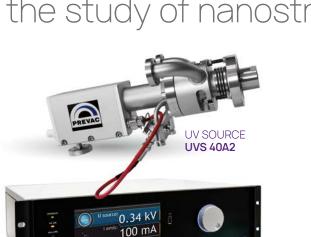
HIGH-POWER, MONOCHROMATIZED

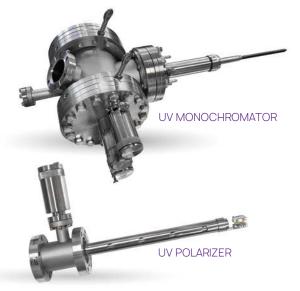
UV SOURCE

for the study of nanostructures

JV SOURCE POWER SUPPLY

UV40A-PS





PREVAC

for PES | ARPES | UPS applications

DESCRIPTION

PREVAC monochromated UV Source use Bragg diffraction to separate narrow band of light wavelengths. During crystal rotation user can find 4 different wavelengths of beam transferred to sample. It happens because each wavelength is reflected by crystal at different angle (Bragg reflection). So called ZERO ORDER beam - creates when monochromator crystal works similar as normal mirror - it reflects multiple wavelengths and gives highest intensitivity of transferred beam. That mode can be used when user does not need monochromated beam, but high intensitivity of UV radiation.

APPLICATIONS

- · Characterization of the valence band dispersion
- Fermi surfaces
- Charge density wave gaps
- Superconducting gaps
- Spin density wave gaps
- · Electron-boson coupling
- Heavy fermion hybridization gaps
- · Spin momentum locking
- Surface states

FEATURES

- · Manual or auto ignition
- Easy operation
- Stable output
- · Retractable capillary arm

NOTE | Water cooling and differential pumping is required.

TECHNICAL DATA

Mounting flange DN 40 CF (non-rotatable)

Photocurrent 1-12 nA Discharge current 40-300 mA

Port aligner integral, +/- 4°

350 mm Retractable capillary

- distance from focus point to port

1.6 mm Capillary I.D.

Insertion length 345 mm with extended capillary

289 mm with inserted capillary

Typical working

distance

Bakeout temperature up to 150 °C

Working pressure < 1 mbar

OPTIONS

- · Gas dosing system
- · Differential pumping (required)
- in situ UV polarizer

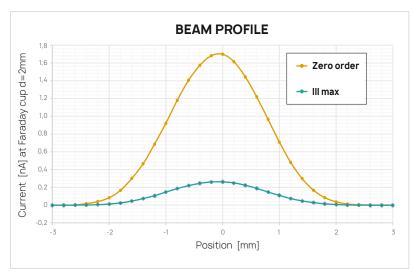


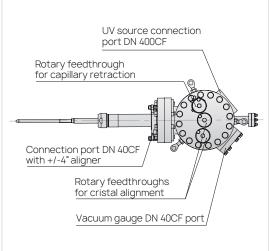


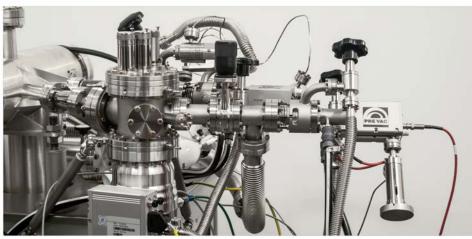












Full UV set includes:

- UV source UVS 40A2
- UV monochromator
- UV polarizer (optional)
- power supply UV40A-PS

UV SOURCE POWER SUPPLY UV40A-PS



DESCRIPTION

The UV40A-PS can work in either constant discharge current or discharge voltage mode to provide the best operation conditions for the UV source. The source can be automatically ignited directly from the power supply or manually on the source via a piezo-electric igniter. All adjustable parameters are clearly displayed on the large front-panel TFT and precisely controlled via digital encoders. The unit also features a built in timer and automatic standby mode. The UV40A-PS is supplied as a full width 19 rack mounting unit (3U height). Easy firmware update via USB port. The unit can be remotely controlled via RS232/485 or Ethernet interfaces. The unit is equipped with autosave function (the device save your parameters, preset and apply them automatically after restart).

TECHNICAL DATA

Supply voltage	100 - 120 VAC/200 - 240 VAC, 50/60 Hz (power consumption max 800 W)
Output power	300 W
Discharge voltage (U _{source})	200 - 1000 V, resolution 10 V, ripple < 0.5 V _{pp}
Discharge current (I _{emis})	5 - 300 mA, resolution 1 mA
Vacuum measurement (optional)	CTR90, TTR91, TTR211, PTR225, PTR90, ITR90, ITR100, Baratron, ANALOG IN, MKS937A, PG105, MG13/14, PKR251/360/361, PCR280, ATMION
Communication interface	RS232/485, Ethernet
Communication protocol	MODBUS-TCP
User interface	7" TFT display with touchscreen, digital encoder
Interface languages	English, German, Polish
Dimensions	448.8 × 132.5 × 435 mm (W×H×D), 19" rack mountable
Weight (approx.)	9.3 kg

OPTIONS

· Analog I/O card for vacuum measurement (1 gauge)



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