

Description of Additional Supplementary Files

Supplementary Movie 1: Operation and Flexibility of a Bucket Hat–Integrated Multiple Textile NIR OLED Phototherapy Device

Description: Stable on/off switching of the integrated textile OLED devices during bending is observed, and the electroluminescence remains uniform under mechanical deformation.

Supplementary Movie 2: Textile-based NIR OLED Phototherapy Device Integrated into a Bucket Hat

Description: Operation of textile OLEDs in a bucket hat headwear under realistic wearing conditions is shown.

Supplementary Movie 3: Textile-based NIR OLED Phototherapy Device Integrated into a Baseball Cap

Description: Operation of textile OLEDs in a cap headwear under realistic wearing conditions is shown.

Supplementary Movie 4: Portable battery-powered operation of an FPCB-interfaced NIR OLED stripe

Description: Switch-controlled on/off operation of a textile-based OLED stripe integrating fully flexible components is shown, and the device is driven without a benchtop power supply.

Supplementary Movie 5: Cap-type prototype integrating multiple NIR OLED stripes

Description: Continuous emission of a cap-type wearable platform integrating multiple textile OLED stripes during donning and doffing is shown, indicating stable operation under practical handling.