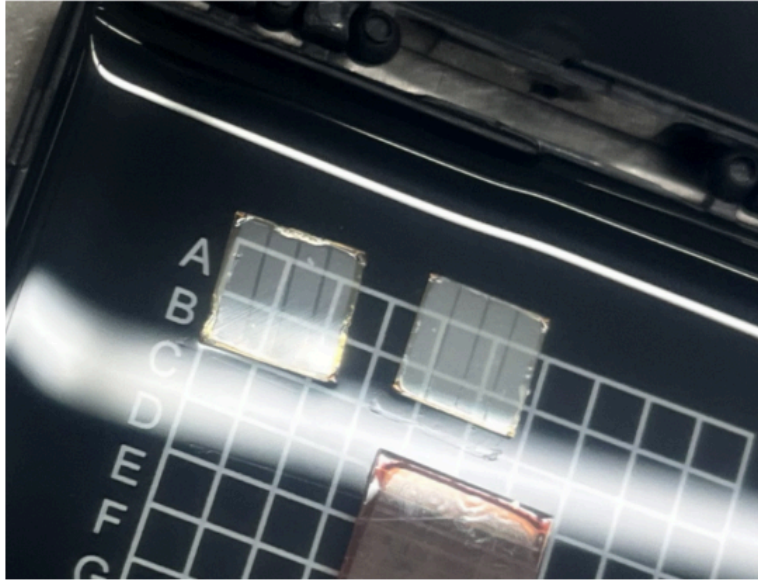


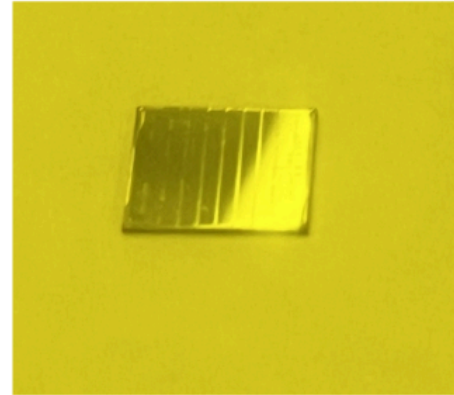
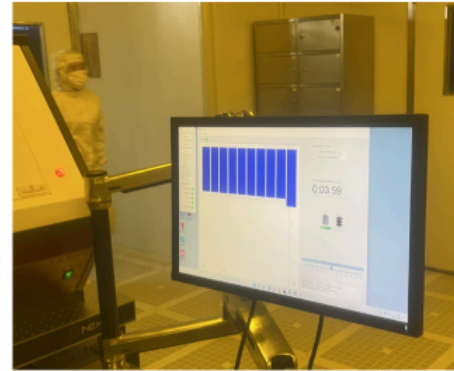
Diamond microstrip detector - Fabrication

- Photoetching 3 diamond and 1 silicon



Single-crystal diamond
 Size: 7.64mm * 7.58mm
 Thickness: 222 μ m
 Pitch: 1.7 mm
 Electrode-to-gap 7.5:1

Polycrystal diamond
 Size: 7mm * 7mm
 Thickness: 280 μ m
 Pitch: 1.7 mm
 Electrode-to-gap 7.5:1



Polycrystal diamond
 Size: 10mm * 10mm
 Thickness: 500 μ m
 Pitch: 1 mm
 Electrode-to-gap 9:1

- Magnetron sputtering coating:
 Silicon is used to fine-tune the sputtering rate.

