flat and should be re-charged. The unit will self power down after about 30 minutes when voltage drops to the minimum level. When you notice this occurring far more often than usual, it may mean it is time for the battery to be replaced.

Like all re-chargeable products, periodic replacement of the internal battery is required. The X10DR Lite Wireless Microphone features a high capacity Lithium Ion battery. To maximize the life of a Lithium battery it is better to keep it topped up by returning it to the charger often rather than waiting for it to first go flat - which was the opposite case with older nickel based batteries. Typically you can expect to get about **500** re-charge cycles before the battery will require replacement.

The process is simple and should only take your radio service supplier about 5 minutes to replace and test. Replacement of the battery should be **ONLY** undertaken by a qualified service technician so as to ensure no damage occurs to internal circuitry and to ensure the housing's weatherproof integrity is not compromised. The new replacement battery part number is: **XSMB-C14: 1450mA Lithium Polymer battery.**

After replacement, the X10DR Lite Wireless Microphone **should** be first placed back into the mobile charger and charged for 4 hours prior to commencement of use. (In some rare cases it may also need to be "re-connected" to the mobile gateway charging unit)

X10DR Lite RJ45 interface Specification



RJ45 Interface Pinouts

1. Power: connected via a 1 amp in-line fuse preferably direct to a vehicle's 12V battery via a 11 ohm series resistor but can be any voltage source from about 10-16VDC. Current consumption is typically 60mA/Max current <200mA. Note: internal speaker microphone battery will still charge when the unit is turned off.
2. Not used

3. Receive Audio: Receive audio from the host mobile radio that you wish to be sent to the Wireless Microphone. Ideally, it should be sourced pre-volume control but can be post, as long as the host mobile radio's speaker audio has first been sent for a comfortable listening level in the vehicle. If required Adjust VR2 for desired maximum volume. VR2 is preset for ~100mVRMS input.

4. External Mic Audio: Audio from the Wireless Microphone that is to be transmitted over the host mobile radios transmitter. It is factory set for nominally 80mV RMS. **IMPORTANT: If required** Adjust VR1 so X10DR audio matches the level from the radio's mobile mic. VR1 is preset for 80-100mVRMS output.

5. Radio Mic Lo: This is microphone **audio ground**.

6. COR/squelch/audio unmute: Input designed to monitor the receive status of the host mobile radio. Ideally, it is driven by an "audio unmute" switched ground command in the host mobile. i.e. when the radio's speaker unmutes to pass audio then the COR input should toggle to ground in sync. Where radio COR status is not available, the X10DRs voice detect circuit in most cases allows satisfactory operation.

7. Ext. PTT: Switched ground output designed to cause the host mobile radio to transmit.

8. Not used

Shield. Ground: DC /Digital ground connection.

Replacement Parts & Installation Accessories

Desktop Chargers:

X6WC-* 6 way desktop charger includes AC/12VDC PSU
 XDTC-* Desktop charger includes AC/12VDC plug pack.

* indicate AC plug type: US/EU/UK/AU

Installation Accessories and Spares:

XPB-C14B 1450mA "after hours" re-charge power bank

XMCAK Replacement rack mount 2dBi antenna kit
 Incl. 5.2m LMR200 type coax w/fitted RP SMA.
 XMMPA Shark Fin multi-polarity NMO roof or rack mount
 2dBi antenna kit Includes 5.2m LMR200 type
 coax w/fitted RP SMA-M.

XCA-** Spare Radio Interface cable adaptor. (see over)
 XIC-1.5 Spare 1.5m shielded Cat 6 cable, Black M-M.
 XEC-4.5 4.5m shielded Cat 6 extension cable, Black M-F.
 XMC-RJ45 Spare DB15F to RJ45F Cable Adaptor for X10DR Lite.
 XSMA Spare handset antenna
 XMCA Spare gateway antenna



X6WC
6 Way Charger

XDTC
Desktop Charger

XSMA antenna

****XCA Radio Cable Adaptors**

XCA-M26	Suits Motorola 26 pin Mototrbo	Type 1
XCA-M26T	Suits Motorola 26 pin MTM5400	Type 1
XCA-M16	Suits Motorola 16 pin	Type 1
XCA-K25	Suits Kenwood DB25: NX700/TK5710/TK7180	Type 1
XCA-K25M	Suits Kenwood DB25 TK690	Type 2
XCA-K15M	Suits Kenwood DB15HD for NX720	Type 2
XCA-RJK	Generic Kenwood (uses Radio Mic socket)	Type 3
XCA-I25A	Suits Icom DB25	Type 2
XCA-I25M	Suits Icom DB25 F5400/6400	Type 2
XCA-I15M	Suits Icom DB15HD	Type 2
XCA-V25M	Suits Vertex DB25	Type 2
XCA-T15M	Suits Tait DB15	Type 2
XCA-H26M	Suits Hytera MD68/78X	Type 2
XCA-JM	Suits EFJohnson VM900 DB25	Type 2
XCA-R25M	Suits RELM DB25	Type 2
XCA-R15M	Suits RELM G/DMH	Type 2
XCA-U25M	Generic RJ45F-DB25M (partially terminated)	Type 2
XCA-U15M	Generic RJ45F-DB15M (partially terminated)	Type 2



XCA-**
radio adaptor
** see above

XMC-RJ45
Adaptor

XIC-1.5
1.5m interf.cable

XEC-4.5
4.5m extension.cable

XMCAK 1/4 wave
roof mount antenna kit
15

XMMPA Multipolarity
roof mount antenna kit

Type Acceptance

RADIO AND TELEVISION INTERFERENCE

The equipment described in this manual generates, uses, and radiates radio-frequency energy. If it is not installed and used correctly—it may cause interference with radio and television reception.

CE DECLARATION

This equipment has been tested and found to comply with the following harmonised European Norms:

- EN300328 (radio and telecommunications terminal equipment)
- EN55024 (electromagnetic immunity)
- EN55022 Class B (electromagnetic emissions)
- EN 60950 (electrical safety)
- EN301489 (electromagnetic compatibility and radio spectrum matters)

Based on the results of these tests, Wireless Corporation declares that the above mentioned devices conform to Article 10.1 of the European Council Directive 89/336/EEC, and their amendment Directive 93/68/EEC, and to the Directive 1999/5/EC and indicates this conformity by the CE-sign on each device. The device must be installed and operated in strict accordance with the instructions given in this user manual. Any changes or modifications to this product that were not specifically authorised will invalidate this declaration.

FCC NOTICE

This equipment 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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.

You can determine whether the equipment is causing interference by disconnecting power. If the interference stops, it was probably caused by the equipment. If the equipment does cause interference to radio or television reception, you may be able to correct the interference by using one or more of the following measures:

- Rotate the television or radio's antenna until the interference stops.
 - Move the Wireless Microphone farther away from the television or radio.
- If necessary, consult your two way radio dealer or an experienced radio/television technician for help. Changes or modifications to this product not authorized by Wireless Corporation Ltd could void the FCC Certification and negate your authority to operate the product.

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

INDUSTRY CANADA:

This device complies with Industry Canada 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.

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 tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warranty

Wireless Corporation Ltd (WCL) warrants each new product sold by WCL to be free from defects in material and workmanship under normal use and service. The obligation and liability of WCL under this warranty is limited to the repair or replacement at its factory, at the option of WCL, of any such product which proves defective within the quoted warranty period, twelve (12) months for Wireless Pacific products after delivery, and is found to be defective in material and workmanship by WCL inspection. Products of warranty consideration shall be returned with all transportation charges prepaid to WCL or our nominated local service supplier in shipping containers which are adequate to prevent loss or damage in shipment. WCL will pay the return carriage costs for Wireless Pacific products. Products repaired or replaced under this warranty are warranted for the unexpired portion of the original warranty. This warranty is invalid if the factory-applied serial number, date code label, or product label has been altered or removed from this product . WCL shall not be obligated or liable under the warranty for apparent defects which examination discloses are due to tampering, misuse, neglect, improper storage, acts of nature, physical abuse, normal wear and all cases where the products are disassembled by other than authorised WCL representatives. In addition, WCL shall not be obligated or liable under this warranty unless the date of delivery to the first end user shall be within one (1) month from the date of delivery to the original purchaser, if different from the first end user, and further provided that written notice of any defect shall be given to WCL within thirty (30) days from the date such defect is first discovered. In no event will WCL accept consequential damages for products supplied and are then found to have become defective.

Repairing or Modifying X10DR:

Never attempt to repair or modify X10DR yourself. X10DR does not contain any user-serviceable parts. Disassembling an X10DR, including the removal of external screws and back cover, may cause damage that is not covered under the warranty. If an X10DR has been submerged in water, punctured, or subjected to a severe fall, do not use it until you take it to an WCL Authorized Service Provider. Service should only be provided by WCL or an WCL Authorized Service Provider. If you have questions or for service information, contact WCL or an WCL Authorized Service Provider.

Important Safety and Handling Information



WARNING: Failure to follow these safety instructions could result in fire, electric shock, or other injury or damage to X10DR or other property.

Read all safety instructions for any products and accessories before using with X10DR. WCL is not responsible for the operation of, or any damage caused by, third-party accessories or their compliance with safety and regulatory standards.

To avoid injury, read all operating instructions and the following safety information before using X10DR.

Radio Frequency Interference:

Radio frequency emissions from electronic equipment can negatively affect the operation of other electronic equipment, causing them to malfunction. Although X10DR is designed, tested and manufactured to comply with regulations governing radio frequency emission in countries such as the United States, Canada, the European Union, and Japan, the wireless transmitters and electrical circuits in the X10DR may cause interference in other electronic equipment. Therefore, please take the following precautions:

i/Aircraft: Use of X10DR may be prohibited while travelling in aircraft.

ii/Vehicles: radio frequency emissions from X10DR may affect electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.

iii/Pacemakers: The Health Industry Manufacturers Association recommends that a minimum separation of 15 cm (6 inches) be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. Persons with pacemakers:

- Should always keep X10DR more than 15 cm (6 inches) from the pacemaker when turned on.
- Should not carry X10DR in a breast pocket.
- Should use the ear opposite the pacemaker to minimize the potential for interference. If you have any reason to suspect that interference is taking place, turn X10DR off immediately.
- X10DR may interfere with some hearing aids. If you experience interference, consult the hearing aid manufacturer or your physician for alternatives or remedies.

v/ Other Medical Devices: If you use any other personal medical device, consult the device manufacturer or your physician to determine if it is adequately shielded from radio frequency emissions from X10DR.

vi/Health Care Facilities: Hospitals and health care facilities may use equipment that is particularly sensitive to external radio frequency emissions.

Turn X10DR off when staff or posted signs instruct you to do so.

vii/Blasting Areas and Posted Facilities: To avoid interfering with blasting operations, turn off the X10DR when in a "blasting area" or in areas posted "Turn off two-way radio." Obey all signs and instructions.

Informations importantes de sécurité et de manutention



AVERTISSEMENT: Le non-respect de ces consignes de sécurité peut provoquer un incendie, de choc électrique ou d'autres blessures ou de dommages à X10DR ou d'autres biens. Lisez toutes les instructions de sécurité pour tous les produits et accessoires avant d'utiliser avec X10DR. CMT n'est pas responsable de l'exploitation, ou tout dommage causé par des accessoires tiers ou de leur conformité aux normes de sécurité et réglementaires.

Pour éviter toute blessure, lisez toutes les instructions et les consignes de sécurité suivantes avant d'utiliser X10DR. Pour les versions téléchargeables de la dernière version du Guide de l'utilisateur de X10DR, visitez: www.wirelesscorp ltd.com

Radio Frequency Interference:

L'émission de fréquences radio émises par les équipements électroniques peuvent affecter négativement le fonctionnement des autres appareils électroniques, les obligeant à un dysfonctionnement. Bien X10DR est conçu, testé et fabriqué conformément aux règlements régissant l'émission de radiofréquences dans les pays comme les États-Unis, le Canada, l'Union européenne et le Japon, les émetteurs sans fil et les circuits électriques dans le X10DR peut provoquer des interférences avec d'autres équipements électroniques. Par conséquent, s'il vous plaît prendre les précautions suivantes:

i / Avion: L'utilisation de X10DR peut être interdite dans les avions.

ii / Véhicules: les émissions de radiofréquences par des X10DR peuvent affecter les systèmes électroniques des véhicules à moteur. Vérifiez auprès du fabricant ou de son représentant votre véhicule.

L'exposition à l'énergie radioélectrique :

L'unité émet et reçoit des fréquences radio (RF) par l'intermédiaire de ses antennes. Les antennes sont situés au niveau du bord supérieur de l'unité . Le Président de microphone sans fil est conçu et fabriqué pour respecter les limites d'exposition à l'énergie RF fixées par les organismes de réglementation internationaux, y compris la FCC des États-Unis , du Canada IC , MIC du Japon , et l'avocat de l'Union européenne , entre autres . L'appareil a été testé et répond aux FCC , IC , et l'Union européenne RF normes d'exposition applicables 802.15 opération. Pour assurer des niveaux d'exposition restent égales ou inférieures aux limites maximales de sécurité , pour transporter l'appareil , utilisez uniquement le Président de microphone sans fil avec fourni des vêtements clip de fabricant ou un support non métallique qui assure l'antenne reste supérieure à **25 mm (1 po)** de votre corps à tout moment. Une antenne externe est connectée au connecteur de sortie du chargeur mobile ou au connecteur de sortie de l'amplificateur bidirectionnel XBDA . Toujours garder votre corps au moins 20 cm (8 ") de thevéhicule antenne externe installée . Le XBDA n'est approuvé pour une utilisation avec l'unité X - Ponder lorsque conformément à la réglementation en matière d'homologation de chaque pays .

Atmosphères explosibles:

Désactiver X10DR dans des zones avec une atmosphère potentiellement explosive. Ne chargez pas X10DR, et respectez tous les panneaux et instructions. Des étincelles dans de telles zones pourraient causer une explosion ou un incendie, causant des blessures graves ou même la mort.

Les zones à atmosphère potentiellement explosive sont souvent, mais pas toujours, clairement indiquées. Les zones potentielles comprennent: les zones de carburant (comme les stations d'essence), au-dessous du pont des bateaux, de carburant ou de transfert ou au stockage de produits chimiques, les véhicules utilisant du gaz de pétrole liquéfié (comme le propane ou le butane), des zones où l'air contient des produits chimiques ou des particules (le grain, la poussière ou les poudres métalliques) et tout autre endroit où il vous serait normalement recommandé d'arrêter le moteur de votre véhicule.

Exposure to Radio Frequency Energy:

The unit transmits and receives radio frequency (RF) energy through its antennas. The antennas are located at the top edge of the unit. The Wireless Speaker Microphone is designed and manufactured to comply with the limits for exposure to RF energy set by international regulatory agencies, including the FCC of the United States, IC of Canada, MIC of Japan, and the Counsel of the European Union, among others. The unit has been tested and meets the FCC, IC, and European Union RF exposure guidelines for 802.15 operation. To ensure exposure levels remain at or below the maximum safe levels, when carrying the unit ONLY use the Wireless Speaker Microphone with the manufacturer's supplied clothing clip or a non-metallic holder that ensures the antenna remains greater than **25mm (1 inch)** from your body at all times. An external antenna is connected to the output connector on the mobile charger. Always keep your body at least 20cm (8") from the vehicle mounted external antenna.

Potentially Explosive Atmospheres:

Turn off X10DR when in any area with a potentially explosive atmosphere. Do not charge X10DR, and obey all signs and instructions. Sparks in such areas could cause an explosion or fire, resulting in serious injury or even death. Areas with a potentially explosive atmosphere are often, but not always, marked clearly. Potential areas may include: fuelling areas (such as gas stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

Battery Replacement:

Do not attempt to replace the rechargeable battery in X10DR yourself. The battery should be replaced only by WCL or an WCL Authorized Service Provider. The battery should be re-cycled/dispensed of thoughtfully.

Antenna Replacement:

Only use the antennas supplied. Use of other antenna types will void type approval. This radio transmitter (IC:11443A-X10DRMD) was approved by Industry Canada to operate with the antenna types listed in this manual with the maximum permissible gain and required antenna impedance for each antenna type indicated. Types of antennas is not included in this list, having a higher gain than the maximum gain indicated this type are strictly prohibited for use with this device and will void type approval.

Cet émetteur radio (identifier le dispositif par numéro de certification ou le numéro de modèle de la catégorie II) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-après le gain maximal autorisé et de l'impédance d'antenne requise pour chaque type d'antenne indiqué. Types d'antennes ne sont pas inclus dans cette liste, ayant un gain supérieur au gain maximum indiqué ce type sont strictement interdits pour une utilisation avec cet appareil.

Proper Care & Handling Information

Charging your X10DR Life :

To charge X10DR, use only the WCL mobile or desktop charger. When you use the WCL desktop charger to charge X10DR, make sure that the power adapter is fully assembled before you plug it into a power outlet. Then insert the WCL AC/DC plug pack firmly into the power outlet. Do not connect or disconnect the WCL AC/DC plug pack with wet hands. The WCL AC/DC plug pack may become warm during normal use. Always allow adequate ventilation around the WCL AC/DC plug pack and use care when handling. Unplug the WCL AC/DC plug pack if any of the following conditions exist:

- 1/ The power cord or plug has become frayed or damaged.
- 2/ The adapter is exposed to rain, liquid, or excessive moisture.
- 3/ The adapter case has become damaged.
- 4/ You suspect the adapter needs service or repair.
- 5/ You want to clean the adapter.

Cleaning your X10DR Life :

Clean X10DR immediately if it comes into contact with any contaminants that may cause possible malfunctions—for example, ink, dyes, makeup, dirt, food, oils, and lotions. To clean X10DR, unplug all cables and turn off X10DR (press and hold the manual On/Off button). Then use a soft, slightly damp cloth. Don't use abrasive household or industrial cleaners, aerosol sprays, solvents, alcohol, ammonia to clean X10DR.

Connectors and Press Buttons:

Never force a connector into a port or apply excessive pressure to a button, because this may cause damage that is not covered under the warranty. If the connector and port don't join with reasonable ease, they probably don't match. Check for obstructions and make sure that the connector matches the port and that you have positioned the connector correctly in relation to the port.

Acceptable Temperature Extremes:

X10DR is designed to be normally operated and stored in temperatures between -20° and 55°C (-4° to 122°F). Lower or higher temperatures might shorten battery life or cause X10DR to temporarily stop working correctly. Leaving X10DR in a parked vehicle or in direct sunlight can cause X10DR to exceed these storage or operating temperature ranges. Avoid dramatic changes in temperature or humidity when using X10DR, as condensation may form within the unit. When you're using X10DR or charging the battery, it is normal for X10DR to get warm. Battery will only charge when its ambient temperature is within safe limits.

Driving Safely:

Use of X10DR while driving a vehicle or riding a motorbike may be distracting. If you find using X10DR disruptive or distracting while driving or riding, pull off the road and park before making or answering a call. Use of X10DR while driving or riding is not recommended and is illegal in some countries. Check and obey the laws and regulations regarding the use of mobile devices like X10DR in the areas where you drive or ride.

Air Bag Equipped Vehicles:

An air bag inflates with great force. Do not store X10DR or any of its accessories in the area over the air bag or in the air bag deployment area.

Carrying and handling X10DR:

X10DR contains sensitive components. Do not drop, disassemble, microwave, burn, paint, or insert foreign objects into X10DR. Do not use X10DR if it has been damaged—for example, if X10DR is cracked, punctured, or damaged by water.

Specifications

Subject to change or improvement without notice

X10DR Lite has been designed to meet the following global specifications:

Models: X10DR-LU1 Lite (X10DR-XU1)
 Dimensions: 88 x 28 x 63mm (spk mic) 80 x 80 x 60 (chgr)
 3.46 x 1.1 x 2.48" (spk mic) 3.15 x 3.15 x 2.36" (chgr)
 Weight: 149 grams (spk mic) 125 grams (chgr)
 5.25 oz (spk mic) 4.4oz (chgr)

Frequency: 2.40-2.48GHz FH Spread Spectrum
 Protocol: 802.15.4 based derivative
 RF Power: <100mW
 Battery Type: 3.7V @1450mA Lithium Polymer
 Battery Life: >15 Hours @ 30% receive time
 Encryption: SAFER+ 64Bit
 RF Connectors: RP SMA Female
 Rated Audio/Distortion: >250mW @5% THD
 Operating Voltage: 7-16VDC
 Operating Temperature: -20°C to +55°C /-4°F to +122°F
 Shock & Vibration: Mil Std 810 C/D/E/F
 Humidity/Rain/Dust: IEC529, IP55 (spk mic only)
 Type Acceptance: CE, FCC, IC, Aust/NZ, SIN, Qatar, Brazil,

Type Acceptance

FCC ID: I7OBT-24H / I7OBT-24D

Location of labelling

IC:11443A-X10DRSM
 IC:11443A-X10DRMD





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