## **Supporting Information**

## Visually Tolerable Tiling (VTT) for making large-area flexible patterned surface <sup>†</sup>

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Figure S1. Simulation results on single deposited WGP (left) and double deposited WGP (right)



Figure S2. SEM images and measured performance data of single deposited wire grid polarizers. (a) cross-section and top view of 30 nm deposited nano-groove. (b) cross-section and top view of 50 nm deposited nano-groove. (c) cross-section and top view of 70 nm deposited nano-groove. (d) Transmittance of 30 nm single deposited nano-groove in perpendicular and parallel direction to grooves. Blue line and dash represent the value of sample with glass substrate and green ones do the case of PET film substrate. (e) Performance data for 50 nm single deposited wire grid polarizer. (f) Data for 70 nm single deposition.



Figure S3. SEM images and measured performance data of single deposited wire grid polarizers. (a) cross-section and top view of 30+30 nm double side deposited nano-groove. (b) cross-section and top view of 50+50 nm double side deposited nano-groove. (c) cross-section and top view of 70+70 nm double side deposited nano-groove. (d) Transmittance of 30+30 nm double side deposited nano-groove. Blue line and dash represent the value of sample with glass substrate and green ones do the case of PET film substrate. (e) Performance data for 50+50 nm double side deposited wire grid polarizer. (f) Data for 70+70 nm double side deposition.



Figure S4. Photo image of micro prism sheet by overlapped tiling method. Unclean edge parts were trimmed.