

Thank you for purchasing the **BC-190** DESKTOP CHARGER. The BC-190 is designed to charge Li-ion battery packs.

Please read these instructions thoroughly before using the BC-190.

## PRECAUTIONS

⚠ **DANGER!** Charge the specified Icom battery packs only. Only tested and approved for use with genuine Icom battery packs. Fire and/or explosion may occur when a third-party or counterfeit battery pack is charged.

⚠ **USE INDOORS ONLY! NEVER** expose the charger to rain, snow or any liquids.

⚠ **CAUTION! NEVER** insert battery pack (with/without the transceiver) in a wet or soiled condition into the charger. This may result in corrosion of the charger terminals or damage to the charger. The charger is not waterproof and water can easily get into it.

**NEVER** attempt to charge alkaline or dry cell battery packs. The BC-190 charges Li-ion battery packs only.

**NEVER** let metal, wire, etc. touch any internal part of the charger.

**NEVER** incinerate used battery packs. This may cause an explosion.

**NEVER** use the charger when it is covered by objects which impede heat dispersal.

**AVOID** charging in conditions of extreme cold (under +10°C; +50°F) or extreme heat (over +40°C; +104°F), or unusual conditions like overvoltage. Otherwise, the safety/protection circuit in the charger will activate, then stop charging.

Place the charger in a secure place to avoid inadvertent use by children.

Keep the charger away from TV sets or radios to prevent interference.

⚡ Make sure battery and charger contacts are always clean; otherwise battery packs may not be charged properly.

**SAVE THESE INSTRUCTIONS!** These instructions contain important safety and operating details for the **BC-190**.

### ⚡ Recommendation:

Li-ion battery packs are different from Ni-Cd battery packs in that it is not necessary to completely charge and discharge them to prolong the battery life. Therefore, charging the battery in intervals and not for extended periods is recommended.



Some versions of the BC-190 which display the "CE" symbol on the serial number comply with the essential requirements of the 2004/108/EC directive for Electromagnetic Compatibility.

This compliance is based upon the harmonised CENELEC generic standard EN61000-3-2: 2006, EN61000-3-3+A2: 2005, EN61000-6-1: 2007 and EN61000-6-3: 2007.

## FCC INFORMATION

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:

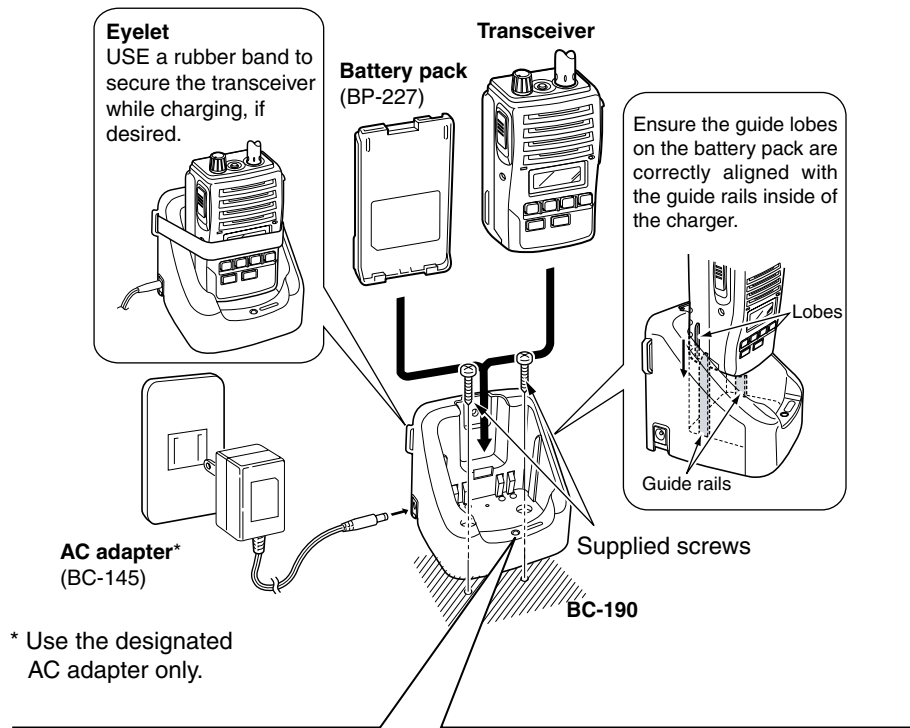
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC WARNING

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

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.

## CHARGING OPERATION



### CHARGE INDICATOR

- Lights orange : While charging
- Lights green : Charging is completed.
- Blinks red  
: The inserted battery pack and/or the charger have some problems.  
: The protector is activated (not a malfunction) such as when;
  - The battery pack temperature exceeds +45°C (+113°F).
  - Remove and cool down the BP-227.

- The end of the battery pack's working life.
- When the indicator blinks within 1 hour from the start of the charging, charge the BP-227 without a transceiver or with a powered-off transceiver. In case the charge indicator still blinks red, replace to a brand new BP-227.

When the charge indicator does not light even after a battery pack is inserted properly, the battery pack may have some problems.

### While Charging:

- AVOID transmission. Remove the transceiver from the charger when you need to transmit.
- REMOVE the transceiver immediately from the charger when you receive a call.
- REMOVE optional equipment from [SP MIC] jack of the transceiver.

### NOTE:

The BC-190 will not fully charge a battery pack (about 90% of fully charged condition) for battery protection. And the operating time of a transceiver with the battery pack will be shorter. If you would like to fully charge the battery pack, use the BC-119N instead of the BC-190.

### NOTE:

After charging is completed, the BC-190 will recharge a battery pack automatically when the battery voltage decreases to 8 V. When the battery pack is often left in the BC-190 for long periods, the battery life cycle will be shorter.

### Charging period

2.5 hours\* (BP-227)

\* When charging BP-227 with a powered-on transceiver, the charging period can be up to 4.25 hours.

## SUPPLIED ACCESSORIES

Item	Qty.
• AC adapter (BC-145)* .....	1
• Screws (3.5×30 mm) .....	2

\* Different type or no AC adapter is supplied depending on the version.

## SPECIFICATIONS

<b>Dimensions</b>	: 86(W)×78.5(D)×81(H) mm (proj. not incl.) 3 <sup>3</sup> / <sub>8</sub> (W)×3 <sup>3</sup> / <sub>2</sub> (D)×3 <sup>3</sup> / <sub>16</sub> (H) in.
<b>Weight</b>	: Approx. 144 g; 5 oz
<b>Charging temperature range</b>	: +10°C to +40°C; +50°F to +104°F
<b>Power supply requirement</b>	: 12 to 20 V DC or the specified Icom AC adapter (BC-145)
<b>Charging current</b>	: 840 mA±10% (rapid charge)

All stated specifications are subject to change without notice or obligation.

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