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Product Information Bulletin Type DPII



1. Features and uses

Fujicolor Crystal Archive Digital Paper Type DPII is a silver halide color paper designed exclusively for digital output. When used in conjunction with medium or large scale digital printer systems or the Fujifilm Digital Minilab Frontier, this paper yields high image quality digital prints that make it suitable for such professional uses as portrait or commercial photography.

Features

High D-max Boasts a wide tonal range, producing high image quality prints

with a rich textural quality

Purer Whiteness Clearer, more distinct print images and sharper text quality

Vibrant Color Expanded color reproduction range with high color saturation,

Reproduction ideally suited to commercial use

Excellent Latent Stable production of more uniform high quality prints for greater

Image Stability productivity

Excellent Image Highest level of image stability ideal for display purposes

Stability

2. Safelight

Handle in total darkness. If safelight use is unavoidable, observe the following precautions.

- Expose paper no longer than 1 minute to light emitted through two Fuji Safelight Filter No.103A
 (or Wratten Safelight Filter No. 13) in a 10 watt tungsten lamp safelight located at least 1 meter
 from the work area.
- Safelight filters fade with extended use and need regular checking. Replace when paper fogging is detected.
- Exposed paper is susceptible to safelight induced sensitivity increases in the exposed area. For this reason, exposed paper should be subjected as little as possible to safelight illumination.

Pre-processing paper handling - Storage

The higher the temperature and humidity, the more paper, whether unused, unexposed or exposed, is susceptible to adverse changes in speed, color balance, physical characteristics and other properties. Unprocessed paper is best stored at low temperatures. Specifically, the following conditions should be used for paper storage.

- Short term storage: Store in a cool and dark location, away from direct sunlight, high temperature and high humidity.
- Long term storage: Below 10°C (50°F).
 - **Remark: Silk surface: Short term storage (0~4 months): Max 20°C (68°F)
 - Long term storage (> 4 months): Below 10°C (50°F)

Raw paper which has been stored at a low temperature (by refrigeration) should be set aside and allowed to warm to room temperature prior to being opened. If the paper is taken out of its packaging immediately after being removed from refrigerated storage, condensation will be formed on the paper surfaces, resulting in print colour changes and easily damaged surfaces.

The minimum temperature equalization periods are as follows.

20°C (68°F) Temperature Equalization Periods

Unit: hours.





3. Pre-processing paper handling - Storage

	Storage Temperature		
	-20°C	0°C	10°C
Paper Size	(-4°F)	(32°F)	(50°F)
127cm x 50m (50 in. x 164 ft.)	12	10	7

Notes: Do not heat paper in order to equalize temperatures. Remove paper from refrigeration one day before use.

If exposed paper remains unprocessed for extended periods of time under normal room conditions or is subjected to high temperature and/or high humidity, changes in the color balance and other properties may occur. The time between exposure and development should be fixed in order to obtain consistent quality. Avoid waiting until the next day to develop the exposed paper. Rather than holding the paper for processing the next day, initiate processing as soon as possible.

4. Processing

This paper is designed for use with Fujicolor Paper Process, CP48S and CP49E or RA-4 type processes. Combining this paper with Fujifilm chemicals results in many advantages including faster processing, greater processing stability, reduced contamination hazards, greater ease in solution preparation and higher print quality.

5. Control strips

Processing control can be provided through the use of Fujicolor Crystal Archive Paper Control Strips Process CP-40FA/43FA/47L/48S and 49E.

6. Post processing print handling - Storage

Since prints are usually used for the long term recording of images, as much effort as possible is made to use materials that exhibit the least amount of change over time. But the effects of high force during folding, light, heat, oxygen in the air, contaminating gases, humidity and mold cannot be completely avoided.

Also the change in the photographic image or base material are minimized by maintaining the appropriate storage conditions for prints, such as those used by museums and art galleries. Temperature and humidity control is the most important key to minimizing the change that occurs in prints. Prints stored in the dark under the following conditions may be expected to show almost no change over time.

Storage period with almost no change	Temperature	Relative Humidity
More than 20 years	Below 10°C (50°F)	30% - 50%
10 — 20 years	Below 25°C (77°F)	30% - 50%

Notes on Prints Storage:

1. Prints should be inserted into albums, mounted, or placed into a bag (plastic*) for photographic prints before being stored.

*Made of polyester, polystyrene or polypropylene plastic, etc

2. Even during normal storage, it is recommended that prints be stored at a place as free as possible from hot and humid conditions, and away from direct illumination.

The following are examples of undesirable storage conditions.

- Storage in a room closet facing a wall exposed to cold outside air (which may cause condensation).
- Storage in a place near the ceiling, such a an attic, the top of a closet or cupboard (where high temperatures may occur).
- Storing prints with their front surfaces facing each other may result in unexpected problems.
 If the adjacent print placement is unavoidable, it is necessary to keep the surface separated by, for example, the use of interleaving sheets of paper

ORIGINAL PHOTO PAPERS

7. Light sources for viewing

When inspecting finished colour prints, it is essential that an illumination source must be used that has superior spectral characteristics, adequately high colour temperature and sufficient brightness. This is because results can appear different, depending on light quality. For precise results, prints should be examined under the conditions designated by ISO 3664-2009. As a general guide, the following conditions are recommended.

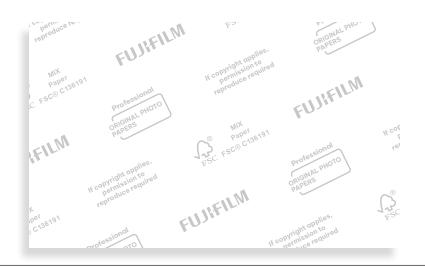
Colour Temperature $:5000 \pm 300 \text{ K}$ Average Illumination :500 Lux or moreGeneral Colour Rendering Index : Ra 90 or more*

When inspecting finished prints, be careful to shut out all external light and coloured reflected light.

8. Paper surface available

Fujicolor Crystal Archive Digital Paper Type DPII is available in Glossy, Lustre, Matte and Silk surface.

9. Back printing



10. Markings (Box / Emulsion numbers)

10.1 Box markings



"+" indication means that at least 1 spliced babyroll is packed and or a different production control roll number having same photographic properties.

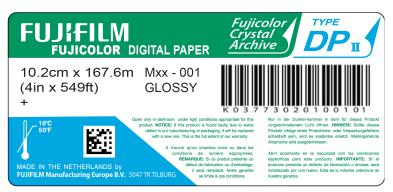


^{*} To attain these values, special fluorescent lamps designed for colour evaluation (e.g. EDL type) should be used.



10. Markings (Box / Emulsion numbers)

10.2 Bag labelling



[&]quot;+" indication means that a splice is present in the baby roll.

10.3 Emulsion numbers

Emulsion numbering will be in ascending order from 2yx-xxx (with back print) and 3yx-xxx (without back print) at introduction.

Note:

Fujicolor paper is marked with a three digit emulsion number followed by an additional three digit number which is provided for production control purpose only. Should any problem arise with Fujicolor Crystal Archive Digital Paper Type DPII, the additional three digit number suffix to the emulsion number should be indicated on the claim.

11. Technologies incoporated in this paper

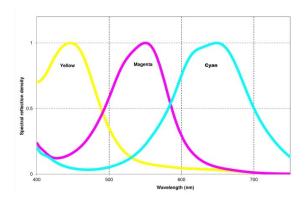
11.1 X-Coupler Technology

Through the incorporation of a cyan coupler (X-Coupler Technology), which features a molecular structure developed by Fujifim's proprietary technologies, this paper is capable of reproducing the subtle shades of green and of forming colors of high purity, such as vibrant blues and reds.

11.2 NLS (New Low Stain Spectral Sensitizer) Technology and ARR (Advanced Resistance-to-Radiation) Technology

Fujicolor Crystal Archive Digital Paper Type DPII has not only WE (White Enhancing) Technology but also incorporated NLS Technology, which is Fujifilm's LSS Technology taken to a higher level. The results are more brilliant, purer whites and clearer and more distinct highlights. In addition, ARR Technology, an advance over the previous RR Technology, has been incorporated to suppress color paper fogging caused by ambient radiation, enhancing the maintenance of white purity in unexposed color paper.

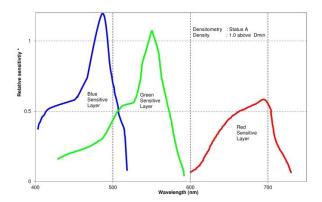
12. Spectral dye density curves



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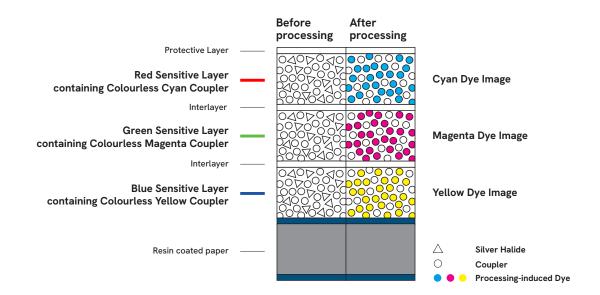
Type DPII

13. Spectral sensitivity curves



^{*}Sensitivity equals the reciprocal of the exposure (j/cm²) required to produce a specified density

14. Paper structure



15. Sizes available

		Box packagin	Bulk packaging			
L	ength	54 M	83,8 M	108 M	167,6 M	167,6 M
Width		(177 ft)	(275 ft)	(354 ft)	(549 ft)	(549 ft)
10.2 cm (4 in.)					G/L/M/S	G/L
12.7 cm (5 in.)					G/L/M/S	G/L
15.2 cm (6 in.)					G/L/M/S	G/L
17.8 cm (7 in.)					M/S	G
20.3 cm (8 in.)				G/L/M/S	L/M	G/L/S
21.0 cm (8.3 in.)					М	G
25.4 cm (10 in.)				G/L/M/S	L/S	L
27.9 cm (11in.)			L			L
30.5 cm (12 in.)				G/L/M/S	M/S	G/L/M/S
40.6 cm (16 in.)			G/L/M/S			
50.8 cm (20 in.)			G/L/M/S			
61.0 cm (24 in.)		G/L/M/S				
76.2 cm (30 in.) IN		G/L/M/S				
76.2 cm (30 in.)		G/L/S				
106.0 cm (41.7 in.) IN		G/L/M				
127.0 cm (50 in.) IN		L/M/S				
127.0 cm (50 in.)		G/L				



^{*} Glossy / Lustre / Matte / Silk

Note: Size availability may change without prior notice. Availability depends on surface



16. Calibration data

DPII								
Equipment		latest	Calibration data					
		software	LUT + Target	density RGB	basic calibration cmyd	intermittance rgb	Thickness	
Brand	Name	Joitware	Glossy/Lustre	Matte/Silk	basic calibration citiya			
	3 series	Installer R	LUT I + surface selection					
Frontier	5 series	Installer R	LUT I + surfa	ace selection	n.a.	n.a.	n.a.	
	7 series	V 4.01	LUT I-1	LUT I-2				
Noritsu	QSS 28xx - LP24Pro	Vol.2 7 20	160		n.a.	n.a.	n.a.	
Nortisu	QSS 35, 37, 38, 39 series	Vol.3 N4.54			II.a.	n.a.	II.a.	
Agfa	DLab 1, 2, 3		2.35/2.35/2.25	2.25/2.25/2.15	0.97 / 1.00 / 1.02			
KIS	DKS 15x, 16x, 17x		Printer defines own and highest possible Dmax settings (exposure vs chemistry r				relation)	
	Fastprint		2 35/2 35/2 25	2 25/2 25/2 15			0.04	
ISAG	Wideprint 8", 12nG		2.35/2.35/2.25	2.23/ 2.23/ 2.13	n.a.	n.a.	0.24	
	Wideprint 12"		160		n.a.	n.a.	n.a.	
ZBE Chromira	SE, Pro, R2R		2.35/2.35/2.25	2.25/2.25/2.15	n.a.	n.a.	n.a.	
Polielettronica	Laserlab 50 / 76		Printer defines own and highest possible Dmax settings (exposure vs chemistry re					
	Epsilon				0.004/0.056/0.000/0.920	90 / 50 / 37		
Durst	Zeta							
Durst	Theta 50 / 51		2.35/2.35/2.25	2.25/2.25/2.15	170.2/112.0/0.00/104.3		n.a.	
	Theta 76 / 76HS				0.006/0.085/0.000/1.325	101 / 56 / 42		
	Lambda	1			124.0 / 95.8 /0.00 / 129.0			
OCE Lightjet	430 / 500XL / 5000		Media target can be downloaded from the Fujifilm Europe.eu website					

All recommended Dmax values can only be reached when using high active chemistry equal to Fujifilm CPRA Digital Pro AC and Fujifilm ADM chemistry For competitive and recycling chemistry the Dmax should be reduced with -0.10 density

17. Use with Frontier

Please refer to the following calibration data as a general guide when using Fujicolor Crystal Archive Digital Paper Type DPII on a digital printer.

All Frontiers requires a dedicated LUT when printing. It is necessary to adjust for the paper type for each paper magazine by changing the paper "Type" specification in the "Paper Magazine Registration" menu.

Registration and Setup of the Paper Type specification on Paper Magazine for Frontier 330/350/370/390 series.

- 1. Log in to the <4 Setup and Maintenance> menu with <SE2> for the user name and password of <7777>.
- 2. Select <5 Printer Adjustment / Maintenance>, <1 Paper Magazine Registration> (Menu 451) and change the type to "I" as shown in the table below.

Paper	Type
Crystal Archive Paper type DPII	I

3. Select < 2 Print Condition Setup and Check >, < 1 Paper condition Setup > (menu 421) and perform a paper condition setup for all magazines for which the paper type is changed.

It is important to click the "initialize" button to initialize the settings before making the paper condition setup. After initialization the first paper condition setups will deviate by a great degree, but this will be balanced after the second or third attempt.





17. Use with Frontier

Registration and Setup of the Paper Type specification on Paper Magazine for Frontier 340/355/375/550/570/590 series

- 1. Log in to the <4 Setup and Maintenance> menu with <SE2> for the user name and password of <7777>.
- 2. Select the <Adjustment/Maintenance>, <02 Print Condition Setup and Check>, <0221 Paper Magazine Registration>. Change the paper type to "I" as shown in the table below.

Paper	Туре
Crystal Archive Paper Type DPII	1

3. Click the < Setup and Maintenance >, <02 Print condition Setup and Check > , < 0200 Paper Condition Setup > and perform a paper condition setup for all magazines for which the paper type is changed.

It is important to click the "initialize" button to initialize the settings before making the paper condition setup. After initialization the first paper condition setups will deviate by a great degree, but this will be balanced after the second or third attempt.

Registration and Setup of the Paper Type specification on Paper Magazine for Frontier 7000/9000 series.

- 1. On the Maintenance Application display, click the [maintenance] to access the Maintenance display. Click [Extension] [Setup] [Laser Setup] [Paper Specification Registration/Setup].
- 2. Select the paper type "I-1" or "I-2" as shown in table below:

Paper	Туре	Surface
Crystal Archive Paper Type DPII	I-1	G/L
Crystal Archive Paper Type DPII	I-2	M/S

Follow the instructions on the Paper Specification registration/set up. Make the test prints and register the measurement results.

18. Technical Support

In case abnormalities are found when using this Fujicolor Crystal Archive Digital Paper Type DPII, please contact your local Fujifilm subsidiary and/or distributor.

Relevant Fujifilm subsidiary and/or distributor contact information can be found on the following internet address: http://www.fujifilm.com/worldwide/

Notice:

The data herein published were derived from materials taken from general production runs. However changes in specification may occur without notice.





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