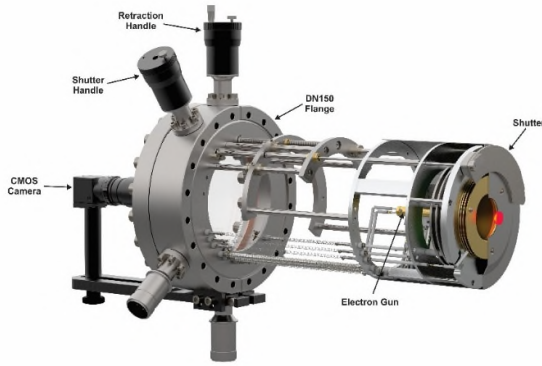


LEED 800MCP-100DEG Configuration Guide



LEED configuration

Base configuration		
Model	Order Code	
LEED800IR-MCP1-3GR-100DEG	AO00011	Back-Display LEED spectrometer with 3 Grid-high resolution (0.2%) retarding field analyzer based on gold plated hemispherical grids with 100 deg. capture angle. Integral miniature electron gun with 10 mm O.D lenses made of gold-plated copper alloy, optical quality glass-luminescent display, and one 80 mm LongLife™ microchannel plate (MCP). Equipped with Mu-metal magnetic shielding with front shield mounted on double-sided CF8" O.D. (DN150CF) Flange with vacuum insert, diameter 142 mm. Filament: tungsten hairpin. Viewport and mounting kit included. Wide beam current range: from pA to uA. Working distance of 10 mm from the sample. Flange to sample distance: to be specified.
LMX-MCP	AO00017	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. Ten memory settings, including standby and outgassing mode with timer, constant beam current mode controlled by filament current or Wehnelt voltage. All cables included.
MCPS1	AO00026	Electronics for one microchannel plate with digital displays of voltages and MCP load current measurements and protection.
Options		
ISH-8-MCP	AO00017	Integral shutter for BDL800IR-MCP
ISH-8-MCP-FL	AO00017	Foldable Integral Shutter form BDL800IR-MCP
LaB ₆	AO00013	LaB ₆ single crystal filament instead of a tungsten wire filament
MCP2		Two 80 mm LongLife™ microchannel plates (MCP) in chevron configuration instead of one MCP
MCPS2	AO00027	Electronics for two microchannel plates with digital displays of voltages and MCP load current measurements and protection.
NP800	AO00059	8"(DN150CF) Nipple extension
Electronics Upgrade		
LPS300-D-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-AES configuration

Base configuration		
Model	Order Code	
LEED800IR-MCP2- 3GR	AO00012	Back-Display LEED spectrometer with 3 Grid-high resolution (0.2%) retarding field analyzer based on gold plated hemispherical grids with 100 deg. capture angle. Integral miniature electron gun with 10 mm O.D lenses made of gold-plated copper alloy, optical quality glass-luminescent display, and one 80 mm LongLife™ microchannel plate (MCP). Equipped with Mu-metal magnetic shielding with front shield mounted on double-sided CF8" O.D. (DN150CF) Flange with vacuum insert, diameter 142 mm. Filament: tungsten hairpin. Viewport and mounting kit included. Wide beam current range: from pA to uA. Working distance of 10 mm from the sample. Flange to sample distance: to be specified.
LMX-MCP	AO00017	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. Ten memory settings, including outgassing with timer, automatic switch from LEED to AES, and constant beam current mode. All cables included.
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 Vpk-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.
MCPS2	AO00027	Electronics for two microchannel plates with digital displays of voltages and MCP load current measurements and protection.
Options		
ISH-8-MCP	AO00021	Integral shutter for BDL800IR-MCP
ISH-8-MCP-FL	AO00083	Foldable Integral Shutter form BDL800IR-MCP
NP800	AO00059	8"(DN150CF) Nipple extension
LaB ₆	AO00013	LaB ₆ single crystal filament instead of a tungsten wire filament