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Chapter 4 Photostimulable Phosphor Image Capture

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| **Across**  **4.** grid in which the scatter absorbing lead lines are tilted so that, at a distance, the lines will coverage  **6.** soft polymer that protects the back of the cassette  **10.** reduction of the area of beam that reaches the patient through the use of two pairs of lead shutters  **11.** grid line or image noise pattern ; zebra pattern  **12.** milliampere-seconds  **16.** semirigid material in the imaging plate that gives the imaging sheet some strength  **19.** located between the active layer and the support that absorbs the stimulating light but reflects emitted light  **22.** layer of material that will absorb and reduce static electricity  **23.** movement of the laser along the imaging plate  **24.** movement of the imaging plate through the reader ; also known as translation or subscan direction  **25.** used to blacken out the white collimation borders in a digital image  **26.** ratio of the height of the grid line to the width of the interspace material  **27.** layer in the imaging plate that sends light in a forward direction when released in the cassette reader  **28.** phosphor that produces light when stimulated by light or x-ray photons | **Down**  **1.** layer of photostimulable phosphor that traps electrons during exposure  **2.** thin piece of plastic with several layers of material that capture and store image data  **3.** thin, tough clear plastic covering the image plate for protection of the phosphor layer  **5.** number of grid lines per inch  **7.** area within the phosphor where electrons are trapped  **8.** detects photostimulable phosphor  **9.** the number of bits stored per pixel  **13.** label attached to the cassette or to the imaging plate that identifies the plate for the purpose of matching the examination to the plate  **14.** avoidable extraneous information on the image that interferes or distracts from image quality  **15.** rigid plastic housing for the imaging plate  **17.** light amplification of stimulated emission of radiation, a device that creates and amplifies a narrow intense beam of coherent light  **18.** kilovoltage peak  **20.** failure of an imaging system to record densities  **21.** recording error in the digital image |