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High Resolution Imaging Systems (HRBIS)

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Product Overview

High Resolution Beam Imaging is made possible with the Beam Imaging Solutions HRBIS systems. The HRBIS can be used to measure two or three dimensional intensity distributions of ion, electron and neutral beams. The HRBIS can also be used to image X-rays for applications such as pinhole imaging and spectroscopy. Images are created using a micro-channel plate (MCP) and phosphor screen combination. The phosphor is uniformly deposited onto a coherent fiber-optic (FO) substrate so that the image can be optically transmitted to the outside of a vacuum system for analysis. The image is coherently transmitted using a series of FO conduits to a vacuum viewport at which the image can be viewed by eye or recorded and processed with CID or CCD camera systems. The HRBIS systems are available in many different [configurations](#) to best fit a customer's particular application and budget. Our [quote form](#) makes it easy to request the price of the configuration that you need.

The Model HRBIS-11000 High Resolution Beam Imaging System is shown below. The image on the right shows the camera adapter ring that is standard with the HRBIS. The ring has threaded holes for attaching a camera mounting system, available with all of the optional camera systems.



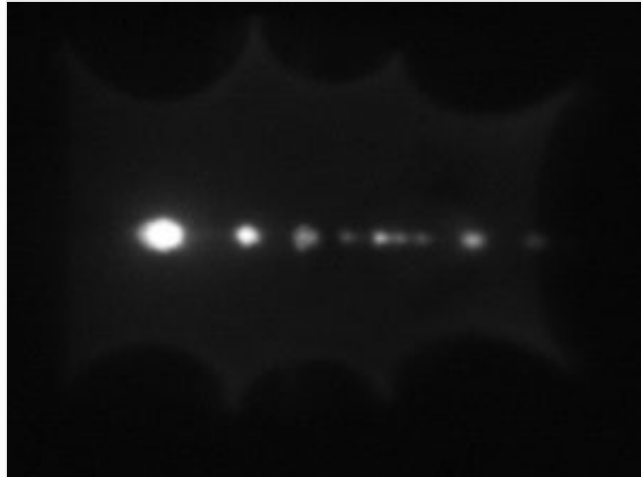
*HRBIS-20034 with Flexible Fiberoptic Cable coupling
(Remote System)*



*HRBIS-41024 with Fiberoptic Rod coupling (Standard
System)*

The Model HRBIS-11000 High Resolution Beam Imaging System is shown below. The image on the right shows the camera adapter ring that is standard with the HRBIS. The ring has threaded holes for attaching a camera

mounting system, available with all of the optional camera systems.



Mass separated ion beam showing fringe fields of E X B Wien filter. Image was made with model HRBIS-40034 imaging system and model IPS-1 image process system. Image is ~36.4mm x 26.4mm.

Services

Beam Imaging Solutions (BIS) is dedicated to new innovative imaging solutions for particle and photon (UV, X-ray) beams and offers a wide range of imaging products to fit your particular application and budget.

Our products range from stand-alone phosphor screens to high resolution beam imaging systems with 2-D and 3-D imaging capabilities. Beam Imaging Solutions also supplies ion beam equipment including ion gun systems, ion sources, ion beam deflectors, velocity (Wien) filters, faraday cups and decelerators.

[Read more..](#)

Contact Us

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