

02. Vacuum Coating System

We have been producing two kinds of vacuum coating systems, that is, Ion Plating and Thermal Evaporation. Ion Plating system is used a plasma technique in vacuum chamber.

The advantage are good adhesion, colorful and also, to obtain uniform coating thickness to wide surface. It applies mainly glasses frame, watch band and case and other ornaments.

Coated Material	Color
Tin	Light yellow - gold - yellowish brown
TiCN	gold - red brown
TiZrN	gold
TiC	light grey - dark grey

Thermal Evaporation system is based on electrical resistivity heating on vacuum. This process normally performs at low temperature range so it can be coated to plastics. It applies lens, EMI filters, optical filters, light reflector, ornaments, etc...



Ion Plating System (*Supercoat* ZIP Standard Series)

Description	Standard Model	ZIP - 08	ZIP - 10	ZIP - 12	ZIP - 15
Chamber Size (mm)		dia.800 x H950	dia.1000 x H1100	dia.1200 x H1300	dia.1500 x H1600
Jig Assembly		Rotating Jig			
Substrate Bias Source		DC or RF			
Substrate Heating		Micro Sheath Heater, Max 350 °C			
Vacuum Pump	Oil Diffusion	8500 l /min	8500 l /min x 2 ea	13000 l /min x 2 ea	15000 l /min x 2 ea
	Rotary	3000 l /min	3000 l /min	4500 l /min	7000 l /min
	Mechanical Booster	250M ³ /hr	600M ³ /hr	1000M ³ /hr	1300M ³ /hr
Power	DC (Sputtering)	20 - 30KW			
	RF (Etching, Bias)	60w - 2KW			
	RF	Option			
Ultimate Vacuum		~ x 10 ⁻⁴ Torr			