

# SolarEvol

## **Using UV to Disinfect Everyday Items: A quick, chemical-free way to sanitize what you touch most**

From smartphones and keys to groceries and delivery boxes, our hands constantly come in contact with surfaces that carry bacteria and viruses. UV-C sterilization offers a fast, eco-friendly way to disinfect these everyday essentials—but it's important to know what works and what doesn't.

### **What Can Be Safely Treated with UV-C?**

#### **✓ Mobile Phones & Tablets**

- Use a UV-C phone box or pouch for daily disinfection
- Avoid prolonged exposure to intense light on screens

#### **✓ Keys, Wallets & Eyewear**

- UVC boxes and wands can sanitize these within seconds
- Ensure surfaces are clean of visible dirt for best results

#### **✓ Remote Controls, Game Controllers & Earbuds**

- Safe to disinfect with a handheld UVC wand or enclosed chamber
- Ideal for households with shared electronics

#### **✓ Packages & Mail**

- Wave a UV-C wand over boxes and envelopes
- Especially useful during cold & flu season or for high-risk households

#### **✓ Shoes & Bags**

- Use portable UVC shoe sanitizers or wands to treat soles and handles
- Avoid prolonged exposure to leather or fabric if sensitive to UV

## **Other Commonly Treated Items:**

- ✓ Grocery packaging (sealed)
- ✓ Reusable shopping bags
- ✓ Baby bottles & pacifiers (in enclosed UV boxes)
- ✓ Face masks (non-metallic, fabric types)
- ✓ Kitchen tools, sponges, and cutting boards

## **Items to Use with Caution:**

### **Groceries with soft skin (produce like bananas or tomatoes)**

- UVC can dry out or damage organic tissue. Use indirect treatment or wash instead.

### **Medications & Supplements**

- UV may alter chemical properties. Do not expose pill bottles or blister packs.

### **Paper Currency & Delicate Photos**

- UV can fade pigments or damage paper over time

### **Fabric Items (e.g., clothes, towels)**

- Short exposure is safe, but extended UV-C can weaken fibers

## **Quick Tips for Safe UV Use:**

- Clean off dirt and debris before sterilizing
- Use enclosed or motion-sensor-equipped devices whenever possible
- Never look directly at or expose skin to UV-C light
- Follow product instructions for exposure time and distance

## **Conclusion:**

UV-C light is a fast and effective tool for disinfecting many of the items we use every day. By using the right devices and understanding safe practices, you can reduce germs without relying on harsh chemicals or wasteful wipes.