

TI-5074

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DRYVIEW DVB+ Laser Imaging Film

Description

DRYVIEW DVB+ Laser Imaging Film is high-resolution, photothermographic, gray-scale film suitable for continuous-tone medical imaging. The film provides excellent diagnostic visualization of fine detail, sharp image rendition, and a cool image tone. DRYVIEW DVB+ Laser Imaging Film is infrared sensitive and is used in CARESTREAM DRYVIEW Laser Imaging Systems.

DRYVIEW DVB+ Laser Imaging Film is intended for use as a general-purpose diagnostic film, designed to record a full range of images from various modalities including computed tomography, digital subtraction angiography, magnetic resonance imaging, nuclear medicine, ultrasound, computed radiography, digital radiography, and digitized film images. It is coated on blue, approximately 7-mil polyester base supports.

Safelight

CARESTREAM DRYVIEW Laser Imaging Systems are designed for daylight use. Should it be necessary to open a box or cartridge of DRYVIEW Laser Imaging Film outside of the Laser Imager, use a green safelight, ~550 nm transmittance (7B type) with a frosted 7-1/2 watt bulb, located at least 1.2 metres (4.0 ft) from the film. Light from luminous watches, cell phones and darkroom light leaks should be avoided.

Storage and Handling

Handling

Hands must be clean, dry, and free of lotions, etc. Film should be handled carefully by the edges to avoid physical strains such as pressure, creasing, or buckling.

Storage (Undeveloped Film)

Store unexposed DRYVIEW Laser Imaging Film at 4-24 °C (39-75 °F), at 30 to 50 % RH, and properly shielded from x-rays, gamma rays, or other penetrating radiation.

Storage (Developed Film)

Handling the Laser Imaging Film requires reasonable care. However, prolonged exposure to intense light or excessive heat (equal to or greater than 54.4 °C or 130.0 °F) for more than three hours may cause some gradual darkening of images. Leaving films in vehicles in hot climates for extended periods of time is not recommended.

For best results, store the film in sleeves when not being reviewed. The Laser Imaging Film can be left on a light box for more than 24 hours. In extreme cases in which the light boxes are exceptionally hot (equal to or greater than 49 °C or 120 °F), the manufacturer recommends removing them prior to eight hours of continuous exposure.

Take care when using spotlight viewing for more than 30 seconds because temperatures near the light source may exceed 82.2 °C (180.0 °F).

With dry technology, a small amount of final development occurs when the film exits the imager and is initially exposed to ambient or view-box lighting. This is virtually undetectable and has no effect on image quality. This small density increase is uniform and permanent upon full exposure of the film under normal handling conditions (room light or view box).

Processed film should be stored within the temperature range of 16–27 °C, or 60–80 °F, and at 30–50 % RH. Developed films may be stored at higher temperatures; however, prolonged exposure to higher temperatures will reduce the number of years the film can be effectively archived.

Sensitometric Performance

Sensitometric Parameters

Maximum Printed Density (Dmax)	Maximum density of processed film when printed in appropriate DRYVIEW Laser Imager.
Minimum Printed Density (Dmin)	Minimum density of processed film in non-image areas when printed in appropriate DRYVIEW Laser Imager.

Sensitometric Characteristics

Characteristic	DRYVIEW Laser Imager Model	DVB+ Laser Imaging Film
Maximum Printed Density (Dmax):	DRYVIEW 5700 Laser Imager	3.00
	DRYVIEW 5950 Laser Imager	3.10
	DRYVIEW 6950 Laser Imager	3.30
Minimum Printed Density (Dmin):	DRYVIEW 5950, 5700, 6950 Laser Imagers	≤0.28

Notice:

- To enable optimal film performance, the DRYVIEW Laser Imagers must be updated to the latest software release.
- While the data presented are typical of production coatings, they do not represent standards that must be met by Carestream Health, Inc. Varying storage, exposure, and processing conditions will affect results. The company reserves the right to change and improve the product characteristics at any time.

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End of Data Sheet
