### ORIGINAL PHOTO PRINT BY FUJIFILM

**Product Information Bulletin** 

Album



1. Features and uses Fujicolor Crystal Archive Album Paper is a silver halide color paper designed to produce high image quality prints. The base of Fujicolor Crystal Archive Album Paper is specially designed for mounting it to double sided photo pages. Like Fujicolor Crystal Archive Paper, this new paper incorporates silver halide emulsion, coupler and layer design technology to deliver enhanced color reproduction, white purity, image stability and handling. **Features Optimal designed** Resulting in easy to handle photo album pages after prints have been assembled and mounted. thickness properties **Purer Whiteness** Clearer, more distinct highlight details. Vibrant Colour Retains beautiful colours such as subtle shades of green, vivid Reproduction blues and reds. Improved handling Improved tolerances for processing unevenness and pressure characteristic induced density. **Excellent Image Stability** Exhibits high image stability during extended long term dark storage conditions as well as excellent storability with respect to nitrogen oxide, ozone, and other gases. 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. 3. Pre-processing The higher the temperature and humidity, the more paper, whether unused, unexposed or exposed, is paper handling susceptible to adverse changes in speed, color balance, physical characteristics and other properties. Storage 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).

# ORIGINAL PHOTO PRINT BY FUJIFILM

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,

#### 3. Pre-processing paper handling -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.

	Storage Temperature		
	-20°C	0°C	10°C
Paper Size	(-4°F)	(32°F)	(50°F)
127cm x 50m (50 in. x 164 ft.)	6	5	3,5

**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 photo Album Storage:

When prints have been assembled and mounted, it is recommended that the album be stored at a place as free as possilbe from hot and humid conditions, and away from direct strong light. The following are examples of undesirable storage conditions.

• Storage of the album at a temperature higher then 50°C and/or relative humidity higher then 70%.

# • Storage in a closet that is adjacent to an exterior wall could lead to extreme cold temperatures and condensation.

• Storage in a place near the ceiling, such as an attic, the top of a closet or cupboard (where high temperatures may occur).

# ORIGINAL PHOTO PRINT

Album

# ORIGINAL PHOTO PRINT by fujifilm

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 ± 300 KAverage Illumination: 500 Lux or moreGeneral Colour Rendering Index : Ra 90 or more** To attain these values, special fluorescent lamps designed for colour evaluation (e.g. EDL type) should be used.			
		When inspecting finished prints, be careful to shut out all external light and coloured reflected light.			
8.	Paper surface available	Fujicolor Crystal Archive Album Paper is available in Lustre surface.			
9.	Back printing	This product has no back printing.			
10	. Markings (Box / Emulsion numbers)	10.1 Box markings			
		EUSTRE       CLP AB EMNO Gxx-600       LL       Album paper         30.5 cm x 240m (12in x 787t)       Image: Compare and the second			
		"+" indication: spliced baby roll is/are packed.			
		10.2 Bag labelling			
		FUJIFILM     Fujicolor     Album       FUJICOLOR PAPER     Archive     Paper			
		30.5cm x 240m Gxx - 600 (12in x 787ft) LUSTRE + K 0 3 7 7 3 0 2 0 1 0 0 1 01			
		10°C 50°C			
		"+" indication means that a splice is present in the baby roll.			

### 10.3 Emulsion numbers

Emulsion numbering will be in ascending order from Cyx-xxx at introduction.

#### Note:

ORIGINAL

BY FUJIFILM

PHOTO PRINT

Fujicolor paper is marked with a three digit emulsion number followed by an additional three digit number which

# ORIGINAL PHOTO PRINT BY FUJIFILM

# 10. Markings (Box / Emulsion numbers) is provided for production control purpose only. Should any problem arise with Fujicolor Crystal Archive Album Paper, the additional three digit number suffix to the emulsion number should be indicated on the claim.

11. Technologies incoporated in this paper

#### 11.1 Base paper technology

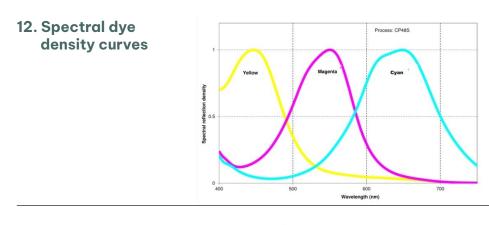
Specially designed base paper having unique characteristics is used for this product. Optimized paper thickness will result in improved leafing through of photo albums with double sided pages.

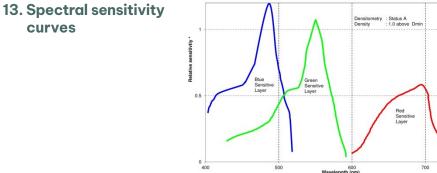
#### 11.2 X-Coupler Technology

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

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

Fujicolor Crystal Archive Album Paper 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.

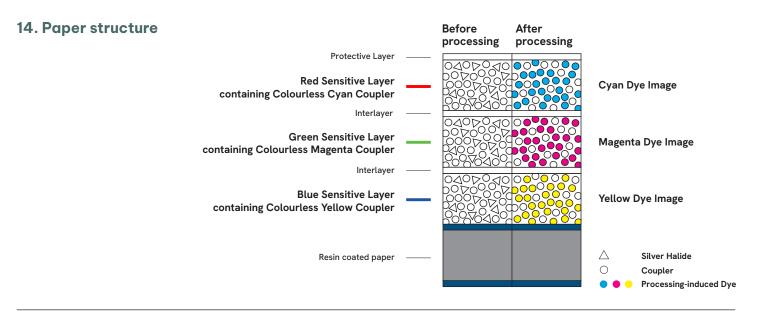








# ORIGINAL PHOTO PRINT BY FUJIFILM



### 15. Sizes available

	Box packaging			Bulk packag		
Length	70 M	120 M	240 M	250 M	550 M	600 M
Width	(230 ft)	(394 ft)	(787 ft)	(820 ft)	(1804 ft)	(1968 ft)
10.2 cm (4 in.)						L
12.7 cm (5 in.)					L	
17.8 cm (7 in.)						
20.3 cm (8 in.)			L	L		
22.0 cm (8.6 in.)			L	L		
25.4 cm (10 in.)			L			
30.5 cm (12 in.)			L	L		
40.6 cm (16 in.)		L				
50.8 cm (20 in.)		L				

\* Lustre

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



### 16. Calibration data

Equipment		latest	Calibration data				
		software	LUT + Target density RGB	Basic calibration cmyd	Intermittance rgb	Thickness	
Brand	Name	Software	Lustre				
	3 series	Installer R	LUT C + Lustre**				
Frontier	5 series	Installer R	LUT C + Lustre** n.a.		n.a.	n.a.	
	7 series V 4.01 LUT C-1**						
Noritsu	QSS 28xx - LP24Pro	Vol 2 7 20	175	n.a.			
QSS 35, 37, 38, 39 series Vol 3 N4.54	175	II.d.	n.a.	n.a.			
Agfa	DLab 1, 2, 3		2.05 / 2.05 / 2.00	0.97 / 1.00 / 1.02			
KIS	DKS 15x, 16x, 17x		Printer defines own and highe	st possible Dmax settings (ex	posure vs chemistry	relation)	
	Fastprint						
ISAG	Wideprint 8", 12nG		2.05 / 2.05 / 2.00	n.a.	n.a.	0.17	
	Wideprint 12"		175			n.a.	
ZBE Chromira	SE, Pro, R2R		2.05 / 2.05 / 2.00	n.a.	n.a.	n.a.	
Polielettronica	Laserlab 50 / 76		Printer defines own and highest possible Dmax settings (exposure vs chemistry relation)			relation)	
	Epsilon			0.004/0.056/0.000/0.920	90 / 50 / 37		
	Zeta						
Durst	Theta 50 / 51		2.05 / 2.05 / 2.00	170.2 / 112.0 / 0.0 / 104.3		n.a.	
	Theta 76 / 76HS			0.006/0.085/0.000/1.325	101 / 56 / 42	1	
		1		124.0 / 95.8 / 0.0 / 129.0			
	Lambda			124.0/ 93.0/ 0.0/ 129.0			

Please ask your local distributor for details available in technical information T108.0.

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.

Media target and ICC profile location: https://www.fujifilm.eu/eu/support/photofinishing/color-management.

### 17. Use with Frontier

ORIGINAL

BY FUJIFILM

PHOTO PRINT

#### 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 "C" as shown in the table below.

Paper	Туре
Crystal Archive Album Paper	С

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.

#### When using AD100:

Do not click the "initialize" button.Start calibrating the paper using the Print button.

#### When using AD200:

It is recommended 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. (Please note that clicking the "initialize" button wil not be possible if you do not log in with a user name of lab administrator or higher).

Album

#### **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>.
- Select the <Adjustment/Maintenance>, <02 Print Condition Setup and Check>, <0221 Paper Magazine Registration>. Change the paper type to "C" as shown in the table below.

Paper	Туре	
Crystal Archive Album Paper	С	

- 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.
- Click the <Setup and Maintenance> <02 Printcondition Setup and Check> <0200 Paper Condition Setup> and perform a paper condition setup for all magazines for which the paper types are 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. (Please note that clicking the "initialize" button wil not be possible if you do not log in with a user name of lab administrator or higher)

#### Registration and Setup of the Paper Type specification on Paper Magazine for Frontier 700 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 "C-1" as shown in table below:

Paper	Туре	Surface
Crystal Archive Album Paper	C-1	L

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 Paper Supreme 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.

ORIGINAL PHOTO PRINT BY FUJIFILM



Fujifilm Europe B.V. PO box 600 5000 AP Tilburg The Netherlands

©**Technical Market Support** February 2022

Document nr: AF3-211E6