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## ***Amersham Typhoon 9200 Imager***

The Molecular Dynamics/Amersham/GE Healthcare Typhoon 9200 is a variable-mode imager that produces digital images of radioactive, fluorescent, or chemiluminescent samples.

The Typhoon scans and processes samples in the following way:

- Red laser illuminates each one-pixel section of an exposed storage phosphor screen, the phosphor screen emits blue light.
- When the green laser (532 nm) or the red laser (633 nm) illuminates each one-pixel section of a fluorescent sample, the fluorochrome emits light with a characteristic spectrum.
- The chemiluminescent sample emits light with a characteristic spectrum.
- Multilabel-excited mode-Creates an image from a sample labeled with up to four fluorescent dyes. The dyes can be excited by one or two of the laser wavelengths.

**Note:** EtBr samples are not allowed in the Typhoon, there is an Alpha Imager specifically for imaging these gels.

### **Emission filter options:**

<b>Emission filter</b>	<b>Description</b>
555-nm band-pass filter (555 BP 20)	Transmits light between 545 nm and 565 nm and has a transmission peak centered at 555 nm. Use this filter with fluorochromes, such as R6G and HEX.
580-nm band pass filter (580 BP 30)	Transmits light between 565 nm and 625 nm and has a transmission peak centered at 580 nm. Use this filter with fluorochromes, such as TAMRA and Cy3.
610-nm band-pass filter (610 BP 30)	Transmits light between 595 nm and 625 nm and has a transmission peak centered at 610 nm. Use this filter with fluorochromes, such as ROX, EtBr, SYPRO Red, and SYPRO Ruby.
670-nm band	Transmits light between 655 and 685 nm and has a transmission peak

pass filter (670 BP 30)	centered at 670 nm. Use this filter with fluorochromes, such as Cy5.
526-nm short-pass filter	Transmits light below 526 nm. Use this filter with fluorochromes, such as fluorescein when scanning with the green laser. (Note: When using the blue laser, the 520 BP 40 might provide better results.)
560-nm long-pass filter	Transmits light above 560 nm. Use this filter with fluorochromes, such as TRITC.
390-nm band-pass filter	This filter is used for storage phosphor scanning and is not normally used for fluorescence scanning.

The Typhoon contains three Standard beamsplitters and has a slot for one additional custom beamsplitter.

<b>Beamsplitter</b>	<b>Description</b>
560-nm Dichroic	Reflects light wavelengths shorter than 560 nm and passes light longer than 560 nm.
580-nm dichroic	Reflects light wavelengths shorter than 580 nm and passes light longer than 580 nm
630-nm dichroic	Reflects light wavelengths shorter than 630 nm and passes light longer than 630 nm



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