



Newland AIDC

SCANNING MADE SIMPLE



Battery Care
Guidelines.



Battery Care Guidelines

This guide provides essential instructions for the safe, effective use and maintenance of Newland AIDC EMEA lithium-ion batteries in conjunction with mobile computers and Wireless Bluetooth devices. Implementing these best practices can enhance battery performance, extend device lifespan, and ensure user safety.

Battery Use and Charging

1. Initial Charging

Fully charge the battery before using the product for the first time.

2. Use of Approved Chargers

Always use the charger supplied by Newland AIDC EMEA. Avoid third-party chargers that have not been approved, as these may pose safety risks. Charge in well-ventilated areas away from flammable materials.

3. Optimal Charging Conditions

To ensure the longest possible battery lifespan, Newland AIDC EMEA batteries must be charged in a well-ventilated environment at temperatures between 0 °C (32 °F) and 30 °C (86 °F).

4. Regular Use

Use the device and battery regularly. If not in regular use, charge the battery every few months. Avoid letting the battery level drop below 5%, as this can cause permanent capacity loss due to deep discharge.

5. Battery Lifespan and Replacement

Battery longevity depends on charging cycles, usage, temperature, and storage conditions. Typically, lithium-ion batteries last for 300 to 500 full charge cycles or until capacity declines to 70-80%. Replace the battery when noticeable performance drops occur.

6. Monitoring Battery Health

Check stored batteries regularly for damage or wear. Reduced operating time is a key indicator that the battery may need to be replaced. Dispose of defective batteries according to safety guidelines.

7. Proper Handling

Handle batteries carefully. Dropping, crushing, or mishandling the battery or device can lead to performance issues, fire, or chemical hazards.

8. Handling Damaged Batteries

Treat leaking or damaged batteries with extreme caution using gloves and eye protection. Improper handling could increase the risk of injuries such as chemical burns, fire and explosion, inhalation of toxic fumes, and electric shocks.



Safety and Maintenance Precautions

1. Battery Disposal

Dispose of batteries responsibly, following local regulations. Always insulate the battery poles with tape before disposal to avoid short circuits.

2. Avoid Physical Pressure

Do not place heavy objects on top of batteries, as this can cause deformation or damage.

3. Keep Away from Hazards

Store batteries away from flammable or conductive materials.

4. Keep Out of Reach of Children

Ensure batteries are stored safely to prevent accidental ingestion or injury.

5. Prevent Short-Circuiting

Avoid contact between battery terminals and conductive materials (e.g., coins, keys). Never carry loose batteries in pockets or bags with metallic objects.

6. Avoid Water Exposure

Do not expose batteries to moisture or water under any circumstances.

7. Do Not Disassemble

Do not pierce, disassemble, or tamper with the battery casing. Internal components may be hazardous.

8. Battery Removal

Use appropriate tools when removing batteries. Avoid using sharp objects to prevent injury or battery damage.

Battery Storage Guidelines

1. Storage Charge Level

Store batteries at a charge level between 30% and 50% to reduce capacity degradation over time.

2. Cool, Dry Conditions

Keep batteries in a dry, non-condensing environment with humidity below 70%.

3. Temperature Range

Store between 5°C and 30°C (41°F to 86°F). Avoid exposure to temperatures above 60°C (140°F) or extreme cold.

4. Periodic Maintenance During Long-Term Storage

If a battery must be stored for an extended period (up to one year), recharging mobile computer batteries at least once every 6 to 8 months is recommended.

For low-capacity batteries used in handheld scanners and N-Wear Bluetooth devices, the re-charge time for stored batteries is 4 to 6 months. This helps prevent excessive self-discharge, leakage, or irreversible battery performance degradation.

5. Keep Away from Sunlight and Excessive Heat

Do not store batteries in direct sunlight or near heat sources.

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