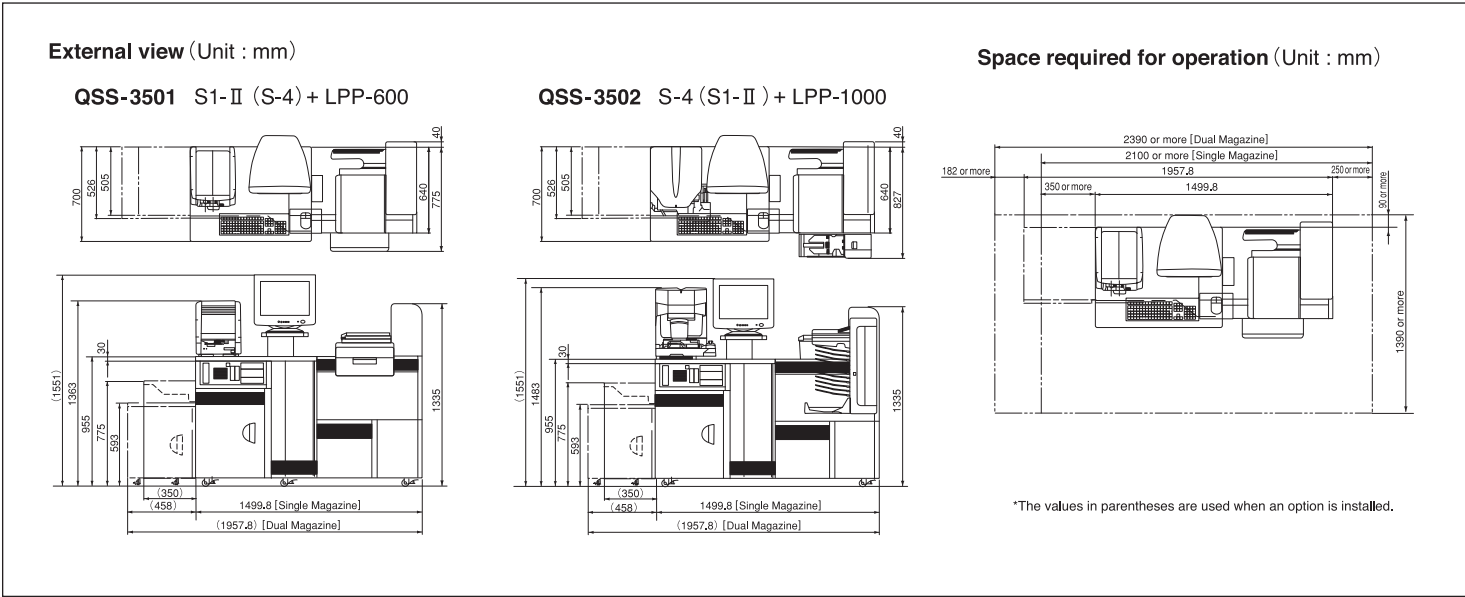


		QSS-3501	QSS-3502
Film types	S-4	Color negative and positive (including mounted) , B&W negative (Chromogenic B&W) , Sepia negative	←
	S1-II	Color negative and positive, B&W negative (Chromogenic B&W) , Sepia negative	←
Film size	S-4	110, 135F, 135H, 135P, 135FP, 135FPS, IX240, 6x4.5, 6x6, 6x7, 6x8, 6x9	←
	S1-II	135F, 135H, 135P, 135FP, 135FPS, IX240	←
Compatible input media	Standard	FD, CD-ROM, CD-R, CD-RW, DVD-ROM, DVD±R/RW	←
	Optional	CompactFlash, Microdrive, SmartMedia, PC Card, SD Card, MMC, Mini SD Card, Memory Stick, Memory Stick Pro, Memory Stick Duo, Memory Stick Pro Duo, xD-Picture Card, USB Flash Memory, MO, ZIP, DVD-ROM, DVD-RAM, DVD±R/RW	←
Compatible output media	Standard	FD	←
	Optional	CD-R, CD-RW, CompactFlash, Microdrive, SmartMedia, PC Card, SD Card, MMC, Mini SD Card, Memory Stick, Memory Stick Pro, Memory Stick Duo, Memory Stick Pro Duo, xD-Picture Card, USB Flash Memory, MO, ZIP, DVD-RAM, DVD-R	←
Exposure system		Laser scanning exposure by paper movement Laser class : Class1 (EN60825-1)	←
Print resolution		300dpi	←
Exposure speed		58.42mm / sec.	←
Print sizes	Paper width	82.5, 89, 102, 114, 117, 120, 127, 130, 152, 165, 178, 203, 210 (mm)	←
	Paper advance length	82.5 to 610mm	←
Display monitor		17 inch CRT monitor (Option) , 15 inch LCD monitor (Option)	←
Transport system		Roller tranport	←
Processing speed		1638mm / min	←
Paper supply		Single magazine system / Dual magazine system (Factory Option)	←
Peper specifications		Maximum diameter of paper roll : 250mm	←
Water refilling		Automatic water refilling	←
Automatic cleaning		Automatic cleaning of turn racks	←
Order classification		Standard: Up to 3 orders / Option: Can choose either 12 or 10 orders	Can choose either 12 or 10 orders
Dimensions		See "External View" below	←
Power capacity		200~415V   3.6~4.0KVA	←
Weight	Scanner	Approx. 22.0kg (S-4) / Approx. 17.5kg (S1-II )	←
	Printer-Processor	Approx. 348.2kg / Approx. 362.7kg (SM)	Approx. 358.7kg / Approx. 373.2kg
Estimated processing capacity ( prints / hr )			
135 negative film (24 exp.)	W 89 x 127mm	Approx. 600	Approx.1090
	W102 x 152mm	Approx. 580	Approx.1010
	W203 x 254mm	Approx. 170	Approx. 360
IX240 negative film (25 exp.)	89mm paper width	Approx. 470	Approx. 990 (S-4) / Approx. 690 (S1-II )
Digital camera *1	W 89 x 127mm	Approx. 600	Approx. 1090
	W102 x 152mm	Approx. 580	Approx.1010
	W203 x 254mm	Approx. 170	Approx. 360

\*1 : 256MB SD Card, 2592 x 1944 pixels per image. JPEG image size: 1814KB to 2221KB  
The W 203 x 254 mm capacity does not include index prints. All other capacities include index prints. Calculated according to our criteria. The actual capacity you achieve may be different.



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The specifications, information, and the appearance of the machines in this brochure are subject to change without notice.



Our products have been manufactured under an ISO 9001-certified quality assurance system.

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NORITSU

Compact and versatile

QSS-35 SERIES  
QSS-3501/3502





# AccuSmart™



To ensure prints with optimal quality, Noritsu's image processing technology is applied in every step of the printing process, from input to output.

AccuSmart™ is image processing technology developed by Noritsu Koki, which enables you to easily portray the natural beauty of the scene as viewed by the photographer when the picture is taken. AccuSmart™ produces optimal results by getting the most out of the paper, faithfully portraying natural-looking scenes, and enabling fine adjustments as desired by the customers. From input to output AccuSmart™ technology works behind the scenes to ensure high quality prints with a natural beauty.

## Input Automatic image detection/correction for enhanced efficiency

High resolution scanning along with automatic image analysis and correction to ensure that the best possible images are obtained with quick and easy operations.

### Automatic correction of dust/scratches on the base layer of film DIGITAL ICE™

DIGITAL ICE automatically discovers and corrects dust and scratches on the base layer of film, optimizing and restoring each image into beautiful, blemish-free prints. This convenient feature greatly increases efficiency.



- There are some instances when DIGITAL ICE cannot make a satisfactory correction, if the extent of the dust or scratches is too great.
- DIGITAL ICE is automatically disabled when scanning Black & White film.
- DIGITAL ICE correction may not be sufficiently effective when scanning certain types of film.

#### [Other correction functions]

- Auto sharpness correction
- Chroma correction
- Auto contrast correction
- Graininess suppression etc.



Original Image



DIGITAL ICE



Digital Masking

### Automatic correction of dust/scratches on the emulsion layer of film Digital Masking OPTION

This software developed by Noritsu Koki automatically corrects dust and scratches on the emulsion layer of film, where DIGITAL ICE is unable to correct. This comes in very handy when even small dust and scratches have a tendency to stand out, such as is the case when making enlargements from positive film.

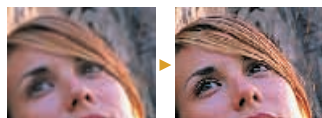
## Correction Digital technology applied to optimize image correction

An array of digital correction technologies is put to work to apply optimal corrections to scanned film data and digital camera data.

### Standard software for correcting different scenes. Image Optimization

#### [JPEG block noise correction]

There are three levels of correction to choose from. JPEG block, which occurs when images are compressed, is corrected resulting in a smooth image with minimal noise and artifacts.



#### [Lens aberration correction]

It is possible to set the correction values for "Insufficient brightness at the edge of the image field", "Chromatic aberration", and "Deflection (Distortion)"



#### [Red eye correction] OPTION

When taking pictures of people using a flash, the pupils of the eyes often appear to be red. This correction function automatically detects such "red eye" images so they can be corrected with automatic or manual operations.

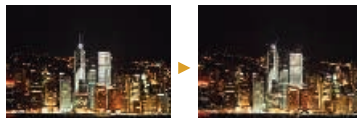


Other standard correction functions include color correction, correction of backlit scenes, sepia/B&W conversion, correction of graininess in underexposed scenes, and underexposure/overexposure correction.

### A wide variety of special correction services Special correction software OPTION

#### [Cross filter software]

Cross marks are placed in areas of shining or reflecting light, adding a nice accent to the picture.



#### [Soft filter software]

There are two types of soft filters. Foggy : Makes images that look like they were taken in the fog. Duto : Produces a mild soft effect.



#### [Tone curve correction software]

You can use the tone curve to make precise tone adjustment for each color channel (R, G, B) individually.



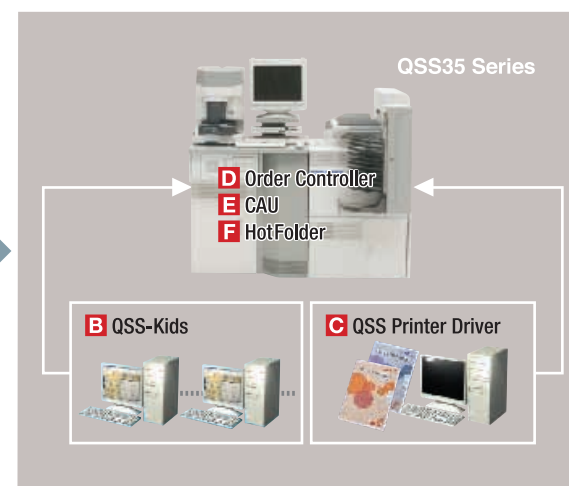
Other optional correction software includes spot correction software, scene correction software, and lens aberration correction software (PRO).



# Practical System

System equipment and software that provide solid support for your business

## [INPUT]



## [OUTPUT]



### A Reduces hassle - Increases sales CT Series OPTION

The CT-series displays the images on the media, so all the customers have to do is select the images they want to print and the quantity. The customers enter the order information themselves, saving time and eliminating hassle for the lab employees. A wide variety of additional value features are also available so you can provide new print services.



CT-2MD

### B Improves efficiency by performing front-end tasks offline QSS-Kids OPTION

QSS-Kids is software that enables QSS digital minilabs to connect to external computers and form a network. This helps you achieve a huge increase in efficiency because you can use external PCs instead of the QSS-35 series to perform time-consuming tasks such as digital order processing, image editing, digital media inputs, and CD-R writing.



### C Application file printing QSS Printer Driver OPTION

It is possible to make a network with your fully digital QSS, connecting a single computer or multiple computers by a LAN connection and installing QSS Printer Driver in the networked computers. This enables you to use the QSS to make silver halide prints of application software (Photoshop/PowerPoint/etc.) files in the networked computers.

### E Input data storage CAU (Internal Type)

Image data from scanned film and media is saved to the CAU, which is installed inside the QSS-35 series. The CAU comes in two types - Type 1 (images saved in QSS data) and Type 2 (images saved in JPEG). Please choose the type that suits your needs.

### F Easy printing from networked computers HotFolder OPTION

Software that is installed in the QSS system computer to enhance the digital workflow. The HotFolder enables you to make prints easily; all you have to do is save the images and script commands into a shared folder.

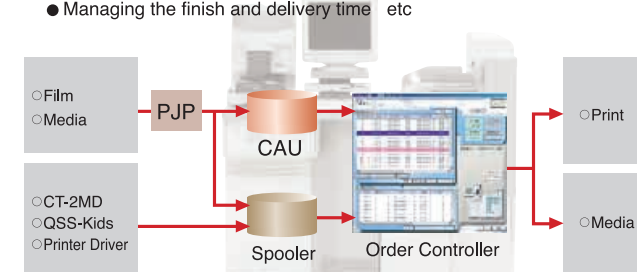
※ Application software must be created by the customer.

### D Print order management for enhanced efficiency Order Controller

The Order Controller enables you to interrupt an order in process to give preference to a separate order and print it right away. It also helps to improve efficiency by controlling queued print orders and performing multitasking, enabling you to print while judging a separate order.

#### [Order Controller features]

- Order management
- Concurrent processing in the background
- Order priority management
- Interrupting orders to print rush orders
- Automatic input of CT orders
- Reprinting completed orders
- Interrupting and resuming printing
- Managing the finish and delivery time etc





# Flexible Lineup

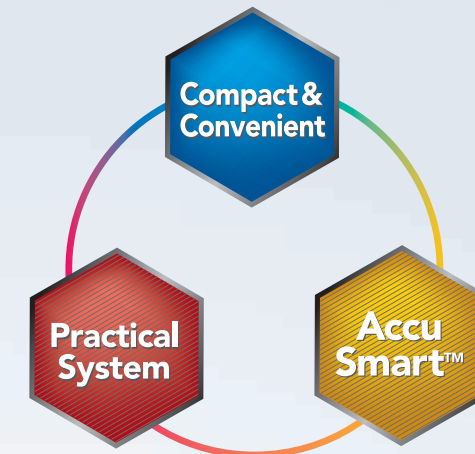
## A new line of minilabs that support your individual needs

With the diversification of consumer demands, every minilab shop now seems to have its own unique business style.

Some shops offer only a digital camera print service and some handle both film and digital media.

With a wealth of state-of-the-art image processing technology incorporated into a compact frame, the QSS-35 series proves to be a flexible line of products that provide an excellent solution for the photofinishing business.

With a selection of film scanners and monitors, and with a wide variety of options to choose from, the highly practical QSS-35 series gives you the freedom to mix and match components to configure a system that meets your exact needs.



### [3 defining features of the QSS-35 series]

**Compact & Convenient** ..... The small body enables you to install it even in the tightest spots.

**AccuSmart™** ..... High quality prints with Noritsu's image optimization technology and automatic correction.

**Practical System** ..... A practical system that meets the needs of today's photo shops.

※ AccuSmart™ refers to Noritsu's digital correction and image processing technology.

**QSS-3501** Approx **600** prints/hr  
(W 89×127mm)

**QSS-3502** Approx **1,090** prints/hr  
(W 89×127mm)

\*Capacity from 135 negative film (24 exp.) and digital media (2.5 megapixels)

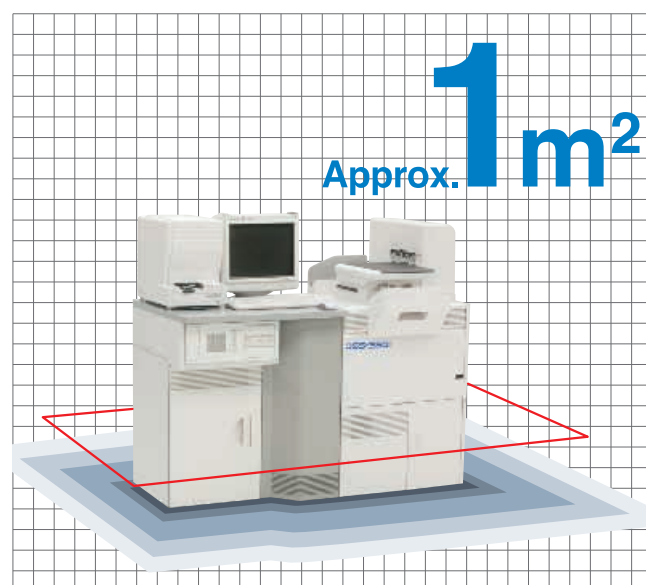
# Compact & Convenient

## Small body with a flexible layout

The flexible QSS-3501/3502 gives you a wide variety of layout possibilities and options to choose from, so you can customize this compact and convenient system to effectively meet your needs.

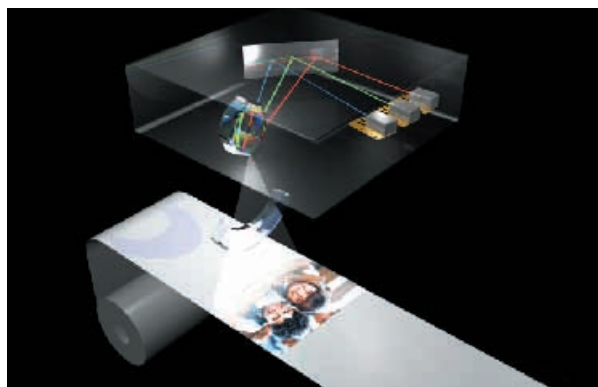
### Advantage 1 Easy installation

With the QSS-35 series you get Noritsu's renowned high quality print technology in a compact footprint of just 1 square meter. This compact size is ideal for labs with limited space, and for those that want to use their remaining space effectively by installing a second minilab.



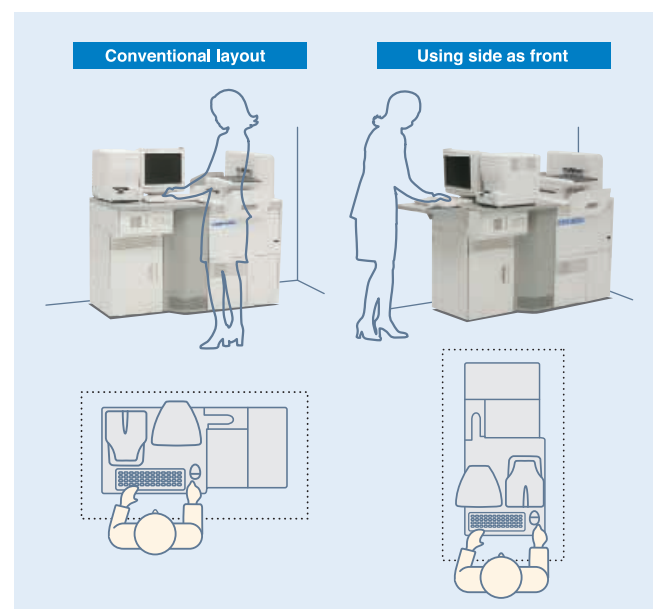
### Advantage 3 High quality laser engine

Noritsu's high quality 300dpi laser engine enables even minute details to be portrayed accurately and vividly. The excellent print speed helps you to provide an attractive service that combines speed and quality.



### Advantage 2 Flexible layout

You can choose which side to operate the machine from, giving you more freedom to use the system in a way that best fits your available floor space.

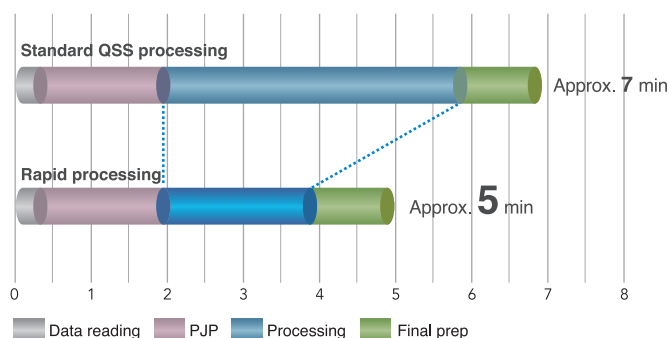


### Advantage 4 Rapid processing (Must specify rapid processing system when purchasing)

#### Reduced processing time enhances print efficiency

If you use a rapid processing system you will realize a reduced dry-to-dry processing time, enabling a one stop print service where the customers can place their order and pick up their prints in the same visit.

※Only possible using specific paper/chemicals.



### Advantage 5 Choice of components

#### Can choose the scanner that meets your processing needs

Each shop has different types of customers, different business styles, and different input needs. The QSS-35 series gives you a selection of scanners so you can choose the one that is just right for you.

- S1-II** ..... Recommended for shops that handle mainly digital orders. (Film formats: 135 / 1X240 only. No carrier required.)
- S-4** ..... Recommended for shops that scan a wide variety of film. (Film carriers required for desired types of film.)



S1-II



S-4

#### Can choose the monitor type that meets your needs

The QSS-35 series also gives you a selection of monitor types that meet your needs.

- CRT** ..... Faithful color portrayal.
- LCD** ..... Sleek space-saving design. Vivid color portrayal.



CRT



LCD

### Advantage 6 Can turn your QSS-35 minilab into a one pass system

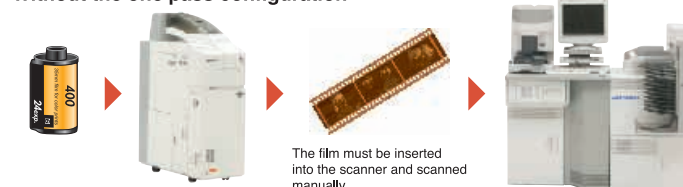
#### Film development and scanning in a single pass (135 film only)

The film processor (QSF-T15) and scanner (S1-II) can be combined into a single unit enabling the film to be automatically inserted into the scanner as it comes out of the processor. This all-in-one configuration automates the entire process from 135 film development to printing, enabling the operator to simply insert the film into the processor and then walk away and attend to other duties.

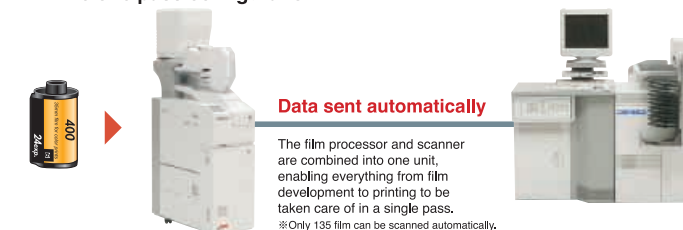


QSF-T15+S1-II

#### Without the one pass configuration



#### With the one pass configuration



### Advantage 7 An array of possibilities for input and output. Unique services with a wide range of print sizes.

#### One machine takes care of all your input/output needs

Just like other QSS minilabs, the QSS-35 series supports input and output from multiple analog and digital sources, including input from digital camera media and film, output of value-added prints in various sizes, and output to DVD and other kinds of digital media.



#### [Services that can be provided]

- Long length prints up to 8" x 24"
- Tiling prints
- Template prints
- DVD writing

etc



Tiling

### Advantage 8 Easy operation

The QSS-35 series features a new "Easy Operation GUI", which is easy for operators with limited experience. There are also many other convenient features, such as automatic daily setup using the program timer.

Standard GUI ▶



◀ Easy Operation GUI