Fujifilm Digital Minilab Frontier 550/570/590 Main Specifications

	Input source	Print sizes	Paper widths	Frontier 550	Frontier 570	Frontier 590
Processing capacity (actual production)	135	3R	127 mm	Approx. 1350 prints/hr	Approx. 1800 prints/hr	Approx. 1800 prints/hr
		4R	152 mm	Approx. 1210 prints/hr	Approx. 1800 prints/hr	Approx. 1800 prints/hr
		12R	305 mm	Approx. 100 prints/hr	Approx. 100 prints/hr	Approx. 100 prints/hr
	Advanced Photo System (IX240)	3R C/H/P-mixed-format prints; 25 exp. roll and index print	89 mm	Approx. 34 rolls/hr	Approx. 50 rolls/hr	Approx. 50 rolls/hr
	Media prints (digital still cameras with 2.5 million pixels)	3R	127 mm	Approx. 1350 prints/hr	Approx. 1800 prints/hr	Approx. 1800 prints/hr
		4R	152 mm	Approx. 1210 prints/hr	Approx. 1700 prints/hr	Approx. 1700 prints/hr
Processor Capacity (maximum capacity)	135	3R	127 mm	Approx. 1350 prints/hr	Approx. 2210 prints/hr	Approx. 2550 prints/hr
		4R	152 mm	Approx. 1210 prints/hr	Approx. 2040 prints/hr	Approx. 2400 prints/hr

Printable films (using standard or optional film carriers)	■ Color negative film: 135 and Advanced Photo System (IX240) (standard) / 110, 120, 220 (optional) ■ Color positive film: 135 (strips, piece and mounting) (optional) / Advanced Photo System: cartridge and piece (standard); mounting (optional) / 120, 220 (optional) ■ Black-and-white film: 135 (standard) / Sepia (Advanced Photo System) (standard)
Print sizes	82.5 x 117 mm ~ 305 x 457 mm
Processing chemicals	Chemical system CP-49E
Footprint space	■ Input unit (SP-3000) : Approx. 0.7 m² ■ Output unit (LP-5500/LP-5700) : Approx. 1.2 m² ■ Output unit (LP-5900/with 24 sorter) : Approx. 1.4 m²

Input unit | SCANNER & IMAGE PROCESSOR
Frontier 550, Frontier 570 and Frontier 590 (SP-3000)

Type: Floor-type, independent scanner.
Scanning section: Area CCD with precision pixel shifting system
Film carriers: • 135/IX240 automatic film carrier (standard)
135F/P/Hv/135H (optional); Color/black-white negative, color reversal; Piece and strip film.
IX240: Color/sepia negative, color reversal; Cartridge and strip film.
• Multi-film carrier MFC10AY (optional)
110, Advanced Photo System (IX240), 135F, 135P, 135 half, 135FP, 120/220 (6 x 4.5, 6 x 6, 6 x 7, 6 x 8, 6 x 9), 135 reversal mount.
Image processing: Optimal color reproduction processing, color gradation control, facial expression enhancement, hyper-tone processing, hyper-sharpness processing, monotone finishing, retouching function (dust or scratches on film can be erased automatically in printing), soft focus, red-eye correction processing, and others.
Display: 17-inch CRT or LCD color display
Multi-frame display capability (standard 6-frame display, can be set to display single frame or six frames)
Input light source: LED
Power requirements: AC100-240V (50/60Hz), 1.0KVA
Dimensions: 890 (W) x 770 (D) x 1208 (H) mm
Weight: Approx. 118 kg (with NC 100AY and 17-inch CRT display).

Performance varies depending on processing capabilities of the Imaging Controller.
Specifications are subject to change without notice.
All brand names or trademarks are property of their respective owners.

Output unit | LASER PRINTER/PAPER PROCESSOR
Frontier 550 (LP-5500), Frontier 570 (LP-5700) and Frontier 590 (LP-5900)

Type: Floor-type, normal light operation (laser printer, processor, cutter, sorter in one unit).
Exposure system: Scanning exposure system using RGB lasers.
Paper magazines: Two switchable paper magazines (standard accessory).
Paper: FUJICOLOR paper (silver-halide).
Paper widths: 8.9, 10.2, 11.7, 12.7, 15.2, 20.3, 21.0, 25.4, 27.9, 29.7, 30.5 cm.
Back printing: Two 40-character lines in backside print of information.
Front printing: Time and date of photograph in black characters in lower-right corner on prints from Advanced Photo System (IX240) cartridge film.
Index print: Color index print and normal prints can be printed from Advanced Photo System/135 (color negative and sepia) film in one pass (by RGB laser exposure).
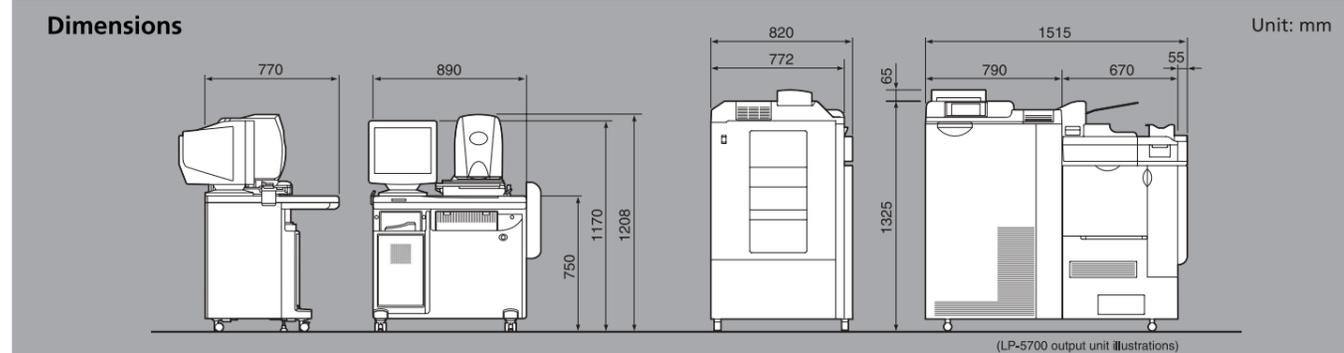Printer sorter: 550: SU700AY, sorting capacity:
7 orders of C/H/P-mixed format prints.
570: SU1400AY, sorting capacity:
14 orders of C/H/P-mixed format prints.
SU2400AY, sorting capacity:
24 orders of C/H/P-mixed format prints.
590: SU1400AY, sorting capacity:
14 orders of C/H/P-mixed format prints.
SU2400AY, sorting capacity:
24 orders of C/H/P-mixed format prints.
Printer condition setup: Semi-automatic calibration by AD300 calibrator.
Processor carriage: Multi-line, sheet carriage.
Processing time: Dry-to-dry: 1 min. 22 sec.
Power requirements: AC200-240V (50/60Hz) Single-phase 24A, Three-phase four-wire, 17A approx. 4.8KVA.
Dimensions: 550 (with 7-order sorter):
1515 (W) x 820 (D) x 1390 (H) mm.
570 (with 14-order sorter):
1515 (W) x 820 (D) x 1390 (H) mm.
590 (with 24-order sorter):
1965 (W) x 850 (D) x 1390 (H) mm.
Weights: 550 (with 7-order sorter): Approx. 460 kg
(510 kg during actual operation)
570 (with 14-order sorter): Approx. 470 kg
(520 kg during actual operation)
590 (with 24-order sorter): Approx. 504 kg
(554 kg during actual operation)

The Frontier 550/570/590 have received the UL/CUL/CE Marks for meeting high safety standards.

Dimensions

Unit: mm

770 · 890 · 1170 · 1208 · 750 · 820 · 772 · 65 · 1325 · 1515 · 790 · 670 · 55

(LP-5700 output unit illustrations)

FUJIFILM
I&I–Imaging & Information

Transform Your Workflow With Reliable High-Speed Performance

NEW DIGITAL MINILAB
Frontier 550/570/590

Frontier takes your business to a higher plane, boosts customer satisfaction

The next-generation Digital Minilab Frontier 550/570/590 models set a new standard for high-speed processing, without sacrificing the print quality that customers have come to expect from Frontier. A high-speed laser exposure system and Fujifilm's proprietary Image Intelligence image processing produce exceptional high-quality, high-resolution prints with pure, vivid colors. Expandable to handle a wide variety of digital media, these next-generation Frontier models are simple to operate, even for inexperienced staff, and feature space-saving stylish designs that can be accommodated in any floor space. In combination with Fujifilm's proprietary paper and chemicals, the new Frontier models make it possible to offer speedy "Prints in Minutes" service. That means more satisfied customers coming more often to your store.

DIGITAL MINILAB Frontier 550

General-purpose model

Processing capacity (actual production)	Processor capacity (maximum capacity)
1,210 prints/hour(4R size)	**1,210** prints/hour(4R size)

Single-order processing time	Footprint (output unit)	Print sorter	Power consumption
2' 55" (24 prints/4R size)	**1.2** m²	**7** orders	**328** kWh

Next-generation all-round Digital Minilab Frontier.
Reliable output of 1,210 prints (4R size) per hour.

DIGITAL MINILAB Frontier 570

Standard model

Processing capacity (actual production)	Processor capacity (maximum capacity)
1,800 prints/hour(4R size)	**2,040** prints/hour(4R size)

Single-order processing time	Footprint (output unit)	Print sorter	Power consumption
2' 28" (24 prints/4R size)	**1.2** m²	**14** orders	**306** kWh

Next-generation standard Digital Minilab Frontier features sophisticated functions and state-of-the-art technology.
High-capacity output of 1,800 prints (4R size) per hour.

NEW DIGITAL MINILAB Frontier 590

High-performance model

Processing capacity (actual production)	Processor capacity (maximum capacity)
1,800 prints/hour(4R size)	**2,400** prints/hour(4R size)

Single-order processing time	Footprint (output unit)	Print sorter	Power consumption
2' 19" (24 prints/4R size)	**1.4** m²	**24** orders	**296** kWh

Next-generation high-performance Digital Minilab Frontier boasts unprecedented high-capacity output of 2,400 prints (4R size) per hour.

Speedy "Prints in Minutes" service significantly cuts your customers' waiting time

Beautiful prints with minimal effort

Frontier 550/570/590 with high-speed processing technology

Starting with the high-speed, high-precision scanner, the Frontier 550/570/590 have been engineered for greater productivity. Other elements include the high-speed conveyor belt, the highly efficient multi-path chemical processing system, and the fast yet energy-efficient drying system. Sharp, high-resolution images and pure, vivid colors are provided by the Fujifilm-developed high-speed laser exposure unit.

Frontier 570

Advanced Frontier hardware and supporting Fujifilm products are the keys to "Prints in Minutes" service

Fujifilm's proprietary image-development technologies make the difference in processing speed.

Fujicolor Crystal Archive
Paper
TYPE II

Fujicolor Crystal Archive Paper Type II

Strongly recommended as the optimum color print paper for the Frontier 550/570/590, Fujicolor Crystal Archive Paper Type II paper offers faster results along with superior print quality.
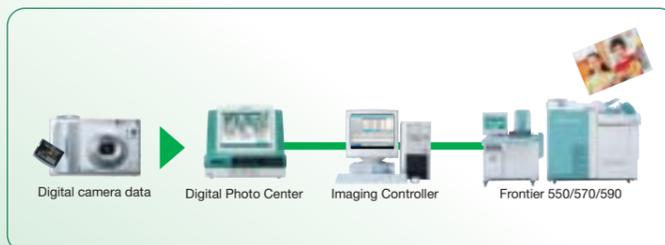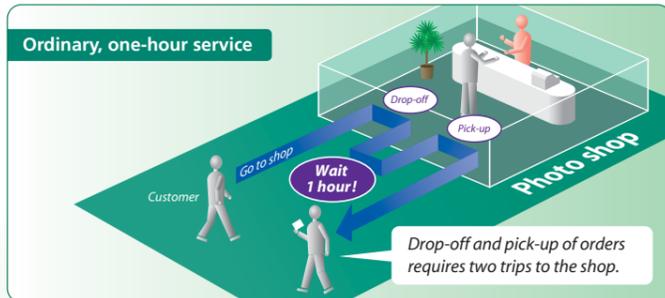
CP-49E chemical system

The CP-49E chemical system guarantees time-saving efficiency. One-touch chemical mixing provides simple, clean and safe processing.

Complete processing in only minutes

The Frontier 550/570/590 deliver the highest processing speed (for a single order*) ever offered by a Frontier minilab. Give your customers the instant gratification of receiving beautiful, full-quality prints in a matter of minutes. In addition, the Frontier 550/570/590 make significant leaps in throughput capacity, meaning you'll be able to handle more business in general and offer better and faster service during peak hours of customer demand.

* 24 prints, 4R size per order

With new "Prints in Minutes" service*

* Please note that "Prints in Minutes" service is not the official name for this service, and this example is for illustrative purposes only.

Drop-off & pick-up
Approx. **5-minute wait!**
Go to shop
Customer
Photo shop

A single order drop-off and pick-up can be handled in only one trip.

Ordinary, one-hour service

Drop-off
Pick-up
Go to shop
Wait 1 hour!
Customer
Photo shop

Drop-off and pick-up of orders requires two trips to the shop.

Speedy handling of digital camera orders with Digital Photo Center

The Digital Photo Center supports your store operations by dealing with the ever-increasing number of digital media and digital camera orders. With its fast touch-panel entry system, customers can easily enter orders by themselves. And because your staff don't have to attend to customer orders, they'll have extra time to perform other tasks.

Digital camera data   Digital Photo Center   Imaging Controller   Frontier 550/570/590

"Image Intelligence" – improved image quality delivered quickly and automatically

Fujifilm's nearly seven decades of accumulated knowledge have gone into the extensive array of digital image-processing software incorporated in the Frontier 550/570/590.
"Image Intelligence" automatically compensates for poor lighting and other problematic conditions, and it also makes skin tones more natural and facial expressions more distinct. And since photo image correction is automatic, processing time is reduced and more incoming orders can be processed.

Image Intelligence™

Full Automatic Red-eye Correction (optional)

Red-eye correction is now fully automated, so there's no need to halt the production flow to make manual selections or adjustments. Sophisticated image algorithms read every single frame as it's being processed, and distinguish precisely between human faces and other visual subject matter, correcting only the human faces with red-eyes.

Take full advantage of Fujifilm's promotional tools to publicize Full Automatic Red-eye Correction.

Automatic scratch and dust elimination (standard)

This function corrects for scratches and dust on both the emulsion layer and the film base of the original film using infrared detection and image extrapolation algorithms. Using "Image Intelligence" technology, it automatically corrects the image by extrapolating image data from the surrounding area.

Large 12-inch-wide prints

The Frontier 550/570/590 are set up to produce large-size prints used by professional photographers – up to 12x18 inches – enabling you to offer services to this segment of the market. Even at large dimensions, the prints have beautiful image quality and crisp, clear resolution.

Specialty formats and special services

Various optional software packages give you outstanding flexibility in the menu of services you offer your customers.

Digital camera print service

Digital camera photo images in various file formats can be input directly from a variety of camera storage media and computer storage media.

C4 C5

ID photo print service

Your customers can order high-quality ID photos from either ordinary film or digital sources. Automatic sizing and trim functions will adjust the relative size of the face in the final photo to meet preset specifications.

E1

Variety print service

Your customers can choose from many attractive specialized print formats.

B1 C10

Frame prints
Calendar prints
Large index prints

Watch your business run more smoothly as the FMPC and Frontier Manager streamline your shop's workflow

Enjoy more efficient space and energy usage, and greater convenience in day-to-day operations

Frontier Manager Printer Controller (FMPC) can potentially increase processing capacity by up to 40%*.

Results according to tests conducted by Fujifilm; results may vary under actual production conditions.

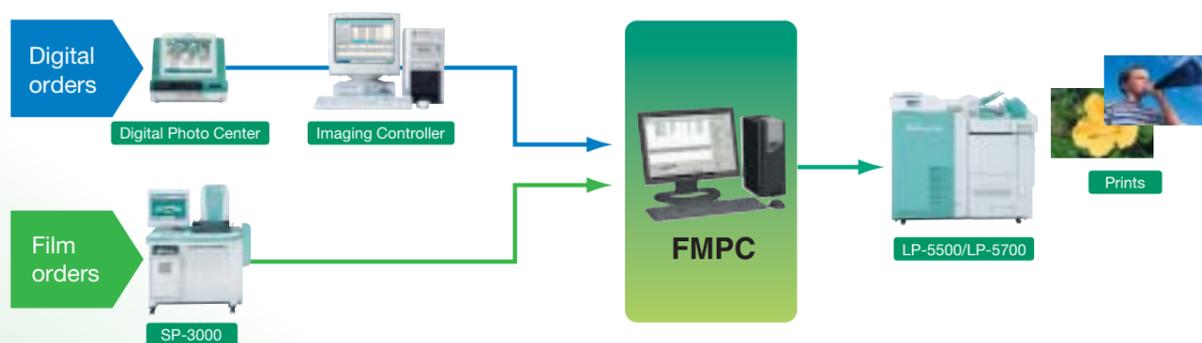- **Enhanced production and capacity through simultaneous processing**
  Film and digital image processing can be performed at the same time to eliminate waiting for input and utilize the maximum production capacity of the output unit.

- **Increased printing efficiency when combined with Frontier Manager**
  Combining the scheduling function of Frontier Manager with FMPC's simultaneous film and digital processing function makes the workflow more efficient. In addition, FMPC groups orders by print width to reduce the number of paper magazine changes.

- **More flexibility and better return-on-investment**
  FMPC can be installed without having to change most of the Frontier 550/570/590 systems; so you get maximum processing efficiency and capacity at minimal costs. With FMPC, the Frontier 550/570/590 are also flexible enough to cope with ever-diversifying print services and increased volume.

Digital orders → Digital Photo Center → Imaging Controller → FMPC → LP-5500/LP-5700 → Prints
Film orders → SP-3000 → FMPC

Frontier Manager lets you take full control of your store's operations by improving efficiency and productivity in the workflow.

- **Improved productivity to reduce workflow errors**
  Print operations are automatically set up for reduced-error workflow.

- **Easier billing calculations and management**
  You can automatically calculate and manage each order within the system, thus reducing the time and potential error of manual calculation.

- **Better time management for orders**
  Frontier Manager's time-management feature informs the staff of urgent deadline order numbers in red letters to help avoid any delays. Urgent orders are also automatically prioritized.

Order Entry Screen

Order Tracking Screen

Intuitive user interface for easier operation

The icon-based operations system for the Frontier 550/570/590 is designed for maximum usability, even by inexperienced staff without special training. Procedural steps and optional choices are laid out clearly onscreen, with context-specific help provided for every step of every operation.

Self-diagnostic system

The Frontier 550/570/590 run continuous self-diagnostic routines during the course of ordinary operation, and full diagnostic information is available in real time. Potential problems trigger an onscreen alert, so that they can be dealt with as quickly as possible.

More processing capacity in less space

Despite their greater processing capacities, the Frontier 550/570/590 are more compact than their predecessors (Frontier 350/370/390). They also allow greater flexibility in your shop's floor layout thanks to their three-sided maintenance configurations – all maintenance operations can be done from the front or the sides, and there's no need to access the back of the unit. Either unit can be placed against a wall, freeing up floor space for other uses, or allowing you to fit the Frontier into a smaller room to begin with.
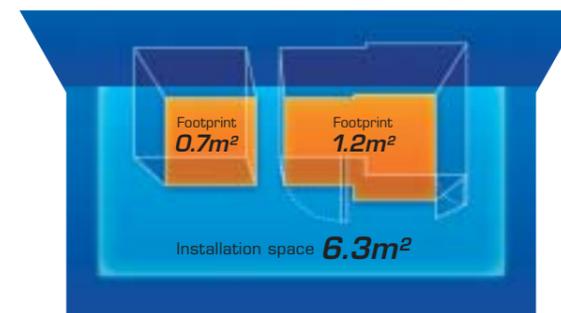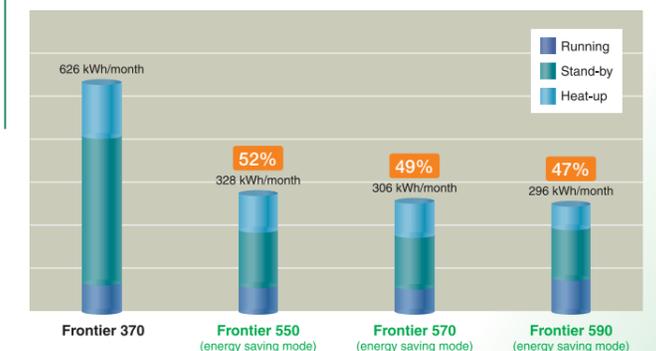
Footprint 0.7m² Footprint 1.2m²

Installation space **6.3m²**

Illustration shows installation space required for 550/570 units

Energy-saving design

Along with engineering improvements, the energy-consumption profile of the output units has been readjusted and optimized to reflect the most common usage patterns. The end result is an energy savings of approximately 50% in energy-saving mode, and approx. 35-45% in standard mode, compared with the previous model (Frontier 370).

Running / Stand-by / Heat-up

626 kWh/month — Frontier 370
52% — 328 kWh/month — Frontier 550 (energy saving mode)
49% — 306 kWh/month — Frontier 570 (energy saving mode)
47% — 296 kWh/month — Frontier 590 (energy saving mode)

24-, 14- and 7-order sorters

The Frontier 550 is available with a 7-order sorter, while the Frontier 570/590 offers a choice of either a 14- or 24-order sorter. The top-mounting of the 7- and 14-order sorters eliminates the need for additional footprint space.

7-order sorter   14-order sorter   24-order sorter

12-inch double paper magazine

The two built-in paper magazines can now handle sizes of up to 12 inches. Although the 12-inch paper magazine is wider than the previous model's 10-inch magazine, it's nonetheless 10% lighter in weight. It also incorporates a newly developed mechanism to minimize paper loss when changing magazines.