

Operations to setup the LEED in its home working conditions

1. ensure that all the potentiometers are at zero position except the "emission" one that have to be at its maximum.
2. turn on the main power.
3. Increase the filament current up to 1.5A slowly (about 2 minutes).
4. switch to emission and wait until the emission will be between 100 and 300 mAmps (if it becomes bigger decrease the filament current and vice versa).
5. Set wehenelt at -7Volt.
6. Set suppressor at 21Volt.
7. Set the energy at 15eV 8) using the offset potentiometers of the lenses set $\text{Lens}_1 = 15V$ $\text{Lens}_2 = 30V$.
8. Set the energy to 150eV.
9. Using the "gain" potentiometers of the lenses set $\text{Lens}_1 = 150$ $\text{Lens}_2 = 300$.

Warning: To switch off the LEED control unit just turn all the potentiometers

ters at zero and decrease slowly the filament current (about 2 minutes).

I operating	=	1.459A
Ke = 0	⇒	Whenhelt =0
I emission	=	2.9mA
L1/3 = 2V	L2 =	8
Ke = 1000		
L 1/3 = 1949	L2 =	1021
Ke = 50V		
I0 = 0.79		μA