

Beamline	BL44XU	BL41XU		BL45XU	BL32XU
		normal mode	high-energy mode		
Available wavelength (Å)	0.7-1.9	0.7 - 1.9	0.35 - 0.65	0.775-1.9	0.8 - 1.24
Available beam size (w×h, μm)	20 x 20 - 70 x 70	4 × 10 - 22 × 36 (4 × 4, 22 × 46 available on request)	30 × 30 - 300 × 300	5 × 5 - 50 × 50 (5 × 5, 10 × 10, 20 × 20, 10 × 50, 50 × 50)	1 × 1 - 10 × 15
Photon flux (photons/sec)	6.5×10 <sup>12</sup> (@0.9 Å: 50 μm pinhole)	2.6×10 <sup>12</sup> - 1.3×10 <sup>13</sup> (@1 Å)	1.7×10 <sup>10</sup> - 2.3×10 <sup>12</sup> (@0.4133 Å)	5.7×10 <sup>12</sup> - 1.7×10 <sup>13</sup> (@1 Å)	9.0×10 <sup>10</sup> /μm <sup>2</sup> @1 Å (constant flux density)
Detector	EIGER X 16M	EIGER X 16M	Hamamatsu C10158DK-11(X)	PILATUS3 6M	EIGER X 9M
type	PAD	PAD	CMOS	PAD	PAD
active area (wxh, mm <sup>2</sup> )	311.2 x 327.8	311.2 x 327.8	117.6 × 117.6	423.6 x 434.6	233.2 × 245.2
pixel size (μm <sup>2</sup> )	75 x 75	75 x 75	50 × 50	172 × 172	75 × 75
pixel number (wxh)	4150 x 4371	4150 x 4371	2352 × 2352	2463 x 2527	3110 × 3269
readout time	3 μs	3 μs	14 μs/line	0.95 ms	3 μs
max frame rate (Hz)	133	133	3	100	238
Detector distance (mm)	115 - 1200	180 - 800 (110 - 800 if beam size is limited to 22 × 36 & 12 × 36)	55 - 400	140 - 650	125 - 500
Detector offset	Vertical: +150 mm	Vertical: 0 - 200 mm	Horizontal: ±40 mm Vertical: ±50 mm	-	-
Maximum resolution (Å)	1.00 @λ=0.9 Å, w/o offset 0.78 @λ=0.7 Å, w/o offset	1.39 @λ=1 Å, dist=180 0.77 @λ=0.7 Å, dist=120	0.44 @λ=0.35 Å, dist=55	1.05 @λ=1 Å 0.81 @λ=0.775 Å	1.36 @λ=1 Å
Sample changer	SPACE-II (twin arm) 15 sec for exchange	SPACE-II (twin arm) 15 sec for exchange	Currently adjusting	SPACE-II (twin arm) 15 sec for exchange	SPACE
Max. no. of unipucks	8	8	4	8	8
Cryostream	N <sub>2</sub> : 90 - 100 K He: 20 - 100 K	N <sub>2</sub> : 90 - 100 K He: 20 - 100 K	N <sub>2</sub> : 90 - 100 K He: 20 - 100 K	N <sub>2</sub> : 100 K	N <sub>2</sub> : 100 K
Available software for experiment	BSS	BSS, KUMA, SHIKA	BSS	BSS, KUMA, SHIKA	BSS, KUMA, SHIKA
Automatic data collection		ZOO system (contact us prior to use)		ZOO system	ZOO system
Remarks					~10 <sup>12</sup> photons/μm <sup>2</sup> /s available on request
Contact person (email; add @spring8.or.jp)	Eiki Yamashita	Kazuya Hasegawa kazuya		Seiki Baba baba	Kunio Hirata kunio.hirata(@riken.jp)
Last update	2018-04-19	2019-06-20	2019-06-20	2020-04-02	2020-04-02

Beamline	BL26B1	BL26B2	BL12B2	BL38B1 (SAXS)
Available wavelength (Å)	0.75 - 1.9	0.7 - 1.9	0.6 - 1.9	Currently adjusting
Available beam size (w×h, μm)	30 x 30 - 300 x 300	60 x 60 - 120 x 120	200 x 200	Currently adjusting
Photon flux (photons/sec)	1.6×10 <sup>10</sup> - 2.5×10 <sup>11</sup> (@1 Å)	2×10 <sup>10</sup> - 6×10 <sup>10</sup> (@1 Å)	5×10 <sup>10</sup> (@1 Å)	Currently adjusting
Detector type	EIGER X 4M PAD	MX225HS CCD	MX225HE CCD	PILATUS3X 2M PAD
active area (wxh, mm <sup>2</sup> )	155.2 x 162.5	225 x 225	225 x 225	253.7 x 288.8
pixel size (μm <sup>2</sup> )	75 x 75	78.1 x 78.1	73.2 x 73.2	172 x 172
pixel number (wxh)	2070 x 2167	2880 x 2880	3072 x 3072	1475 x 1679
readout time	3 μs	10 ms	1.9 s	0.95 ms
max frame rate (Hz)	750	10	-	250
Detector distance (mm)	45 - 265	70 - 800	85 - 800	450 - 3500
Detector offset	-	-	Horizontal: ±50 mm Vertical: -10 - +95 mm	-
Maximum resolution (Å)	1.00 @λ=1 Å	1.06 @λ=1 Å	1.12 @λ=1 Å, w/o offset	q range: 0.005 - 2.6 Å <sup>-1</sup> (@λ=1 Å)
Sample changer	SPACE	SPACE-II (twin arm)	SPACE	GILSON 223 sample changer
Max. no. of unipucks	8	8	2	-
Cryostream	N <sub>2</sub> : 100 - 270 K	N <sub>2</sub> : 100 - 270 K	N <sub>2</sub> : 90-270 K	-
Available software for experiment	BSS	BSS	BSS	Data Collector
Automatic data collection				
Remarks				
Contact person (email; add @spring8.or.jp)	Hideo Okumura okumurah	Go Ueno ueno	Masato Yoshimura yoshimur	Takaaki Hikima hikima
Last update	2019-06-20	2017-10-30	2016-09-27	2019-06-20