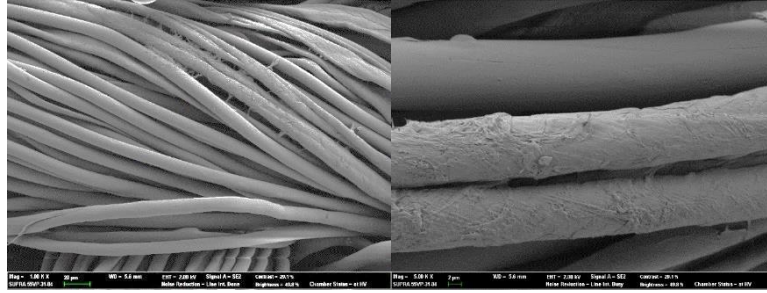
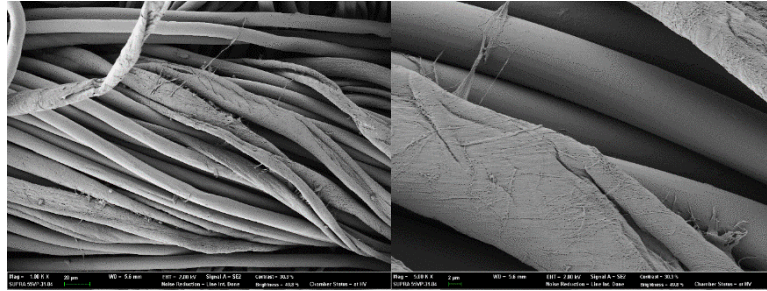


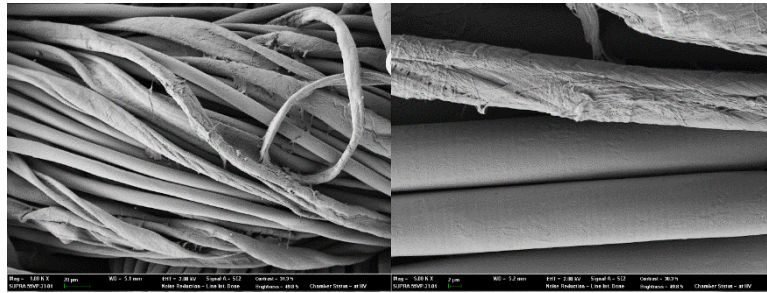
Figure S1. Schematic illustration of recording the fabric movement.



(a)



(b)



(c)

Figure S2. SEM images of fabric samples; (a) unwashed sample, (b) washed by the new system with a built-in pulsator and (c) washed by conventional system.