

# Torch With Batteries

## Description

A **Torch With Batteries** is a portable, hand-held illumination device used in medical, surgical, diagnostic, and veterinary settings to provide focused light during examinations. Designed for reliability and clarity, it ensures proper visibility of body cavities, wounds, skin surfaces, and surgical areas. Torches may come with replaceable or rechargeable batteries and are built to withstand frequent clinical use. Lightweight, durable, and easy to operate, these torches are essential diagnostic tools for emergency rooms, general practice clinics, and field environments.

## Specifications

- High-intensity LED or halogen light
- Battery-operated (AA, AAA, or rechargeable lithium cells)
- Metallic or high-impact polymer body
- Focused beam design
- Easy on/off switch
- Long-lasting battery performance
- Non-slip grip and compact construction
- Detachable or fixed battery chamber
- Some models include pocket clips for convenience

## Sizes

- Length: 12–16 cm
- Diameter: 1.5–2.5 cm
- Weight: Lightweight, varies by material and battery type

## Shapes

- Cylindrical, pen-style body
- Straight uniform tube
- Slightly tapered head for beam focusing

## **Types**

- Penlight torch
- Standard LED medical torch
- Halogen medical torch
- Rechargeable torch with lithium battery
- Disposable penlight with built-in battery

## **Material**

- Aluminium alloy body
- Stainless-steel clip (optional)
- High-impact ABS polymer
- Acrylic or glass lens

## **Category**

- Diagnostic Accessories
- Illumination Devices

## **Product Form**

- Torch with included batteries (disposable or rechargeable)

## **Usage**

- Examining nose, throat, ears, and eyes
- Assessing wounds or surgical sites
- Checking pupil reaction (using penlight)
- Providing illumination during minor medical procedures
- Emergency and field diagnostics

## **Advantages**

- Portable and easy to operate
- Bright, focused illumination
- Long battery life
- Durable for daily medical use
- Lightweight and comfortable to carry

## **Disadvantages**

- Batteries need periodic replacement
- Disposable penlights create waste
- Light output may reduce as battery weakens
- Not suitable for deep cavity illumination

## **Precautions**

- Replace batteries regularly for accurate illumination
- Avoid dropping to prevent lens or LED damage
- Keep dry and away from disinfectants that may corrode the body
- Do not shine directly into eyes at close distance
- Clean with a soft, damp cloth (avoid harsh chemicals)

## **HS & HSN Code**

- **HS Code:** 8513
- **HSN Code:** 85131000 (Portable battery-operated lamps)

## **Handling**

- Switch on only when required to preserve battery
- Store in pouch or pocket clip for easy access
- Remove batteries when not in use for long periods
- Keep lens clean for optimal light focus

## **Sterilisation Details**

- Torch is **non-sterilisable**
- Surface can be wiped with disinfectant wipes
- Do not immerse in liquids
- Keep battery compartment dry

## **Human Applications**

- ENT (Ear, Nose, Throat) examinations
- Pupil assessment in neurology
- General wound inspection
- Minor surgical lighting support
- Emergency care evaluations

## **Veterinary Applications**

- Examination of animals' eyes, mouth, ears, and wounds
- Field diagnostics for livestock
- Emergency and night-time veterinary procedures
- General illumination during small-animal treatments

## **FAQs (Frequently Asked Questions)**

### **Q1. What is a Torch With Batteries?**

A **Torch With Batteries (TWB)** is a portable light source used for medical and veterinary examinations.

### **Q2. Which light source is better?**

**LED (Light Emitting Diode)** torches are preferred due to brightness, durability, and efficiency.

### **Q3. Can it be sterilised?**

No, but the exterior can be cleaned with **Disinfectant Wipes (DW)**.

### **Q4. Are disposable penlights available?**

Yes — **Disposable Penlights (DP)** come preloaded with batteries.

### **Q5. Is it suitable for veterinary use?**

Absolutely — it is widely used in **Veterinary Medical Examinations (VME)**.