

Fees for standard photodiode calibrations

PTB offers the following radiometric calibration services in five standard energy ranges at its synchrotron radiation beamlines [1]. The available ranges and fees for this service can be found in the tables below.

Beamline	Range	Photon energy		Wavelength		Beam size (typical)
		min	max	min	max	
NIM	VUV	3.1 eV	31 eV	40 nm	400 nm	2 mm × 2 mm
EUV	EUV	31 eV	155 eV	8 nm	40 nm	1 mm × 1 mm
SX700	soft X-ray	50 eV	1800 eV	0.68 nm	25 nm	2 mm × 2 mm
FCM	tender X-ray	1.75 keV	10 keV	0.71 nm	0.12 nm	0.5 mm × 1 mm
BAMline	hard X-ray	8 keV	60 keV	0.15 nm	0.02 nm	2 mm × 2 mm

The net costs for the calibration of **photodiodes** in the standard ranges can be found in the table below. These prices are valid for unbiased photodiodes with an active area of at least twice the beam size.

No of devices	Range	Fee
1 Photodiode in one range	VUV, EUV, soft, tender or hard X-ray	2910 €
+ additional diode in the same range and time slot		+ 1552 €
1 Photodiode in 2 ranges	2 of VUV, EUV, soft, tender, hard X-ray	5238 €
+ additional diode in the same 2 ranges and time slot		+ 2522 €
1 Photodiode in 3 ranges	3 of VUV, EUV, soft, tender, hard X-ray	7566 €
+ additional diode in the same 3 ranges and time slot		+ 3492 €
1 Photodiode in 4 ranges	4 of VUV, EUV, soft, tender, hard X-ray	9894 €
+ additional diode in the same 4 ranges and time slot		+ 4462 €

This price list is valid from 2022, subject to change without notice, and it is based on the average work hours required to perform the calibration. After the order is confirmed, PTB schedules the measurements according to the availability of measurement time. In cases where the real amount of work exceeds or falls short of the average work by more than 25%, the real work hours will be billed. Additional costs may arise from shipping, customs processing, and other handling fees.

[1] [Details of the measurement method](#)

Request for Quotation / Order Form

Please indicate in the form below the number of devices for calibration in the standard energy range and send the completed form to synchrotronradiometry@ptb.de

Name:

Address:

Please specify the requested **standard** energy ranges:

Quantity	Photodiode type	Energy range
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> VUV <input type="checkbox"/> EUV <input type="checkbox"/> soft X-ray <input type="checkbox"/> tender X-ray <input type="checkbox"/> hard X-ray
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> VUV <input type="checkbox"/> EUV <input type="checkbox"/> soft X-ray <input type="checkbox"/> tender X-ray <input type="checkbox"/> hard X-ray
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> VUV <input type="checkbox"/> EUV <input type="checkbox"/> soft X-ray <input type="checkbox"/> tender X-ray <input type="checkbox"/> hard X-ray
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> VUV <input type="checkbox"/> EUV <input type="checkbox"/> soft X-ray <input type="checkbox"/> tender X-ray <input type="checkbox"/> hard X-ray
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> VUV <input type="checkbox"/> EUV <input type="checkbox"/> soft X-ray <input type="checkbox"/> tender X-ray <input type="checkbox"/> hard X-ray

Please specify the requested **custom** photon energies:

Quantity	Photodiode type	List of energies or custom energy range
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

If this button does not work,
please save the form as PDF and send it by mail

For larger quantities (>10 devices) or special requests, please email us at synchrotronradiometry@ptb.de for an individual quotation.