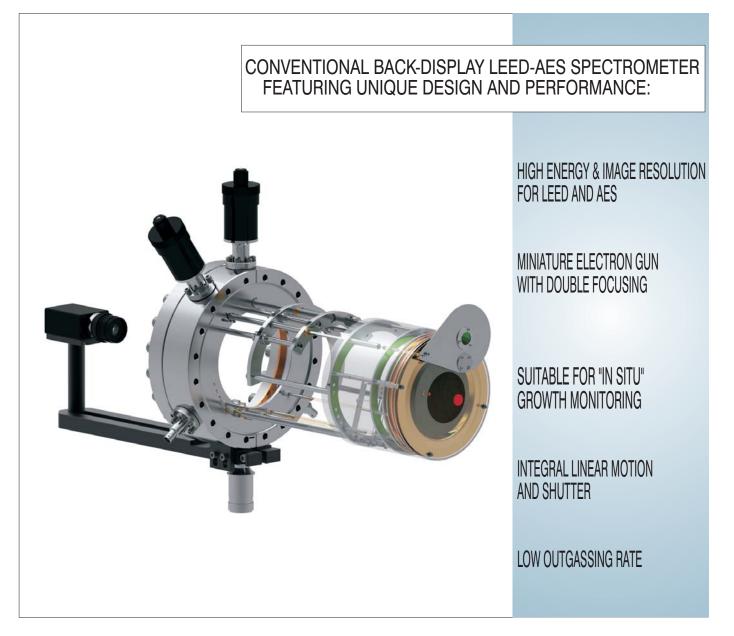


MODEL BDL800IR AND BDL600IR WITH INTEGRAL SHUTTER





Surface - Vacuum Analytical Instruments & Technology

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INTEGRALEED

SPECIFICATIONS

Energy Spread Overall Size

ORDERING GUIDE

LEED-AUGER OPTICS (Models BDL600IR and BDL800IR)		BDL800IR-CP	Complete LEED-Auger package with 8" flange(incl. LMX, ISH, V800,
Glass-Display	Fused silica glass coated with indium-tin oxide conductive layer		LPS300, LOA10-AES, LIM08)
	and P31 phosphor (ZnS:Ag:Cu-green, 525 nm wavelength) .90° angle of acceptance from sample at a distance of 50 mm .100° angle of acceptance from sample at a distance of 75 mm	BDL600IR-CP	Complete LEED-Auger package with 6" flange (incl. LMX, ISH, V600, LPS300, LOA10-AES, LIM08)
Retarding Field Analyzer BDL600IR	Concentric assembly of hemispherical grids Working distance from sample 15 mm Working distance from sample 18 mm Gold coated tungsten wire mesh	BDL800IR	LEED optics with integral electron gun on 8" flange (Specify 3 or 4 grid)
BDL800IR BDL800IR Grid Material		BDL600IR	LEED optics with integral electron gun on 6" flange (Specify 3 or 4 grid)
-	(100 mesh, 81% transparency)	LMX	Linear motion (X=retraction distance)
Energy Resolution		ISH	Integral shutter
Monitoring Linear Motion	6" or 8" standard viewport	V800	8" viewport
Linear Motion	Up to 150 mm retraction from sample (100mm standard); linear ball bearing and acme thread with all spring electr. connections	V600	6" viewport
Integral Shutter	Open and close at any position of the linear motion	LPS075	Power supply with voltage range 0 - 750V
Magnetic Shielding	Mu-metal cylinder with front cover for maximum atteniuation	LPS300	Power supply with voltage range 0 - 3kV
Assembly	Extreme-high-vacuum compatibility with stainless steel, high	AES-Ser	AES software for external Lock-in Ampl.
Mounting	alumina and Au-plated copper alloy materials 6" (CF100) or 8"(CF150) double sided conflat flange with	LIM08	1
Mounting	sample distance 145 mm - 500 mm	LIIVIUO	LEED imaging software with CCD camera, full version
Bakeability	Under vacuum, 250° C maximum	LIM08B	LEED imaging software with CCD camera, basic version
INTEGRAL MINIATURE ELECTRON GUN		LOA10-AES	Digital AES controller with ramp voltage,
Beam Energy	LEED - 5 eV to 750 eV AES to 3000 eV		sinewave oscillator, lock-in and AES software
Beam Current	LEED - 2 μ A at 100 eV and 0.5 mm beam size	LOA100	External Lock-in Amplifier
	AES - up to 100 µA at 3 keV	RVO	Ramp Voltage and oscillator
Beam Size	from 1 mm to 250 µm - adjusted by wehnelt potential,		-
Electron Source	limited by exchangeable aperture down to 50 µm Tungsten-2%Thoriated filament standard, single crystal LaB6 filament optional		
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DUTLINE DRAWING MDDEL BDL800IR & BDL600IR

0.45 eV (thoriated-tungsten filament)

10 mm lens diameter and 80 mm length

