

MEDIPHOT - LASERFILMS

Colenta offers an assortment of laserfilms covering most of the laser cameras/printers available on the market. The list below shows which Colenta films are to be used for the various laser printers on the market.

MEDIPHOT laser films are single emulsion films designed to produce high quality diagnostic recordings from different laser cameras. Each type of laser film has an optimum sensitivity that matches the emitted exposure light from the corresponding laser camera.

Processing: In any conventional x-ray processor with 45 or 90 seconds cycles in combination with conventional double coated x-ray films.

Packaging: Films are delivered in 100 sheets for darkroom loading (NIF) or in daylight load packing (100 NIF, 125 NIF or 150 NIF sheets depending on the laser camera concerned).

MEDIPHOT X-PHN/633

Sensitivity: red light with maximum at 633 nm

Brand	Camera	8"x10"	11"x14"	35x43cm
AGFA	Matrix Compact L	-	-	100 NIF/DRL
	LR 3300	- 100NIF/DLP-A	100 NIF/DRL 100NIF/DLP-A	100 NIF/DRL 100 NIF/DLP-A
	LR 5200	- 100 NIF/DLP-A	100 NIF/DRL 100 NIF/DLP-A	100 NIF/DRL 100 NIF/DLP-A

The 100 NIF DRL packed films can be loaded into the magazine in a darkroom under appropriate safe light conditions.

STERLING	LP 300	-	100 NIF/DRL	100 NIF/DRL
	LP 400	-	100 NIF/DRL	100 NIF/DRL

The 100 NIF DRL packed films are loaded in the darkroom load daylight magazine under appropriate safe light conditions.

KODAK	Ektascan 100XLP	-	100 NIF/DRL	100 NIF/DRL
	Ektascan 100	-	100 NIF/DRL	100 NIF/DRL

The 100 NIF DRL packed films can be loaded into the magazine in a darkroom under appropriate safe light conditions.

KONICA	Li-10A	-	100 NIF/DRL	100 NIF/DRL
	Li-21S4	-	100 NIF/DRL	100 NIF/DRL
	Li-21D8	-	100 NIF/DRL	100 NIF/DRL

The 100 NIF DRL packed films are loaded into the daylight magazine in a darkroom under appropriate safe light conditions.

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MEDIPHOT X-PLD/670				
Sensitivity: red light with maximum at 670 nm				
Brand	Camera	8"x10"	11"x14"	35x43 cm
KODAK	Ektascan 2180	-	-	-
	Ektascan 190	-	-	100 NIF/DLP-K2
				100 NIF/DRL 100 NIF /DLP-K1
The 100 NIF DRL packed films can be loaded into the daylight magazine in a darkroom under appropriate safe light conditions.				

MEDIPHOT X-PIR/820				
Sensitivity: infrared light with maximum at 820 nm				
Brand	Camera	8"x10"	11"x14"	35x43 cm
NISHIMOTO	ELK EL 2000	-	-	100 NIF/DRL
KODAK	Ektascan 1120	-	-	100 NIF/DLP-K1
KODAK (Imation)	P831	-	-	100 NIF/DRL 100 NIF/DLP-M1
	M 952	-	-	100 NIF/DRL 100 NIF/DLP-M1
	M 959	-	-	100 NIF/DRL 100 NIF/DLP-M1
The 100 NIF DRL packed films can be loaded into the daylight magazine in a darkroom under appropriate safe light conditions.				

MEDIPHOT X-PIR/790				
Sensitivity: infrared light with maximum at 790 nm				
Brand	Camera	8"x10"	11"x14"	35x43 cm
KODAK (Imation)	969 HQ/HS	-	-	125 NIF/DLP-M2
Before inserting the MEDIPHOT X-PIR/790 cartridge into the daylight loading system, a rubber profile has to be exchanged. The rubber profile is supplied by Colenta together with an instruction sheet.				

MEDIPHOT X-PIR/780				
Sensitivity: infrared light with maximum at 780 nm				
Brand	Camera	8"x10"	26x32cm	35x43 cm
FUJI	FL-IM	-	150 NIF/DLP-F1	150 NIF/DLP-F1
	FL-IMD	Not available yet		

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Code for Packing:	DRL	DarkRoom Load
	DLP-A	Daylight Load Packing-AGFA
	DLP-K1	Daylight Load Packing-KODAK
	DLP-K2	Daylight Load Packing-KODAK
	DLP-M1	Daylight Load Packing-KODAK/Imation
	DLP-M2	Daylight Load Packing-KODAK/Imation
	DLP-F1	Daylight Load Packing-FUJI

Installations and adjustments when introducing MEDIPHOT film for the first time

Calibration

All laser printers need to be calibrated for optimal image quality. The procedure is recommended to be done in regular intervals even if the film brand has not been changed. The calibration process informs the laser system which density on film corresponds with a particular data input, under particular processing conditions. The calibration ensures consistent image appearance, despite differences in film emulsions and processing conditions.

The procedure of calibrating the printer can vary depending on the brand. It is recommended to read the printer manual before starting the calibration procedure.

- Load new film
- Print calibration film #1
- Adjust laser output for the right D-max (2.90 – 3.20)
- Print calibration film #2
- Measure and input step wedge densities. This can be done by a densitometer or in some cases automatically by the printer.
- Select user test setting
- Print diagnostic image
- Show to radiologist and correct based on opinion

In some cases the procedure of calibration is different and some steps may be excluded. See the calibration manual.

Film loading

Most laser printers are equipped with a daylight loading system. Differences in the daylight packaging lie mainly in the interior plastic bag and/or in the cardboard on each side of the film package in the box. The plastic bag is loaded into the daylight magazine and the light cover is closed. Different techniques are used in order to open the film package and to remove the plastic bag. This is all done in daylight or when the magazine is in position in the magazine holder.

Some printers are not equipped with daylight loading or Colenta has not the corresponding daylight packaging. In those cases the magazine has to be loaded in the darkroom.

More info regarding ART COLENTA Medical Product Line
see <http://www.colenta.at> and <http://www.colenta.de>