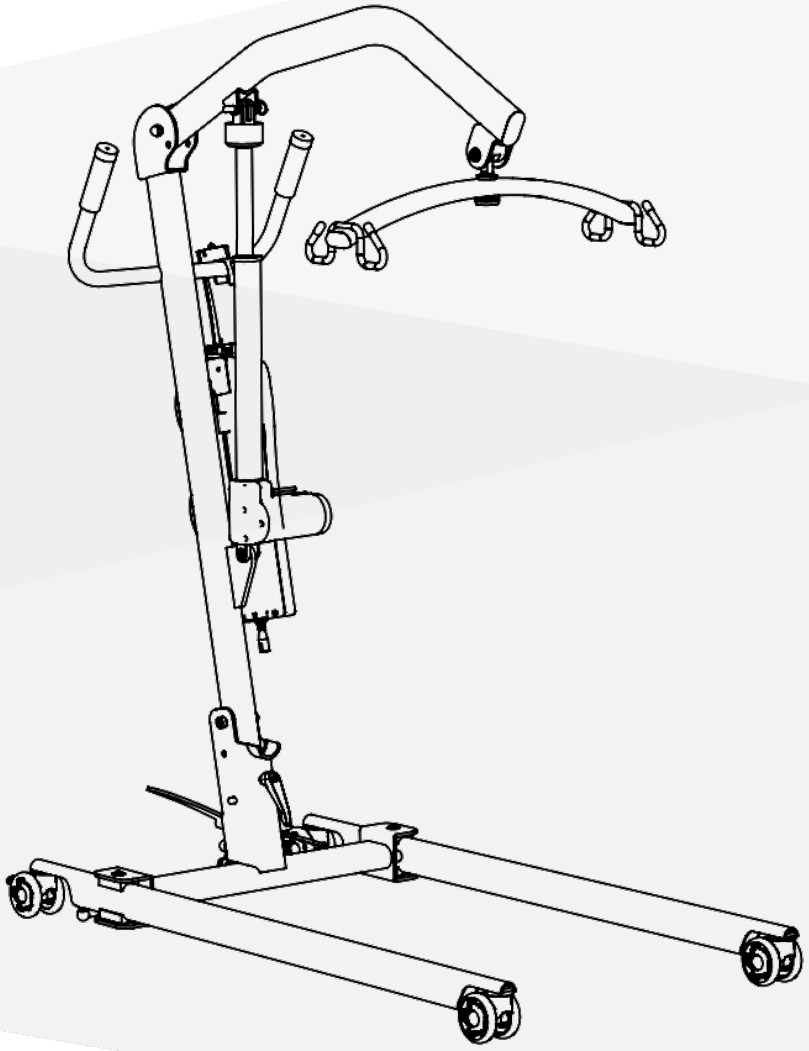
Wizemed

User manual

Model: PL350

CE UKCA



Electric Patient Lift

Contents

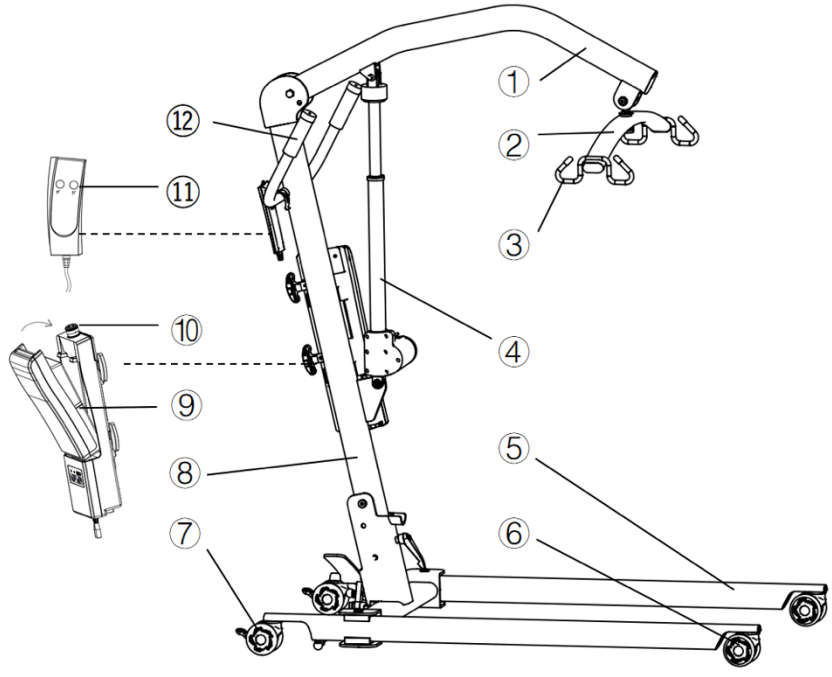
1.0 Product overview

Product Name: Electric Patient Lift

Model: PL350

Intended Use:
This device is designed for transferring disabled individuals from one resting surface to another, such as from a wheelchair to a medical bed, and vice versa.

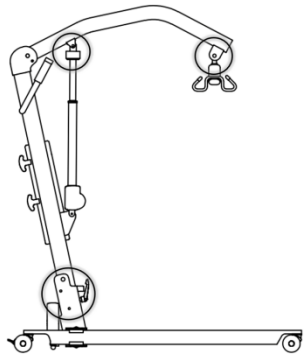
Appearance and Components:



①Boom	⑤Base leg	⑨Control box with detachable battery
②Spreader bar	⑥Front castor	⑩Emergency stop(RED)
③Hook for sling	⑦Rear castor with brake	⑪Handset
④Actuator	⑧Foldable mast	⑫Push handle

Indications:
This product is intended for use in professional healthcare facilities as well as home healthcare settings. It is not

designed for independent use by the patient. Lifting and transferring a patient should always be carried out with the assistance of at least one caregiver.
This product is provided with castors for convenience but not as means to be wheeled across thresholds or similar obstacles.
There are no known contraindications for this product.



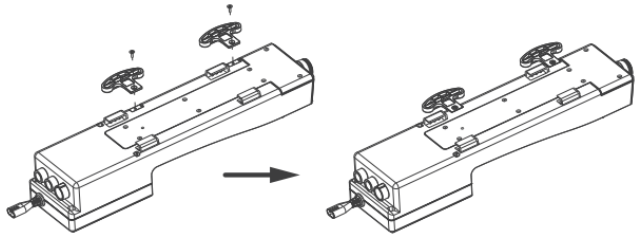
Applied part: the sling.

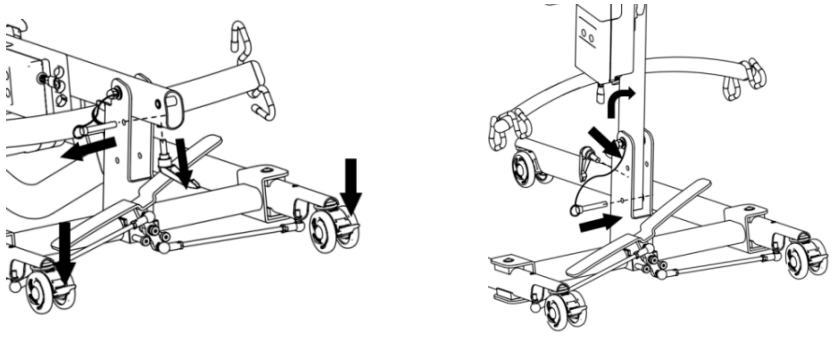
Pinch points
Keep hands and fingers clear of the several pinch points during operation.
Pay constant attention to the position of moving parts in relation to the patient or operator when handling the device.

Warranty:
The lift is guaranteed for one year from the date of purchase under proper use and service.
Expected Lifetime:
The lift has an expected service life of 5 years when handled, serviced, and inspected correctly according to the provided instructions.

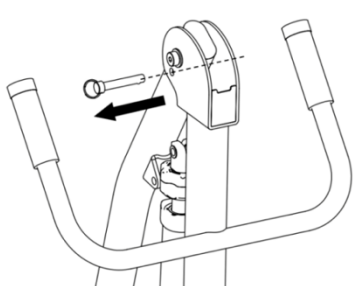
2.0 Setup

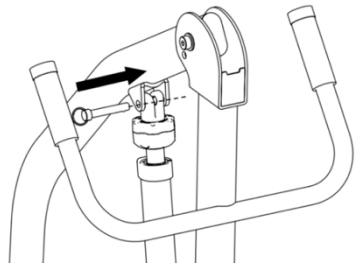
Assembly Instructions:
1.Use the supplied M3x10 (2) tapping screws to lock the hook on the control box.
2.Place the device on a level surface. Lock both rear castors.
Remove the locking pin from the upper hole of base support.Rotate the M10 hand screw and remove it from the mast.





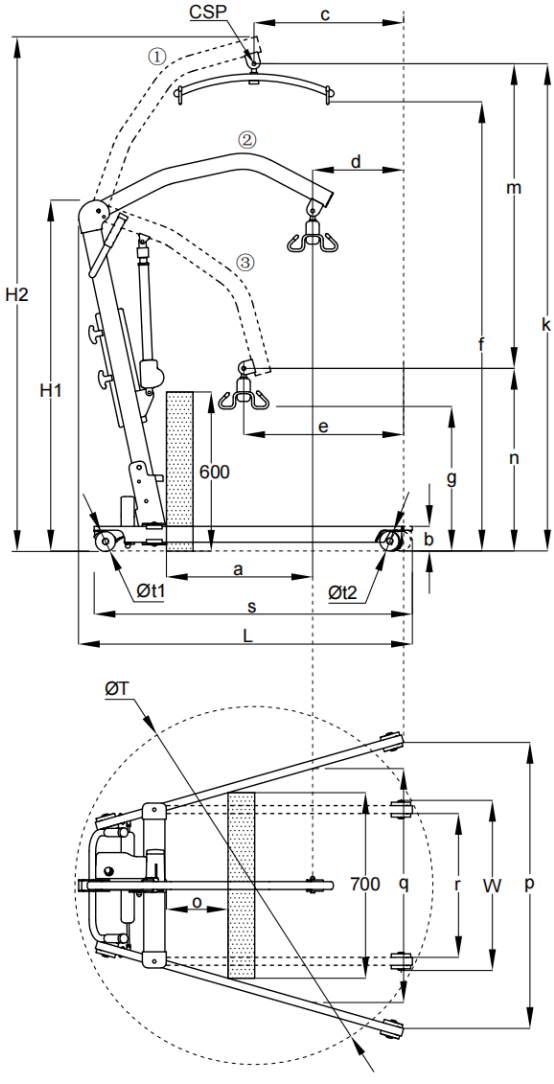
3.Hold the push handle and raise the mast to an upright position.
Reinstall the locking pin through the suppport of base and the mast. Make sure to insert the pin in the lower hole.
Rotate the hand screw in the front M10 hole.
4.Remove the other locking pin from the top hole.
5.Hold the boom and actuator and make sure to fit the actuator connector to the boom mounting bracket. Align the holes and reinstall the locking pin securely.



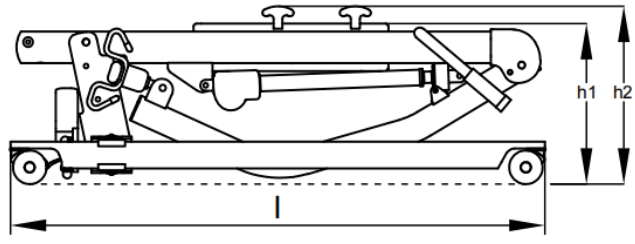


3.0 Technical data

Safe Working Load (SWL): 180kg
Total weight (without SWL): 37kg
Battery: 24V/5.0Ah, lead-acid, 3.6kg
Sound Level: ≤65dB
Actuator: 24V, 8000N push load, 10% Duty Cycle (2-minute ON,18-minute OFF)



When folded,



CSP means central suspension point, a reference point to be used for measurements.

①——highest position , ②——maximum reach position , ③——lowest position

Dimensions (unfolded) : L x W x H1	1260mm x 640mm x 1325mm	
Dimensions (folded) : l x W x h2	1200mm x 640mm x 400mm	
a	Maximum reach at 600 mm (reference height); Same as maximum reach from base	550mm
b	Base height	96mm
c	Minimum distance from wall to CSP at maximum height (legs spread)	565mm
d	Minimum distance from wall to CSP at maximum reach(legs spread)	340mm
e	Minimum distance from wall to CSP at minimum height (legs spread)	600mm
f	Maximum height of hook for sling (without load)	1685mm
g	Minimum height of hook for sling (without load)	545mm
h1	Height when folded without cable winding hooks	360mm
H2	Maximum height of the lift	1940mm
k	Maximum height of CSP (without load)	1830mm
m	Lifting range	1140mm
n	Minimum height of CSP (without load)	690mm
o	Reach from base with legs spread to 700 mm	230mm
p	Maximum internal width	1080mm
q	Internal width at maximum reach	880mm
r	Minimum internal width	550mm
s	Base length(with wheels facing inwards)	1200mm
T	Turning diameter	1350mm
t1	Front castor diameter	75mm
t2	Rear castor diameter	75mm

General dimensional tolerances: +/- 5%.

Operating forces of controls

Type of operation	The control be applied on	Operating force or torque
Press with one finger	Control box and handset	< 5 N
Press with one hand	Emergency stop button	< 105 N
Pedal with one foot	Foot pedal(without load) and brake pedal	< 300 N
Clockwise rotation to release the button	Emergency stop button	< 1.9 N • m

Operation Conditions:
For optimum performance, operate the lift within the following condition range:
a) Ambient temperature: +5℃ to +40℃
b) Relative humidity: 20% to 80%
c) Atmospheric pressure: 80kPa to 106kPa
d) Charging input: 100-240VAC, 50/60Hz; Discharging output: 24VDC
e) No potential electromagnetic interference with other devices

4.0 Usage

Charging Batteries:
Lock the castors when charging the battery.
Ensure that the emergency stop button is not pressed.
Treat the mains plug as a disconnecting device from the mains.
Familiarize yourself with the instructions for using the lift and lifting accessories.
Charging Procedure:
1. Connect the charging cable from the control box to the power plug.
2. Connect the power cable to a power outlet (100-240V AC).
3. Once connected, observe the control box lamp:
   - Flashing green lamps indicate charging in progress.
   - Four steady green lamps without flashing indicate a fully charged battery. If not, check the connection

between the control box and the charging cable.

Battery level indicator	Status
	Full battery level
	About 75% battery level
	About 50% battery level
	Can barely use, but charge it when there is a chance.
	Need to charge immediately

4. The battery in the control box fully charges in approximately 7 hours. To protect the battery, do not exceed an 8-hour charging time.
5. Regularly check the battery capacity and promptly charge it if the capacity is low.

Notes:

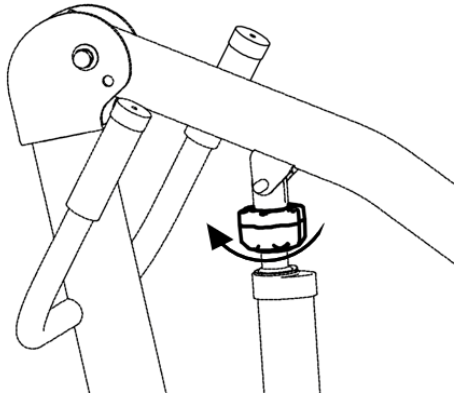
1. Before the lift is used for the first time, charge it for at least 7 hours.
2. Recharge batteries regularly. We recommend daily charging when the lift is in use.

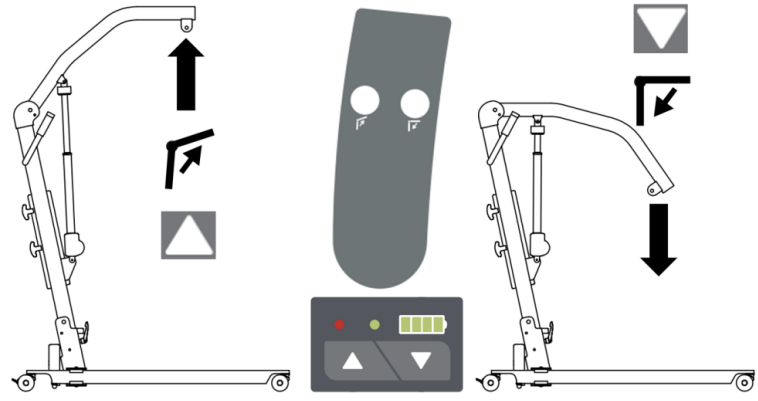
Handset:

The handset features two buttons on the front, controlling the lifting and lowering movements of the boom. Motion ceases upon button released.

Spare control keys:

The up and down buttons on the control box have the same function.





Mechanical emergency lowering:

If the down buttons mentioned above is not working, you can use the mechanical emergency lowering as a backup. Rotate the RED emergency release knob clockwise, and put down the patient safely onto a supporting surface like a chair or a bed.

5.0 Troubleshooting

Troubleshooting Guide:
The lift undergoes inspection before delivery. Failures encountered during use may be attributed to the following situations.

Problem	Possible Cause	Solution
No response when pressing the up or down buttons.	Actuator plug loose.	Tighten the plug.
	Handset plug loose.	Tighten the plug.
	Battery low.	Charge in time.
	Red emergency stop button is pressed in.	Rotate it clockwise until it pops out.
	Overload	Reduce the load.
Unable to push the lift	Castors can't be unlocked.	Check the brakes or replace new castors.
	Castors are stuck.	Check the base and avoid obstacles.
Battery can't be charged	Power cable failure.	Contact your dealer.
	Battery failure.	Replace battery.

6.0 Maintenance

Cleaning Methods/Maintenance:
Cleaning:
To maintain cleanliness, use only pH-neutral detergents to wipe the lift. Ensure prompt drying after wiping and check that the castors are free of dirt and hair.
Maintenance of Important Parts:

- The sling, made of flame-retardant material, is washable and deformation-resistant. Follow the washing conditions specified on the sling label for disinfection and cleaning.
- Regularly inspect the fabric, seams, and straps for any signs of damage, wear, or potential failure.
- Check the base legs for easy widening, ensure castors turn flexibly, and confirm brakes are quick and effective.
- Inspect connections for looseness, deformation, rust, or any other issues.

Check structural parts for wear, cracking, or deformation.

7.0 Safety

Precaution and Warning：
Please read and follow the safety precautions listed below to ensure a simple and trouble-free lifting operation.Read and understand this instruction before use.
WARNING: Important Safety Information
***ALWAYS** use the lift indoors.
***ALWAYS** familiarize yourself with the operating control and safety features before lifting a patient.
***ALWAYS** check the sling's suitability for the patient's size and capacity.
***ALWAYS** verify the lift's safe working load for the patient's weight.
***ALWAYS** carry out lifting operations according to the user manual instructions.
***ALWAYS** move the lift with the provided push handle.
***ALWAYS** lower the patient to the lowest comfortable position before transfers.
***ALWAYS** cut off the power and press the emergency stop button when not in use.
***DO NOT** use a sling unless recommended for use with the lift.
***DO NOT** load sharp objects to prevent scratching and safety hazards.
***DO NOT** overload; the safe working load is 180kg.
***DO NOT** lift a patient with castor brakes unlocked; let the lift find the correct center of gravity.
***DO NOT** attempt to move the lift by pushing on the mast, boom, or patient.
***DO NOT** push the lift over uneven or rough ground, especially if loaded.
***DO NOT** attempt to push/pull a loaded lift over a floor obstruction the castors can't ride over.
***DO NOT** park a loaded lift on ANY sloping surface.
***DO NOT** use electric lifts in a shower.
***DO NOT** charge electric lifts in a bathroom or shower room.
***DO NOT** lift a patient unless you are trained and competent to do so.
***DO NOT** operate the lift repeatedly for an extended time without interruption after loading; this may damage the actuator.
***DO NOT** position the product so that it is difficult to operate the disconnection device.
***DO NOT** use power cords of other specifications. If you need to replace it, contact your dealer.
***NEVER** use a frayed or damaged sling.

8.0 Transportation and storage

Transportation and Storage:
During transportation or when the lift is not in use for an extended period, press the RED emergency stop button.
The environment for transporting and storing the lift should meet the following conditions:
a) Ambient temperature range: -10℃ to +50℃
b) Relative humidity range: Less than 90%
c) Ensure no corrosive gases and maintain good ventilation.
Storage:
Store the lift in a dry, well-ventilated area to prevent exposure to sunlight, rain, and corrosive chemicals (oil, acid, alkali). Protect the lift from accidental impact and shield the handset from liquid damage.
Package:
The package consists of one set per master carton.

9.0 Symbols

Symbols and Meaning:

Symbol	Introductions	Symbol	Introductions	Symbol	Introductions
	Serial number		Date of Manufacture		Manufacturer
	CE Symbol		UK Conformity Assessed		Name and Address of European Union Representative
	Class Ⅱ equipment		Type B applied part	IPX4	Ingress Protection Rating
	Do not dispose in general waste		Medical device		Warning Must be used exclusively indoors on a level surface.
	Follow instructions for use (The background colour is blue)		Do not use the actuator as a push bar (Circular band and slash: red)		Emergency stop

10.0 Electromagnetic compatibility (EMC)

10.1 General EMC information

Medical Electrical Equipment needs to be installed and used according to the EMC information in this manual.
This product has been tested and found to comply with EMC limits specified by IEC/EN 60601−1−2 for Class B equipment. Portable and mobile RF communications equipment can affect the operation of this product.
Other devices may experience interference from even the low levels of electromagnetic emissions permitted by the above standard. To determine if the emission from this product is causing the interference, run and stop running this product. If the interference with the other device operation stops, then this product is causing the interference. In such rare cases, interference may be reduced or corrected by the following:

- Reposition, relocate, or increase the separation between the devices.

10.2 Electromagnetic emission

Guidance and manufacturer´s declaration
This product is intended for use in the electromagnetic environment specified below. The c ustomer or the user of this product should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	This product uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	This product is suitable for use in all establishments including domestic establishments and those directly connected to the public low−voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000−3−2	Class A	The product is applicable to all household facilities, as well as those directly connected to the residential public low-voltage power supply network.The Electric patient lift is applicable to all household facilities, as well as those directly connected to the residential public low-voltage power supply network.
Voltage fluctuations /flicker emissions IEC 61000−3−3	Complies	

10.3 Electromagnetic Immunity

Guidance and manufacturer´s declaration
This product is intended for use in the electromagnetic environment specified b elow. T he c ustomer or t he u ser of this product should assure that it is used in such an environment.

Immunity test	Test / Compliance level	Electromagnetic environment − guidance
Electrostatic discharge (ESD) IEC 61000−4−2	± 8 kV contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrostatic transient / burst IEC 61000−4−4	± 2 kV for power supply lines; 100 kHz repetition frequency ± 1 kV for input / output lines; 100 kHz repetition frequency	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000−4−5	± 1 kV line to line ± 2 kV line to earth	Mains power quality should be that of a typical commercial or hospital environment.

Immunity test	Test / Compliance level	Electromagnetic environment – guidance
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000–4–11	< 0% U_T for 0,5 cycle at 45° steps 0% U_T for 1 cycles 70% U_T for 25 / 30 cycles < 5% U_T for 250 / 300 cycles	Mains power quality should be that of a typical commercial or hospital environment. If the user of this product requires continued operation during power mains interruptions, it is recommended that the product is powered from an un–interruptible power supply or a battery. U_T is the a. c. mains voltage prior to application of the test level.
Power frequency (50/60 Hz) magnetic field IEC 61000–4–8	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Conducted RF IEC 61000–4–6 Radiated RF IEC 61000 –4–3	3 V 150 kHz to 80 Mhz 6 V in ISM & amateur radio bands 10 V/m 80 Mhz to 2,7 GHz 385 MHz – 5785 MHz test specifications for immunity to RF wireless communication equipment refer to table 9 of IEC 60601–1–2	Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which this product is used exceeds the applicable RF compliance level above, this product should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating this product. Interference may occur in the vicinity of equipment marked with the following symbol:  Portable and mobile RF communications equipment should be used no closer than 30 cm to any part of this product including cables.

These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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