**Fujifilm Digital Minilab Frontier 355/375 Main Specifications**

### Input unit

**SCANNER & IMAGE PROCESSOR**
Frontier 355 / Frontier 375 (SP-3000)

- **Type:** Floor-type, independent scanner.
- **Film carriers:** 135 (IX240 automatic film carrier (standard); 135RF/135H (optional); Color/Black-white negative, color/black-white reversal; piece and strip film. (IX240: Color/black negative, color reversal; cartridge and strip film.)
- **Multi-film carrier:** MF61GAY (optional)
- **Advanced Photo System (IX240):** 135, Advanced Photo System (IX240), 135F, 135P, 120/220 (6 x 4.5, 6 x 6, 6 x 7.6, 6 x 8.5, 125 half).

**LASER PRINTER/PROCESSOR**
Frontier 355 (LP1500SC) / Frontier 375 (LP2000SC)

- **Type:** Floor-type, normal-light operation (laser printer, processor, cutter, sorter in one unit).
- **Power requirements:** AC100-240V (50/60Hz), 1.0KVA (550kg during actual operation).
- **Input light source:** LED
- **Display:** 17-inch CRT or LCD color display
- **Input light source:** LED
- **Power requirements:** 1.0KVA (550kg during actual operation).

**Output unit**

**LASER PRINTER/PAPER PROCESSOR**
Frontier 355 (LP1500SC) / Frontier 375 (LP2000SC)

- **Type:** Floor-type, independent scanner.
- **Exposure system:** Scanning exposure system using RGB lasers (solid-state G and B lasers).
- **Paper magazines:** Two switchable paper magazines (standard accessory).
- **Paper:** FUJICOLOR paper (silver-halide)
- **Paper sizes:** 8.5, 10.2, 11.7, 12.2, 15.2, 20.3, 25.4 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.
- **Film carriers:** • 135/IX240 automatic film carrier (standard);
- **Cartridge film:** Advanced Photo System (IX240): Color/sepia negative, color reversal; cartridge and strip film.
- **Input unit**
- **Display:** 17-inch CRT or LCD color display
- **Display:** 17-inch CRT or LCD color display
- **Input light source:** LED
- **Power requirements:** 1.0KVA (550kg during actual operation).

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**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:**
- 1.0KVA (550kg during actual operation).

**Dimensions:**
- Frontier 355: 890 (W) x 770 (D) x 1,208 (H) mm
- Frontier 375: 850 (W) x 770 (D) x 1,208 (H) mm

**Weight:**
- Frontier 355: Approx. 1,300 prints/hr. (using 89 mm width paper)
- Frontier 375: Approx. 1,050 prints/hr. (using 89 mm width paper)

**Installation space: Approx. 1.40 m²**

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**Processing chemicals:**
- Chemical system CP-48S.

**Print sizes:**
- 82.5 x 117 mm ~ 254 x 381 mm.

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**Printable films:**
- Advanced Photo System (IX240)
- Advanced Photo System: cartridge and piece (standard);
- Color positive film: 135 strips, piece and mounting (optional);
- Media Prints:
- 135F/P/Hv/135H (optional); Color/black-white negative, color/black-white reversal; piece and strip film.
- Advanced Photo System: cartridge and piece (standard);
- Color positive film: 135 strips, piece and mounting (optional);
- Media Prints:
- 135F/P/Hv/135H (optional); Color/black-white negative, color/black-white reversal; piece and strip film.

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**Print sizes:**
- 82.5 x 117 mm ~ 254 x 381 mm.

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**Specifications:**
- All brand names or trademarks are property of their respective owners.
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A high-capacity minilab for the digital world – now easier than ever to use.

The world of digital imaging is here, and today’s customers are more demanding than ever before. Keeping them happy is something that the Frontier 355/375 minilab was designed to do. Whether your customers order prints from digital cameras, digital media or regular film, the Frontier delivers the same extraordinarily high image quality that Fujifilm has built its reputation on. And the Frontier’s proprietary image-enhancement software creates optimal prints from any input source, maintaining quality with sophisticated features like infrared-scan-based scratch and dust elimination. Even better: it’s all so simple to use – the new graphical interface helps you – and your customers – get the most out of your Frontier.

High capacity, high speed
Despite their compact size, the Frontier 375 and 355 both deliver impressive overall speed and high processing capacity.

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<td>Frontier 355</td>
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Advanced Digital Technology
- Remarkable print quality
- Digital camera printing
- Scratch and dust elimination

Simple Operation
- Easy-to-use interface and intuitive help
- Automatic film carriers

Expandability
- Automatic red-eye compensation software
- Print services for every need

Frontier 375

Frontier 355
The technology behind the Frontier’s superior image quality

Images are rapidly converted to a high-precision digital format, using Fujifilm’s exclusive Area CCD system, which incorporates large octagonal photodiodes arranged in an efficient honeycomb pattern. Despite its small size the system delivers exceptional performance – with ultra-high resolution (up to an effective equivalent of 24 mega-pixels), excellent S/N ratio, and high scanning speed. The new special LED provides a consistently high-quality light source, lasts longer and consumes less power.

Prior to the printing stage, image data is processed by an extensive array of image-enhancement software that optimizes final print quality while compensating for problematic photographic conditions – correcting poor lighting and enhancing skin tones for more natural-looking digital prints. This proprietary technology is known as "Image Intelligence", and it’s the result of Fujifilm’s long years of experience in the digital image-processing field.

Auto Setup

• Density/hue correction with enhanced facial expressions and scene identification
• White balance adjustment/compensation to photos for a high-precision look

Like the film, all digital camera data is processed with an array of specially developed digital image-enhancement software. "Auto setup" technology optimizes print quality to produce beautiful final prints.
The Frontier 355/375 introduces a new, significantly improved operations system that’s easier than ever to use. Procedural steps and optional choices are all clearly laid out on screen, and context-specific help is provided for each screen and for each step of every operation. Run-time messages are precise and informative, pointing out any out-of-the-ordinary situations. The system is clear and straightforward enough that even inexperienced staff can get the most out of the Frontier, without special training.

A perfectly simple icon-based user interface makes operations remarkably easy.

Flexible-use film carrier
Film loading is easier thanks to a Dual-format Interchangeable Film Carrier that accommodates both Advanced Photo System film and 135 film, allowing automatic “one-pass” processing.

Double paper magazines
The two built-in paper magazines can be loaded with paper of different sizes (anywhere from 8.9 to 25.4cm in width) to make it easy to switch back and forth between sizes, and to allow easier auto selection. Automatic loading eliminates paper replacement errors and minimizes paper loss during printing.

Efficient, time-saving print sorting system
Both the Frontier 355 and 375 models utilize an automatic sorting system to help achieve their remarkably high-capacity output. The 375 includes a 25-order sorter, while the 355 has an 11-order sorter (upgradable to 25-order). Each unit sorts and stacks prints by order for easy filing and delivery. Prints larger than 152mm are fed to a stocker for separate handling.

Perfect one-channel print system
This system automatically detects the size and type of film, controlling all processing while eliminating the need for time-consuming manual adjustment of scanning-unit settings by the operator. Different film types (negatives, monochrome film, reversal film, and even digital camera prints) are all handled together, so there’s no need to separate different kinds of film.

Auto calibration
The Automatic Calibrator (AD200), located on top of the Frontier, simplifies daily maintenance by automatically adjusting color and tone reproduction to a specified standard, for print quality that’s consistent from one day to the next.
As digital technologies evolve and grow, the Frontier 355/375 allows you to adapt your business to growing consumer demands. The Frontier handles a full range of digital camera storage media and other digital media, using various image-data formats. And output options are just as varied, with special print formats such as calendars and decorative album prints.

### Input

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<th>Digital Media</th>
<th>Prints</th>
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### Optional software

- Variety Print Service Software (Standard)
- Variety Print Service Software (Template)
- Professional Scanning Software
- Hyper Retouch Software for Digital Images
- ID Photo Print Service Software
- DI File Import/Export Service Software

### Output

#### High-Quality Print Service

- Digital camera prints
- Digital media prints
- Advanced Photo System index prints (IG240)

#### Variety Print Service

- 10 x 15" prints
- 135 index prints
- Print to Print
- Monochrome prints

#### ID Photo Print Service

- Prints with text
- Greeting Card Prints
- Calendar Prints
- Album Prints
- Frame Prints
- Mixed ID

#### Data Writing Service

- CD-R, FUJICOLOR CD
- Index prints
- Floppy disk, MO disk, ZIP disk
High-quality Prints

Services to optimize the print quality of your customers’ photos

**Automatic scratch and dust elimination**

Imperfections caused by scratches and dust on the original negative are especially noticeable in extra-large-size reprints, but the Frontier 355/375 cleans up these flaws using an exclusive correction technology. First, the film is exposed to infrared light during the scanning step - infrared rays pass straight through the color dyes on the film (which form the image), but are deflected by scratches and dust particles. Once blemishes are detected in this way, the resulting streaks or spots are corrected using extrapolated image data from surrounding areas of the film. The result is a natural-looking final image. Scratch and dust elimination can be applied automatically to all frames during the initial print processing run.

**Standard image-correction features**

Sophisticated image-correction technology is built into the Frontier 355/375 system as a standard.

- **Backlight correction**
  Independent image density adjustment is performed on overly bright background areas and overly dark foreground figures, automatically adjusting their relative brightness within the photo.

- **Sharpness adjustment**
  Fujifilm’s proprietary HyperSharpness process enhances the edge definition of objects, colors and shadows while compensating for film grain, to produce photos that are crisper and clearer.

- **High-contrast correction**
  In flash shots against a dark background and in shots using too bright a flash, the foreground figures can appear too light and washed out while the background is dark and murky. High-contrast correction adjusts the relative brightness of foreground figures and background.

- **Over-/under-exposure compensation**
  When an underexposed or an overexposed negative is detected, the density and contrast of the image can be adjusted automatically to bring the image closer to its proper exposure level.

**Automatic red-eye compensation feature**

The distracting appearance of red pupils due to a bright flash can be corrected easily with this function. Operator-selected frames displayed on the monitor can automatically have red-eye appearance detected and corrected. Operations can be performed on the first pass, reducing the need for manual selection or adjustment steps by the operator. For more flexibility, manual retouching is also possible.

**Further image-enhancement features**

Optional image-enhancement features are available for various special purposes.

- **Soft-focus**
  The soft-focus function softens the overall tone of a photographic image. It can be an effective method for creating elegant portrait shots.

- **Cross-filter**
  The cross-filter function places a 45-degree cross of light on any point in a photo, to add a subtly dramatic effect. Making light crosses brighter increases the area they cover, and crosses can be placed and removed manually. This feature can be combined with soft-focus to create a particularly artistic visual effect.

- **Free cropping**
  This feature allows you to perform custom cropping, taking any section of the original photo and rotating and magnifying it until it fills the entire frame.

- **Lens distortion correction**
  Certain types of lenses can cause some degree of image distortion around the edges, or they may allow insufficient peripheral light. The Frontier’s image processor detects these problematic conditions and compensates automatically, by brightening the darker corner areas and correcting distortion around the photo’s edges.
Variety Print Service

Extend your services with special print formats, available for both conventional film and digital cameras

Prints with Text
Custom text turns any photo into a commemorative document. The operator can select from a number of text box designs and adjust the text box position. A choice of fonts and colors is available, and vertical text and multiple lines are supported.

Calendar Prints
Turn any photographic image into an attractive calendar, covering one month, two months, six months or twelve months. Customers can choose from among numerous different styles and sizes.

Greeting Card Prints
Custom greeting cards can be made from a single shot, and customers can select the artwork that goes with each shot.

Frame Prints
This template takes a single image and places it within an attractive ornamental frame. Various frame designs are available to choose from.

Album Prints
Multiple shots of the same size can be arranged on a single large sheet (8” x 10” or A4-size) to create an album-like effect. Different configurations are available, with either three or ten frames per album print, and frames may be freely chosen from more than one roll of film (or even from digital media). Various background designs are available, or a plain background may be specified.

Large Index Prints*
Larger than standard-size index prints of the frames on one roll of film can be printed on a large sheet (8” x 10” or A4-size), with frame numbers printed under each frame.

Other attractive variations
- Package Prints
- Auto-rotate frame prints*
- File prints
- Dark frame prints
- ID photos
- CPH-rotate frame prints*
- ID photos

Optional
- Variety Print Service Software (Template Vol.1 & Vol.2)
- Variety Print (for Digital Image) Service Software (Template Vol.1 & Vol.2)

ID Photo Print Service
This software produces high-quality ID photos using either conventional film or digital camera data as the input source. The software incorporates automatic sizing and trimming functions so that the size of the face within the final ID photo meets preset specifications, regardless of the face size in the original photo. Several different sizes of ID photo, or photos from several different individuals, can be laid out on a single print, for more cost-efficient use of color paper. And for more convenient reordering, the original images and processed ID photos can be stored on digital media for later use.

Automatic Sizing
- Face is too small
- Face is oversized
- Face is automatically centered
- Face position and size are automatically adjusted to preset specifications

Professional Photography Service
Professional Scanning Service
An optional software package gives you access to several features suitable for professional use – including gradation adjustment, color saturation adjustment, and Base-Color Reproduction Mode.
Digital Camera photo images stored in various different file formats can be processed by the Frontier to create beautiful prints. The image data can be input directly from the digital camera media. The software automatically optimizes print quality – correcting density, color saturation and gradation – and also allows manual correction, to create natural-looking prints to match a wide range of customer needs.

**Digital Camera Prints**

**DI Print Service**

Complete services to answer your customers’ digital-imaging requests

**Media Print Service**

Digital images created or manipulated by image-processing software such as Adobe® Photoshop® can be used to create prints. Various file formats and storage media are supported.

**Print-to-Print Service**

Old photos, instant photos or other visual materials may be scanned in from an external scanner, either directly to the main unit or through an optional image controller. These images can then be used to create brand-new prints in various sizes and formats.

**DI Data Writing Services**

Digital imaging print services

Digital Camera media

- SmartMedia
- xD Picture Card
- SD Card
- CompactFlash
- Memory Stick
- CompactFlash
- PC card
- ZIP disk
- Floppy disk
- Digital media prints

High-resolution image data from film scanned by the Frontier, or from digital media, can be transferred onto FUJICOLOR CD, regular CD-R, or other digital media (such as Zip disk or MO disk) for storage and later use.

**Optional accessories and production materials**

- Negative Receiver
- Diffusion Box for 120
- Viewer
- Pricing unit PU800B
- LCD Monitor

This service makes it easy to retouch an image, correcting scratch marks and dirt and even eliminating overhead wires and date stamps.

**Hyper Retouch Service**

**DI File Import/Export Service**

This software lets you take advantage of your existing local area network, giving Windows or Macintosh computers on the network easy access to the Frontier. With the Hot Folder print function, users simply copy an image file into a shared spool folder. This folder is checked at regular intervals, and any new files are printed on the Frontier. The Job File print function works in a similar way, but allows more detailed job specifications to be set.

**Hyper Simple Print Service**

- DI Simple Print Service Software
- DI File Import/Export Service Software
- DI File Import Service
- DI File Export Service

DI Data Writing Services

- Optional accessories and production materials

Save print image and correction data, to ensure that reprints are identical to original prints in quality and color reproduction.

**Hyper Re-order Service**

- Optional software

Easily adjust color intensity and image contrast (gradation) directly from the Frontier’s main controller unit. Tone selection for monochrome photos is also possible.

**Tone Selection Service**

- Optional software

**DI Simple Print Service**

Standing Operation Base

- Designed to fit beneath the scanning unit for convenient standing operation.

**Optional accessories and production materials**

- Optional accessories and production materials

**DI File Import/Export Service**

- Optional accessories and production materials
Fujifilm Digital Minilab Frontier 355/375 Main Specifications

**Input unit**

**SCANNER & IMAGE PROCESSOR**
Frontier 355 / Frontier 375 (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/Pr/Hv/135H (optional); Color/black-white negative, color/black-white 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.

**Output unit**

**LASER PRINTER/PAPER PROCESSOR**
Frontier 355 (LP1500SC) / Frontier 375 (LP2000SC)

- **Type:** Floor-type, normal-light operation (laser printer, processor, cutter, sorter in one unit).
- **Exposure system:** Scanning exposure system using RGB lasers (solid-state G and B lasers).
- **Paper magazines:** Two switchable paper magazines (standard accessory).
- **Paper:** FUJICOLOR paper (silver-halide).
- **Paper sizes:** 8.9, 10.2, 11.7, 12.7, 15.2, 20.3, 25.4 cm.
- **Paper widths:** 8.9, 10.2, 11.7, 12.7, 15.2, 20.3, 25.4 cm.
- **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:** SU1100Y; sorting capacity: 11 orders of C/H/P-mixed-format prints. (25-order sorter is also available for the Frontier 375)
- **Printer condition setup:** Semi-automatic calibration by AD200 calibrator.
- **Processor carriage:** Multi-line, sheet carriage.
- **Processing time:** Dry to dry: 4 min.
- **Power requirements:** AC200-240V (50/60Hz) Single-phase 24A, Three-phase four-wire, 17A approx. 4.8KVA.
- **Dimensions:** 355 (with 11-order sorter): 830 (W) x 1,708 (D) x 1,850 (H) mm.
- **Weight:** Approx. 118kg (with NC 100AY and 17-inch CRT display).
- **Installation space:** Approx. 1.40 m².

**Printable films:**
- Using standard or optional film carriers
  - Color negative film: Advanced Photo System/135 (color negative and sepia) film (using 152 mm width paper)
  - Color/black-white reversal; piece and strip film.

**Output unit**

**Printers:**
- **Frontier 355:** 4R/ 102 x 152 mm: Approx. 1,450 prints/hr.
- **Frontier 375:** 4R/ 102 x 152 mm: Approx. 2,073 prints/hr.
- **Frontier 375:** 89 x 127 mm: Approx. 1,600 prints/hr.
- **Frontier 375:** 89 x 127 mm: Approx. 1,920 prints/hr.

**Specifications:**
- **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
- **Input light source:** LED
- **Power requirements:** AC100-240V (50/60Hz), 1.0KVA
- **Dimensions:** 890 (W) x 770 (D) x 1,208 (H) mm
- **Weight:** Approx. 118kg (with NC 100AY and 17-inch CRT display).
- **Installation space:** Approx. 0.66 m²

**UL / CE**

The Frontier 355/375 has received the UL/CUL/CE Marks for meeting high safety standards.

Specifications are subject to change without notice.

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*When two GPA23 Boards are installed. **Performance varies depending on processing capabilities of the Imaging Controller.

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**Dimensions**

- **Unit:** mm
- **Frontier 375:** 89 x 127 mm
- **Frontier 355:** 102 x 152 mm
- **Frontier 355:** 89 x 127 mm
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- **Frontier 355:** 102 x 152 mm
- **Frontier 355:** 89 x 127 mm
- **Frontier 355:** 102 x 152 mm
- **Frontier 355:** 89 x 127 mm

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