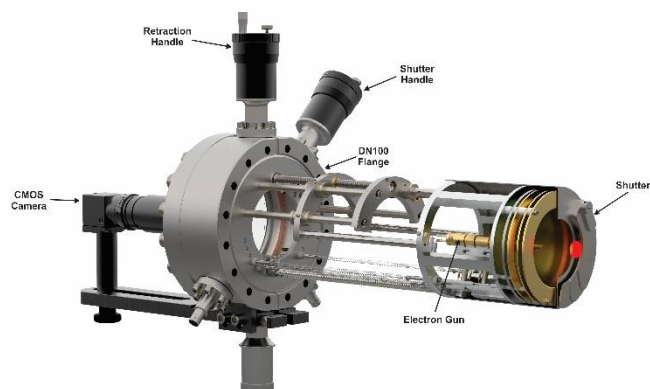


# LEED 600 Configuration Guide and Specifications



## LEED configuration

Base configuration		
Model	Order Code	
BDL600IR- 3GR	AO00003	Back-Display LEED spectrometer with 3 Grid-high resolution (0.2%) retarding field analyzer based on gold plated hemispherical grids with <b>93 DEG.</b> capture angle. Integral miniature electron gun with 10 mm O.D. lenses made of gold-plated copper alloy, optical quality glass-luminescent display, and Mu-metal shield mounted on the double-sided CF6" (DN100CF) oversized flange. Viewport and mounting kit included. Wide beam current range: from pA to uA. <b>Working distance of 15 mm from the sample.</b> <b>Flange to sample distance: to be specified.</b>
LMX	AO00016	Integral linear retraction based on 4 linear ball bearings up to 150 mm
LPS075-D	AO00023	Digital power supply (0-750 V) with USB interface and PC control software for Windows 10/11. True primary beam current and total emission measurements. Automatic start-up and shut down, 10 memory settings including standby and outgassing mode with timer, constant beam current mode controlled by filament current or Wehnelt voltage. All cables included.
Options		
ISH-6	AO00019	Integral shutter for BDL600IR
ISH-6-FL		Foldable Integral Shutter for BDL600IR
NP-600		6"(DN100CF) Nipple Extension
LaB <sub>6</sub>	AO00013	LaB <sub>6</sub> single crystal filament instead of a tungsten wire filament
Electronics Upgrade		
LPS300D- UP		Upgrade from LPS075-D(LEED) to LPS300-D(LEED-AES)
LOA10-AES	AO00025	Model LOA10-AES, Digital AES controller with lock-in amplifier, AES high voltage ramp board 0-2.0 kV with precision sinewave oscillator (0.5-20 V pk-pk) and AES software. USB communication to PC. High Auger signal sensitivity based on integrated band-pass filter and pre-amplifier (0.05% of monolayer for Ag peak 351-356 eV). All cables included.

## LEED and AES configuration

Base configuration		
Model	Order Code	
BDL600IR-4GR	AO00004	Back-Display LEED spectrometer with 4 Grid-high resolution (0.2%) retarding field analyzer based on gold plated hemispherical grids with <b>92 DEG.</b> capture angle. Integral miniature electron gun with 10 mm O.D. lenses made of gold-plated copper alloy, optical quality glass-luminescent display, and Mu-metal shield mounted on the double-sided CF6" (DN100CF) oversized flange. Viewport and mounting kit included. Wide beam current range: from pA to uA. <b>Working distance of 15 mm from the sample.</b>  <b>Flange to sample distance: to be specified.</b>
LMX-6	AO00015	Integral linear retraction based on 4 linear ball bearings up to 150 mm
LPS300-D	AO00024	Digital LEED-Auger power supply (0-3.2 kV) with USB interface and PC control software for Windows 10/11. True primary beam current and total emission measurements. Automatic start-up and shut down, 10 memory settings including outgassing with timer, automatic switch from LEED to AES, constant beam current mode. All cables included.
Options		
ISH-6	AO00019	Integral shutter for BDL600IR
ISH-6-FL	AO00016	Foldable Integral shutter for BDL600IR
NP-600		6"(DN100CF) Nipple Extension
LaB <sub>6</sub>	AO00013	LaB <sub>6</sub> single crystal filament instead of a tungsten wire filament
LOA10-AES	AO00025	Model LOA10-AES, Digital AES controller with lock-in amplifier, AES high voltage ramp board 0-2.0 kV with precision sinewave oscillator (0.5-20 V pk-pk) and AES software. USB communication to PC. High Auger signal sensitivity based on integrated band-pass filter and pre-amplifier (0.05% of monolayer for Ag peak 351-356 eV). All cables included.