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 → [Vacuum coating systems](#)

Lidiz



Vacuum coating equipment Lidiz allows to achieve coatings with low scattering and high laser induced damage threshold.

- Magnetron sputtering
- Ion-beam sputtering
- Ion-beam cleaning
- Ion-beam assisting
- PECVD
- Hydrophobic coatings
- Antifingerprint coatings
- Solar Cells - CIGS technology
- Heterojunction Solar Cell (HJT technology)

Vacuum technological system LIDIZ is an effective system for deposition of precision optical coatings for a wide range of applications. The LIDIZ vacuum system is equipped with a high-frequency grid ion-beam sputtering source, high-frequency grid ion-beam source for substrates pre-cleaning, surface activation and sputtering assisting and high-frequency neutralizer.

LIDIZ system helps to obtain thin films of from a variety of materials with high accuracy and excellent quality. Spectral optical control allows to make the processes fully automatic and increase the yield significantly. The system is intended both for R&D and small-scale production. The system is implemented with dry pumping system, ensuring high purity of the working processes.

TECHNOLOGICAL FEATURES:

- High-frequency ion-beam grid sources for the sputtering, pre-cleaning, surface activation and sputtering assisting

— Loud-lock chamber with robotic arm

— Disc or planetary substrate holders

— Spectral or single wave optical monitoring system from UV to mid-IR range with coating re-optimization during the process

— Innovative holder for 4 targets per process with a mechanism of rotation and horizontal move during the sputtering

— Integration into a clean room

Size of substrate holder (either disc or a planet), mm	320
Coating thickness uniformity (either per disc or a planet), %	±0.5
Ø30 mm substrates capacity per disc (one planet) , pcs	37
Ultimate vacuum in a clean process chamber, Pa	5•10 ⁻⁴
Technological devices	<div>High-frequency ion-beam grid source for sputtering;</div> <div>High-frequency ion-beam grid source for pre-cleaning, surface activation and assisting during the sputtering;</div> <div>High-frequency neutralizer</div>

Coating monitoring	Spectral or single wave optical monitoring system from UV to medium mid-IR range
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[↑ Product list](#)