PRODUCTS

APPLICATIONS

ABOUT US

Electron Source for RHEED

Home / RHEED-15

Products

> RHEED

- > Standard RHEED Systems
 - > RHEED-12

> **RHEED-15**

- > RHEED-20
- > RHEED-30
- > RHEED-35
- > RHEED-40
- > RHEED-50
- > RHEED-60
- TorrRHEEDTM for PLD, Laser MBE, CVD
- > SpecializedRHEED Systems
- > RHEED
 Accessories
- > RHEED
 Software and
 Control
- > AUGER / XPS / EELS / REELS
- > Electron Sources
- > Ion Sources
- > X-ray Source
- Energy Analyzers & Imaging Energy Filters

RHEED-15

RHEED guns from STAIB Instruments provide unique electron optics systems for diffraction studies. Important options include **differential pumping (DP)** for use in high pressures and **beam rocking** to expand the sample positions that can be monitored. Short (S) or super short (SS) housings can be selected for confined spaces.

Key features

- Energy range 500 eV to 15 keV
- Beam current (max.) 30 μA
- Beam size (min.) 100 μm at low current and 150 mm WD and max. energy

Characteristics

- Working distance 50 mm 500 mm
- Differential pumping (DP) (optional)
- Beam rocking (optional)
- Basic beam blanking
- Beam blanking, external (optional)
- Advanced beam steering (patented)
- Parallel beam shift (optional)
- Computer control (optional)
- Remote control
- Microprocessor controlled beam current regulation (optional)
- Magnetic shielding (optional)



Not all parameters can be reached simultaneously. Above specifications may change without notice. Pictures / diagrams for reference only.

> Charged Particle			
Detectors	Typical Applications	Accessories & Related Products	
> PEEM & IEEM	Турісаї Арріїсасіон'я		
> UHV-Systems for	<i>In situ</i> Characterization		
Surface Analysis	Molecular Beam Epitaxy (MBE)	Fluorescent screens Screen shutters	
> Packages for	•		
Surface Analysis	Oxide Molecular Beam Epitaxy	•	
> Data Acquisition &	(Oxide MBE)	Magnetic shielding for the beam	
Instrument Control	Pulsed Laser Deposition (PLD)	<u>path.</u> Filaments	
Software	Laser Molecular Beam Epitaxy		
	(Laser MBE)	Pre-mounted, pre-aligned	
	Ion Beam Assisted Deposition	cathode units	
	(IBAD)	X-ray shielding glass covers	
	Sputter deposition	Complete service kit	
	Atomic Layer Deposition (ALD)	Diagnostic box	
	Metalorganic Chemical Vapor	RHEED data acquisition & data	
	Deposition (MOCVD)	analysis package	
	Combinatorial approaches	STAIB Computer Control Module	
	Reflection Electron Energy Loss	RHEED imaging analyzer	
	Spectroscopy (REELS)	RHEA100	
	Cathodoluminescence		

PRODUCTS	APPLICATIONS	STAIB INSTRUMENTS	
> RHEED	> <i>In situ</i> Characterization	> Company	
> AUGER / XPS / EELS / REELS	> Surface Analysis Techniques	> Where to meet us	
Electron Sources	> Material Growth Monitoring	> Contact	
> Ion Sources	> Electron Diffraction	> Jobs	
X-ray Source	> Scanning Electron Microscopy	•	
Energy Analyzers & Imaging Energy	> Photoelectron Microscopy (PEEM)		
Filters	> Depth Profiling	INFORMATION	
Charged Particle Detectors	> Space Environment Simulation		
PEEM & IEEM	> Surface & Materials Modification	> Home	
UHV-Systems for Surface Analysis	- Sandee & Materials Wednesderi	> Contact	
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