

{loadposition BLiCS.PGM – MONOCHROMATOR CONTROL SYSTEM}
{tab=Technische Beschreibung}

The BLiCS.PGM software allows operating a Plane Grating Monochromators through an intuitive graphical user interface.

The system is based on fast closed loop control and features coordinated energy movements on motion.

{tab= Features}

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Available Operating Modes:

- Fixed Focus
- Fixed Beta
- Fixed Theta
- Dynamic cff for VLS

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Energy Scan Modes:

- Step Scan
- On-The-Fly Scan

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Automatic Decoupling Procedures

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Collision detection and recovering

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Status Display

Operational Mode fixed focus <input type="checkbox"/>	Grating l/mm 800	off-Value 2.000	Actual Photon Energy 2199.783 eV
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Energy Step
Step Scan
On-The-Fly Scan

Step Scan

Initialise E-Scan
HPMC1PGM_ENERGY_SP
PV OK

Status

Scan State	Idle	Scan Cycle	1	of	1
	SCAN Complete	Scan Step	21	of	21

Parameter

Start Energy [eV]	2000.000	Settling Time [s]	1.000
End Energy [eV]	2200.000		
Energy Step [eV]	10.000	# of Scan Cycles	1

Go2Start
START
PAUSE
ABORT

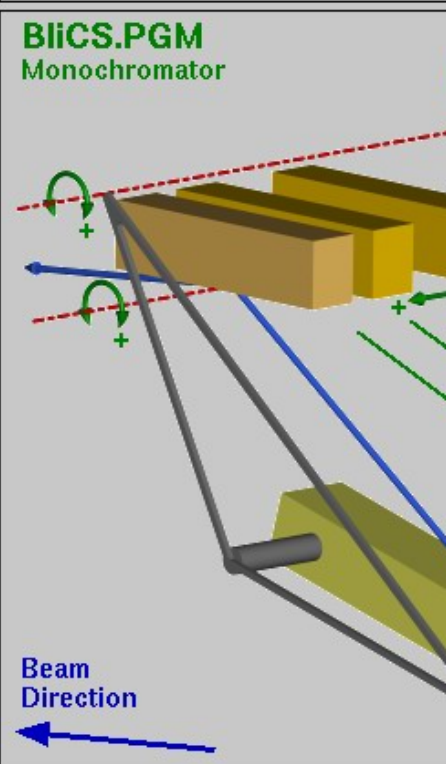
Datafile

/opt/epics/userdata/scandata/test0000_09.mda

Optical Elements

Mirror **Decoupled**

Mirror 1



BLiCS.PGM Monochromator

Beam Direction

Individual Drives

Mirror Pitch	1.490004 deg	Positioned	Single Axis Panel
Grating Pitch	1.986778 deg	Positioned	Single Axis Panel
Mirror Translation	14.994 mm	Positioned	Single Axis Panel
Grating Translation	-145.000 mm	Positioned	Single Axis Panel

Protection

Access Mode	User Mode
Interlock	Ok
Emergency Stop	Ok
Temperatures	Ok

Monochromator Top Level Screen