

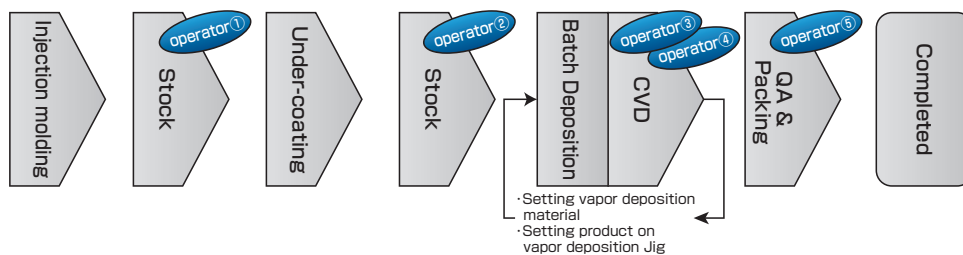
Aspherical mirror for HUD by unmanned automation

Characteristics and Advantages

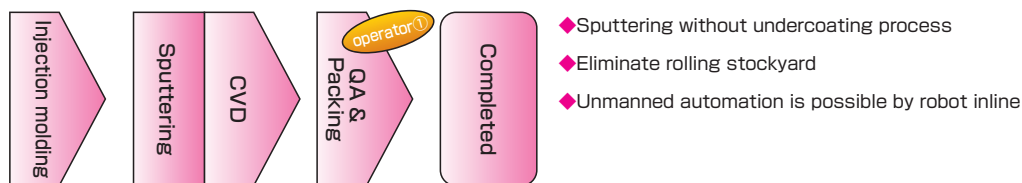
- Unmanned production by robot inline
- Usable materials PC, COP and COC
- Sputtering without undercoating process
- Roughness: Less than Ra3nm, PV value: Less than 40 μ m
- Reflectivity: More than 88%(Monolayer)/92%(Enhanced layer) between 420nm and 680nm

Unmanned automation Process

■ Batch deposition process



■ Sputtering process with unmanned automation

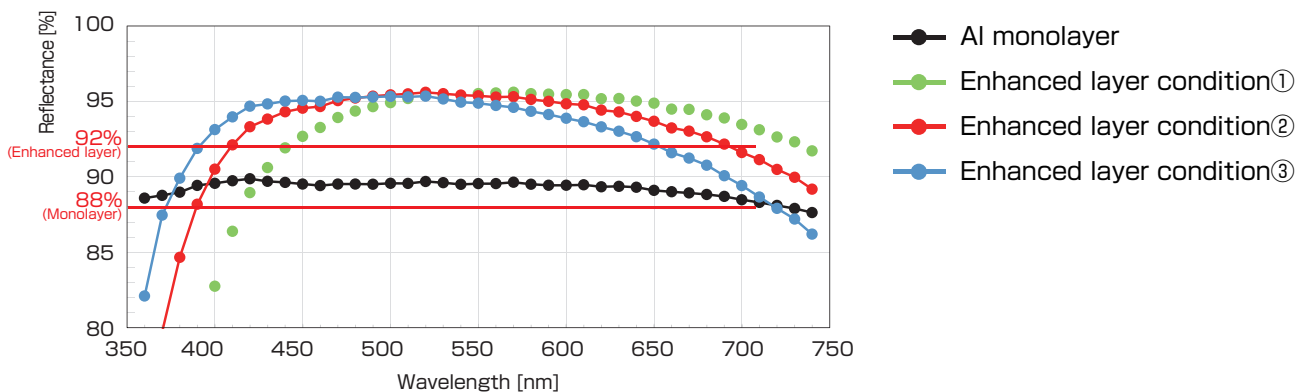


Aspherical Mirror for HUD



Reflectivity

can adjust wavelength range (Enhanced layer condition:①to③)



Applicable components

- Head up display

Proposal for the future

- Cost reduction by material change from COP/COC to PC
- Light weight and higher precision by material change from glass to resin
- Cost reduction by process optimization

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