

Synchrotron Soft X-ray microscopes (last changed:27 Jan 2021)

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| Type | Facility | name | City | Country | Source | E-range (eV) | 1 st image | Status | Comments; instrument |
|-------|-------------|--------------|--------------|-------------|--------|--------------|-----------------------|---------------|-------------------------|
| TXM | Alba | Mistral | Barcelona | Spain | BM | 270-2600 | 2013 | operating | Xradia |
| TXM | ALS | XM1 | Berkeley | USA | BM | 250-900 | 1995 | operating | custom |
| TXM | ALS | XM2 (NCXT) | Berkeley | USA | BM | 250-6000 | 2009 | operating | custom |
| TXM | Astrid | XRM | Aarhus | Denmark | BM | 500 | 1998 | operating | |
| TXM | Bessy-I | | Berlin | Germany | BM | 500 | 1989 | ended 1999 | |
| TXM | Bessy-II | U41-TXM | Berlin | Germany | Und-L | 250 - 600 | 2010 | operating | moved beamlines 2014-17 |
| TXM | Bessy-II | AnImaX | Berlin | Germany | | 250-3000 | 2019 | operating | TXM / STXM (XRF) |
| TXM | Diamond | B24 cryo-TXM | Harwell | UK | BM | 250-2500 | 2013 | operating | Xradia |
| TXM | Elettra | TwinMic 1.1L | Trieste | Italy | EPU | 50-1000 | 2001 | operating | TXM / STXM |
| TXM | NSRL | TXM | Hefei | China | BM | 500 | 2011 | operating | Xradia |
| TXM | NSRRC | TXM | Hsinchu | Taiwan | BM | 250-1800 | 2018 | operating | custom |
| TXM | Ritsumeikan | BL12 | Kyoto | Japan | BM | 500 | 1996 | operating | |
| XPEEM | Alba | Circe | Barcelona | Spain | EPU | 100-2000 | 2013 | construction | Elmitec |
| XPEEM | ALS | PEEM-2 | Berkeley | USA | BM | 175-1500 | 1999 | ended 2011 | custom electrostatic |
| XPEEM | ALS | PEEM-3 | Berkeley | USA | EPU | 150-2000 | 2009 | operating | custom electrostatic |
| XPEEM | APS | BL 4IDC | Argonne | USA | Und-L | 500-2500 | 2012 | operating | Omicron, Elmitec |
| XPEEM | Bessy-II | UE49PGM | Berlin | Germany | EPU | 100-1800 | 2004 | operating | SMART (custom) |
| XPEEM | Bessy-II | UE49 | Berlin | Germany | EPU | 100-1800 | 2006 | operating | Elmitec |
| XPEEM | Bessy-II | UE56-1_SGM | Berlin | Germany | EPU | 100-1800 | 2012 | operating | Specs |
| XPEEM | CLS | CaPeRS | Saskatoon | Canada | EPU | 130-2500 | 2003 | operating | Elmitec |
| XPEEM | Diamond | IO6 | Chilton | UK | EPU | 80-2100 | 2012 | operating | Elmitec |
| XPEEM | Elettra | BL 1.2 L | Trieste | Italy | EPU | 50-1000 | 1999 | operating | Elmitec SPELEEM |
| XPEEM | Elettra | BL 1.2 L | Trieste | Italy | Und-L | 50-1000 | 2012 | operating | NanoESCA |
| XPEEM | Hi-SOR | BL-5 | Hiroshima | Japan | BM | 50-300 | 2006 | operating | |
| XPEEM | MAXlab | 1311 | Lund | Sweden | Und-L | 100-1400 | 2011 | operating | Elmitec |
| XPEEM | NSLS-I | U5UA | Brookhaven | USA | Und-L | 15-150 | 2006 | ended 2015 | |
| | NSLS-II | 21-ID-2 | Brookhaven | USA | Und-L | 20-1500 | 2017 | operating | Elmitec XPEEM/LEEM |
| XPEEM | NSRRC | BL05B2 | Hsinchu | Taiwan | EPU | 60-1400 | 2002 | operating | Omicron |
| XPEEM | NSRRC | TPS-27A | Hsinchu | Taiwan | EPU | 90-2200 | 2017 | commissioning | PRINS (custom) |
| XPEEM | PLS | 4B1 | Pohang | Korea | BM | 200-1000 | 2000 | operating | |
| XPEEM | PF | BL 19B | Tsukuba | Japan | BM | 50-150 | 2001 | operating | |
| XPEEM | PF | BL 27A | Tsukuba | Japan | BM | 50-150 | 2010 | operating | STAIB Spector |
| XPEEM | SLS | SIM | Villigen | Switzerland | EPU | 90-1200 | 2005 | operating | |
| XPEEM | Soleil | Tempo | Saint-Aubin | France | EPU | 50 - 1500 | 2008 | operating | Focus, Omicron |
| XPEEM | Soleil | Hermes | Saint-Aubin | France | EPU | 250 - 1500 | 2013 | operating | Elmitec, XPEEM/LEEM |
| XPEEM | SRLI | BL4 | N.Ratchasima | Thailand | BM | 40-1040 | 2015 | operating | |
| XPEEM | Spring-8 | BL25SU | Hyogo | Japan | EPU | 220-2000 | 2001 | operating | Elmitec |
| XPEEM | Spring-8 | BL17SU | Hyogo | Japan | EPU | 300 - 1800 | 2005 | operating | SPELEEM |
| XPEEM | SRC | Sphinx | Stoughton | USA | Und-L | 70-2000 | 2004 | ended 2013 | Elmitec; now at APS |
| XPEEM | SSLS | SINS | Singapore | Singapore | BM | 50-1200 | 2011 | operating | Focus-PEEM |

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| XPEEM | SSRF | BL08U1 | Shanghai | China | Und-L | 50-1200 | 2012 | operating | Elmitec |
| STXM | ALS | 7.0.1 | Berkeley | USA | Und-L | 100 - 1200 | 1995 | ended 2001 | |
| STXM | ALS | 5.3.2.2 | Berkeley | USA | BM | 250-750 | 2001 | operating | New STXM 2018 |
| STXM | ALS | 11.0.2 | Berkeley | USA | EPU | 60 -2000 | 2002 | operating | New STXM 2012 |
| STXM | ALS | 5.3.2.1 | Berkeley | USA | BM | 250-3500 | 2011 | operating | Old-STXM |
| STXM | ALS | 7.0.1 | Berkeley | USA | EPU | 250-3000 | 2018 | operating | COSMIC – ptycho NS-1 |
| STXM | ALS | 7.0.1 | Berkeley | USA | EPU | 250-3000 | 2018 | operating | COSMIC – ptycho NS-2 |
| STXM | Australian SR | (side station) | Melbourne | Australia | Und-L | 100-2000 | 2014 | operating | Xradia / APS upgraded |
| STXM | Bessy -II | old-STXM | Berlin | Germany | BM | 250-600 | 2004 | ended 2011 | |
| STXM | Bessy-II | MAXYMUS | Berlin | Germany | EPU | 250 – 1500 | 2008 | operating | Bruker |
| STXM | Bessy-II | ???? | Berlin | Germany | | | 2019 | construction | |
| STXM | CLS | 10ID1 | Saskatoon | Canada | EPU | 130-2800 | 2006 | operating | custom |
| STXM | CLS | 10ID1 | Saskatoon | Canada | EPU | 130-2800 | 2018 | operating | custom, cryo-STXM |
| STXM | Diamond | I08 | Harwell | UK | EPU | 250- 4200 | 2015 | operating | Bruker |
| (S)TXM | Elettra | TwinMic 1.1L | Trieste | Italy | Und-L | 250 - 2000 | 2002 | operating | STXM / TXM (XRF) |
| STXM | NSLS | X1A | Upton | USA | Und-L | 250-1000 | 1989 | ended 2000 | |
| STXM | NSLS | X1A | Upton | USA | Und-L | 250-1000 | 1998 | ended 2011 | cryo-STXM |
| STXM | NSLS | X1A | Upton | USA | Und-L | 250-1000 | 2004 | ended 2011 | STXM IV |
| STXM | NSRRC | TPS-27A | Hinschu | Taiwan | EPU | 90 -2200 | 2017 | commissioning | Custom |
| STXM | Petra-III | P04 | Hamburg | Germany | Und | 250-3000 | 2016 | operating | Cryo-tomo; (at XRM16, 188) |
| STXM | PLS | nanoscopy | Pohang | Korea | EPU | 100 - 2000 | 2014 | operating | Bruker |
| STXM | PF | Various BL | Tsukuba | Japan | BM | 100-8000 | 2013 | operating | Atto-cube |
| STXM | PTB | Various BL | Berlin | Germany | BM | various | 2018 | operating | Ultra compact (at XRM18) |
| STXM | SLS | PolLux | Villigen | Switzerland | BM | 250-1600 | 2006 | operating | Bruker |
| STXM | SLS | NanoXAS | Villigen | Switzerland | BM | 270-1800 | 2009 | Ended 2016 | custom |
| STXM | Soleil | Hermes | Saint-Aubin | France | EPU | 250 – 1500 | 2015 | operating | Research Instruments |
| STXM | SSRF | SXS | Shanghai | China | EPU | 200 - 2000 | 2011 | operating | Xradia |
| STXM | SSRF | SXS | Shanghai | China | EPU | 200 - 2000 | 2019 | commissioning | |
| STXM | SSRL | 13-1 | Stanford | USA | EPU | 250 – 1000 | 2010 | operating | Custom (Atto-cube based) |
| STXM | UVSOR | BL4U | Okazaki | Japan | Und-L | 50-800 | 2013 | operating | Bruker |
| SPEM | ALS | BL 7.0 | Berkeley | USA | Und-L | 90-1300 | 1996 | ended 2006 | |
| SPEM | ALS | BL 11.0.2 | Berkeley | USA | EPU | 100 - 2000 | 2013 | operating | ambient pressure |
| SPEM | ALS | Maestro | Berkeley | USA | EPU | 90-1300 | 2015 | operating | |
| SPEM | Elettra | BL 2.2 L | Trieste | Italy | Und-L | 350-750 | 1994 | operating | |
| SPEM | Elettra | BL 3.2 L | Trieste | Italy | Und-L | 27, 95 | 2000 | operating | Schwarzchild, nanoARPES |
| SPEM | MAX-lab | BL 31 | Lund | Sweden | Und-L | 15-150 | 1992 | operating | |
| SPEM | NSLS-I | X1A | Brookhaven | USA | Und-L | 250-600 | 1990 | ended 2002 | |
| SPEM | NSRRC | BL09A1 | Hinschu | Taiwan | Und | 250-1500 | 1998 | operating | |
| SPEM | PLS | 8A1 | Pohang | Korea | Und | 20 - 2000 | 2002 | operating | |
| SPEM | Soleil | Antares | Saint-Aubin | France | EPU | 50 - 1500 | 2012 | operating | |
| SPEM | Spring-8 | BL07LSU | Hyogo | Japan | EPU | 220-2000 | 2012 | operating | |