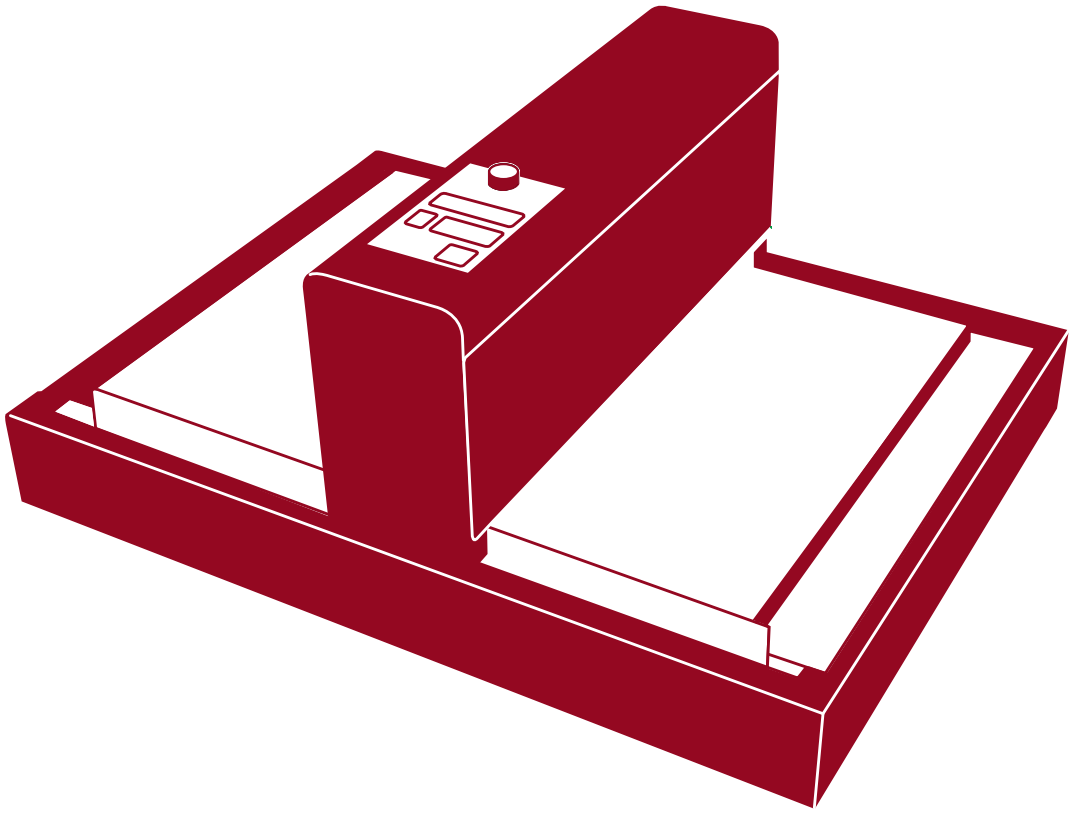
GOCCOPRO QS200

User's Guide



116-36003

Digital Screen Maker
Model: GOCCOPRO QS200

The user is cautioned that unauthorized changes or modifications not approved could avoid the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAN ICES-3 (A)/NMB-3(A)

Warning
This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

MASCHINLÄRMINFORMATION
Maschinlärminformation-Verordnung 3. GPSGV:
Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN ISO 7779.

Hinweis:
Das Gerät ist nicht für die Benutzung am Bildschirmarbeitsplatz gemäss Bildscharb V vorgesehen.

Welcome

Thank you for purchasing this machine.
This is an easy-to-operate screen master machine that can make screen masters.

This User's Guide describes the basic operation of the machine, precautions for use, how to handle and replace the consumables and troubleshooting.

Read this User's Guide thoroughly before operating the machine. Refer to this User's Guide when there is something unclear in operating the machine as needed.

Bienvenue

Nous vous remercions d'avoir acheté cette imprimante.
Cette imprimante simple d'utilisation permet de créer des masters d'écran.

Le présent Guide de l'utilisateur décrit le fonctionnement de base de l'imprimante, les précautions d'utilisation, la manipulation et le remplacement des consommables, et le dépannage.

Lisez-le dans son intégralité avant d'utiliser l'imprimante. Au besoin, reportez-vous au Guide de l'utilisateur si le fonctionnement de l'imprimante ne vous semble pas clair.

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- Screens and contents described in the main text may slightly differ from the actual product.
- The screen displays and messages referred in procedures differ depending on models of PCs and applications. (Winows7 screens are used in this document.)

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Feature of This Product

This machine is a master maker exclusively for RISO DIGITAL SCREEN QS MASTER/GRAY. You can make a master directly on your screen frame.

Quick, simple & clean operation

- No need for emulsion & washouts
- No screen making experience required

Compact workspace

- No need for darkrooms & washout booths
- No need to store large number of screens

You save on time & labor

- Perfect for short-run printing
- Outsourced jobs can be profitable in-house

Column

Image Remaking Function

The data used for image-making is saved in the machine as "Image Remaking data." When you want to make an image on screen again with the same artwork data, you can remake an image on screen with <Reprint> (Image Remaking mode) on the machine immediately without resending artwork data from PC.

However, you can remake only the last image on screen because when new artwork data are received, Image-making data saved in the machine are deleted.

If you want to remake image on screen repeatedly, it is recommended that you press <ONLINE> key (Online key) to have the machine offline to prevent receiving new artwork data.

Also when the power switch is turned OFF, the image remaking data are deleted.

Expressions in the Text

The following expressions are used in this User's Guide.

Warning, Caution, and Other Indications

The following symbols are used throughout this User's Guide for warning, caution and other indications.

Expressions dans le texte

Le présent Guide de l'utilisateur emploie les expressions suivantes.

Avertissements, mises en garde et autres indications

Les symboles suivants sont utilisés tout au long du Guide de l'utilisateur pour signaler des avertissements, mises en garde et autres indications.

Important!	Indicates important points or prohibited matters. Read carefully and follow the instructions.
Note	Provides useful information when operating the machine.
Ref.	Identifies a reference page.
	P Identifie une page de la référence.

For ⚠ WARNING and ⚠ Caution, see Ref. "Warning Indications" of this User's Guide.

Pour ⚠ ATTENTION et ⚠ Mise en grade, voir la section Avertissements du présent Guide de l'utilisateur.

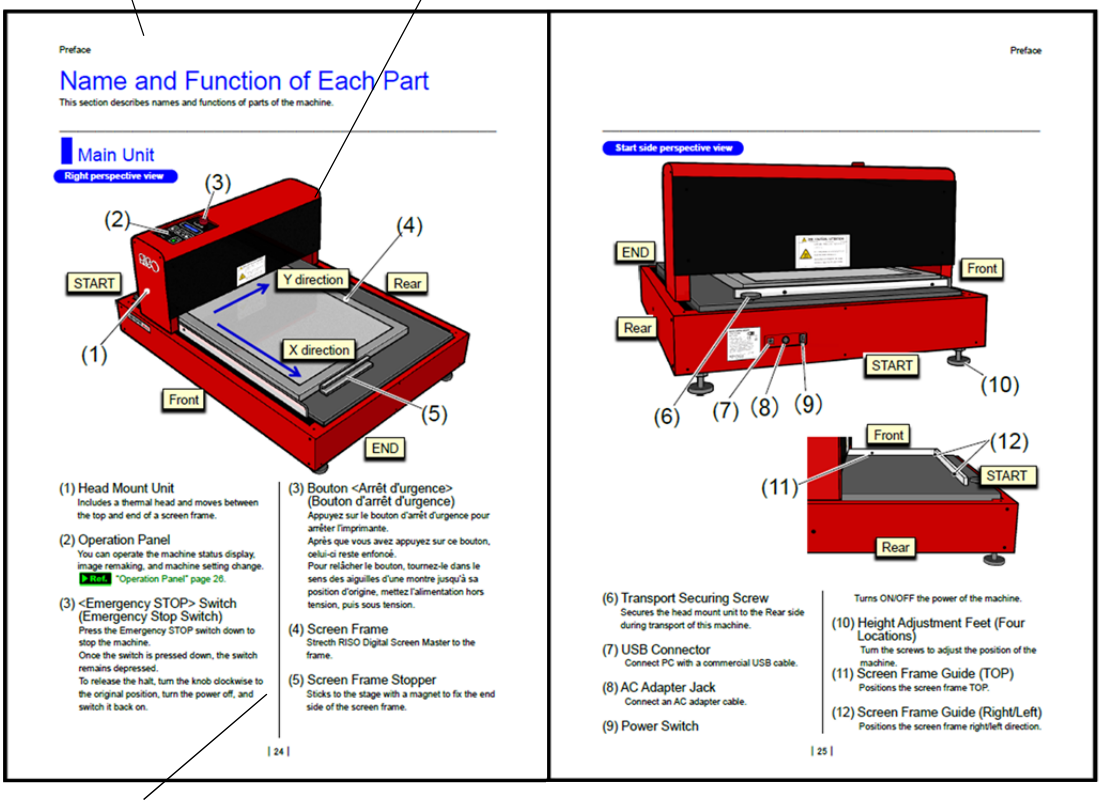
Operation Procedures and Functions

This User's Guide illustrates functions and operation procedures as follows.

Chapter title

Operation illustration

Relevant parts of the machine are illustrated, which are being described in each step. The operation panel of the machine and screens on PC are described.



Operation procedure

Step-by-step description of the operation procedure. Follow the steps to operate the machine.

Terms Used in This User's Guide

Artwork data: Image/characters data created with PC

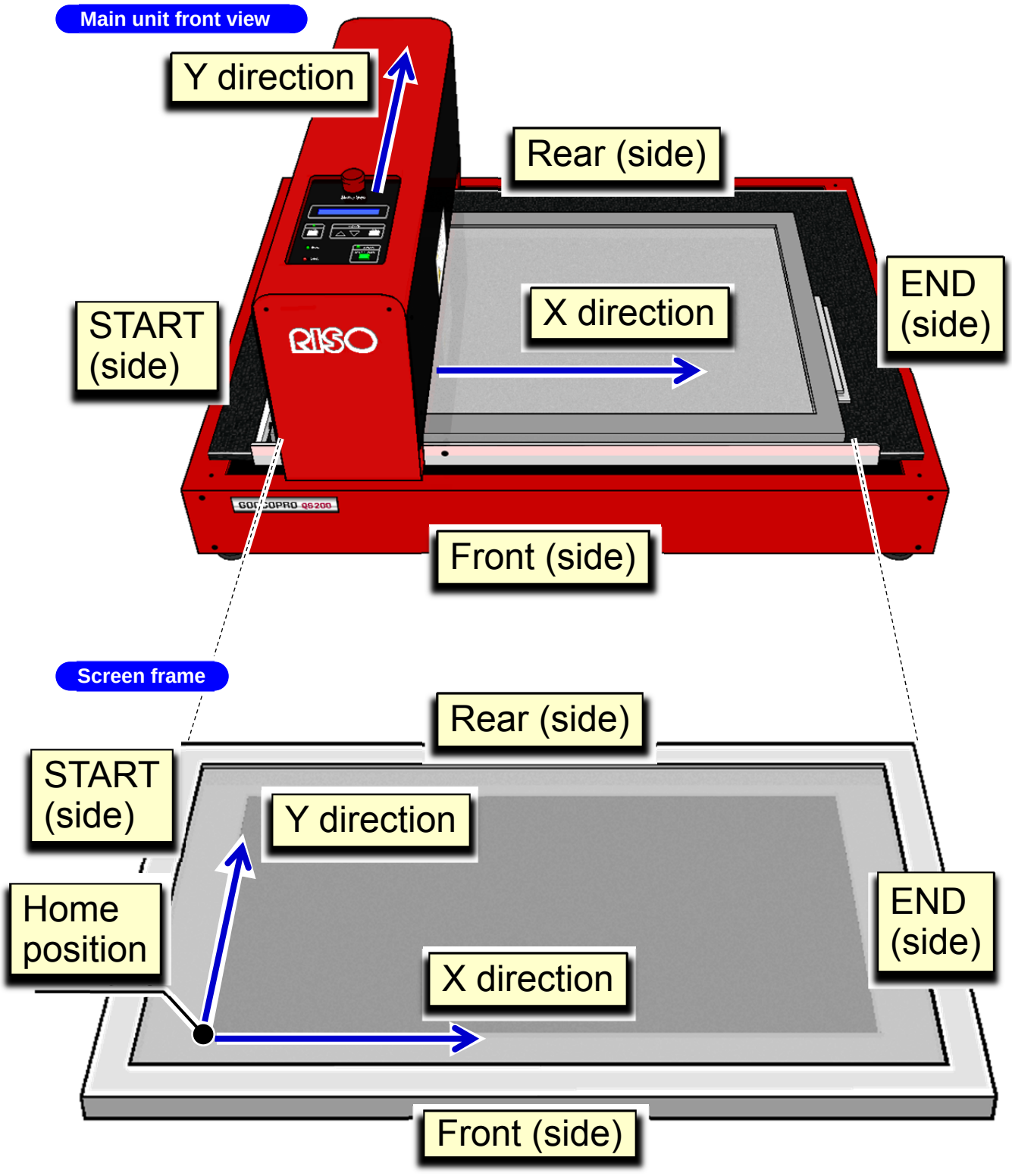
Image-making: Process of the machine to read artwork data sent from PC and perforate a screen master

Initial setting: Initial values of setting items right after the power of the machine is turned on

Horizontal scanning direction: Direction of moving from the right to the left when an image is seen squarely (Y direction)

Vertical scanning direction: Direction of moving from the TOP to the END when an image is seen squarely (X direction)

Orientations and Directions



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Preface

This section describes precautions you should know or pay attention to before you use the machine.

Safety Guide

This section describes the safety guide you need to know before operating the machine, such as installation location and power connection. Make sure to read this section.

Warning indications

The following warning indications are used to ensure correct use of this machine and to prevent injuries or property damage.
Ensure the content is understood clearly before proceeding to the main text.

⚠ WARNING

Ignoring these indications and handling the machine incorrectly may cause death or serious injury.

⚠ Caution

Ignoring these caution indications and handling the machine incorrectly may cause injury or property damage.

Installation Location

⚠ Caution

- Do not place the machine on an unstable surface, such as on an unstable stand or inclined surface. Failure to do so may result in the machine falling down or falling over, causing an injury.
- Keep the machine away from dusty or humid environments to avoid the risk of fire or electric shock.

Power Connection

⚠ WARNING

- Use only the AC adapter specified for this machine to avoid the risk of fire, electric shock or breakdown of the machine.
- Power supply to the AC adapter must be 100-240V and over (number of Amps will be inserted later) A to avoid the risk of fire, electric shock or breakdown of the machine.
- Keep the AC adapter away from sources of heat such as heating appliances. Failure to do so may result in melting of the coating on the AC adapter and may cause fire, electric shock or breakdown of the machine.
- Specifications for the power cable and extension cable depend on your power voltage. Use of incorrect cables may cause fire, electric shock or breakdown of the machine.
  - Maximum length of a power cable is 4.5 meters and extension cable 5 meters.
  - If your power source is 100-120V, use a cable suitable for 125V/8A or above, and do not extend the cable for more than 5 meters.
  - If your power source is 220-240V, use a cable suitable for 250V/5A or above, and do not extend the cable for more than 5 meters.
- Do not use the power cable tied up or coiled to avoid the cable heating up and causing a fire.
- Do not use a multiple socket adapter or extension cable, or overload the electrical circuit. If an extension cable is needed, use a cable suitable for 125V/8A or above, and do not extend the cable for more than 5 meters to avoid the risk of fire or electric shock.

- Do not damage, break or tamper with the power cable. Do not place a heavy object on the cable, pull, or forcibly bend the cable to avoid the risk of fire and electric shock.

- Do not plug or unplug the power cable with wet hands to avoid the risk of electric shock.

Caution

- When unplugging the power cable, do not pull on the cable but unplug by holding the plug.
  Failure to do so may result in fire or electric shock.

- When the machine is unused for a long period of time, for example during holidays, unplug the power cable from the power socket for safety reasons.

- Remove the power plug from the power socket at least once a year to clean the prongs and the area around the plug. Dust collected in these areas can result in fire.

Grounding

WARNING

- Use a power plug with grounding wire or a three-pin power plug (two-pole plug with grounding wire) and ensure the plug is properly grounded. When a plug with grounding wire is used, ground the plug before the power plug is inserted in the power socket. Disconnect the grounding wire after the power plug is removed from the power socket.

- If the machine is not grounded and a short circuit occurs, this may result in a fire or electric shock. Contact your dealer if you are unable to ground the machine.

- Never ground the machine to the following places to avoid the risk of fire or electric shock.
  - Gas pipe
  - Grounding wire for telephones
  - Lightning conductor
  - Water pipe and water tap with plastic parts

- Ground the machine to the following places.
  - Ground terminal in the power plug
  - Piece of copper that is buried 65cm or deeper in the ground
  - Ground terminal with grounding work (type 1 to 3)
  - Water pipe which is approved by the water department for grounding

Handling

WARNING

- Do not place water containers or metallic objects on the machine. Fire or electric shock may occur if water or metallic objects fall into the machine.

- Do not use combustible spray or flammable solvent near the machine.
  If sprayed gas and flammable solvent contact electronic components inside the machine, fire or electric shock may occur.

- Do not insert any metallic object or flammable substance into the machine through any opening to avoid the risk of fire or electric shock.

- Do not remove machine covers to avoid the risk of electric shock or injury.

- Do not dismantle or remodel the machine to avoid fire, electric shock or breakdown of the machine. Ask your dealer to carry out internal check, adjustment and repair of the machine. Repair of a breakdown due to dismantling or remodeling will be fee chargeable even within the warranty period.

- The thermal head and surrounding metal parts are hot while the power is on, or just after the power is switched off.
  Do not touch it to avoid burning yourself.
  When cleaning the machine, wait until it has cooled down.

- Do not let someone who does not know how to use the machine touch it. It may cause an unexpected accident by touching dangerous parts or by starting the machine unintentionally.

- If you continue using the machine when the machine is emitting excessive heat, smoke or foul odors, it may result in fire or electric shock. Turn off the power and unplug the power cord immediately. Then contact your dealer.

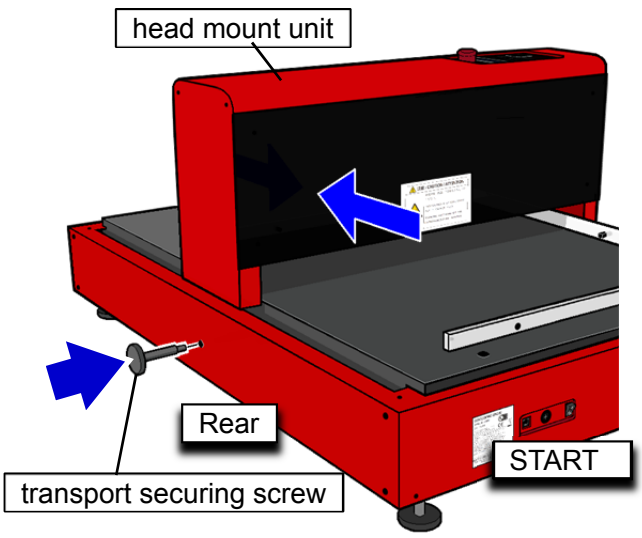
- If anything falls inside the machine, turn off the power immediately, unplug the power cable and contact your dealer. Failure to do so can result in fire or electric shock.

Caution

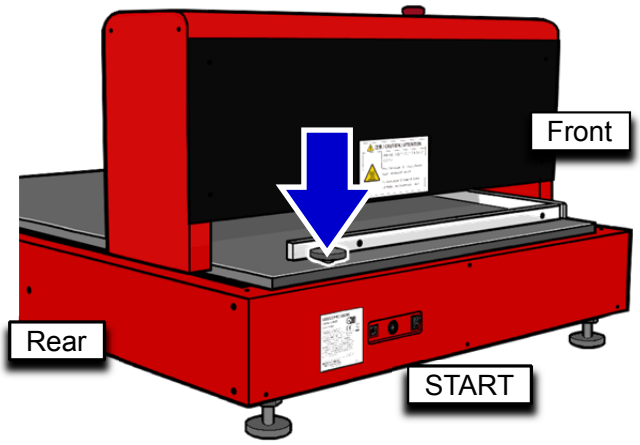
- Never insert fingers, etc., into openings of the machine. This can result in injury.

- When lifting or moving the machine, hold the main part of the machine to lift it.
  If you hold the upper part of the machine, you may drop it causing an injury.

- When moving this machine, move the head mount unit to the center, and secure the unit with the included transport securing screw through the hole in the Rear side of the unit. If the machine tilts during transport, the head mount unit will start moving, resulting in an injury.



- Before using the machine, put the transport fixing screw in the position shown in the figure below to protect it against loss.



- This machine weighs 67kg. Be careful when opening the package, installing and moving the machine.

Guide de sécurité

Cette section décrit les consignes de sécurité à observer avant d'utiliser l'imprimante, relatives, par exemple, à l'emplacement d'installation et au raccordement électrique. Veuillez lire cette section.

Avertissements

Les avertissements suivants permettent de garantir une utilisation correcte de l'imprimante et d'éviter des blessures ou des dommages matériels.
Assurez-vous d'avoir compris le contenu de cette section avant de passer aux explications principales.

ATTENTION

La non-connaissance de ces indications et la manipulation incorrecte de l'imprimante peuvent entraîner la mort ou causer des blessures graves.

Mise en grade

La non-connaissance de ces avertissements et la manipulation incorrecte de l'imprimante peuvent causer des blessures ou des dommages matériels.

Emplacement d'installation

Mise en grade

- Ne placez pas l'imprimante sur une surface instable, par exemple, une surface inclinée ou un socle instable. L'imprimante risquerait de tomber ou de basculer, et de blesser quelqu'un.
- Maintenez l'imprimante hors de tout environnement poussiéreux ou humide pour éviter tout risque d'incendie ou de choc électrique.

Raccordement électrique

ATTENTION

- Utilisez uniquement l'adaptateur CA spécifié pour cette imprimante afin d'éviter les risques d'incendie, de choc électrique ou de panne de l'imprimante.
- La tension de l'alimentation de l'adaptateur CA doit être de 100 - 240 V et l'intensité, supérieure à (number of Amps will be inserted later) A pour éviter les risques d'incendie, de choc électrique ou de panne de l'imprimante.
- Éloignez l'adaptateur CA des sources de chaleur, telles que les appareils de chauffage. La non-observation de cette indication risque de provoquer la fonte du revêtement de l'adaptateur CA, ainsi qu'un incendie, un choc électrique ou une panne de l'imprimante.
- Les caractéristiques du câble d'alimentation et du cordon prolongateur dépendent de la tension d'alimentation. L'utilisation de câbles inadaptés peut provoquer un incendie, un choc électrique ou une panne de l'imprimante.
  - La longueur maximale du câble d'alimentation est de 4,5 mètres ; celle du cordon prolongateur, de 5 mètres.
  - Si la tension de la source d'alimentation est de 100-120 V, utilisez un câble conçu pour 125 V/8 A minimum et n'employez pas de cordon prolongateur de plus de 5 mètres.
  - Si la tension de la source d'alimentation est de 220-240 V, utilisez un câble conçu pour 250 V/5 A minimum et n'employez pas de cordon prolongateur de plus de 5 mètres.
- N'utilisez pas le câble alors qu'il est attaché ou enroulé pour éviter qu'il ne surchauffe et ne provoque un incendie.

- N'utilisez pas de prise multiple ni de cordon prolongateur. Ne surchargez pas le circuit électrique. Si l'utilisation d'un cordon prolongateur s'avère nécessaire, utilisez un câble conçu pour 125 V/8 A minimum et n'employez pas de cordon prolongateur de plus de 5 mètres, afin d'éviter tout risque d'incendie ou de choc électrique.

- N'endommagez pas, ne rompez pas, ne modifiez pas le câble d'alimentation. Ne placez pas d'objet lourd sur le câble, ne le tirez pas, ne le pliez pas avec force, afin d'éviter tout risque d'incendie ou de choc électrique.

- Ne branchez pas et ne débranchez pas le cordon d'alimentation avec les mains mouillées pour éviter tout risque de choc électrique.

⚠ Mise en grade

- Pour débrancher le câble d'alimentation, retirez-le en maintenant la fiche. Ne le tirez pas.
  La non-observation de cette consigne pourrait provoquer un incendie ou un choc électrique.

- Lorsque l'imprimante n'est pas utilisée pendant une période prolongée, par exemple, pendant les vacances, débranchez le câble d'alimentation de la prise pour des raisons de sécurité.

- Débranchez la fiche du câble d'alimentation de la prise électrique au moins une fois par an pour nettoyer les broches et la zone autour de la fiche. La poussière amoncelée sur ces parties peut provoquer un incendie.

Mise à la terre

⚠ ATTENTION

- Utilisez une fiche électrique avec câble de terre ou une fiche électrique à trois broches (deux pôles et un câble de terre) et vérifiez que la fiche est correctement reliée à la terre. Si vous utilisez une fiche avec câble de terre, raccordez la fiche à la terre avant de l'insérer dans la prise électrique. Débranchez le câble de terre après avoir retiré la fiche électrique de la prise électrique.

- Si l'imprimante n'est pas raccordée à la terre et qu'un court-circuit se produit, cela risque de provoquer un incendie ou un choc électrique. Contactez votre revendeur si vous ne parvenez pas à raccorder l'imprimante à la terre.

- Ne raccordez jamais l'imprimante aux emplacements suivants, pour éviter tout risque d'incendie ou de choc électrique.
  - Tuyau de gaz
  - Câble de terre pour téléphone
  - Paratonnerre
  - Conduite d'eau et robinet à eau avec pièces en plastique

- Raccordez l'imprimante à la terre aux emplacements suivants.
  - Borne de terre de la fiche électrique
  - Pièce en cuivre enterrée à 65 cm minimum dans le sol
  - Borne de terre avec mise à la terre (type 1 à 3)
  - Conduite d'eau approuvée par le service des eaux pour la mise à la terre

Manipulation

⚠ ATTENTION

- Ne posez pas de récipients contenant de l'eau ni d'objets métalliques sur l'imprimante. Les déversements et fuites dans l'imprimante peuvent provoquer un incendie ou un choc électrique.

- N'utilisez pas de vaporisateurs combustibles ou de solvants inflammables près de l'imprimante.
  Si des vapeurs de gaz et de solvant inflammable entrent en contact avec les composants électroniques situés à l'intérieur de l'imprimante, ceci pourrait provoquer un incendie ou un choc électrique.

- N'introduisez pas d'objet métallique ni de substance inflammable dans l'imprimante par une ouverture. Cela pourrait provoquer un incendie ou un choc électrique.

- Ne démontez pas les capots de l'appareil pour éviter tout risque de choc électrique ou de blessure.

- Ne démontez pas et ne remontez pas l'imprimante par vous-même. Cela pourrait provoquer un incendie, un choc électrique ou une panne de l'imprimante. Demandez à votre revendeur d'effectuer les vérifications internes, ajustements et réparations de l'imprimante. Les réparations de pannes dues au démontage ou remontage de l'imprimante seront payantes, y compris pendant la période de garantie.

- La tête thermique et les pièces autour de celle-ci sont chaudes pendant que l'alimentation est sous tension et immédiatement après la mise hors tension.
  Ne les touchez pas, vous risqueriez de vous brûler. Pour nettoyer l'imprimante, attendez que celle-ci ait refroidi.

- Ne laissez pas les personnes ne sachant pas utiliser l'imprimante toucher cette dernière. Elles pourraient provoquer un accident en touchant une pièce dangereuse ou en démarrant l'imprimante par mégarde.

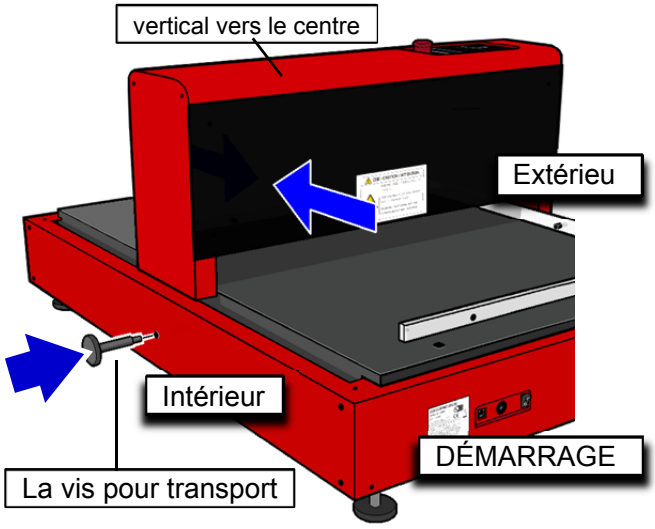
- L'utilisation de l'imprimante alors que celle-ci dégage une chaleur excessive, de la fumée ou une mauvaise odeur pourrait provoquer un incendie ou un choc électrique. Mettez immédiatement l'alimentation hors tension et débranchez le câble d'alimentation. Puis contactez votre revendeur.

- En cas de chute d'objet à l'intérieur de l'imprimante, mettez immédiatement l'alimentation hors tension, débranchez le câble d'alimentation et contactez votre revendeur. La non-observation de cette consigne pourrait provoquer un incendie ou un choc électrique.

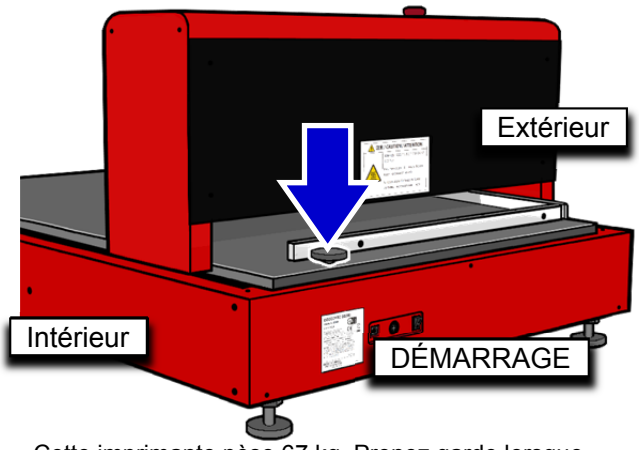
- N'introduisez jamais vos doigts, etc., dans les ouvertures de l'imprimante, vous risqueriez de vous blesser.

- Pour soulever ou déplacer l'imprimante, maintenez celle-ci par sa pièce principale.
  Si vous la maintenez par la partie supérieure, vous risquez de la faire tomber et de vous blesser.

- Pour transporter l'imprimante, déplacez le socle vertical vers le centre et fixez-le à l'aide de la vis de fixation incluse pour le transport, en insérant cette dernière dans l'orifice intérieur du socle. Si l'imprimante s'incline pendant le transport, le socle vertical bouge, ce qui risque de provoquer des blessures.



- Avant d'utiliser l'imprimante, placez la vis de fixation pour le transport comme indiqué dans l'illustration ci-dessous pour éviter de la perdre.



- Cette imprimante pèse 67 kg. Prenez garde lorsque vous ouvrez l'emballage, installez et déplacez l'imprimante.

Mise en grade

Before Use

Notes on Installation

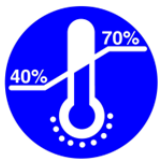
Notes on Installation Location

- Your dealer will help you to determine an appropriate location for the machine at the time of delivery.
- This machine requires to be fixed at the installation location. Contact your dealer when the machine needs to be moved.
- Avoid installing the machine in the locations listed below. Failure to do so may result in malfunctioning or breakdown of the machine, or an accident.
  - Locations with exposure to direct sunlight, such as locations close to windows (If unavoidable, attach curtains to the windows.)
  - Locations that are subject to sudden changes in temperature
  - Extremely hot and humid locations or cold and dry locations
  - Locations with exposure to fire and heat, cold air from air conditioning, or warm air or radiant heat from a heater.
  - Locations with poor air flows and ventilation
  - Dusty locations
  - Locations without sufficient strength such as work table

Notes on Operation Environment

- Choose a location where the machine can be installed on the level. Adjust the legs so that each leg bears the weight equally.
  (Levelness: front to back within 10 mm, right to left within 10 mm)
- Appropriate environment is as follows.
  - Temperature range: 15 °C to 30 °C

- Humidity range: 40% to 70% (non-condensing)



Notes on Connection

Notes on Power Connection

- Ensure that the plug is fully inserted into the power socket to avoid contact failure of the power plug.

- Install the machine near a power socket.

Power Cable and Extension Cable

- If the voltage selector is on 100-120V, use a cable for 125V/8A or higher.
- If the voltage selector is on 220-240V, use a cable for 250V/5A or higher.

Printer Driver

The Printer Driver is to send artwork data from PC for image-making
The included CD-ROM includes the Printer Driver. You must install it before you make a image on screen for the first time.

Avant utilisation

Remarques sur l'installation

Remarques sur l'emplacement d'installation

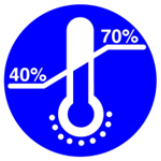
- Votre revendeur vous aidera à déterminer l'emplacement approprié pour l'imprimante lors de la livraison.
- ette imprimante doit être fixée au lieu d'installation. Contactez votre revendeur si vous devez la déplacer.
- Évitez d'installer l'imprimante aux emplacements répertoriés ci-dessous. La non-observation de cette consigne pourrait provoquer un dysfonctionnement ou une panne de l'imprimante, ou un accident.
  - Les endroits exposés aux rayons directs du soleil, par exemple, près des fenêtres (Si aucun autre emplacement n'est possible, accrochez des rideaux aux fenêtres.)

  - Les endroits sujets à des variations soudaines de température
  - Les endroits très chauds et humides ou froids et secs
  - Les endroits exposés au feu et à la chaleur, à une arrivée directe d'air froid (climatisation), d'air chaud ou de chaleur rayonnante
  - Les endroits avec une mauvaise aération et ventilation
  - Les endroits poussiéreux
  - Les endroits insuffisamment robustes, tels qu'un plan de travail

Remarques sur l'environnement d'utilisation

- Installez l'imprimante sur une surface plane. Réglez les pieds de sorte que le poids soit équitablement réparti sur chaque pied.
  (Nivelance : 10 mm maximum de l'avant vers l'arrière, 10 mm maximum de droite à gauche)
- Les conditions environnementales appropriées s ont les suivantes.
- Plage de température : 15 °C - 30 °C

- Plage d'humidité : 40 % - 70 % (sans condensation)



Remarques sur le raccordement

Remarques sur le raccordement à l'alimentation

- Vérifiez que la fiche est entièrement insérée dans la prise électrique afin d'éviter les faux contacts.

- Installez l'imprimante près d'une prise électrique.

Câble d'alimentation et cordon prolongateur

- Si le sélecteur de tension est défini sur 100-120 V, utilisez un câble conçu pour 125 V/8 A minimum.
- Si le sélecteur de tension est défini sur 220-240 V, utilisez un câble conçu pour 250 V/5 A minimum.

Precautions for Connection with PC

- Make sure to install the Printer Driver from the included CD-ROM before you use the machine.

Important! Do not connect the machine to PC before the Print Driver is installed.

- Use a commercially available USB cable Hi-Speed standard-compliant USB, 3 m or less) to connect the machine to PC.

Precautions for Use

Precautions for Handling Machine

- The machine is a precision machine. Do not place heavy objects on the machine or do not apply a shock or excessive force to it.
- Do not insert your fingers or hands into the thermal head part and movable parts.
- Before you set a screen frame to the machine, confirm the machine power switch is off.
- While the machine is running, do not turn the power switch to OFF or do not pull out the power plug.
- While the machine is running, do not move a screen frame and do not move the machine.
- The machine includes precision parts and drive mechanism parts; therefore, do not perform operations other than described in this User's Guide.
- Clean this machine frequently. If a foreign material is on a screen, the thermal head will be damaged. Do not use highly-soluble organic solvents such as thinner and benzene for cleaning. If they are used, coating peeling and failures will occur. For cleaning, use RISO Thermal Head Cleaner or neutral detergent.
- For the machine, use the specified RISO DIGITAL SCREEN QS MASTER/GRAY. If other screens are used, the quality will not be guaranteed.
- Please note that if the machine is moved out of Japan, we are not responsible for the maintenance service.

Master Storage

- Store masters correctly. Do not store them in the places below.
  - Bright places such as places with direct sunlight and places by windows (Use curtains for windows if unavoidable.)
  - Places with rapid temperature change
  - Places with high temperature/humidity or low temperature/humidity

Materials Not to Be Printed

Do not use the machine in any manner which violates the law or infringes on established copyrights, even when making copies for personal use. Consult your local authorities for further details. In general, use discretion and common sense.

Precautions on Image-making Position

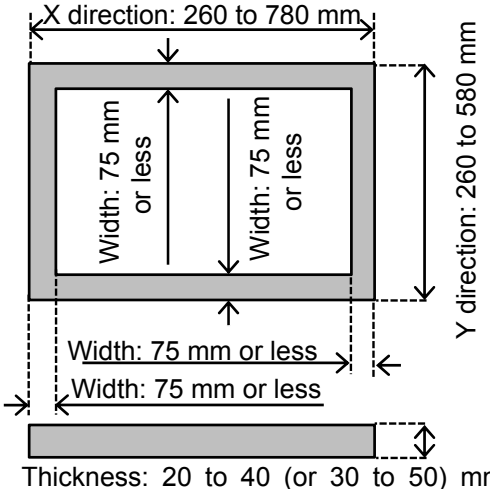
This section is to describe the relationship between a Image-making position and a screen frame. Improper settings or the use of a nonconforming screen frame may cause wasting screens or damageing this machine. Please fully understand the contents of this section.

Important!

- Exceeded maximum size of frame may cause failure.
- Size of image-making area and artwork data has to be 160mm or less then the outer frame size. Artwork data size has to be smaller than the image-making area size.
  An improper size setting may damage the thermal print head by contact with the screen frame.
- The use of a screen frame with a thickness exceeding 40 mm requires adjustments of this machine. Please contact your dealer (or authorized service representative).

Screen Frame

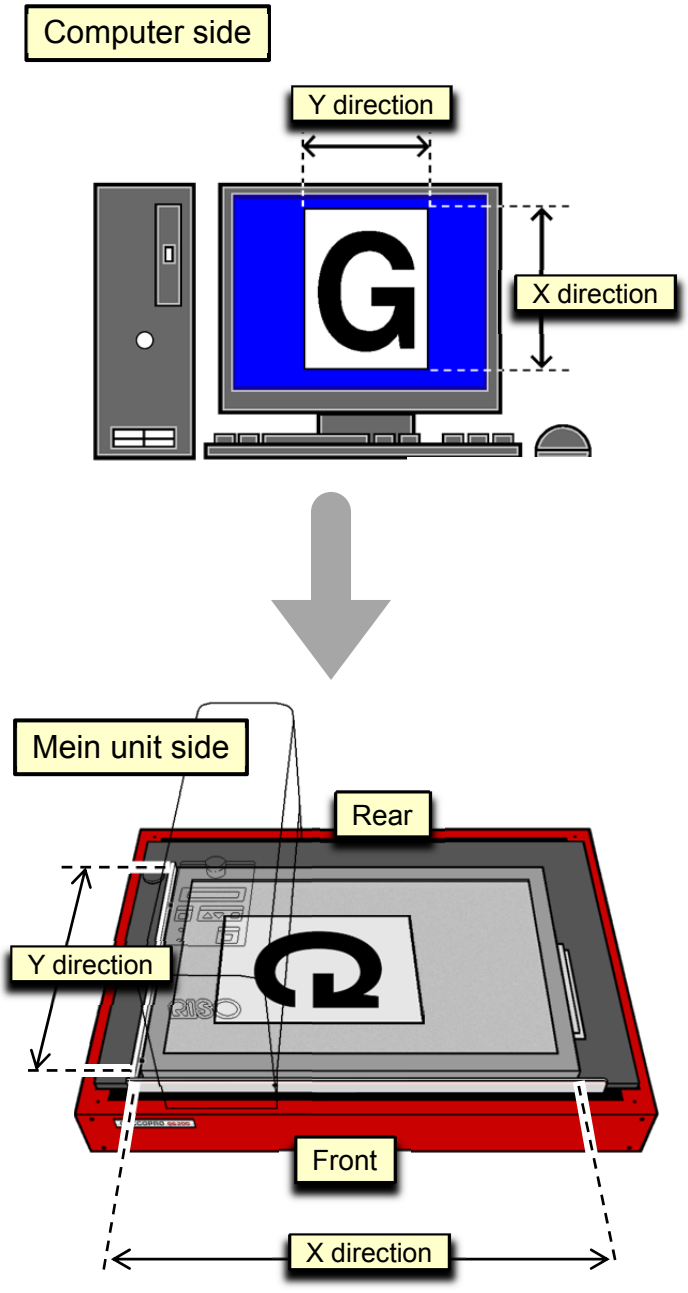
- The following screen frame sizes can be used.
  - Minimum size: 260 mm (X direction) × 260 mm (Y direction) × 20 mm (thickness)
  - Maximum size: 780 mm (X direction) × 580 mm (Y direction) × 50 mm (thickness)/75 mm (width)



*) Contact your dealer to shift this thickness capability.

Image Direction

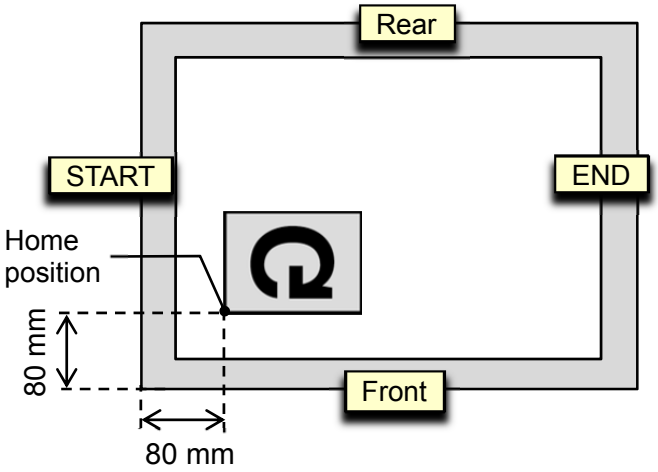
The relationship between the direction of the Artwork data created on the computer and the direction of the image transferred onto a screen is shown below.



*) The head mount unit is omitted in the above figure to show the screen frame clearly.

Image-making Position

Image-making always starts from the home position which is located 80 mm away from the Front side and 80 mm away from the START side of the screen frame. The home position cannot be changed.



Margin

Margins are required on all four sides of artwork data when you produce the image on the screen frame. 80mm of margin is fixed on Start and Front side and 80mm or more of margin is required on End and Rear side of artwork data. (Margin on End and Rear side may change according to the registered Frame size.)
Appropriate Frame size have to be registered and select the correct size of frame when you send artwork data from PC. You also have to mind you are sending appropriate size of artwork data according to the image-making size selected.

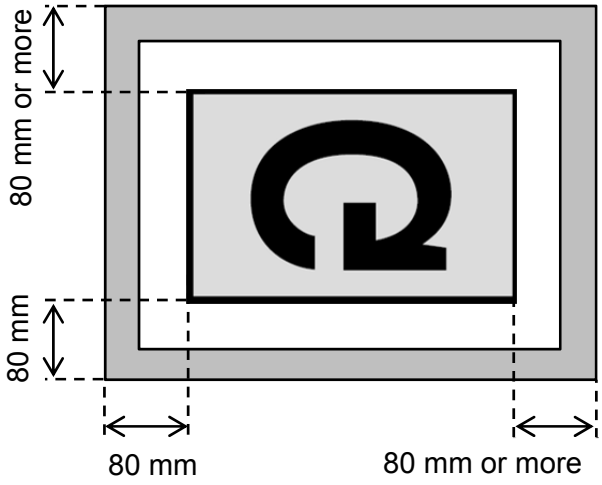
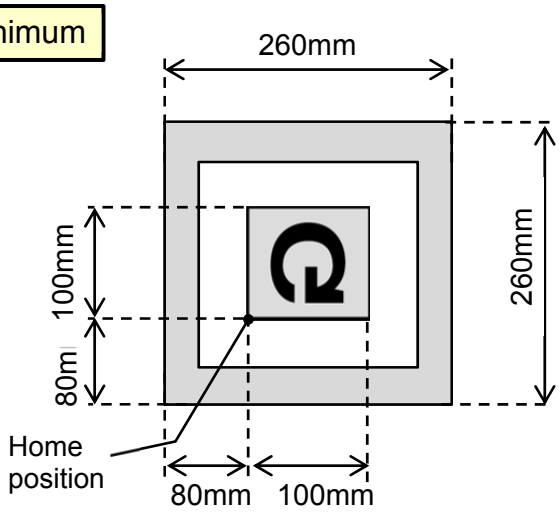


Image-making Area

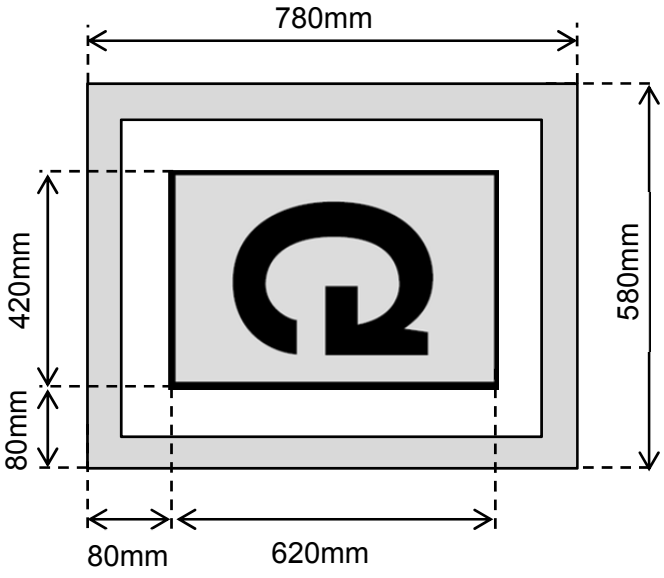
Image-making area has to be 160mm or less then the outer frame size in both X-direction (Width) and Y-direction(Height).

Range:
X direction: 100 to 620 mm
Y direction: 100 to 420 mm
*) Setting increment: 0.1 mm

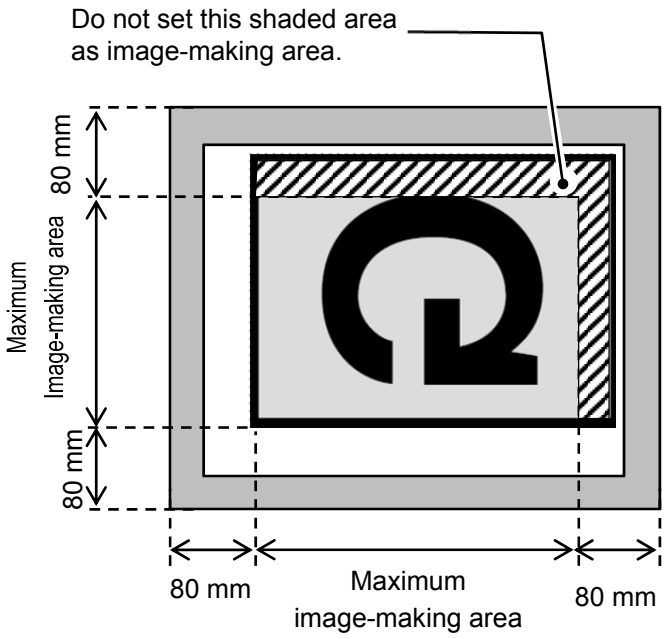
Minimum



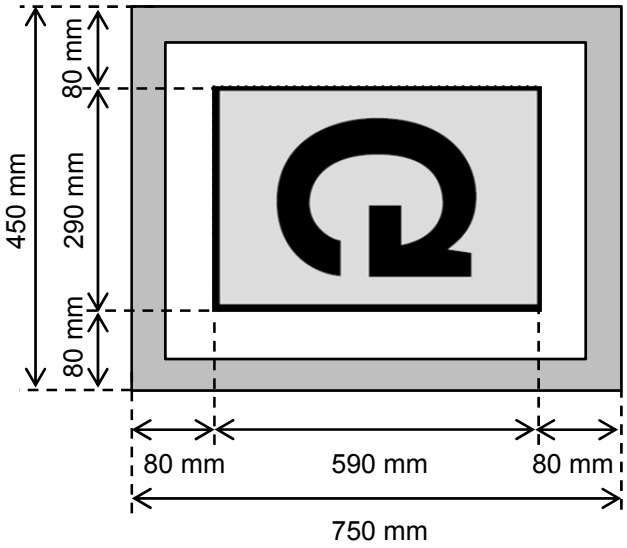
Maximum



Important! Artwork data size has to be less then image-making area.
Image-making area is determined by reducing 160mm from outer size of the screen frame size in both X-direction (Width) and Y-direction (Height).
An improper size setting may damage the thermal print head by contact with the screen frame.



Ex.
The image-making area of screen frame size 750mm x 450mm (outer size) will be 590mm x 290mm as shown below.

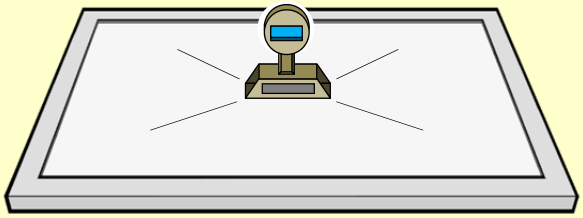


Column

Screen Tension

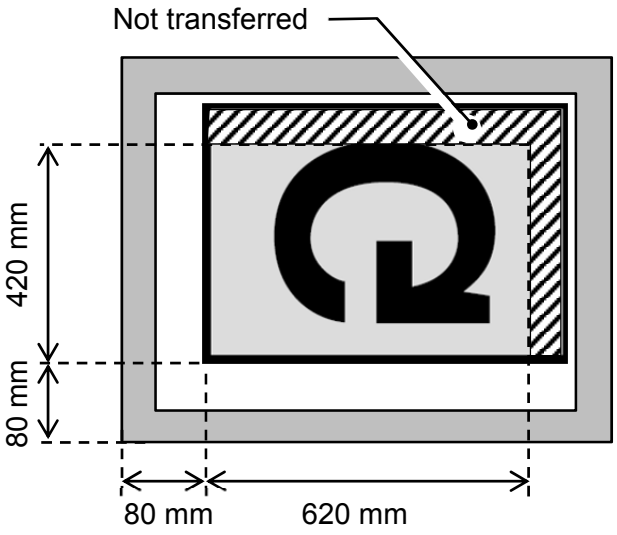
The screen should be stretched higher than lower limit tension. Low screen tension may cause such as e.g. the image may be displaced when transferred onto the screen, image making might be poor, etc.
The preferable screen tension is about 7N/cm or higher although the proper tension value varies with the screen frame size.

Lower limit: 7 N/cm

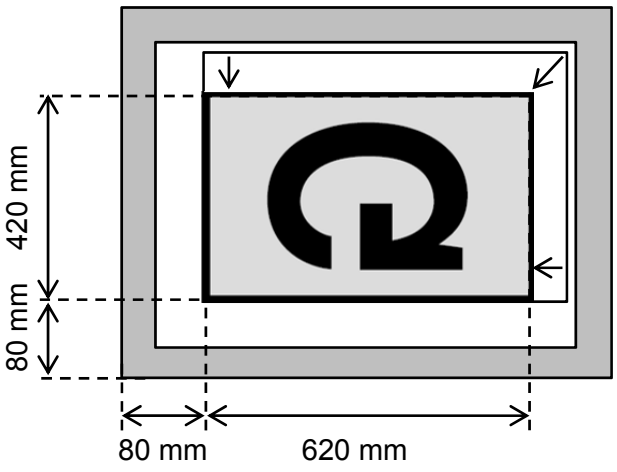


Artwork Data Larger Than Image-Making Area

When the size of artwork data is larger than the maximum image-making area (620 mm × 420 mm), the area outside the image-making area is not transferred onto a screen.



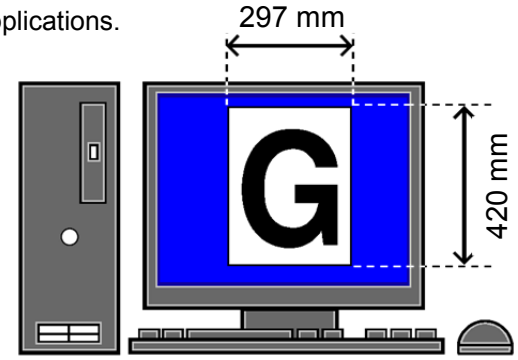
Before starting image-making, reduce the size of the artwork data to the maximum image-making size.



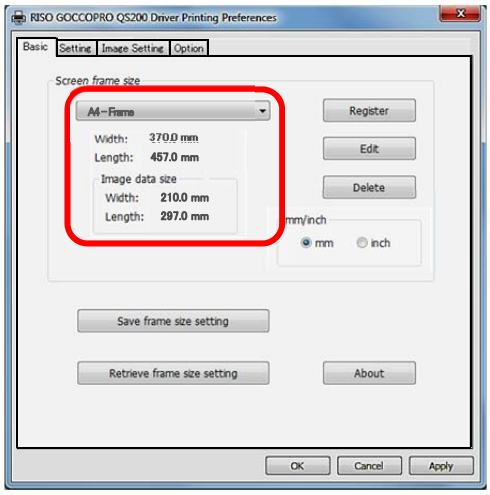
Also when artwork data exceeding the selected image-making size is output (data transmission), the area outside the image-making area is not transferred onto a screen.

Ex.

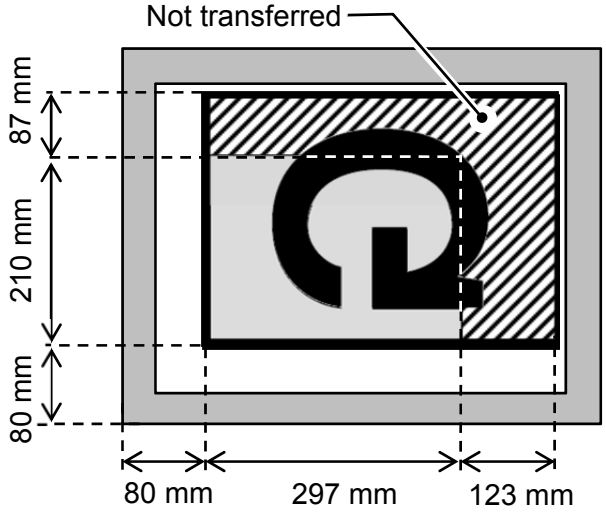
(1) Create A3 size artwork data with computer applications.



(2) Select [A4-Frame] on [Printing Preferences] dialog box, and output the Artwork data without reducing the Screen frame size to the paper size.



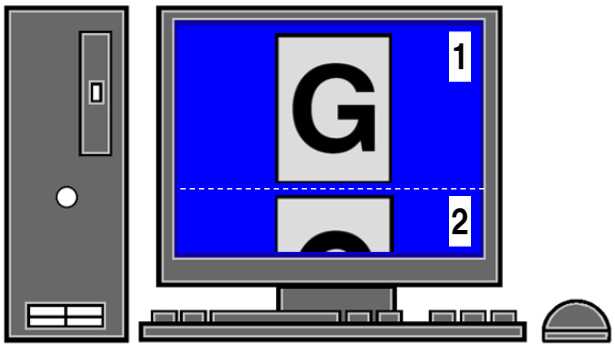
(3) The area outside the A4-size area is not transferred onto the screen.



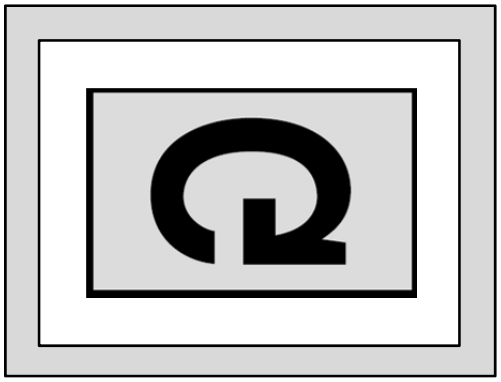
Multi-Page Artwork data

When the artwork data has multiple pages, the first page is transferred onto a screen, but the second and subsequence pages are not transferred and stored. Also when artwork data extends to multiple pages unintentionally, only the first page is transferred onto a screen.
Before starting the creation of artwork data, check the page settings carefully.

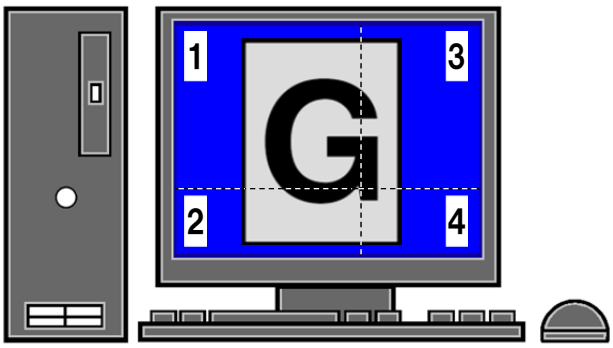
- Artwork data has multiple pages.



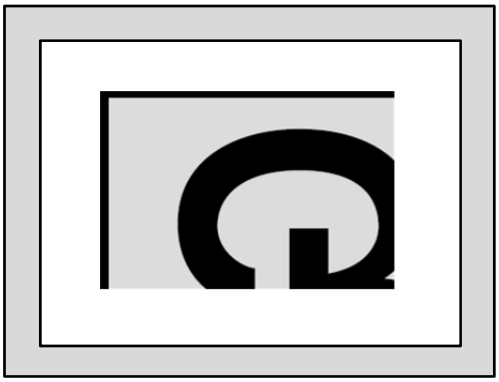
- Only the first page is transferred onto a screen.



- Artwork data extends to multiple pages.



- Only the first page is transferred onto a screen.



Transmission of Artwork Data during Image-Making Operation

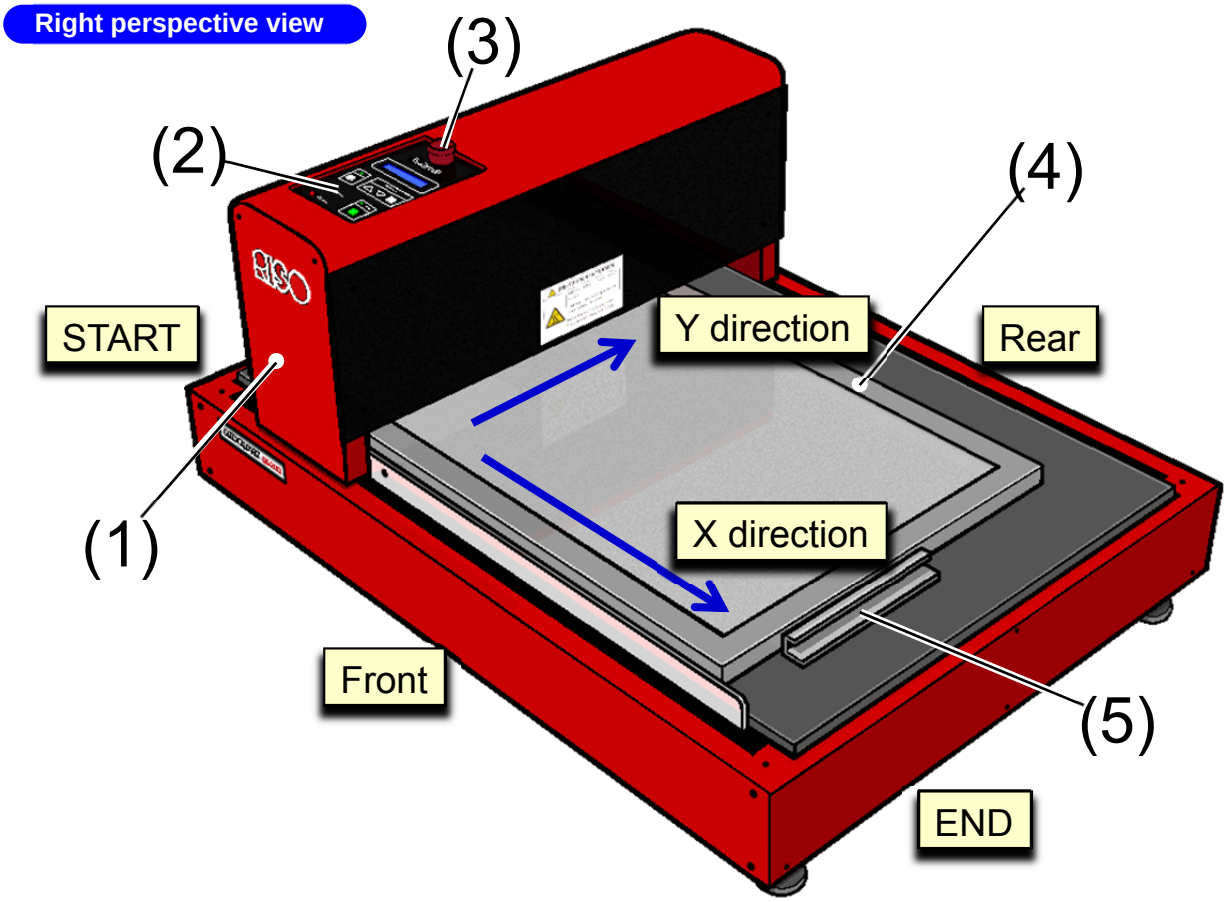
Only after the previous image-making is completed, the next artwork data can be transferred or temporarily stored. Make sure the current image-making has been completed and a new screen frame has been set before executing the transmission of the next artwork data.

Name and Function of Each Part

This section describes names and functions of parts of the machine.

Main Unit

Right perspective view



(1) Head Mount Unit

Includes a thermal head and moves between the top and end of a screen frame.

(2) Operation Panel

You can operate the machine status display, image remaking, and machine setting change.

Ref. “Operation Panel” page 26.

(3) <Emergency STOP> Switch (Emergency Stop Switch)

Press the Emergency STOP switch down to stop the machine.

Once the switch is pressed down, the switch remains depressed.

To release the halt, turn the knob clockwise to the original position, turn the power off, and switch it back on.

(3) Bouton <Arrêt d'urgence> (Bouton d'arrêt d'urgence)

Appuyez sur le bouton d'arrêt d'urgence pour arrêter l'imprimante.

Après que vous avez appuyez sur ce bouton, celui-ci reste enfoncé.

Pour relâcher le bouton, tournez-le dans le sens des aiguilles d'une montre jusqu'à sa position d'origine, mettez l'alimentation hors tension, puis sous tension.

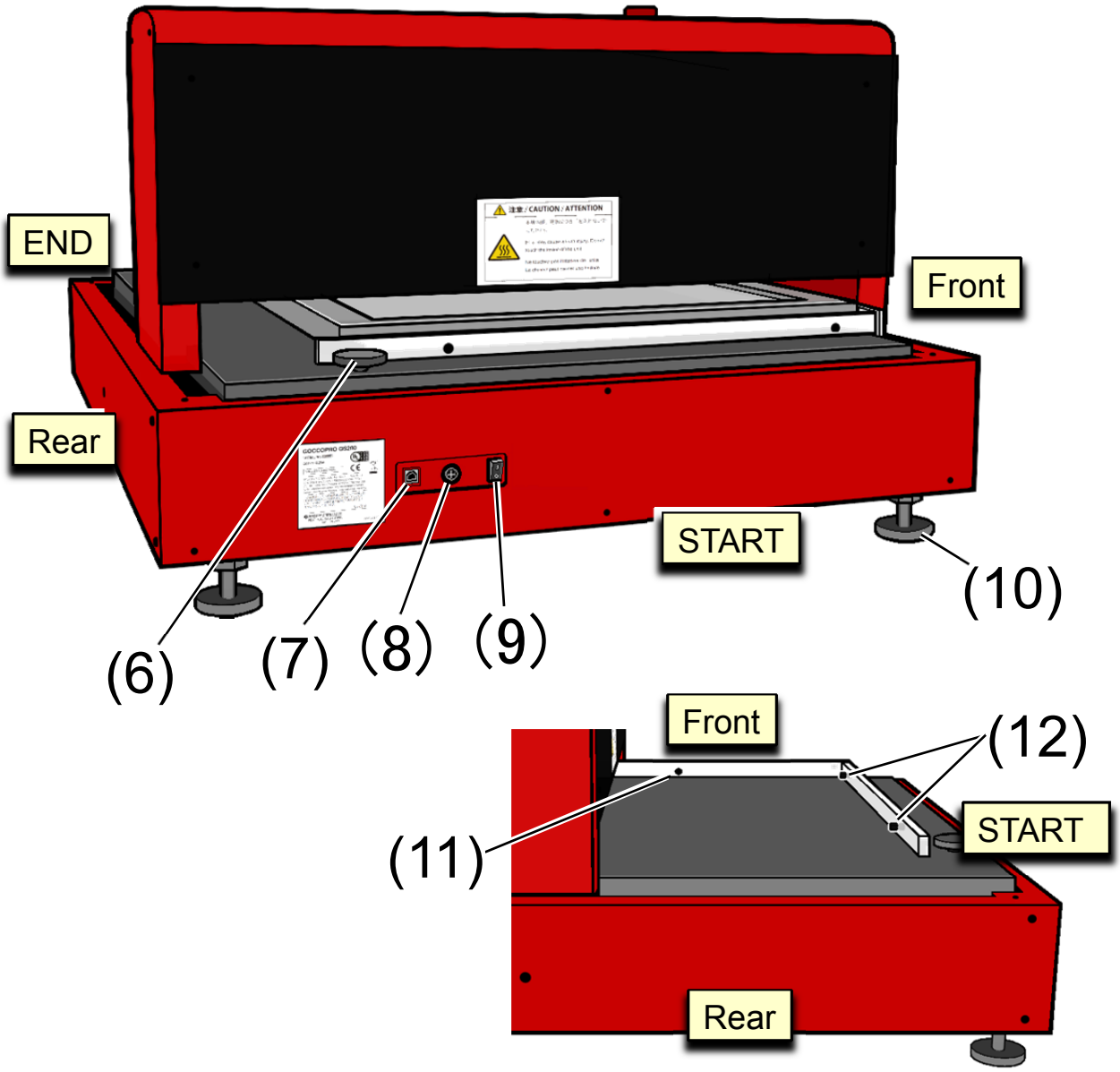
(4) Screen Frame

Strecth RISO DIGITAL SCREEN QS MASTER/GRAY to the frame.

(5) Screen Frame Stopper

Sticks to the stage with a magnet to fix the end side of the screen frame.

Start side perspective view



(6) Transport Securing Screw

Secures the head mount unit to the Rear side during transport of this machine.

(7) USB Connector

Connect PC with a commercial USB cable.

(8) AC Adapter Jack

Connect an AC adapter cable.

(9) Power Switch

Turns ON/OFF the power of the machine.

(10) Height Adjustment Feet (Four Locations)

Turn the screws to adjust the position of the machine.

(11) Screen Frame Guide (TOP)

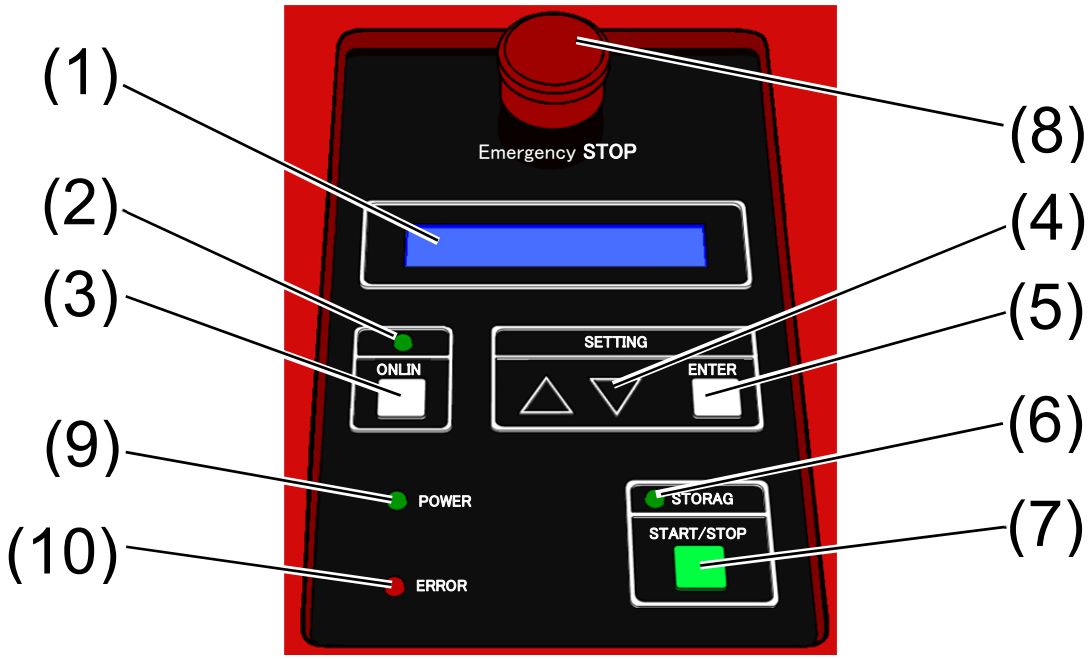
Positions the screen frame TOP.

(12) Screen Frame Guide (Right/Left)

Positions the screen frame right/left direction.

Operation Panel

The operation panel displays the machine status, and you can operate image remaking, image-making parameters setting, and others with the offline menu.



(1) Display

Displays the machine status and information of values input for various settings. Error numbers are displayed on error occurrence.

(2) <ONLINE> Lamp

Indicates the PC connection status.
Lights when PC artwork data can be received (online).

(3) <ONLINE> Key

Pressing this key in [Ready] status has the machine offline and displays the menu selection screen.

(4) <△▽> Key (Selection Key)

Select menus and setting values.

(5) <ENTER> Key (Set Key)

Fix menus and setting values.

(6) <STORAGE> Lamp

Lights when image-making data remain in the machine.
Blinks when Artwork data is being received.

(7) <START/STOP> Key

Stops image-making halfway.

(8) <Emergency STOP> Switch

Press the Emergency STOP switch down to stop the machine. To release the halt, turn the knob clockwise to the original position, turn the power off, and switch it back on.

(8) Bouton <Arrêt d'urgence>

Appuyez sur le bouton d'arrêt d'urgence pour arrêter l'imprimante. Pour relâcher le bouton, tournez-le dans le sens des aiguilles d'une montre jusqu'à sa position d'origine, mettez l'alimentation hors tension, puis sous tension.

(9) <POWER> Lamp

Lights while the power is being supplied to the machine.

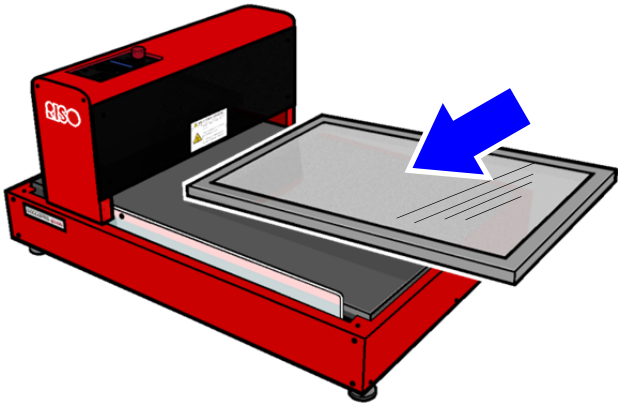
(10) <ERROR> Lamp

Lights when an error occurs.

Flow from Image-Making to Printing

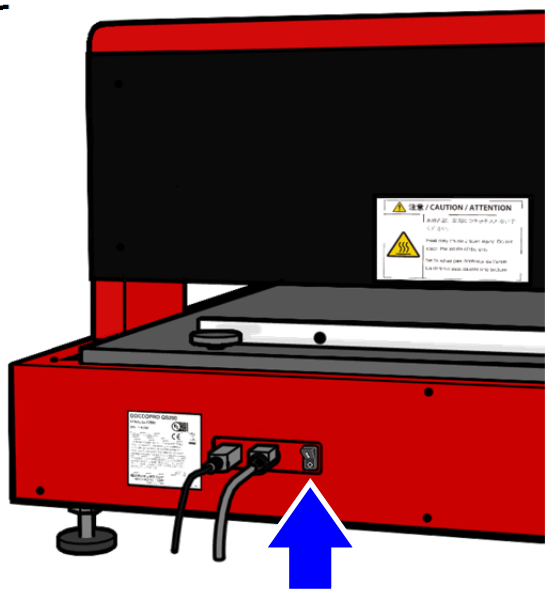
The flow from image-making with PC artwork data to printing is as follows.
In this User's Guide, up to Step 4 are described.

1



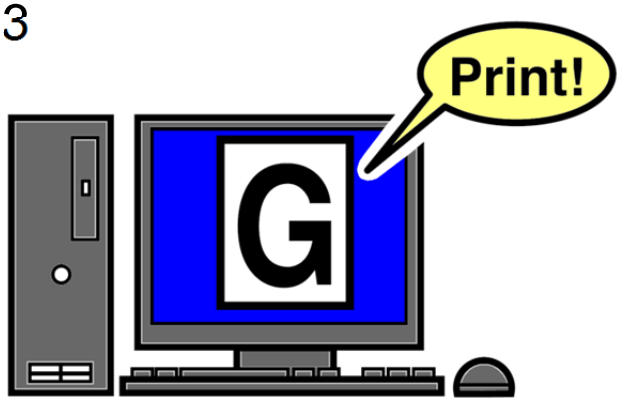
Set a screen frame to the machine.
Ref. "Screen Frame" page 19.

2



Turn ON the power switch of the machine.
Ref. "Power Switch" page 25.

3



Create and output (transmit) artwork data with PC.
Ref. "Transmitting Artwork Data from PC" page 47.

4

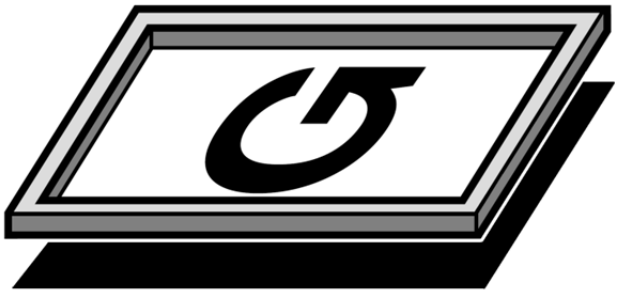
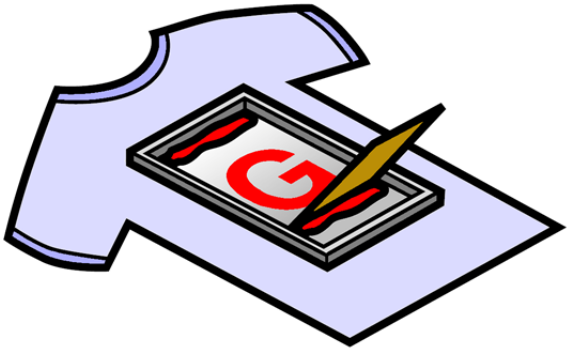


Image-making is finished.

5



Print it with ink of intended usage.

1

Getting ready to use

The following operations are required when you use the machine for the first time after installation.

- Ref. ”Installing Printer Driver” page 29

Installing the Printer Driver

Before Installation

● Prepare a commercially available USB cable (3 m or less, compliant with Hi-Speed USB).

Important!

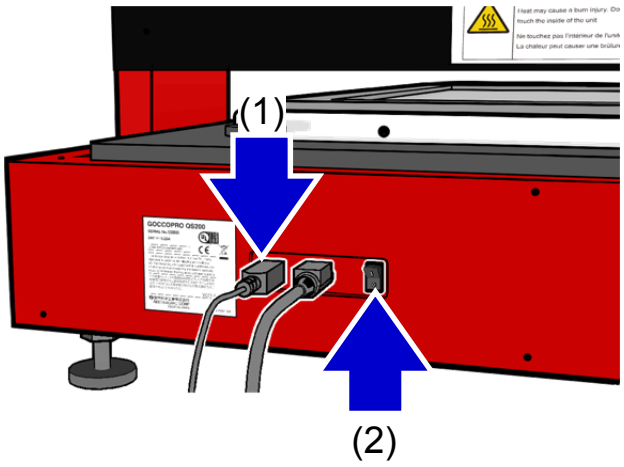
- If you use a USB cable longer than 3 m or an unqualified USB cable, the machine may not operate normally.
- If you fail to connect a USB cable as instructed or disconnect it, the printer driver cannot be installed normally. This may hinder data communications. In this case, it is recommended to uninstall and start over again to install the printer driver.
  Ref. “Uninstalling the Printer Driver” page 80
- Be sure to install the printer driver in accordance with the procedure specified. Do not start the installation with [Add a printer]. This may prevent installation, leading to failure of data communications.
- Log on to the computer by administrative account to change the system setting (administrator, etc.).
- This printer driver does not support server OS or printer sharing.
- To reinstall a printer driver of the same series for updating, change of cable connections, and other reasons, deletion of the driver package is required. Uninstall the installed printer driver before new installation.
  Ref. “Uninstalling the Printer Driver” page 80

Installation Procedure

Windows® XP

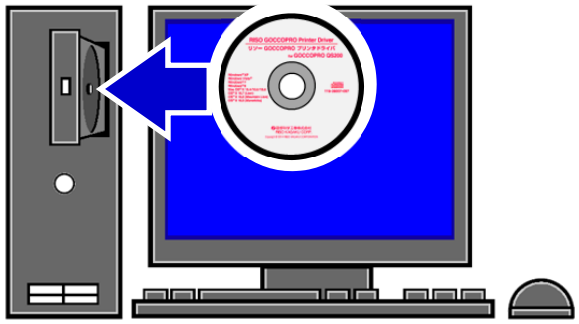
Important! Before you update the printer driver, first uninstall the old version of printer driver.

1 (1) Connect the USB cable between this machine and the computer.
(2) Turn on the power switch of the machine.



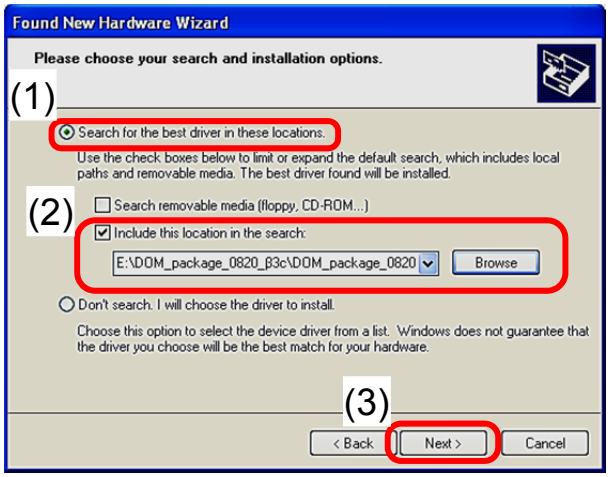
2 The [Found New Hardware Wizard] dialog box appears.
(1) Select [No, not this time].
(2) Click [Next].

3 Insert the CD-ROM for driver installation (RISO GOCCOPRO Printer Driver for/GOCCOPRO QS200) into your computer's CD-ROM drive.



4 (1) Click [Install from a list or specified location].
(2) Click [Next].

5 (1) Click [Search for the best driver in these locations.].
(2) Click [Include this location in the search], and specify the folder that contains the printer driver files from [Browse].
(3) Click [Next].



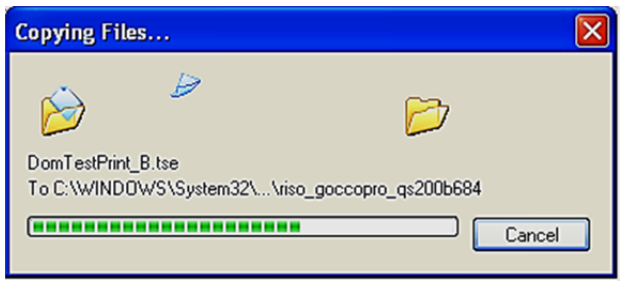
Note

The CD-ROM for driver installation is stored in the following folder structure. Select a folder that matches the computer (32-/64-bit version) on which the printer driver is installed and the language specification (Japanese-/English-language version).
(The above screen is of English-language 32-bit version CPU.)

E:\GOCCOPRO_QS200_Package_FC2\
- JPN < Dir >
  - 32 < Dir > -- Japanese 32-bit CPU
  - 64 < Dir > -- Japanese 64-bit CPU
- USA < Dir >
  - 32 < Dir > -- English 32-bit CPU
  - 64 < Dir > -- English 64-bit CPU

6 [Hardware Installation] dialog box appears. Click [Continue Anyway].

7 [Please wait while the wizards install the software…] dialog box appears, followed by [Copying Files…].



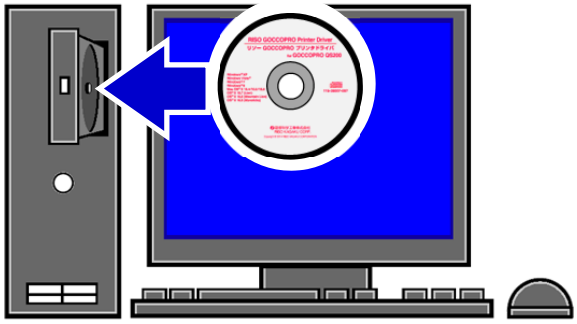
8 When [Completing the Found New Hardware Wizard] dialog box appears, the installation of printer driver is completed.
Click [Finish].

Windows Vista®/7/8/8.1/10

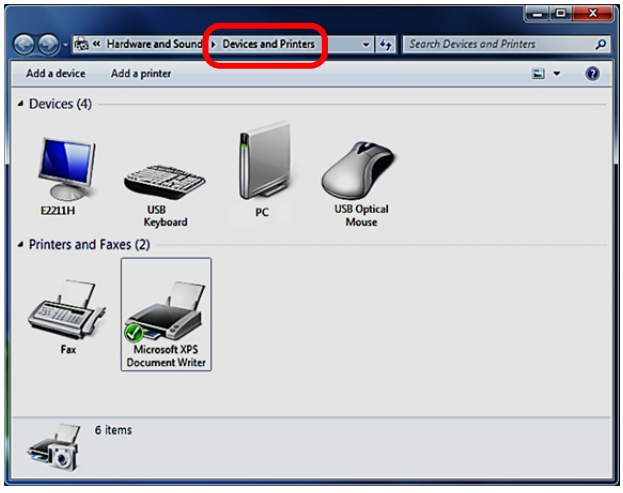
Important!

- Before you update the printer driver, first uninstall the old version of printer driver.
- For Windows Vista or above OS, install the printer driver before connecting the machine with the computer.
- Be sure to install the printer driver in accordance with the procedure specified. Do not execute the installation with [Add a printer]. This may prevent normal installation, leading to failure of data communications.

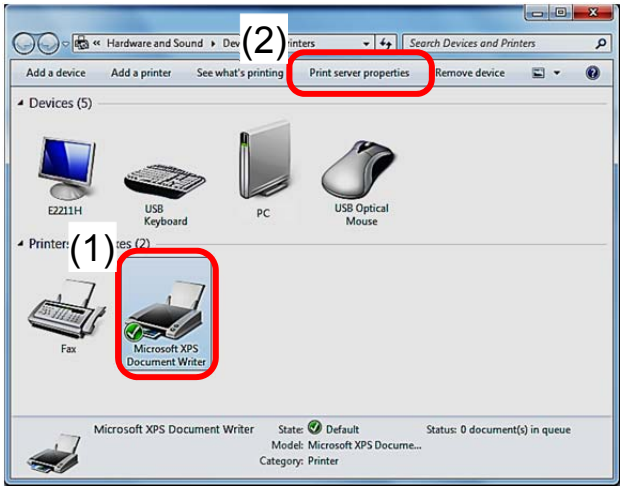
1 Insert the CD-ROM for driver installation (RISO GOCCOPRO Printer Driver for/GOCCOPRO QS200) into your computer's CD-ROM drive.



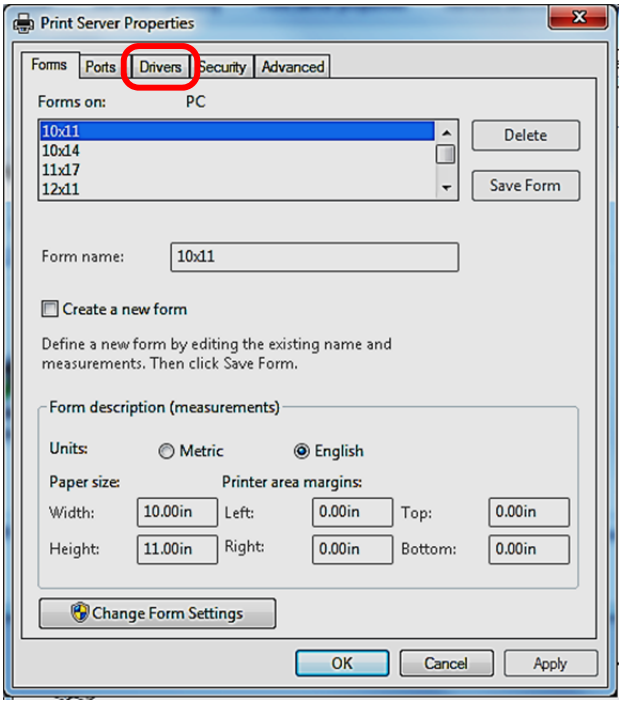
2 In [Control Panel], click [Devices and Printers].



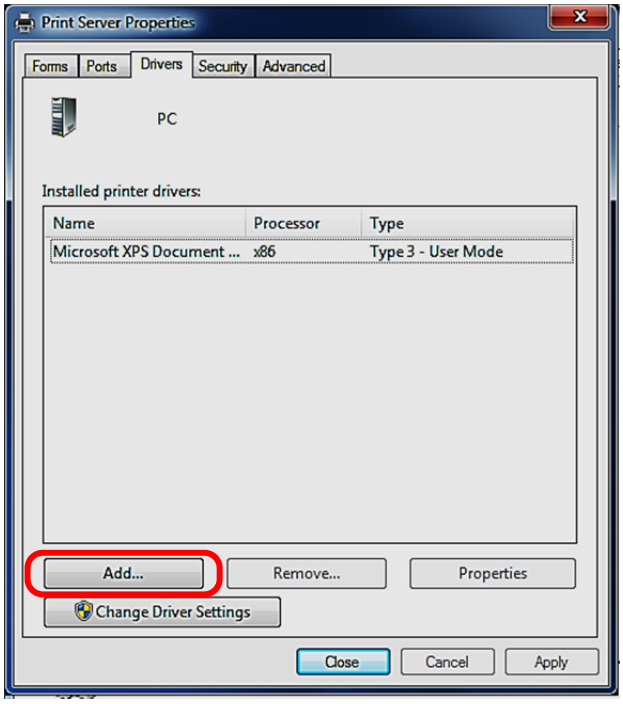
3 (1) In [Printers and Faxes], select and click any one of the printers and faxes displayed.
(2) Click [Print server properties] on the menu bar.



4 Click [Drivers] tab on the [Print Server Properties] dialog box.

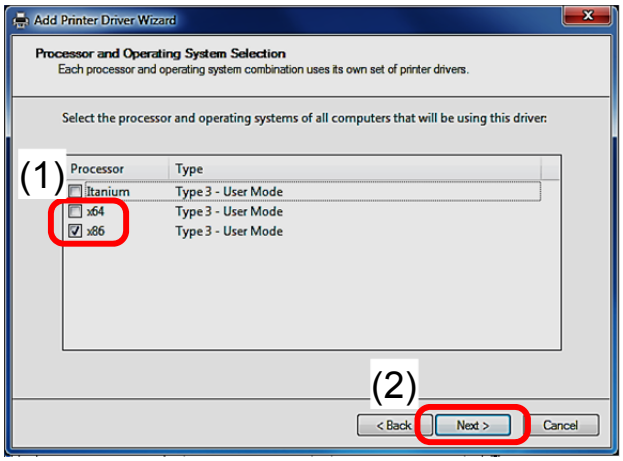


5 Click [Add].



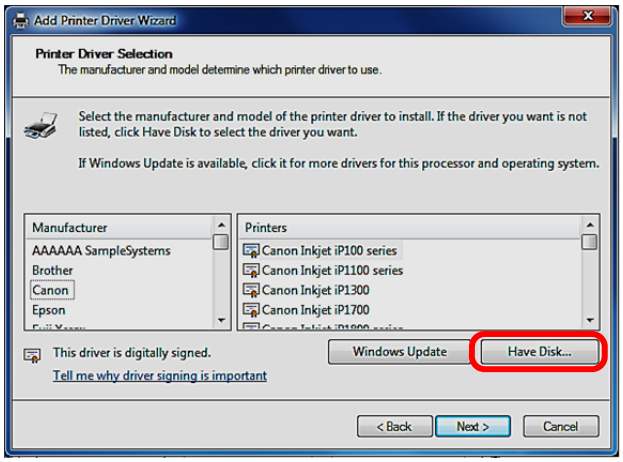
6 [Add Printer Driver Wizard] dialog box appears. Click [Next].

7 (1) Check [x86] (32-bit) or [x64] (64-bit) checkbox.
(2) Click [Next].

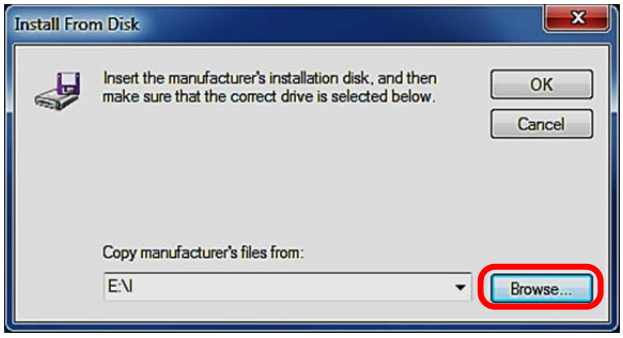


Note Select [x84] (32-bit) or [x64] (64-bit) to fit your computer system.

8 On [Printer Driver Selection] dialog box, click [Have Disk].



9 Click [Browse], and specify the folder that contains the printer driver.

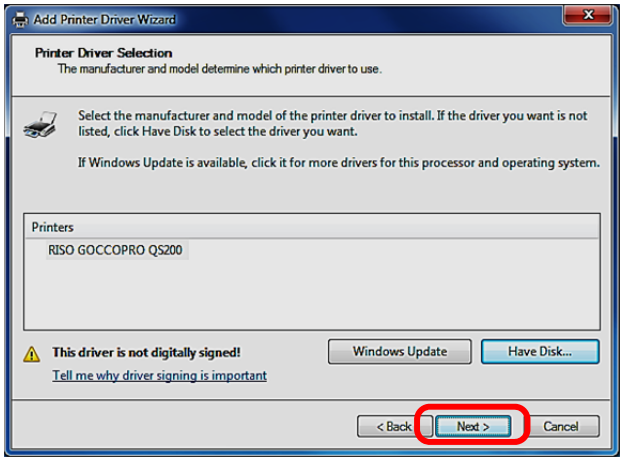


Note

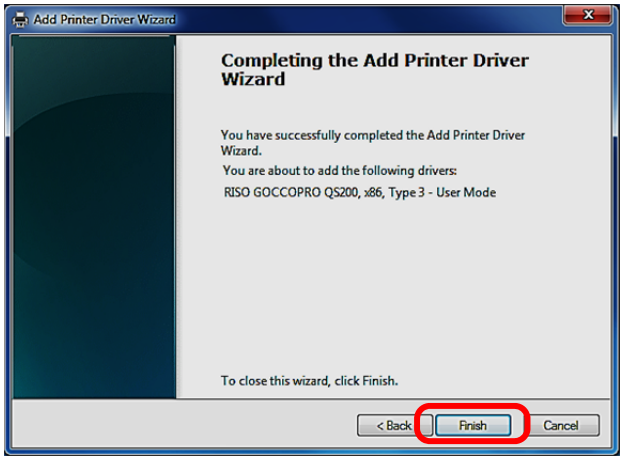
The CD-ROM for driver installation is stored in the following folder structure. Select a folder that matches the computer (32-/64-bit version) on which the printer driver is installed and the language specification (Japanese-/English-language version).
(The above screen is of English-language 32-bit version CPU.)

E:\GOCCOPRO_QS200_Package_FC2\
- JPN < Dir >
  - 32 < Dir > -- Japanese 32-bit CPU
  - 64 < Dir > -- Japanese 64-bit CPU
- USA < Dir >
  - 32 < Dir > -- English 32-bit CPU
  - 64 < Dir > -- English 64-bit CPU

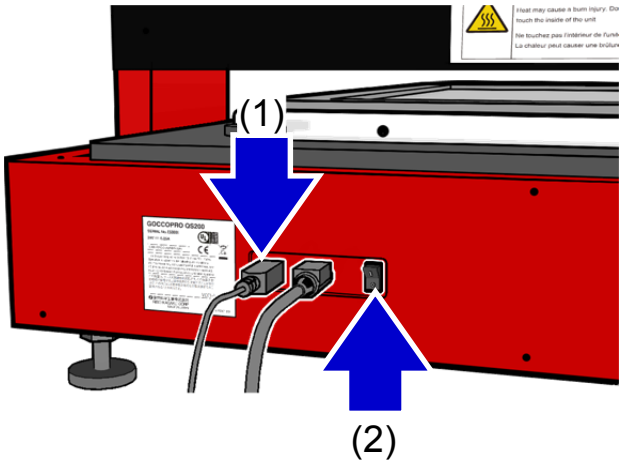
10 Click [Next].



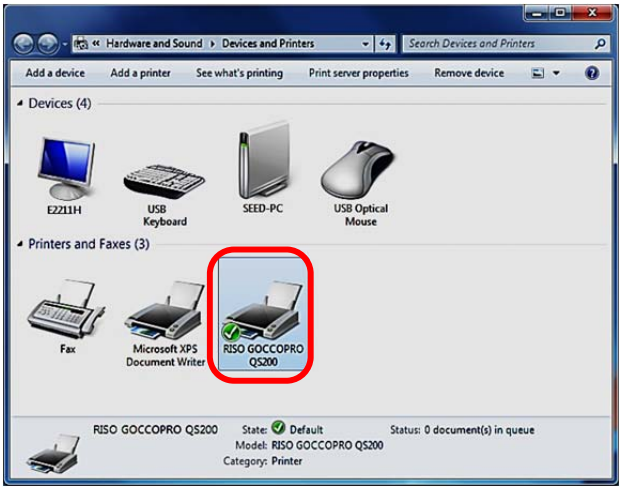
11 On [Completing the Add Printer Driver Wizard] dialog box, click [Finish].



12 (1) Connect the USB cable between this machine and the computer.
(2) Turn on the power switch of the machine.



13 When [RISO GOCCOPRO QS200] icon appears, the installation of printer driver is completed.



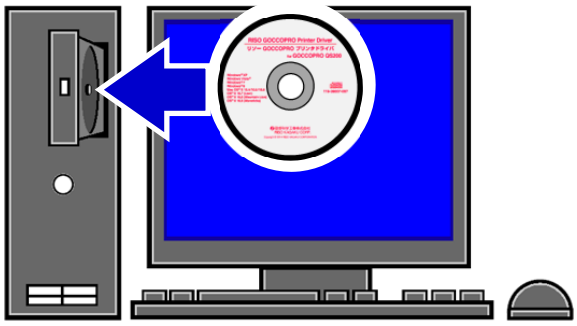
*) Note that the installed printer driver may not be recognized for some period of time when Windows Update starts.

Mac OS

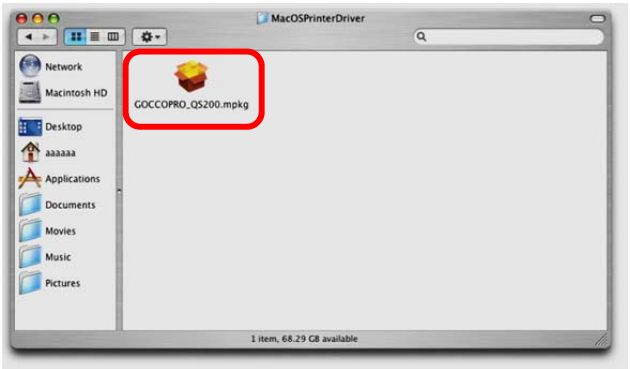
Important!

- Before you update the printer driver, first uninstall the old version of printer driver.
- If you fail to connect a USB cable as instructed or disconnect it, the printer drive may not be installed normally.

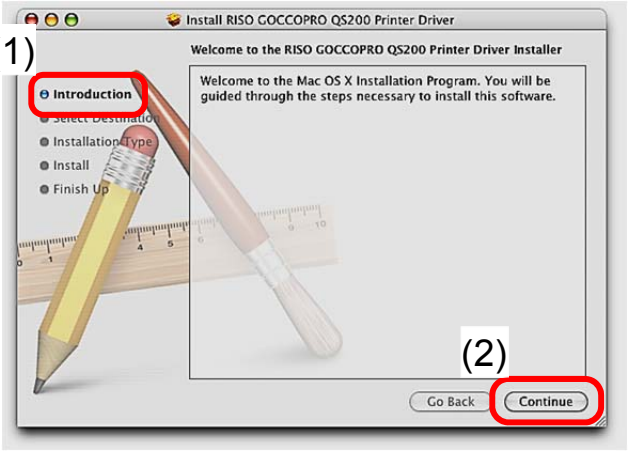
1 Insert the CD-ROM for driver installation (RISO GOCCOPRO Printer Driver for/GOCCOPRO QS200) into your computer's CD-ROM drive.



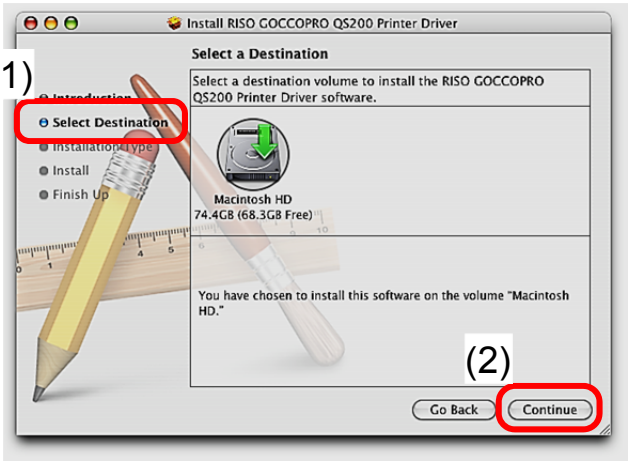
2 Double-click the installer, GOCCOPRO_QS200.mpkg.



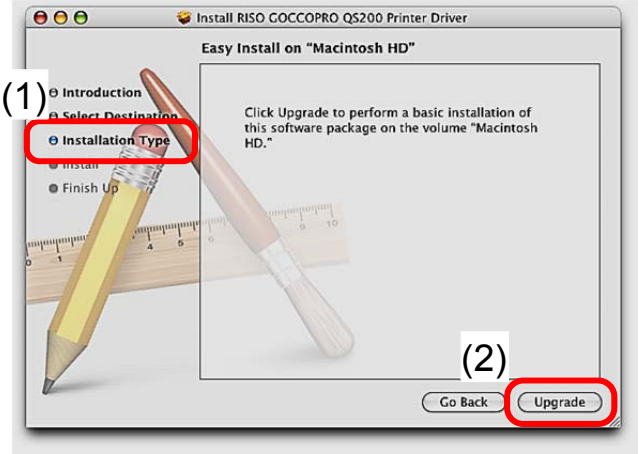
3 (1) [Introduction] dialog box appears.
(2) Click [Continue].



4 (1) [Select Destination] dialog box appears.
(2) Click [Continue].

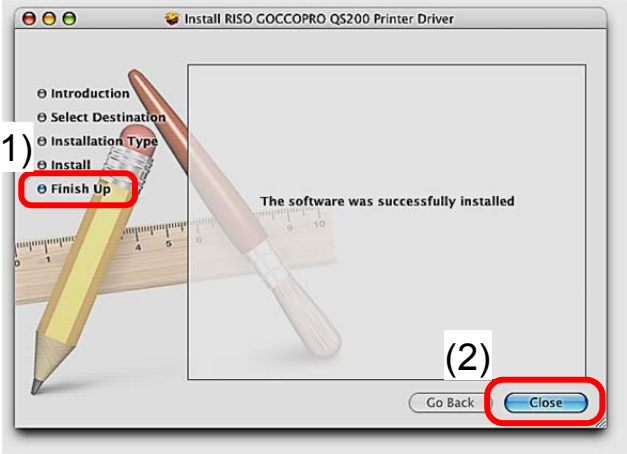


5 (1) [Installation Type] dialog box appears.
(2) Click [Upgrade].



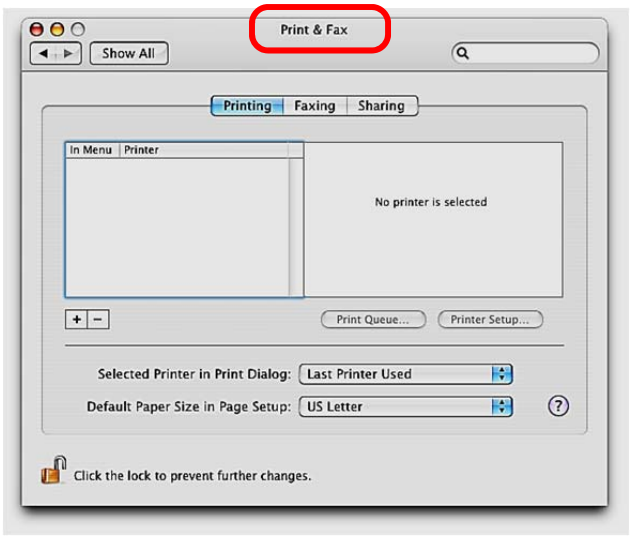
6 (1) [Authenticate] dialog box appears. Enter a name and a password.
(2) Click [OK].

7 (1) [Finish Up] dialog box appears, and the message “The software was successfully installed” is displayed on the dialog box.
(2) Click [Close].

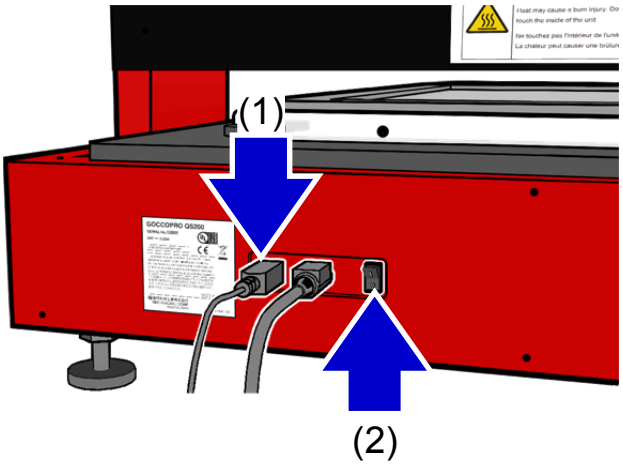


8 Open [System Preferences] dialog box, and double-click [Print & Fax].

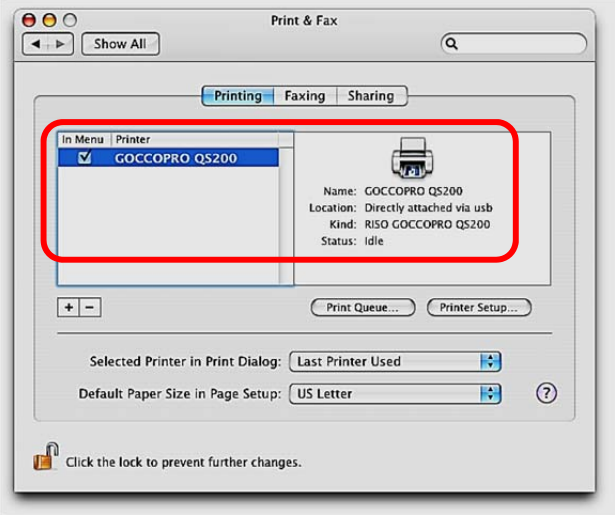
9 [Print & Fax] dialog box appears.



10 (1) Connect the USB cable between this machine and the computer.
(2) Turn on the power switch of the machine.



11 When the machine is recognized and the printer information of GOCCOPRO QS200 is displayed, the installation of printer driver is completed.



Registering Screen Frame Size [For Windows XP/Vista/7/8/8.1/10]

Important!

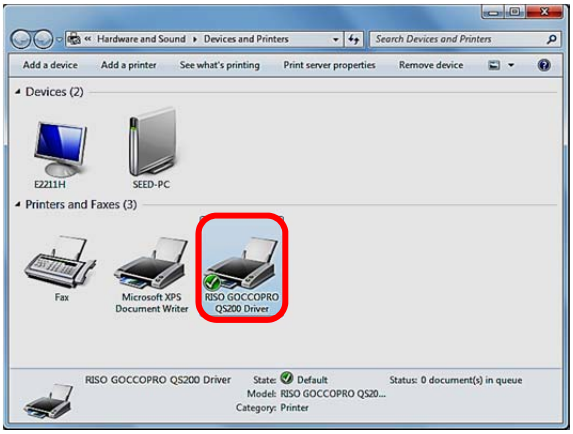
- You must register the size of “screen frame,” not of the image-making area.
- The width and length can be entered in 0.1 mm or 0.001 inch increments.
- You should correctly understand the relationship of the registered screen frame size, the image-making position, and the size of the image-making. Do not mix them up.
- Registered screen frame size may not be memorized properly due to user authentication. Please login as administrative user and register a new screen frame size properly.

Ref. “Precautions on Image-Making Position” page 19

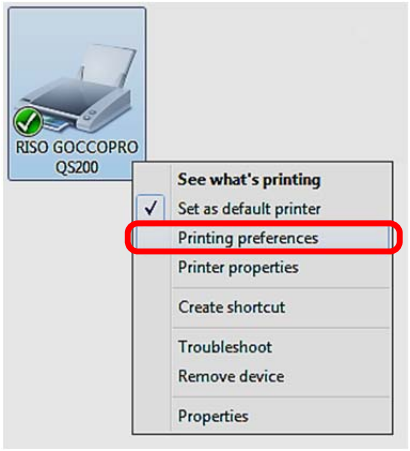
Note

- The screen frame size can be set in the following ranges.
  X direction: 260 to 780 mm
  : (10.23 to 30.71 inch)
  Y direction: 260 to 580 mm
  : (10.23 to 22.83 inch)
  *) Setting increment: 0.1 mm (0.001")
- Up to 30 screen frame sizes can be registered.
- The screen name to be entered can only consist of numbers, alphabetical letters, spaces, symbols, and Kana, Katakana, and Kanji characters, and must be maximum 32 bytes (mixed) in length., The characters of “, *, /, :, <, >, ?, \, and | cannot be used.

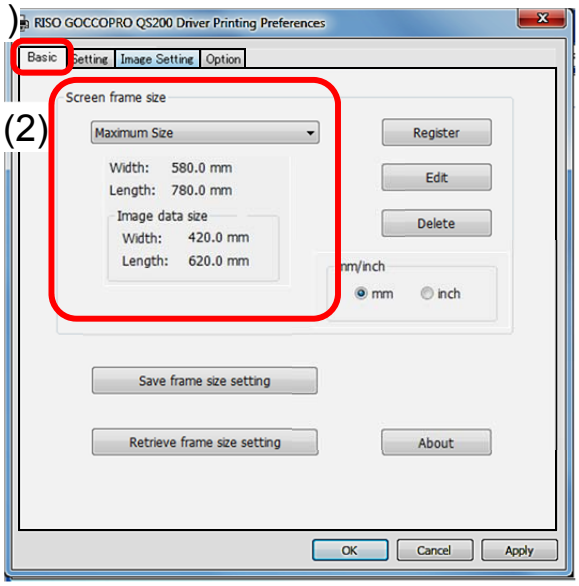
1 On [Devices and Printers] dialog box, double-click [RISO GOCCOPRO QS200 Driver] icon to open the properties of this printer.



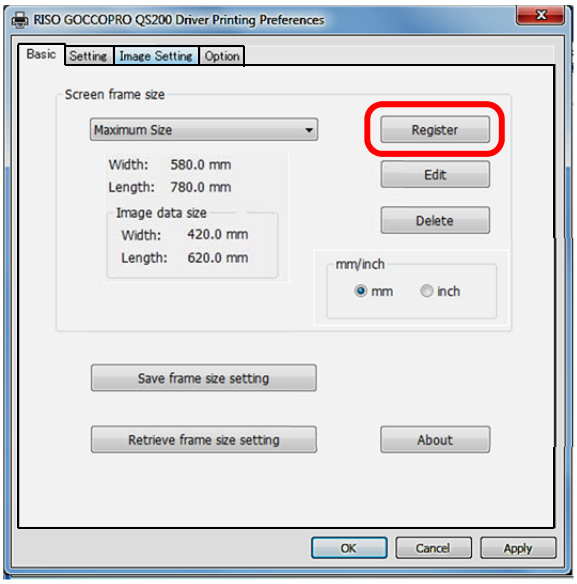
2 Click [Printing preferences].



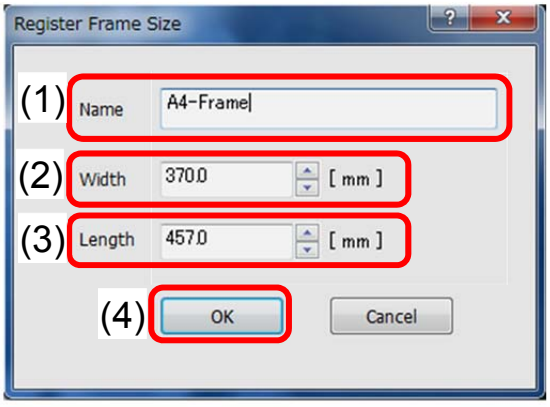
3 (1) [RISO GOCCOPRO QS200 Driver Printing Preferences] dialog box appears. Click the [Basic] tab, and edit and register the size of screen frame.
(2) The default setting after the installation of printer driver is “Maximum Size” only.



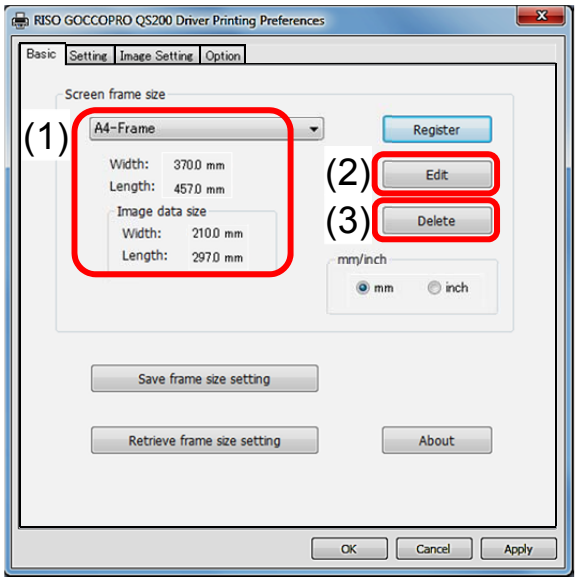
4 To register a new screen frame size, click [Register].



5 (1) Enter a name to be registered.
(2) Enter the outer width of the screen frame.
(3) Enter the outer length of the screen frame.
(4) Click [OK].



6 (1) The registered screen frame size is displayed in the pulldown menu.
(2) To change the size, click [Edit].
(3) To delete the size, click [Delete].



Registering Image-making Size [For Mac OS]

Important!

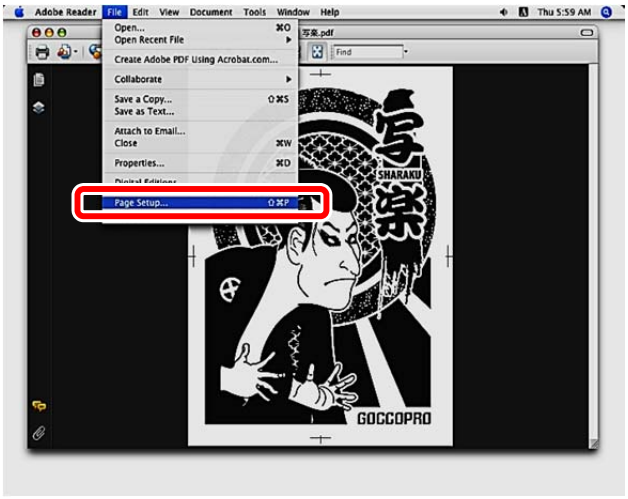
- You must register the page size as the “image-making area”. Not of the screen frame size.
- You should correctly understand the relationship of the registered screen frame size, the image-making position, and the size of the image-making. Do not mix them up.

Image-making size has to be 160mm or less then outer frame size in both witdth and height.

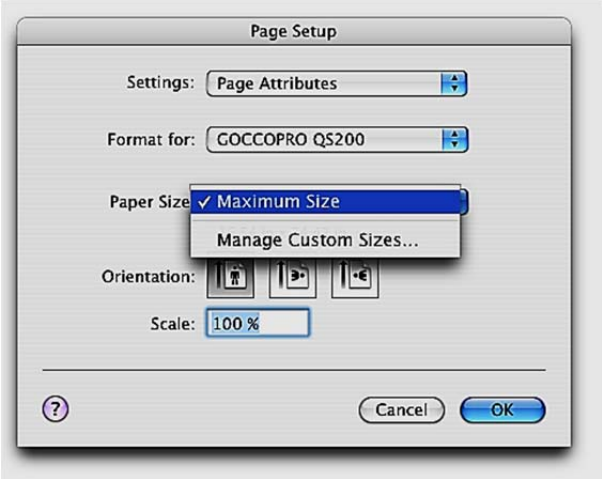
Ref. “Precautions on Image-Making Position” page 19

Note The registration of image-making size for Mac OS is implemented in application software. This section explains Adobe® Acrobat® Reader® as an example.
The operation procedure is about the same in other applications.

1 Click [File] on the menu bar, and select [Page Setup] from the pulldown menu.

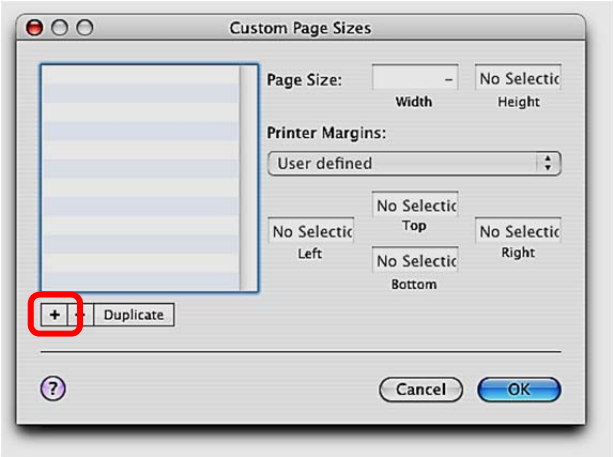


2 On [Page Setup] dialog box, the registered sizes of paper (image-making) are displayed in the pulldown menu of [Paper Size]. The default setting is “Maximum Size” (620×420 mm /24.41"×16.53") only.

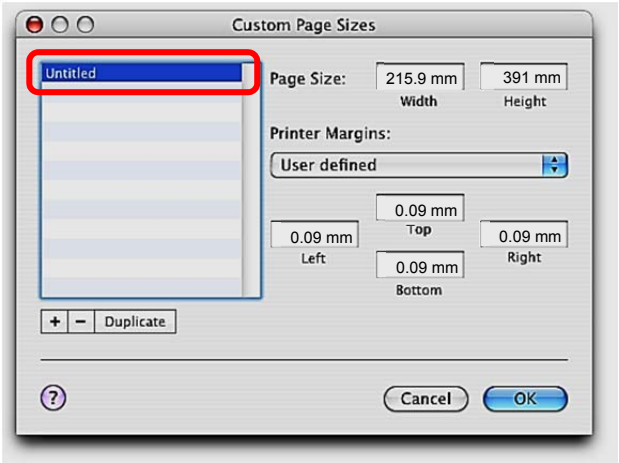


3 Click [Manage Custom Sizes] in the pulldown menu of [Paper Size].

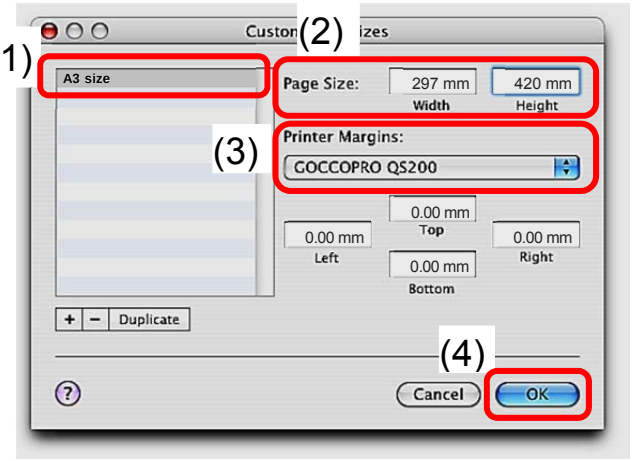
4 [Custom Page Sizes] dialog box appears. Click [+].



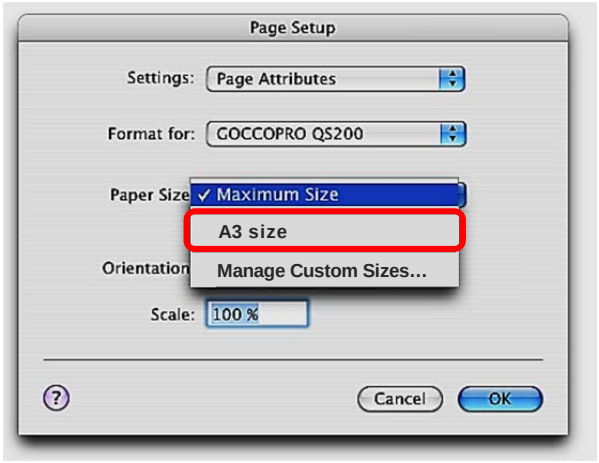
5 ”Untitled” is displayed in the list, and double-click it.



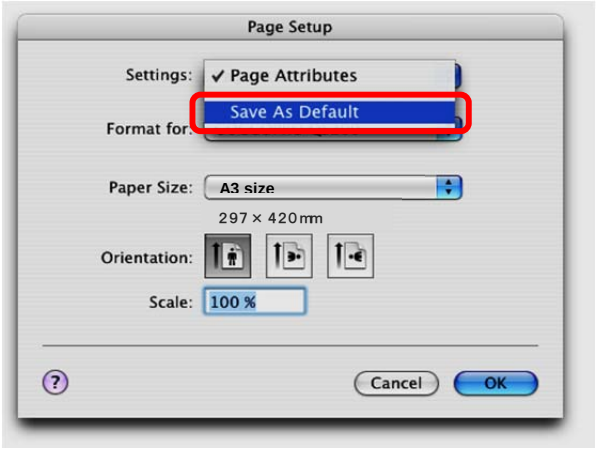
6 (1) Enter a name.
(2) In [Page Size] field, enter a width and a height of the image-making size in [Width] and [Height] field.
(3) Select “GOCCOPRO QS200” in the pulldown menu of [Printer Margins], and “0.00mm/0.00 in” is displayed in all margins.
(4) Click [OK].



7 The entered paper size is displayed on [Page Setup] dialog box.



8 Select “Save As Default” from the pulldown menu of [Settings], and the selections in the pulldown menu of [Format for] and Paper Size] are registered as default.



2

How to Make Image on Screen

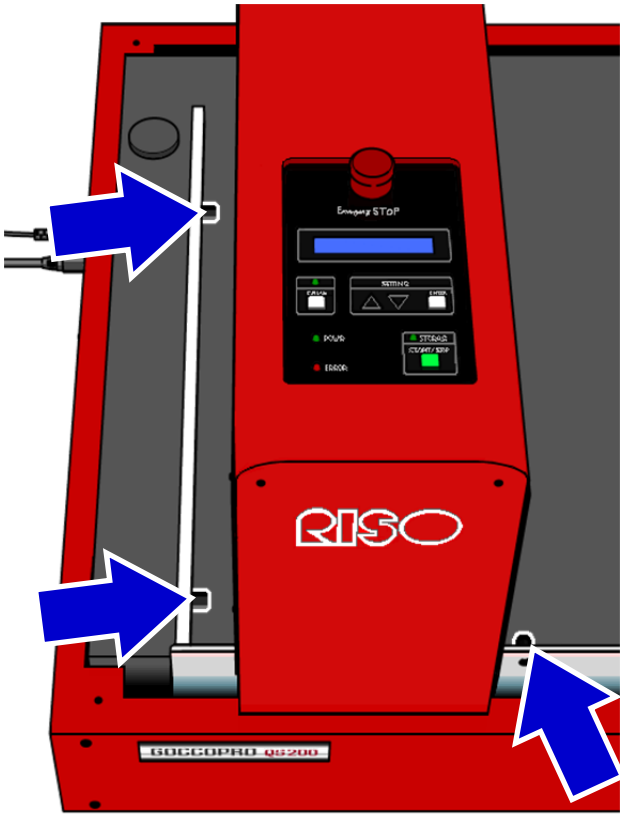
This chapter describes how to make a artwork image from PC to screen.

Create artwork data with PC in advance.

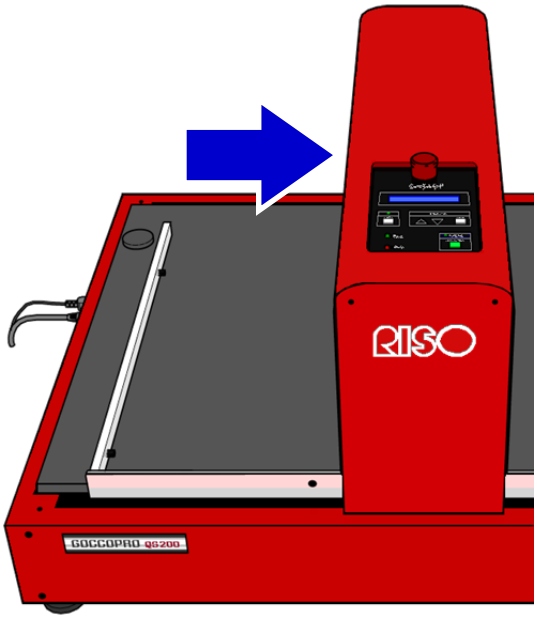
- Ref. Setting Screen Frame page 45
- Ref. Preparing Machine page 46
- Ref. Transmitting PC Artwork Data from the Computer page 47

1) Setting the Screen Frame

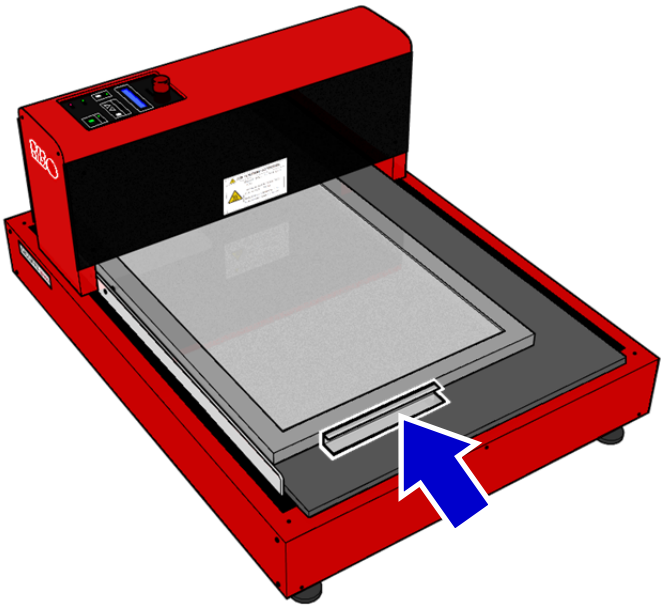
1 Position the screen frame against the three screen frame guides.



When it is hard to see the screen frame guides, move the Head Mount Unit by hand.
After the image-making operation starts, the unit automatically returns to its home position.

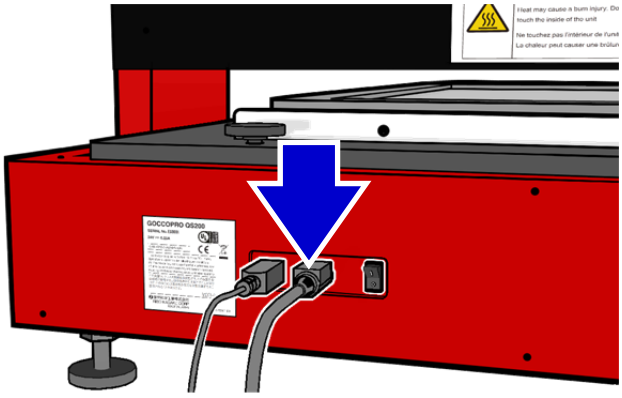


2 Hold the screen frame with the screen frame stopper to prevent displacement of the screen frame.

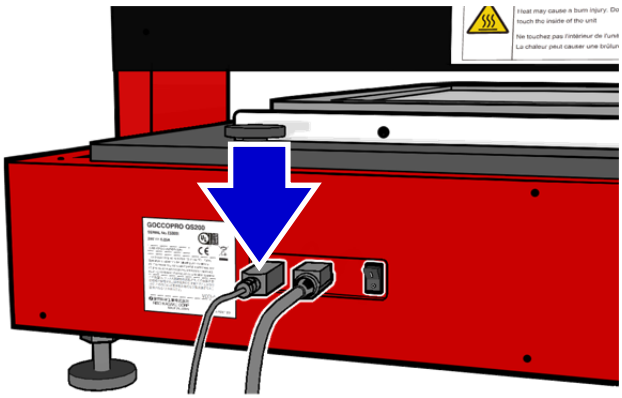


2) Preparing the Machine

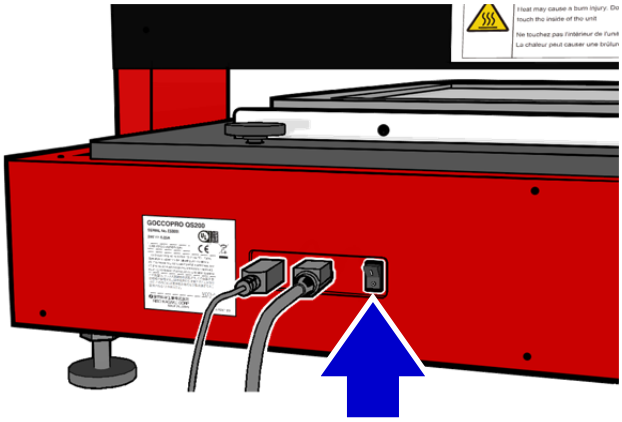
1 Connect the power cable to the machine.



2 Connect a USB cable to the machine.



3 Turn on the power switch of the machine.



3) Transmitting Artwork Data from the Computer

This section explains how to transmit the artwork data created on your computer to the machine. You can change settings such as image quality using the printer driver before transmitting the data.

Ref. "Details of Printer Driver Settings" page 51 *) Preferable initial adjustment

Windows XP/Vista/7/8/8.1/10

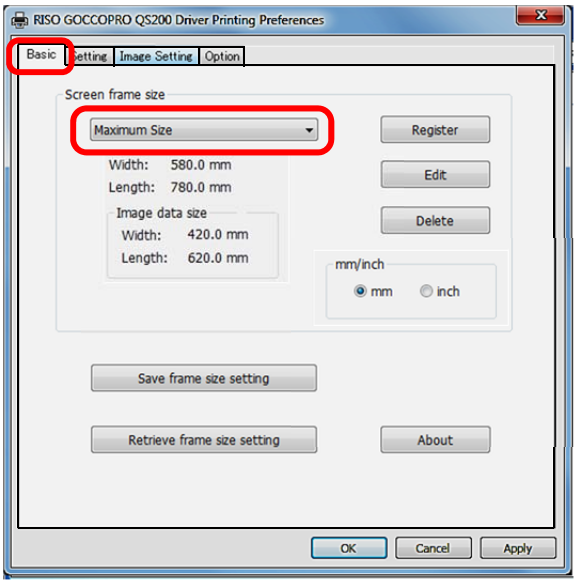
1 Create artwork data using an appropriate application on your computer.

2 Proceed to the printing procedure to display [Print] dialog box.

3 Select “RISO GOCCOPRO QS200 Driver” (name of this machine) in [Printer Name].
Installation Procedure: Select the printer name set on page 30

4 Click [Properties]

5 Set the image-making conditions.
(1) [Basic] tab:
Select the Screen frame size from the pulldown menu.



Note Since [Register], [Edit], and [Delete] are disabled during the printing procedure using application software, make the settings on [Devices and Printers] dialog box.

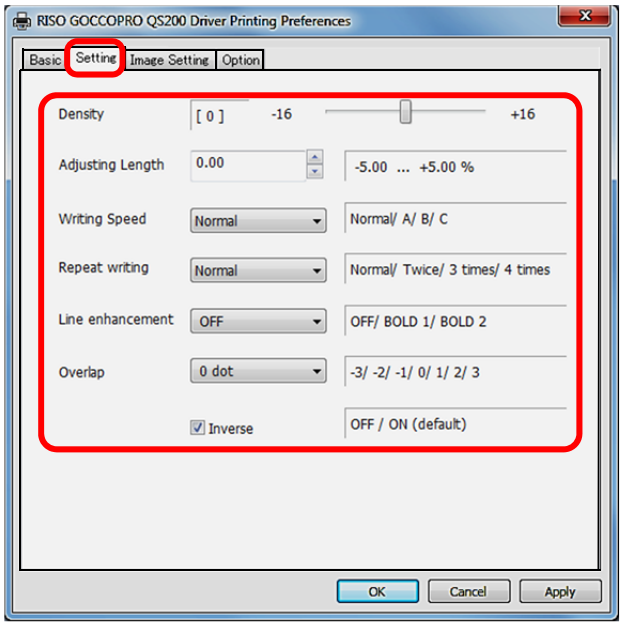
Ref. “Registering Screen Frame Size” page 40

Important!

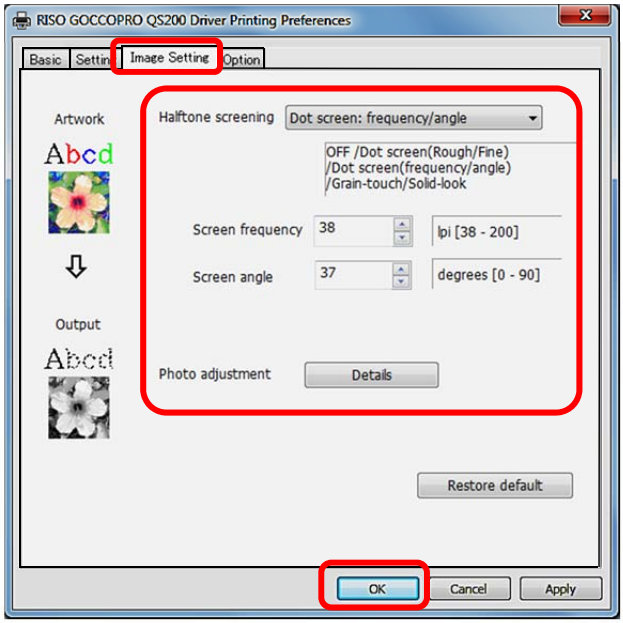
- Image-making size and the artwork size of editing data should be set to be at least 160 mm (80 mm × 2) shorter in both X and Y directions than the outer sizes of the screen frame.
  An improper size setting may damage the thermal print head by contact with the screen frame.
- When the machine receives multi-page artwork data, only the first page is transferred onto a screen, and the second and subsequence pages are not transferred. Please check the data carefully before transmitting it.
- Only after the previous image-making is completed, the next artwork data can be transferred.
  Make sure the current image-making has been completed and a new screen frame has been set before executing the transmission of the next artwork data.

Ref. "Details of Printer Driver Settings" page 51

(2) [Setting] tab:
Set the image-making conditions.



(3) [Image Setting] tab:
Set the image conditions.



When the settings have been made, click [OK].

6 When the dialog box returns to [Print] dialog box, click [Print].
The artwork data is transmitted from your computer to the machine.

Note

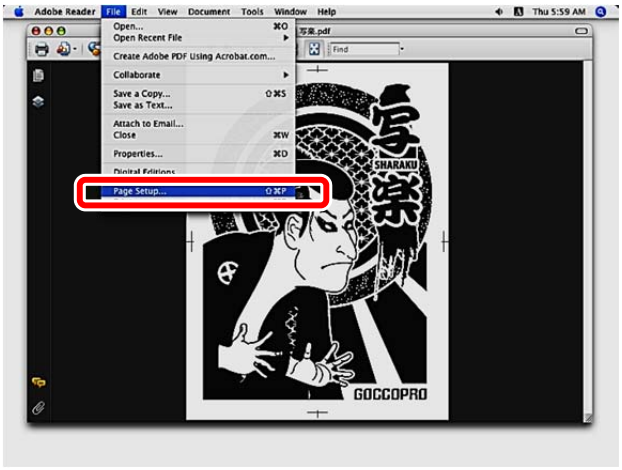
The data that you output in the last job can be reproduced. To change the image-making conditions, switch to Setting Mode with [▲]and [▼] keys on the operation panel of this machine. If you turn off the machine or execute Reset, the image-making data will be image-making data will be lost.

Ref. “Offline Mode Operations” page 66

Mac OS

Note The function of the printer driver for Mac OS is implemented in application software. This section explains Adobe® Acrobat® Reader® as an example. The operation procedure is about the same in other applications.

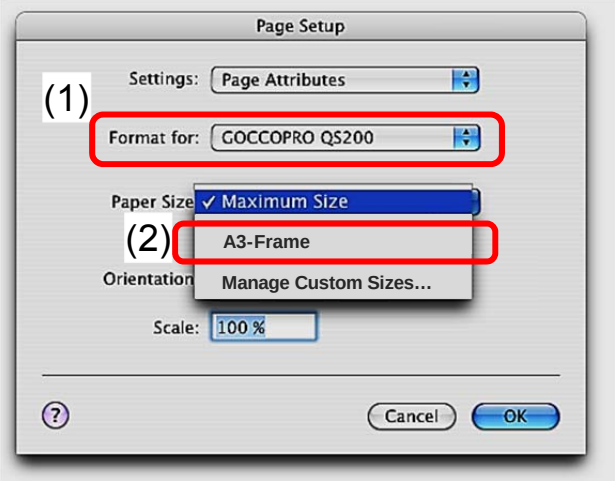
1 Click [File] on the menu bar, and select [Page Setup] in the pulldown menu.



2 [Page Setup] dialog box appears.

(1) Select “GOCCOPRO QS200” in [Format for].

(2) Select a paper size to fit the set screen frame in [Paper Size].

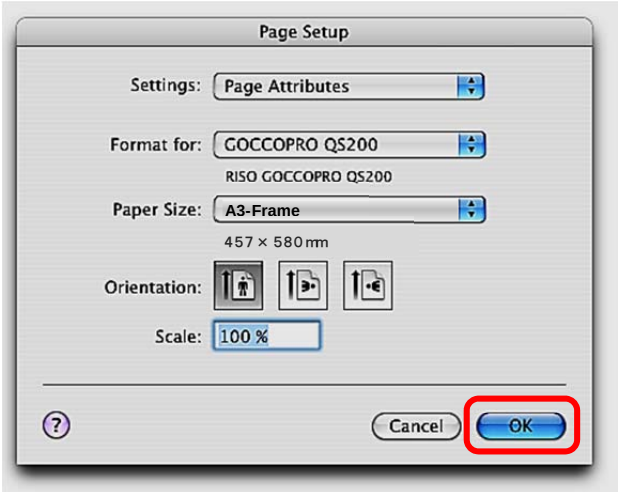


Important!

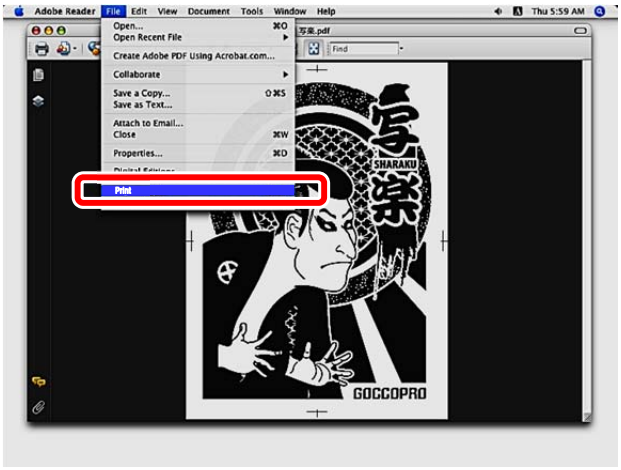
- Image-making size and the artwork size of editing data should be set to be at least 160 mm (80 mm × 2) shorter in both X and Y directions than the outer sizes of the screen frame.
  An improper size setting may damage the thermal print head by contact with the screen frame.
- When the machine receives multi-page artwork data, only the first page is transferred onto a screen, and the second and subsequence pages are not transferred. Please check the data carefully before transmitting it.
- Only after the previous image-making is completed, the next artwork data can be transferred.
  Make sure the current Image-making has been completed and a new screen frame has been set before executing the transmission of the next artwork data.

Ref. "Details of Printer Driver Settings" page 51

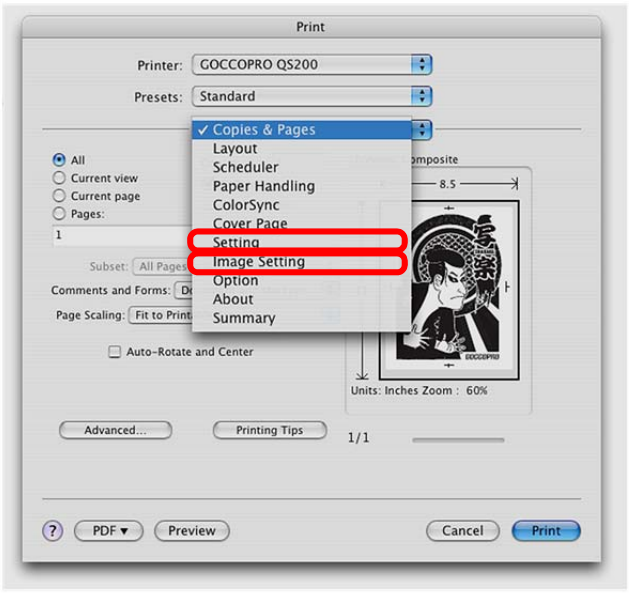
3 Click [OK].



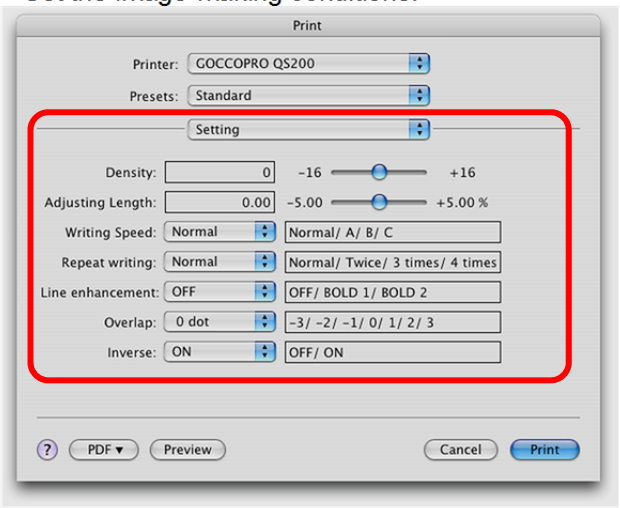
4 Click [File] on the menu bar of the application software, and select [Print] from the pulldown menu.



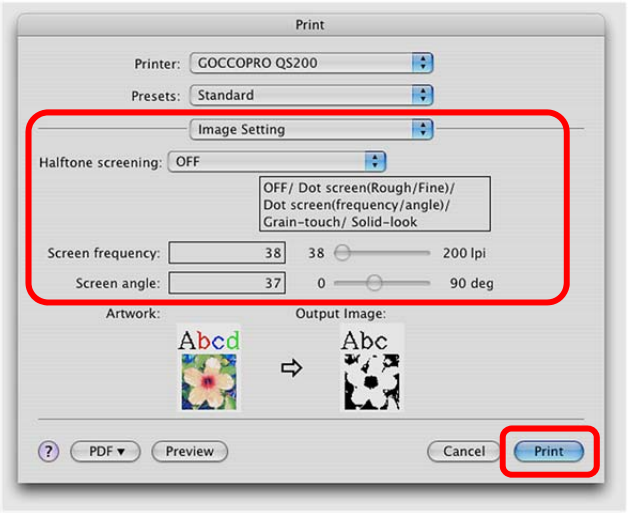
5 [Print] dialog box appears.
Click [Copies & Pages], and select [Setting] or [Image Setting] from the pulldown menu.



(1) [Setting] screen is displayed
Set the image-making conditions.



(2) [Image Setting] screen is displayed
Set the image conditions.



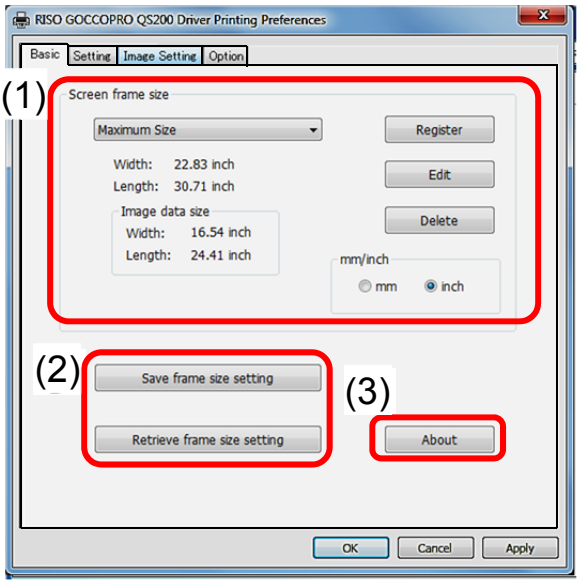
6 Click [Print].
The artwork data is transmitted from your computer to the machine.

Note The data that you output in the last job can be reproduced. To change the image-making conditions, switch to Setting Mode with [▲] and [▼] keys on the operation panel of this machine. If you turn off the power switch of the machine or execute Reset, the image-making data will be lost.

Ref. "Offline Mode Operations" page 66

Details of Printer Driver Settings Windows XP/Vista/7/8/8.1/10

• [Basic] tab



(1) Image data size

Select the image-making size that you registered in advance.

Ref. "Registering Screen Frame Size" page 40

(2) Save/Retrieve Screen frame size setting

This is the function of saving or retrieving the settings made on [Setting] tab in or from a backup file.

Data save/retrieval is made on the dialog box showing the properties of "RISO GOCCOPRO QS200 Driver" (start from [Devices and Printers] dialog box).

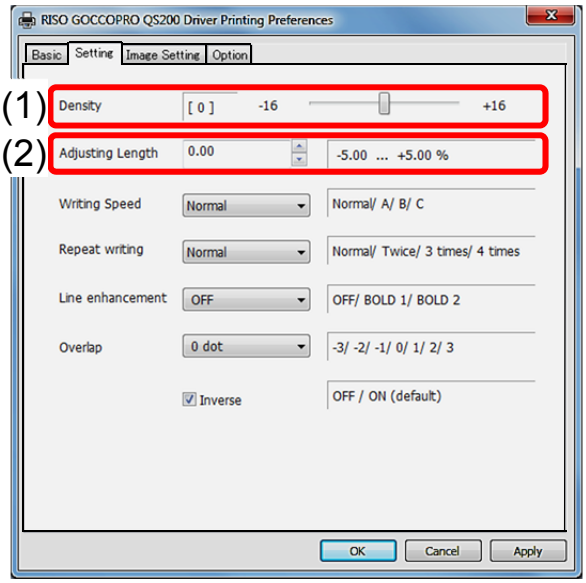
These operations cannot be made from the print settings of the application software.

.

(3) About

Displays the version, product name, and copyright information of this printer driver.

• [Setting] tab



(1) Density

This is to increase or decrease the thermal heat power by dragging the slide bar or entering a numeric value.

Note Move the slide bar to plus direction to enhance image quality of solid areas or move to minus direction when characters are too thick.

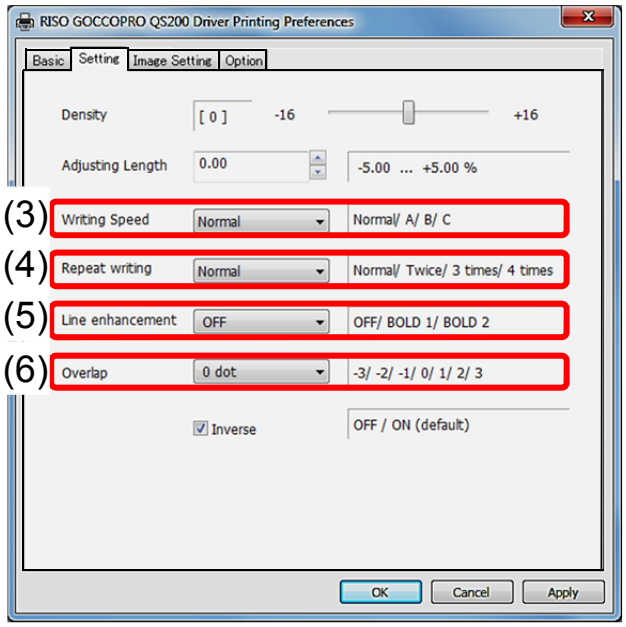
- Increase/decrease step: 1
- Setting range: -16 to +16
- Default: 0

(2) Adjusting Length

Adjust the X-direction length of an image (expansion/contraction) by clicking [▲] or [▼] (spin button) or entering a numeric value.

- Increase/decrease step: 0.01 [%]
- Setting range: -5.0 to +5.0 [%]
- Default: 0 [%]

Note The expansion rate of a master varies according to its printing rate.



(3) Writing（Image-Making） Speed

Select an X-direction wiring speed from the pulldown menu.
The length of an image does not change.

- Setting range: 4 levels
  1) Normal (30 mm/s)
  2) A (35 mm/s)
  3) B (25 mm/s)
  4) C (20 mm/s)
- Default: Normal (30 mm/s)

Note Select “A” (fast) to enhance image quality of solid areas. Select “B” or “C” (slow) when fine lines or characters are missing or blur and not correctly transferred onto a screen.

(4) Repeat Writing（Image-Making）

This is the function of repeatedly transferring the same artwork data onto a screen under the same image-making conditions.
This is to increase perforation rate.
Select the number of times Image-making is repeated from the pulldown menu.

- Setting range: 4 levels
  1) Normal (0 time)
  2) Twice
  3) 3 times
  4) 4 times
- Default: Normal (0 time)

In the default setting, image-making is carried out only once, not repeatedly.

(5) Line enhancement

This is the function of enhancing the white faint characters and lines in black solid area.
Select a desired setting in the pulldown menu.

- Setting range: 3 levels
  1) Disabled (OFF)
  2) Enhancement 1 (BOLD 1)
  3) Enhancement 2 (BOLD 2)
- Default: Disabled (OFF)

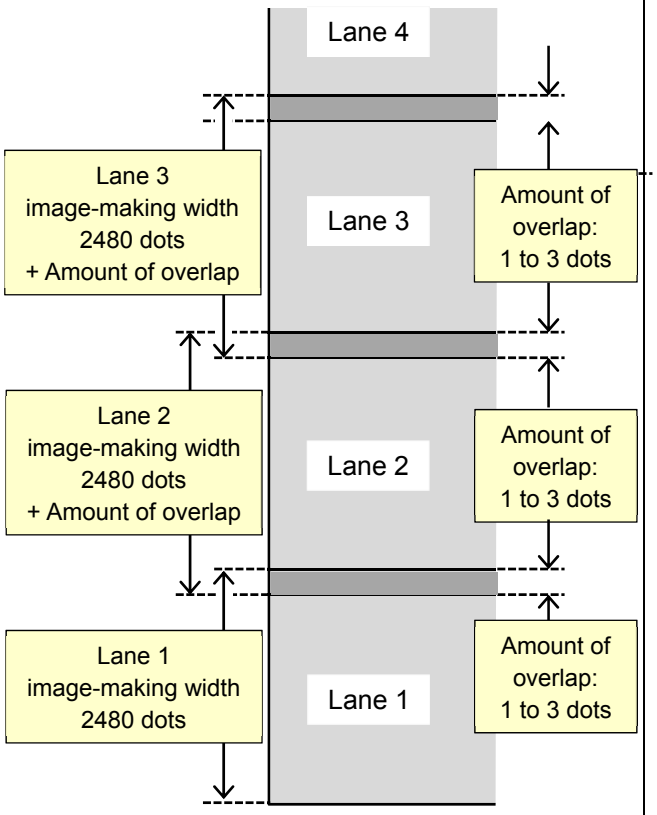
The compensation of Enhancement 1 (BOLD 1) is too much. In Enhancement 2 (BOLD 2) the compensation of white faint lines are further more enhanced.

(6) Overlap

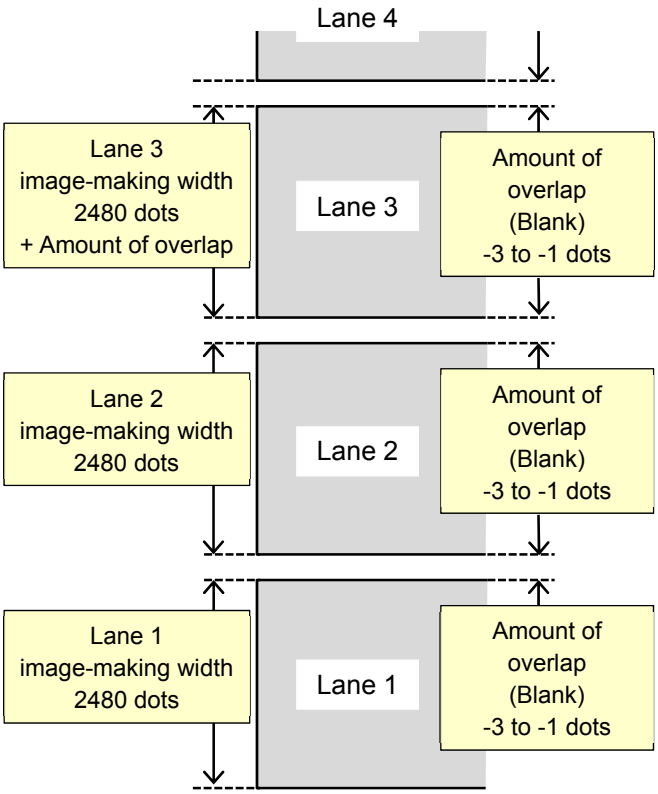
This is the function of overlapping images in the adjacent lanes when an imaged screen is produced.
When the set amount of overlap is a minus value, this field is blank.
Select a desired setting in the pulldown menu.

- Increase/decrease step: 1 dot
- Setting range: -3 to +3 dots
- Default: 0 dot

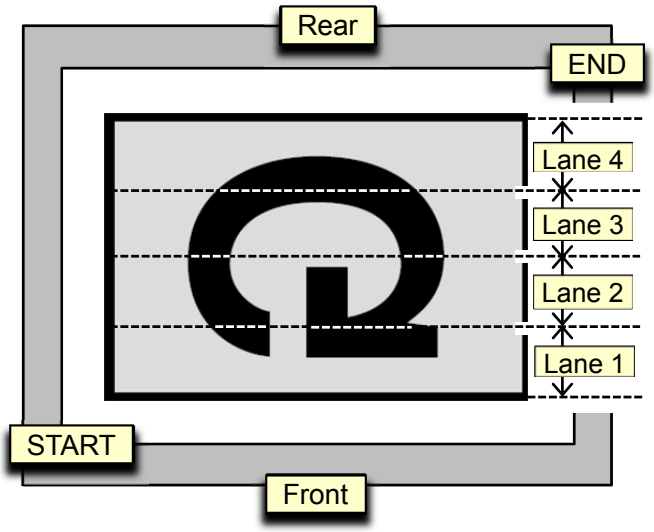
*) When the amount of overlap is +1 to 3

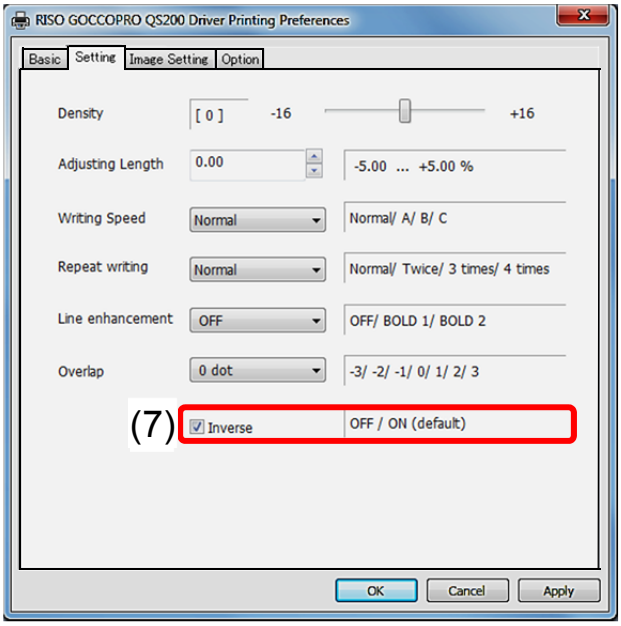


*) When the amount of overlap is -3 to -1



Note The figure below shows the positions of the four lanes. The width of each lane is about 105 mm.
The size of the image itself does not change by changing the amount of overlap.



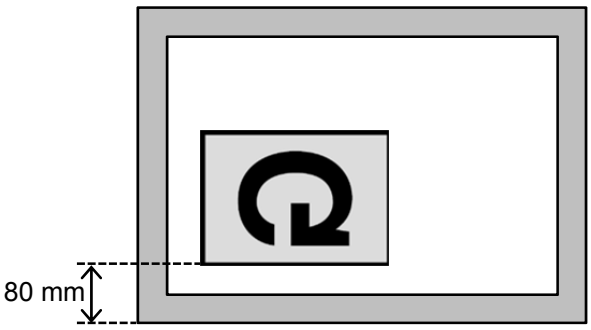


(7) Inverse

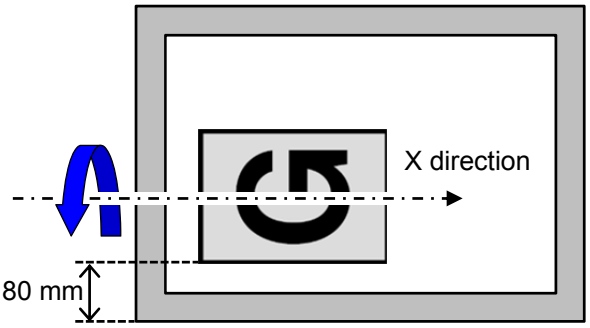
This is the function of flipping an image horizontally (mirror inversion).
The X-direction center of an image is used as an inversion axis.
The home position is not shifted.

- Setting range: 2 levels
  1) OFF (Without inverse)
  2) ON (With inverse)
- Default: ON (With inverse)

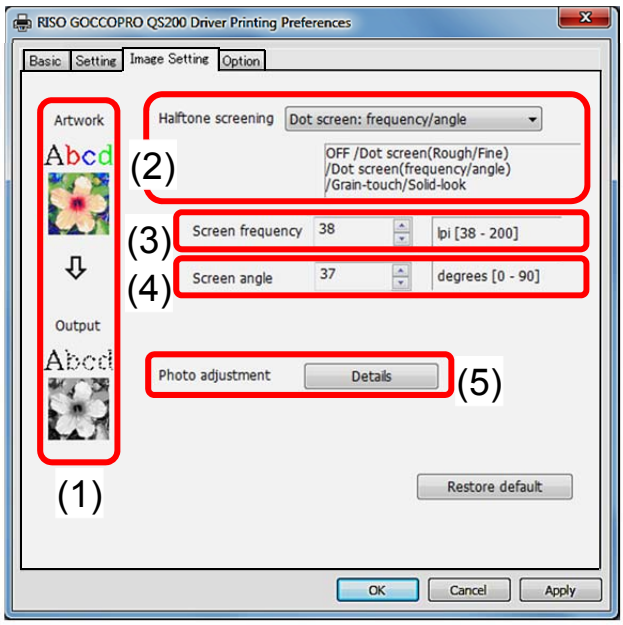
*) When “ON” (With inverse) is selected



*) When “OFF” (Without inverse) is selected



• [Image Setting] tab



(1) Print image

A simplified image is displayed to show how the selected setting will be reflected on an imaged screen.

(2) Halftone screening

This is the function of applying halftone screening.
Select a desired setting in the pulldown menu.

- Setting range: 6 levels
  1) OFF
  2) Dot screen: Rough
  3) Dot screen: Fine
  4) Dot screen: frequency/angle
  5) Grain-touch
  6) Solid-look
- Default:OFF

(3) Screen frequency

When [Dot screen: frequency/angle] is selected for [Halftone screening],the fineness of dots can be set in the lines per inch.
Indicates how many dots are arranged in one inch / 25.4 mm.

- Unit: line
- Setting range: 38 to 200 lines
- Default: 38 lines

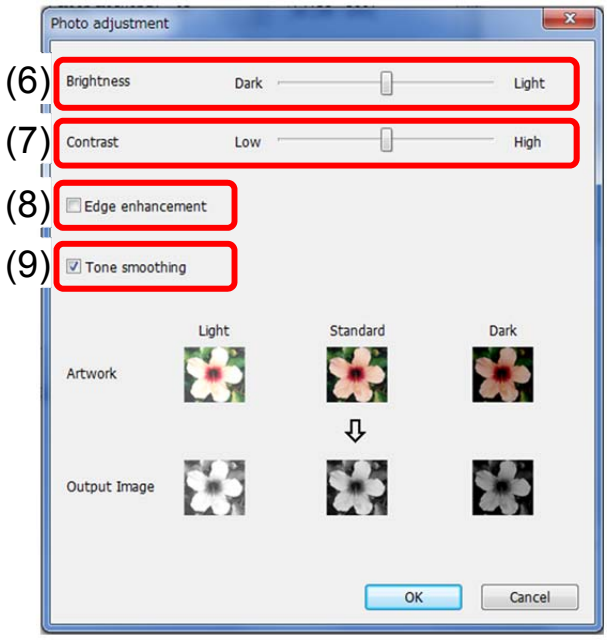
(4) Screen angle

When [Dot screen: frequency/angle] is selected for [Halftone screening],the angle at which dots are arranged can be set.
Adjusted if moire (interference pattern) occurs.

- Unit: degree
- Setting range: 0 to 90 degrees
- Default: 37 degrees

(5) Photo adjustment

When [Dot screen: frequency/angle] or [Grain-touch] is selected for [Halftone screening], Clicking [Details] displays the [Photo adjustment] dialog box.



(6) Brightness

The brightness of photo image can be adjusted in 7 levels.

(7) Contrast:

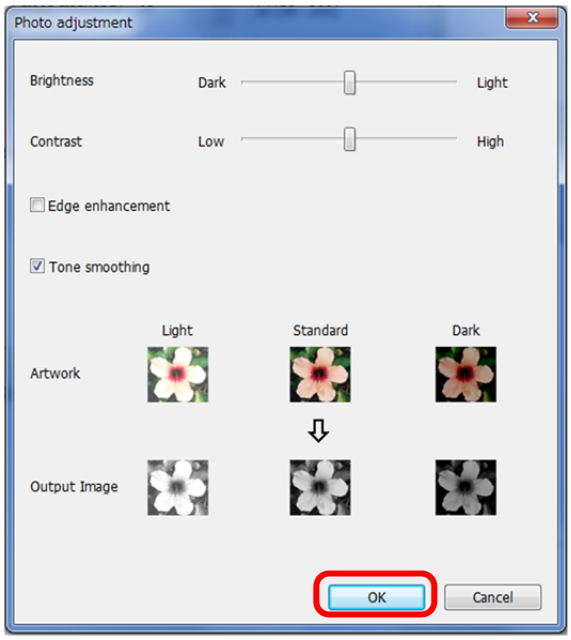
The contrast of overall image can be adjusted in 7 levels.

(8) Edge enhancement:

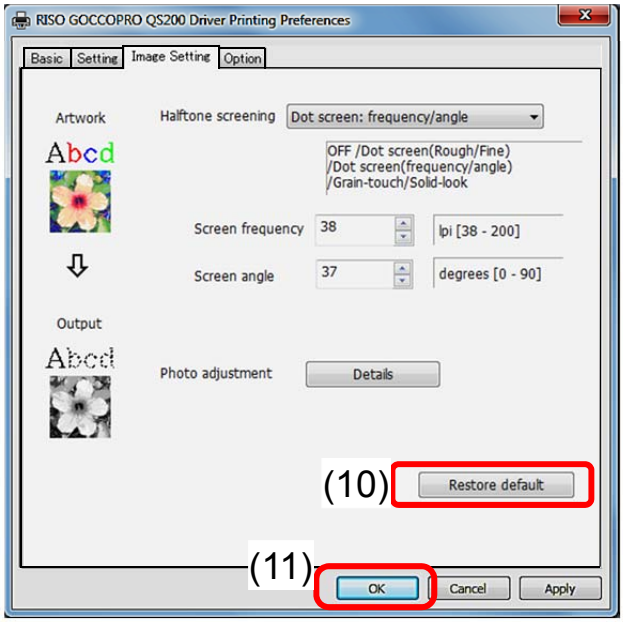
When [Dot screen: frequency/angle] is selected for [Halftone screening],the check mark can be placed in the check box.
edge enhancement is applied to the image to accent contours.

(9) Tone smoothing:

When [Dot screen: frequency/angle] is selected for [Halftone screening], the tonal expressions used in screen-covered processing are smooth.



When the photo adjustment settings have been made, click [OK].
Returns to [Image Setting] tab.



(10) Restore default:

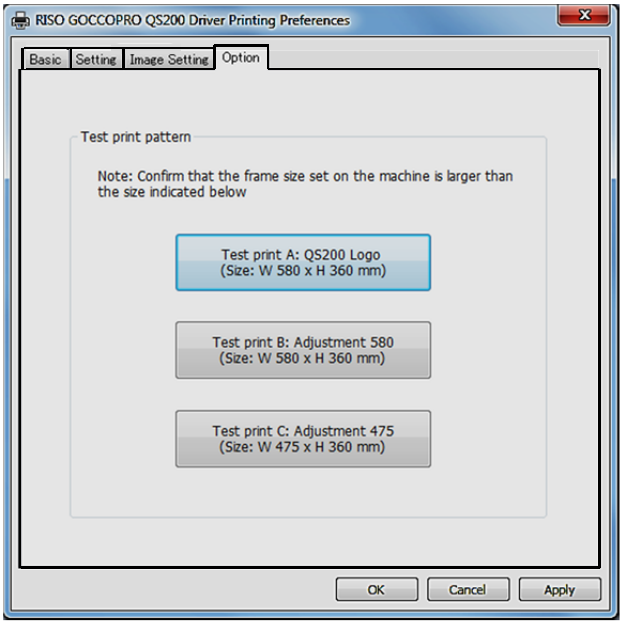
Returns all settings to the default setting.

(11) Restore default:

When the all settings have been made, click [OK].

.

• [Option] tab



Test pattern image-making

This is the function of making a screen of driver's test pattern.

The images are different from those produced in Test

Mode which is one of the Offline Modes of this machine.

Ref. "Offline Mode Operations" page 66

Important!

In test pattern image-making, the image-making size is specified regardless of the size of the screen frame.

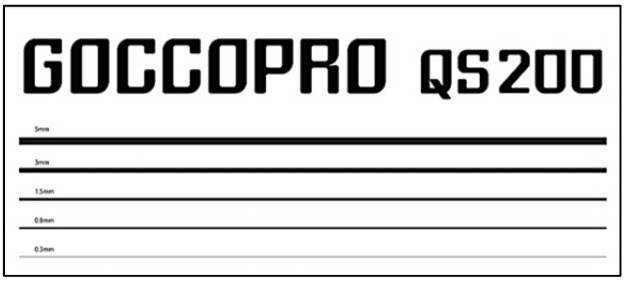
Confirm that the frame size set on the machine is larger than the size indicated below. If you put wrong or smaller size of screen frame, it may damage the thermal print head by contact the screen frame.

Ref. "Image-Making Area" page 20

1) Test print A: QS200 Logo

Frame size: W 580 x H 360 mm

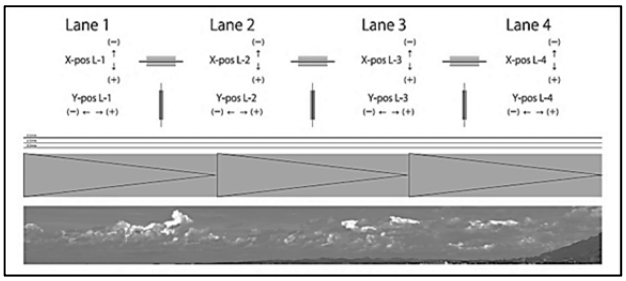
(Artwork data size: W 420 x H 200 mm)



2) Test print B: Adjustment 580

Frame size: W 580 x H 360 mm

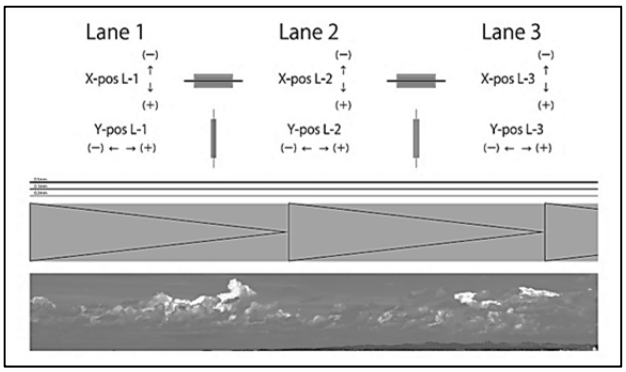
(Artwork data size: W 420 x H 200 mm)



3) Test print C: Adjustment 475

Frame size: W 475 x H 360 mm

(Artwork data size: W 315 x H 200 mm)

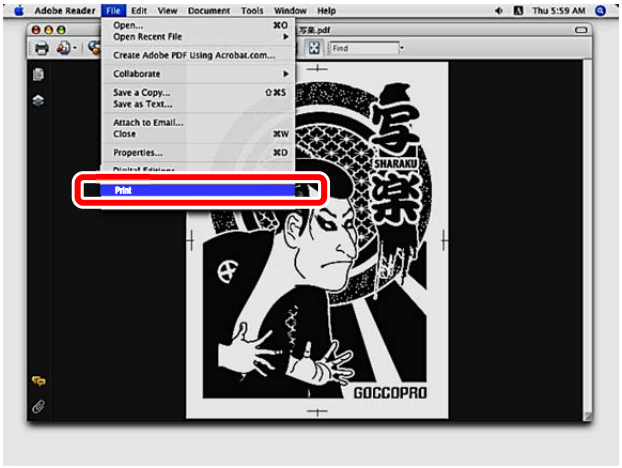


Mac OS

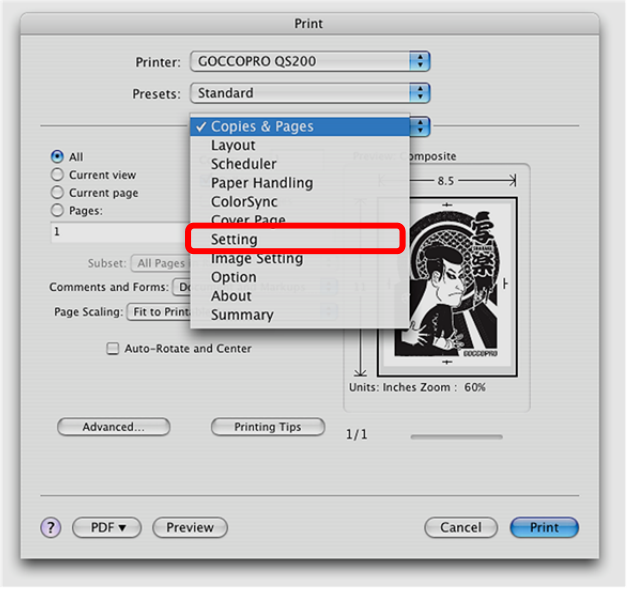
Note The function of the printer driver for Mac OS is implemented in application software. This section explains Adobe® Acrobat® Reader® as an example.
The operation procedure is about the same in other applications.

• Setting

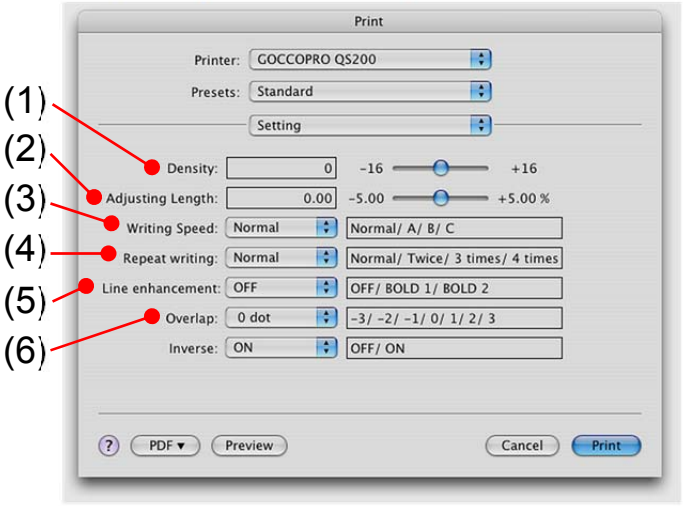
1 Click [File] on the menu bar of the application software, and select [Print] from the pulldown menu.



2 [Print] dialog box appears.
Click [Copies & Pages], and select [Setting] from the pulldown menu.



3 The [Setting] screen is displayed



(1) Density

This is to increase or decrease the thermal heat power by dragging the slide bar or entering a numeric value.

Note Move the slide bar to plus direction to enhance image quality of solid areas or move to minus direction when characters are too thick.

- Increase/decrease step: 1
- Setting range: -16 to +16
- Default: 0

(2) Adjusting Length

Adjust the X-direction length of an image (expansion/contraction) by dragging the slide bar or entering a numeric value.

- Increase/decrease step: 0.01 [%]
- Setting range: -5.0 to +5.0 [%]
- Default: 0 [%]

Note The expansion rate of a master varies according to its printing rate.

(3) Writing（Image-Making） Speed

Select an X-direction wiring speed from the pulldown menu.
The length of an image does not change.

- Setting range: 4 levels
  1) Normal (30 mm/s)
  2) A (35 mm/s)
  3) B (25 mm/s)
  4) C (20 mm/s)
- Default: Normal (30 mm/s)

Note Select “A” (fast) to enhance image quality of solid areas. Select “B” or “C” (slow) when fine lines or characters are missing or blur and not correctly transferred onto a screen.

(4) Repeat Writing（Image-Making）

This is the function of repeatedly transferring the same Artwork data onto a screen under the same Image-making conditions.
Select the number of times Image-making is repeated from the pulldown menu.

- Setting range: 4 levels
  1) Normal (0 time)
  2) Twice
  3) 3 times
  4) 4 times
- Default: Normal (0 time)

In the default setting, Image-making is carried out only once, not repeatedly.

(5) Line enhancement

This is the function of enhancing the white faint characters and lines in black solid area.
Select a desired setting in the pulldown menu.

- Setting range: 3 levels
  1) Disabled (OFF)
  2) Enhancement 1 (BOLD 1)
  3) Enhancement 2 (BOLD 2)
- Default: Disabled (OFF)

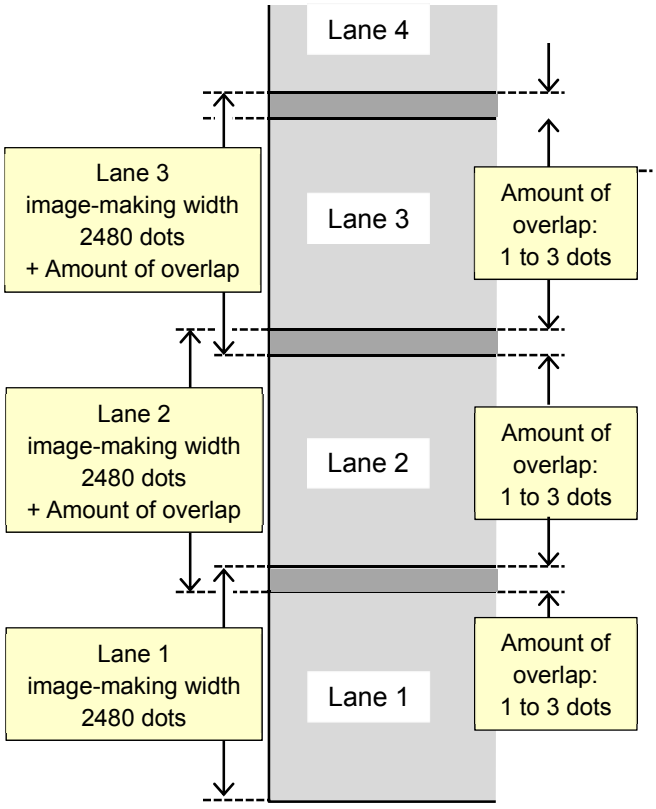
The compensation of Enhancement 1 (BOLD 1) is too much. In Enhancement 2 (BOLD 2) the compensation of white faint lines are further more enhanced.

(6) Overlap

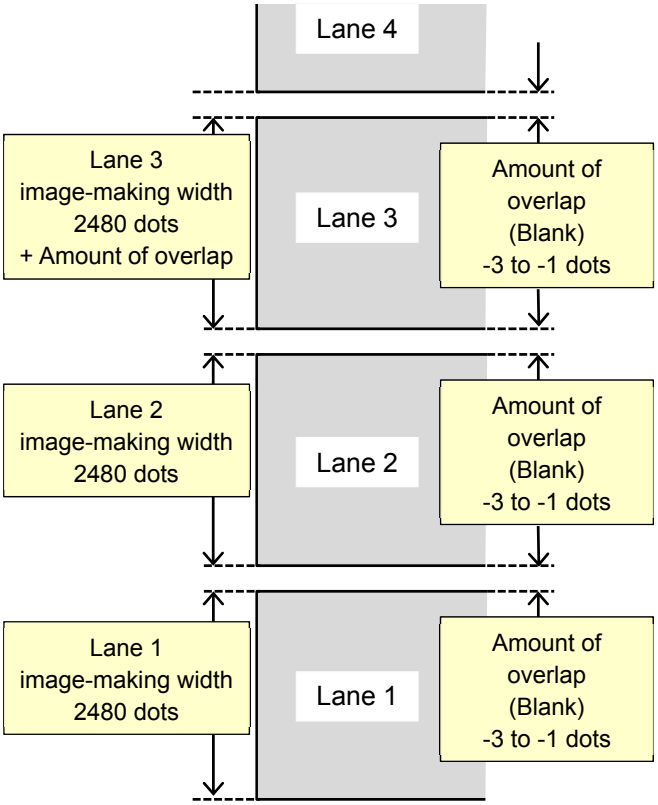
This is the function of overlapping images in the adjacent lanes when an imaged screen is produced.
When the set amount of overlap is a minus value, this field is blank.
Select a desired setting in the pulldown menu.

- Increase/decrease step: 1 dot
- Setting range: -3 to +3 dots
- Default: 0 dot

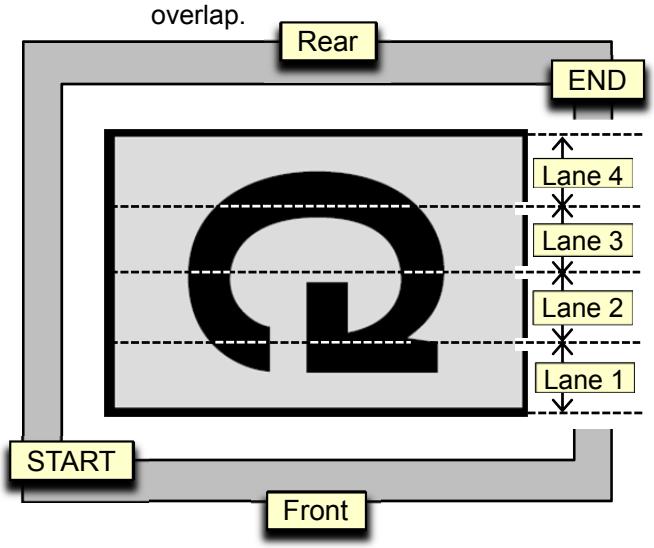
*) When the amount of overlap is +1 to 3

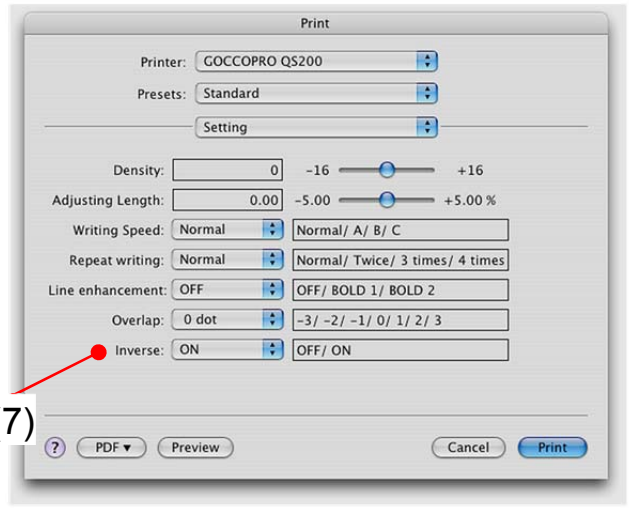


*) When the amount of overlap is -3 to -1



Note The figure below shows the positions of the four lanes. The width of each lane is about 105 mm.
The size of the image itself does not change by changing the amount of overlap.



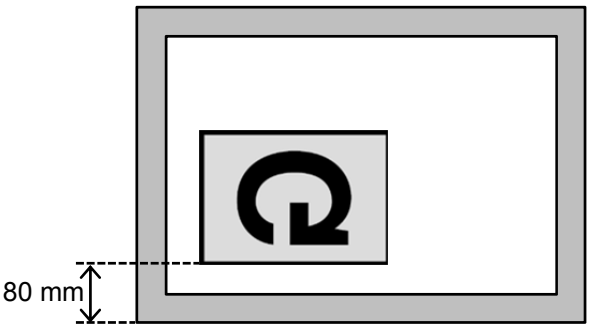


(7) Inverse

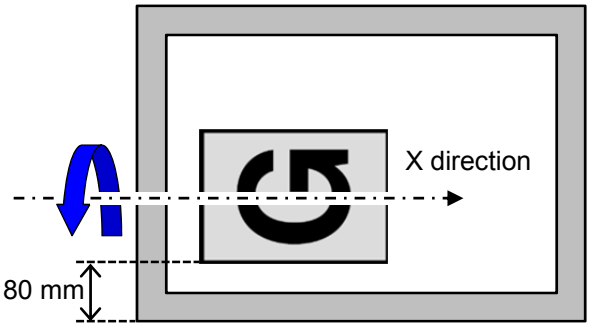
This is the function of flipping an image horizontally (mirror inversion).
The X-direction center of an image is used as an inversion axis.
The home position is not shifted.

- Setting range: 2 levels
  1) OFF (Without inverse)
  2) ON (With inverse)
- Default: ON (With inverse)

*) When “ON” (With inverse) is selected

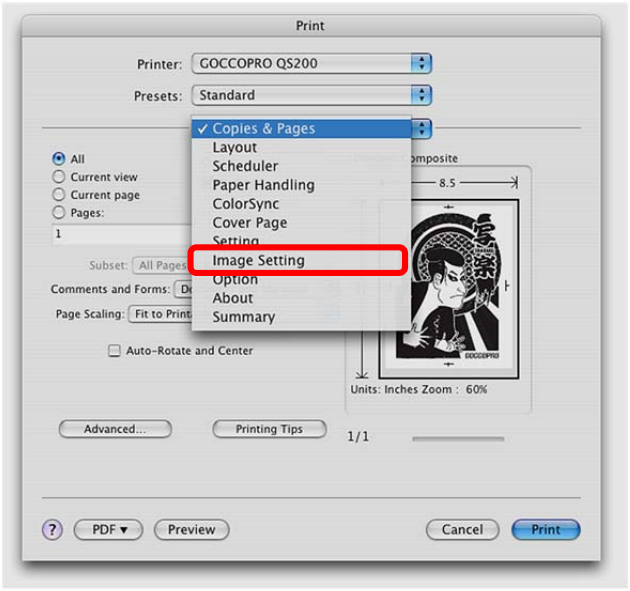


*) When “OFF” (Without inverse) is selected

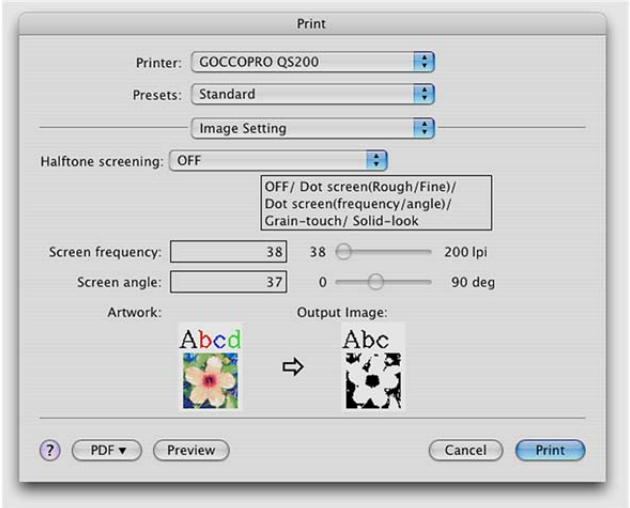


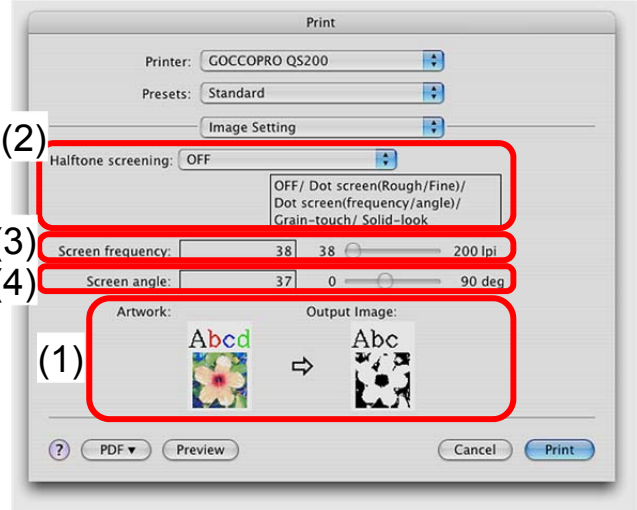
● Image Setting

1 Click [Copies & Pages] on [Print] dialog box, and select [Image Setting] from the pulldown menu.



2 [Image Setting] screen is displayed.





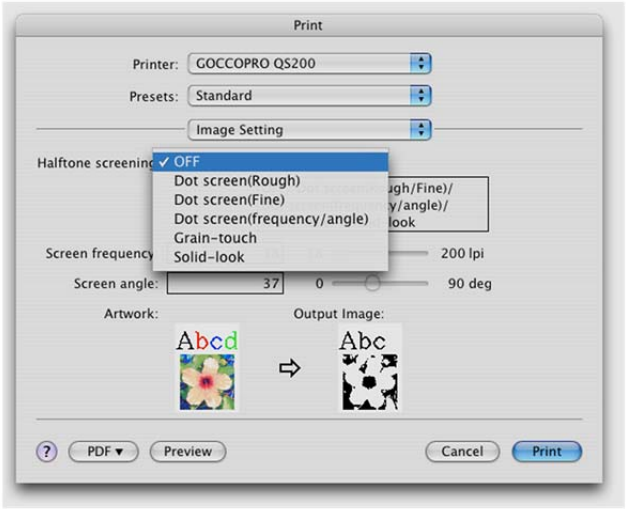
(1) Print image

A simplified image is displayed to show how the selected setting will be reflectedon an imaged screen.

(2) Halftone screening

This is the function of applying halftone screening.

Select a desired setting in the pulldown menu.



- Setting range: 6 levels
  - 1) OFF
  - 2) Dot screen: Rough
  - 3) Dot screen: Fine
  - 4) Dot screen: frequency/angle
  - 5) Grain-touch
  - 6) Solid-look
- Default:OFF

(3) Screen frequency

When [Dot screen: frequency/angle] is selected for [Halftone screening],the fineness of dots can be set in the lines per inch.

Indicates how many dots are arranged in one inch / 25.4 mm.

- Unit: line
- Setting range: 38 to 200 lines
- Default: 38 lines

(4) Screen angle

When [Dot screen: frequency/angle] is selected for [Halftone screening],the angle at which dots are arranged can be set.

Adjusted if moire (interference pattern) occurs.

- Unit: degree
- Setting range: 0 to 90 degrees
- Default: 37 degrees

● Option (Test pattern image-making)

This is the function of making a screen of driver's test pattern.
The images differ from those produced in Test Mode which is one of the Offline Modes of this printer machine.

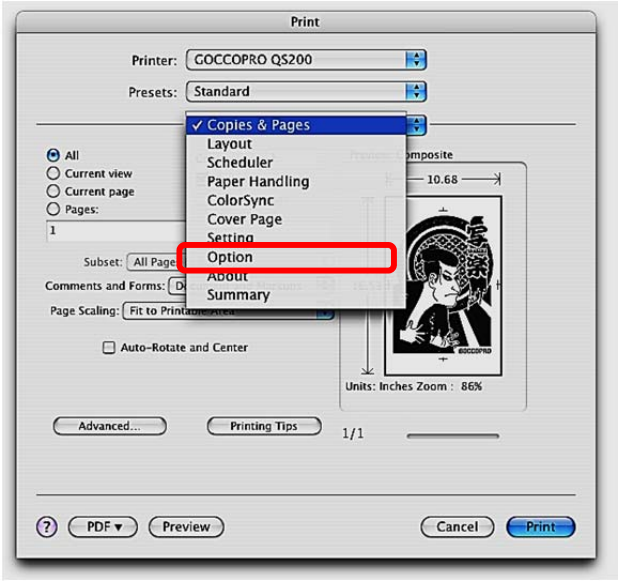
Ref. "Offline Mode Operations" page 66

Important!

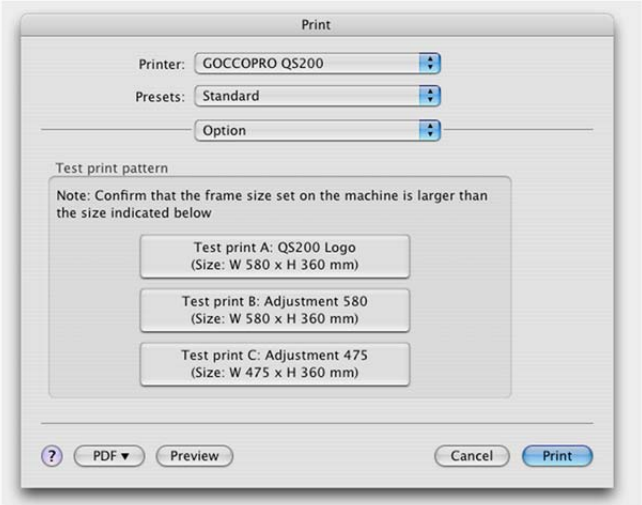
In test pattern image-making, the image-making size is specified regardless of the size of the screen frame.
Confirm that the frame size set on the machine is larger than the size indicated below. If you put wrong or smaller size of screen frame, it may damage the thermal print head by contact the screen frame.

Ref. "Image-Making Area" page 20

Click [Copies & Pages] on [Print] dialog box, and select [Option] in the pulldown menu.

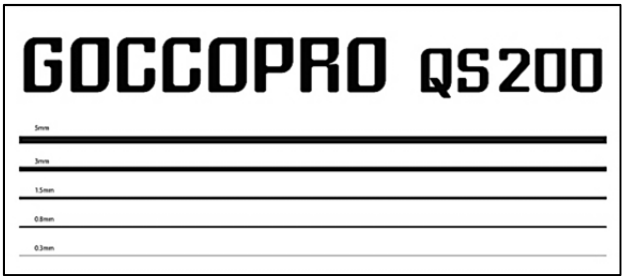


[Test print pattern] menu appears.



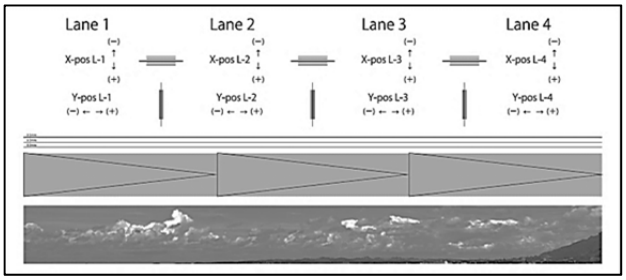
1) Test print A: QS200 Logo

Frame size: W 580 x H 360 mm
(Artwork data size: W 420 x H 200 mm)



2) Test print B: Adjustment 580

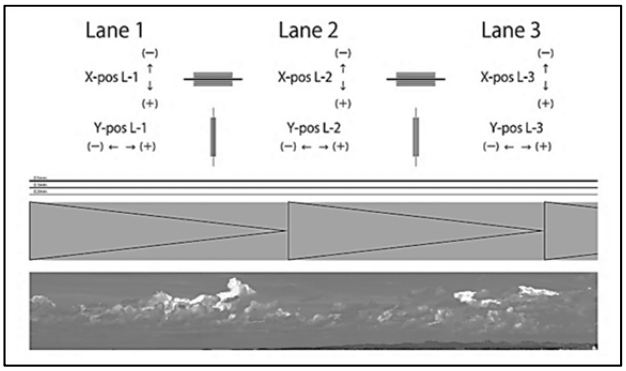
Frame size: W 580 x H 360 mm
(Artwork data size: W 420 x H 200 mm)



3) Test print C: Adjustment 475

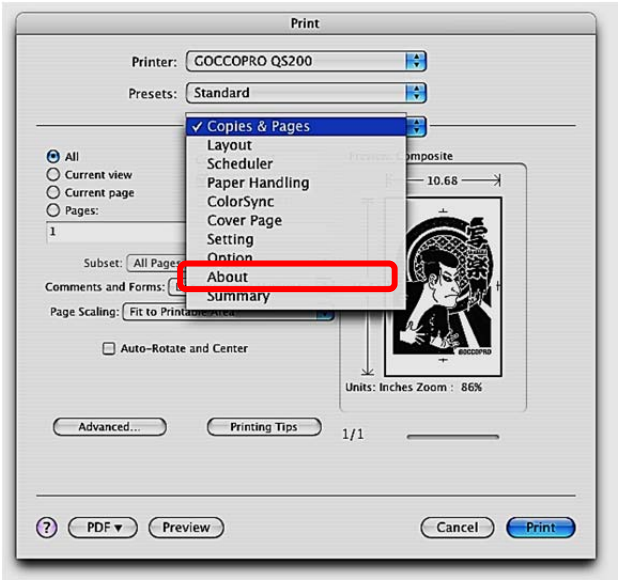
Frame size: W 475 x H 360 mm

(Artwork data size: W 315 x H 200 mm)

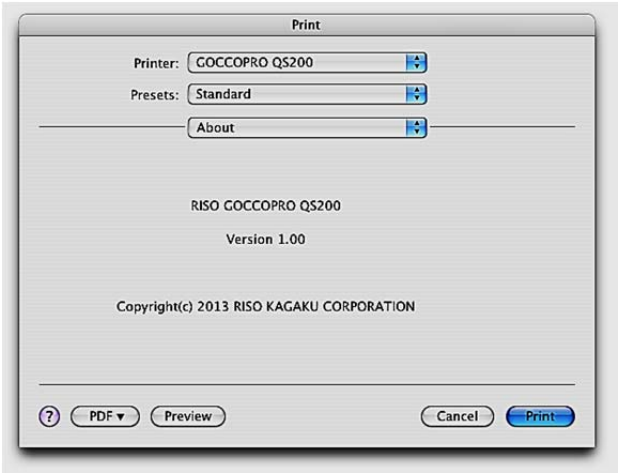


● About (Version)

Click [Copies & Pages] on [Print] dialog box, and select [About] in the pulldown menu.



Displays the version, product name, and copyright information of this printer driver.



3

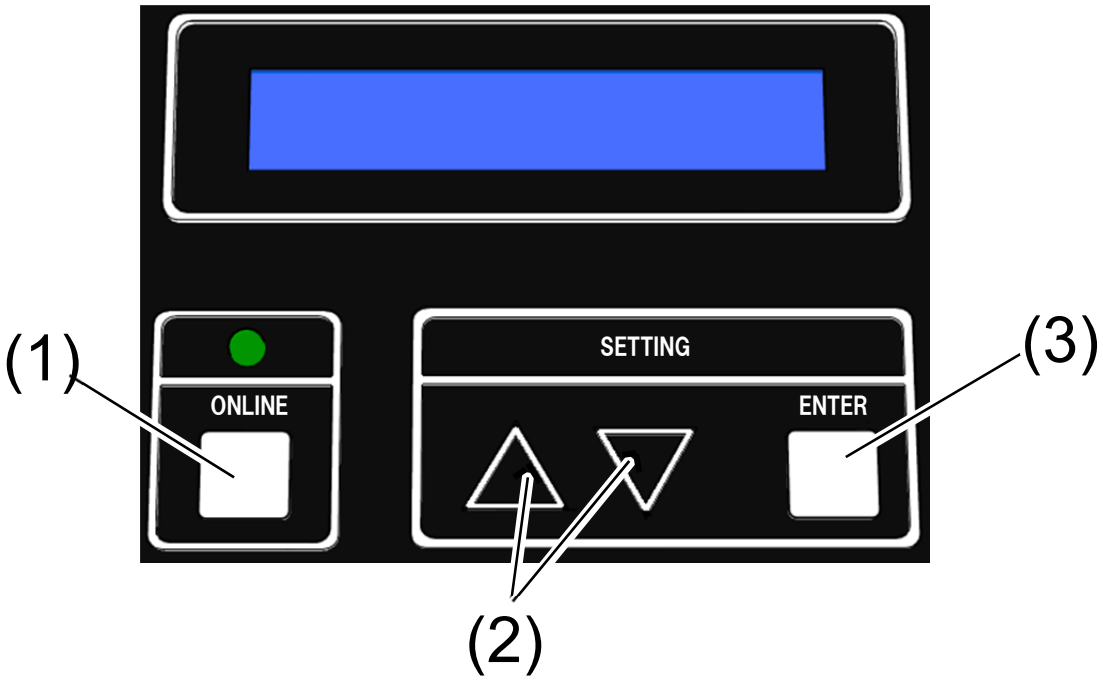
Offline Mode

In “Offline Mode,” image remaking, frame height setting,image making start location adjustment are available.

- Ref. Offline Mode Operations page 66
- Ref. Settings and Setting Ranges in Offline Mode page 67
- Ref. Offline Mode Hierarchy page 71

Offline Mode Operations

Offline mode is used to reproduce an imaged screen by changing the detailed settings of the artwork data that has been once used for image-making.



(1) When “Ready” is shown in the display of this machine (in [Ready] status), press <ONLINE> Key.
<ONLINE> Lamp goes out, the machine is switched to offline mode, and the display changes to “Setting.”

(2) Use [▲] and [▼] keys (Selection Keys) for menu selection.

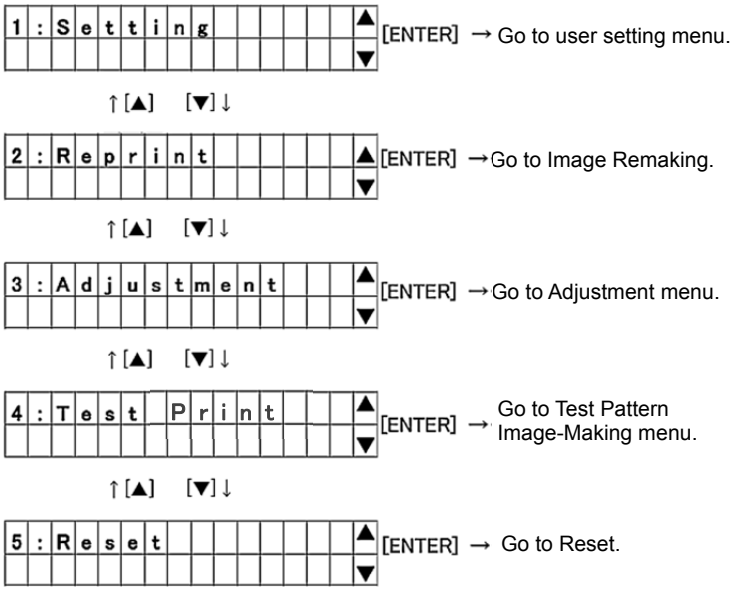
(3) Press <ENTER> Key (Set Key) to confirm your selection.

(4) To return to the upper menu, press <ONLINE> Key.

(5) After the setting is completed, execute the image-making in Reprint Mode.

Note When you turn off and on the machine or execute Reset, the settings set in Setting Mode will be restored to the default settings without being stored in the machine. When new artwork data is transmitted from the computer, the old settings are overwritten because the settings of the computer’s printer driver take priority.

The settings set in Adjustment Mode are retained in the machine even if you turn off and on the machine or execute Reset. When new artwork data is transmitted from the computer, the settings are also reflected in the computer’s printer driver.



Settings and Setting Ranges in Offline Mode

Mode name	Item name	Explanation	Setting range	Initial setting (Factory default)
Setting*1	Density (Image-making density setting)	Adjusts the image-making density. When the value is larger, the density is higher (hole diameter is larger).	–16 to +16 (One step: 1)	0
	Speed (Image-making speed setting)	Adjusts the image-making speed. When the value is larger, the speed is higher.	15 mm/s to 35 mm/s (One step: 5 mm/s)	25 mm/s
	OverLap dots (Overlap dot setting between lanes)	Adjusts the number dots overlapping between lanes. Applied to all Lane 1 to Lane 4.	0 dot to 3 dots (One step: 1 dot)	0 dot
	No.of Repeat (Number of image-making repetition)	Changes the number of image-making repetition. No image-making repetition for 0 and 3 image-making in total for 4.	0 time to 4 times (One step: 1 time)	0 time
	Adj.Length (Image-making expansion/contraction rate setting)	Adjusts the vertical scanning direction image-making expansion/contraction rate. When the value id larger, the image is larger.	-5 % to +5 % (One step: 0.01 %)	0 %
	Line Enhancement（Enhance white character）	Enhance white character in solid area	off,bold1,bold2	off
Reprint		Executes the image remaking with the setting adjusted in the setting mode above.		
Adjustment*3	X - pos [L-1] (X direction start position adjustment (Lane 1))	Adjusts the Lane 1 vertical scanning direction position. When the value is larger, it moves closer to END.	-99 to +99 (-3.7 mm to +3.7 mm) (One step: 0.037 mm)	0 mm
	X - pos [L-2]*2 (X direction start position adjustment (Lane 2))	Adjusts the Lane 2 vertical scanning direction position. When the value is larger, it moves closer to END.	-99 to +99 (-3.7 mm to +3.7 mm) (One step: 0.037 mm)	0 mm
	X - pos [L-3] (X direction start position adjustment (Lane 3))	Adjusts the Lane 3 vertical scanning direction position. When the value is larger, it moves closer to END.	-99 to +99 (-3.7 mm to +3.7 mm) (One step: 0.037 mm)	0 mm
	X - pos [L-4] (X direction start position adjustment (Lane 4))	Adjusts the Lane 4 vertical scanning direction position. When the value is larger, it moves closer to END.	-99 to +99 (-3.7 mm to +3.7 mm) (One step: 0.037 mm)	0 mm

Ref. “X direction” page 5

Mode name	Item name	Explanation	Setting range	Initial setting (Factory default)
Adjustment	Y - pos [L- 1] (Y direction start position adjustment (Lane 1))	Adjusts the Lane 1 horizontal scanning direction position. When the value is larger, it moves further to the right.	-99 to +99 (-0.7 mm to +0.7 mm) (One step: 0.008 mm)	0 mm
	Y - pos [L-2]*2 (Y direction start position adjustment (Lane 2))	Adjusts the Lane 2 horizontal scanning direction position. When the value is larger, it moves further to the right.	-99 to +99 (-0.7 mm to +0.7 mm) (One step: 0.008 mm)	0 mm
	Y - pos [L-3] (Y direction start position adjustment (Lane 3))	Adjusts the Lane 3 horizontal scanning direction position. When the value is larger, it moves further to the right.	-99 to +99 (-0.7 mm to +0.7 mm) (One step: 0.008 mm)	0 mm
	Y - pos [L-4] (Y direction start position adjustment (Lane 4))	Adjusts the Lane 4 horizontal scanning direction position. When the value is larger, it moves further to the right.	-99 to +99 (-0.7 mm to +0.7 mm) (One step: 0.008 mm)	0 mm
Test Print	Test No. 1 (Test pattern 1 image making)	Makes a image on screen of Test pattern 1. Ref. page 69		
	Test No. 2 (Test pattern 2 image making)	Makes a image on screen of Test pattern 2. Ref. page 69		
	Test No. 3 (Test pattern 3 image making)	Makes a image on screen of Test pattern 3. Ref. page 70		
Reset		Executes reset. Received artwork data and settings are reset.		

*1) Setting will be effective only for “Reprint” function on offline mode.

*2) Recommended to keep “0” step to [L-2] Lane 2 adjustment as a reference for other [L-1] [L-3] [L-4] adjustment.

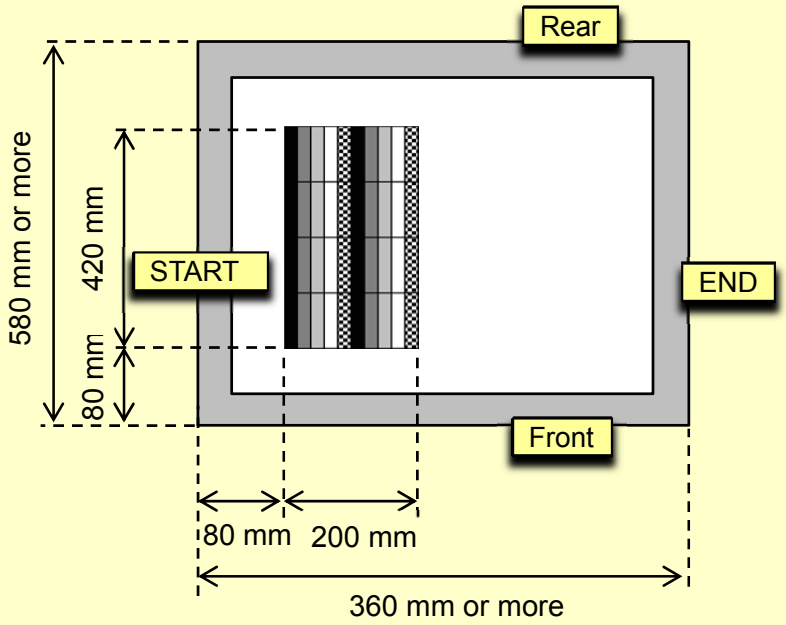
*3) Each lane adjustment are all individual. For example it you adjust [L-3] , you will see gap between [L-3] and [L-4]. If you want to keep condition between [L-3] and [L-4] , you have to set and adjust same amount together.

Ref. “Y direction” page 5

Test Print

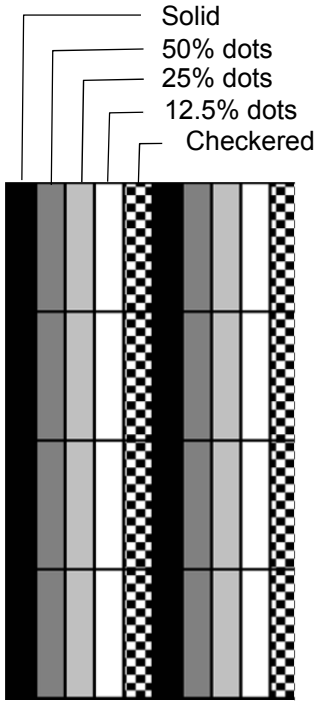
Important!

The image-making size used in Test Print is 200mm in the X direction and 420mm in the Y direction regardless of the size of the set screen frame. Note that if you use a screen frame smaller than that shown in the figure below, it may damage the thermal print head by contact with the screen frame.



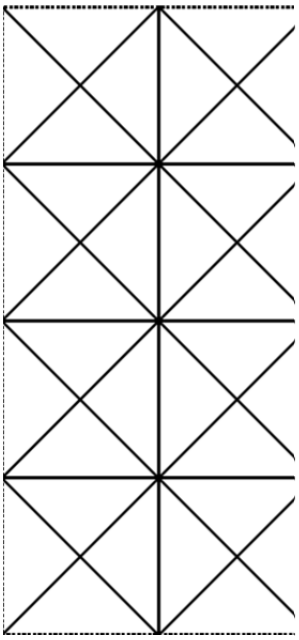
Test pattern 1

Three rows of repeated patterns of solid, 50% dots, 25% dots, 12.5% dots, and checkered



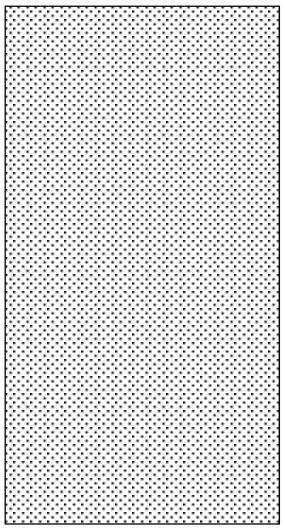
Test pattern 2

Grid pattern of 1-dot fine lines



- Test pattern 3

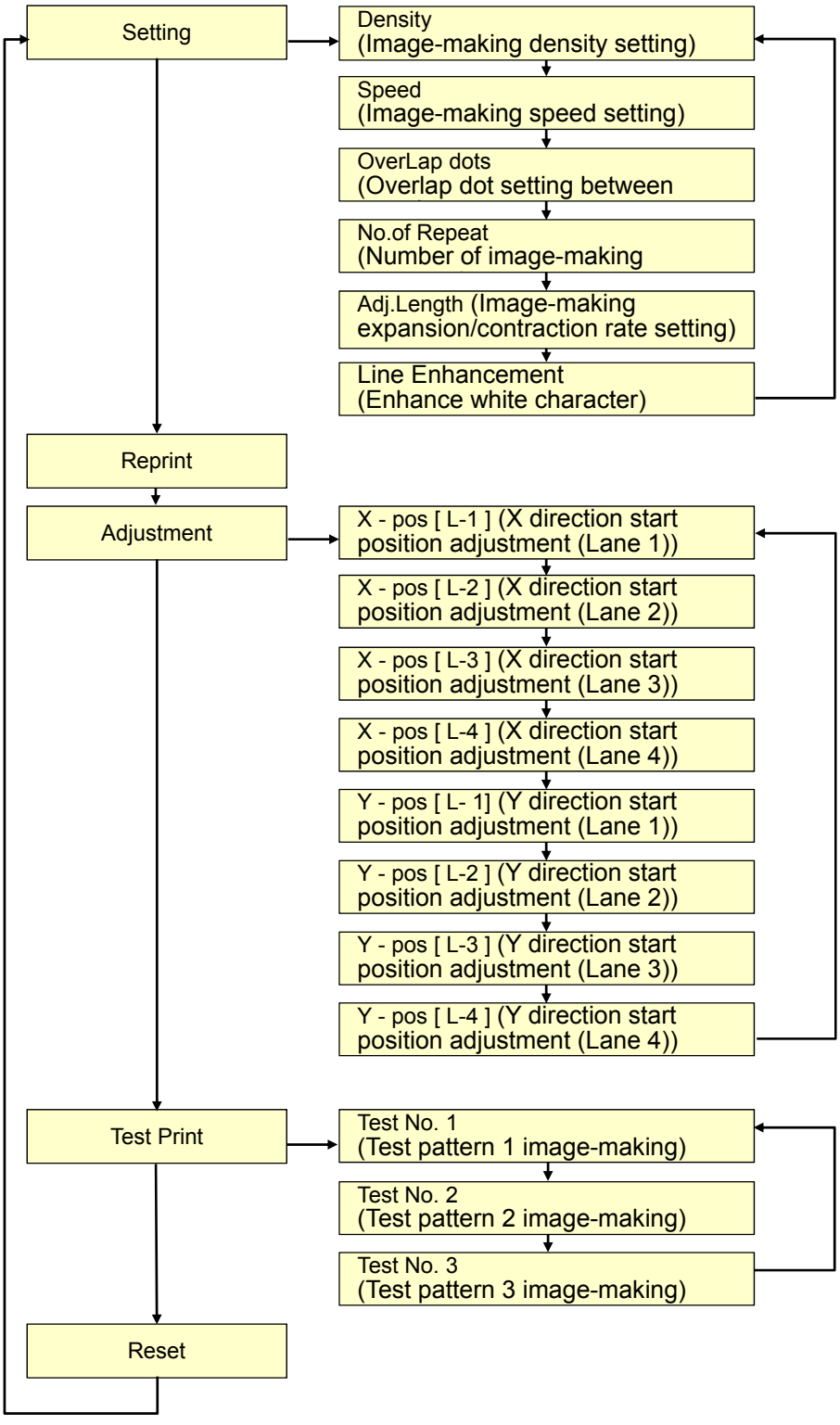
  Dot pattern of 25% coverage



Note Test Print which is one of the Offline Modes of this machine allows you to check the performance of image-making without connecting to a computer. The images and sizes differ from those of the test patterns A, B, and C for Test print pattern that can be produced on [Option] tab of the printer driver.

Offline Mode Hierarchy

The offline mode has the following hierarchy.
Go up/down the menu with [▲][▼] keys and select a setting item with <ENTER> key (Set key) to go to each setting screen.
You can go to the upper menu with <ONLINE> key.



4

Cleaning

- Ref. Thermal Print Head Cleaning page 73
- Ref. Machine Exterior Cleaning page 74

Cleaning

Caution

- Do not perform operations not specified in this guide such as adjustment and repair. Be sure to ask your dealer for adjustment or repair of this machine.

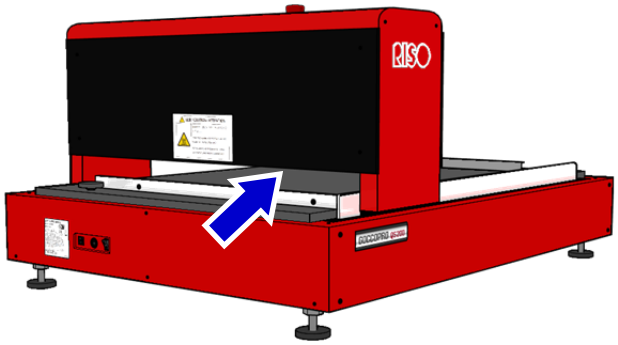
Thermal Print Head

When dust adheres to the thermal print head, the screen may not be correctly perforated according to the Artwork data, and graphics or text may be missing or blur.
Gently rub the heat-generating part of the thermal print head with a soft cotton swab moistened with alcohol or the like several times to remove stains.

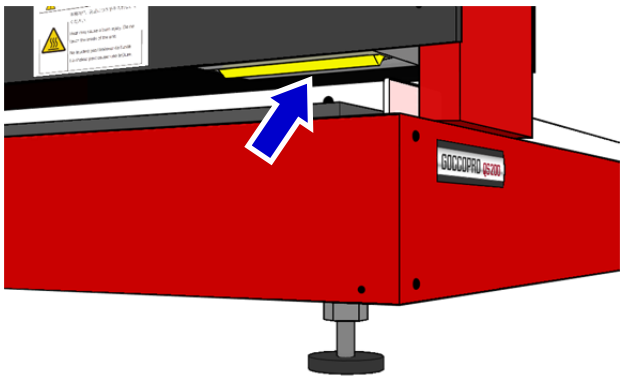
Important!

- Before starting cleaning, turn off the power switch of this machine, and make sure the thermal print head has been fully cooled down.
- Since the thermal print head is very delicate, avoid shocks or scratches with a hard object.
- The thermal print head may be damaged by static electricity. Be sure to remove the static electricity charged in the body before cleaning it. Do not touch the thermal print head for any purpose other than cleaning.
- Do not use highly-soluble organic solvents such as thinner and benzene for cleaning.

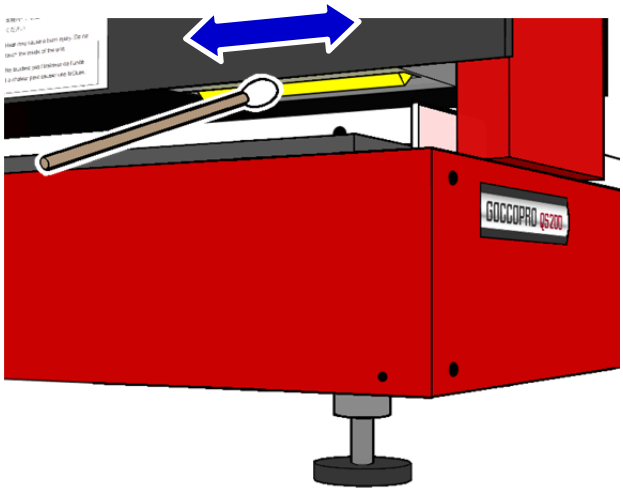
1 Confirm the location of the thermal print head.
You can see the mechanical parts of the thermal print head when viewing from under the machine.



The recessed part between the metal covers generates heat.

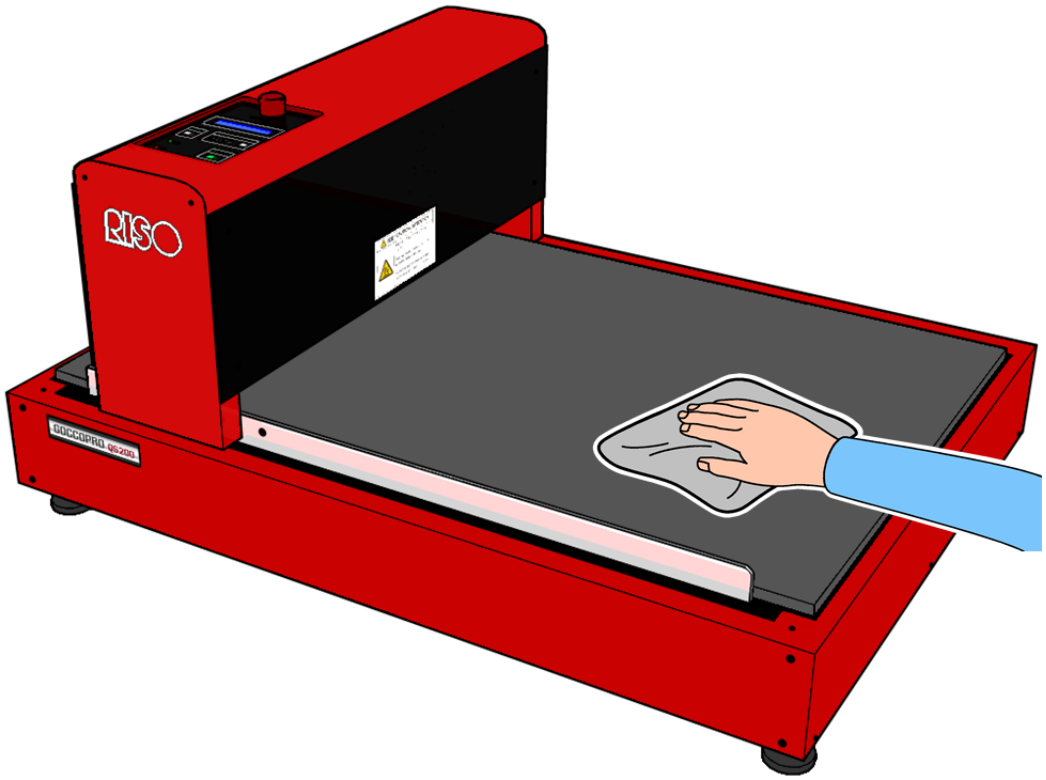


2 Gently rub the heat-generating part of the thermal print head with a soft cotton swab moistened with alcohol or something similar several times to remove stains.



Machine Exterior Cleaning

In order to protect the machine from dirt, wipe the machine exterior periodically with a soft cloth using mild detergent. The color might run, but this does not affect the performance of the machine.



5

Troubleshooting

Causes and actions when malfunction occurs on the machine are explained in this section.

- Ref. Troubleshooting Tips page 75

Troubleshooting Tips

If any problem occurs, check the following items and take appropriate procedures before calling your dealer (or authorized service representative).

Actions on the Machine

Status	Possible cause	Action
The machine does not start when the power switch is turned on.	The power switch is not connected correctly.	・Check if the plug of the power cable is firmly connected to the machine. ・Check if the AC adapter is firmly connected to the power cable. ・Check if the machine is firmly connected to the AC adapter cable. ・Check if the commercial power circuit breaker is ON.
Image-making is not carried out	The machine is at the <OFFLINE> state.	Press the <ONLINE> key of the machine and check if the indicator lights.
The <ONLINE> indicator lights but it does not carry out image-making.	The data transmission on the computer may not be finished. (The output operation may not have been finished in the application software.)	・Double click “RISO GOCCOPRO QS200 Driver” in the [Printer] folder to check if the data transmission has finished. ・Until the data transmission from the computer have finished, leave the screen saver turned off.
	The output operation has been cancelled before completion in the application software on the computer.	Take the following measures. 1. Turn off the power switch on the machine. 2. After approximately 10 seconds, turn on the printer again.
	USB cable may be disconnected.	Take the following measures. 1. Cancel the data transmission from the computer. 2. Turn off the power switch on the machine. 3. Connect the USB cable firmly. 4. Turn on the power switch again.
Image-making does not start even when the data is transmitted from the computer.	The printer driver may not be set to the machine.	Set the printer driver to the machine and redo the output operation from the application software.
	Open the RISO GOCCOPRO QS200 Driver in the [Device and Printers] folder. The data may be in [Print Queue] or [Printing]	Wait until the data transmission from the computer have completed.
Part of image-making is cropped. 	The size of the Artwork data exceeds image-making area.	Image-making is possible up to the artwork data with 420 mm (width) × 620 mm (length). Image-making is not carried out for the section outside of this image-making area.

Status	Possible cause	Action
White vertical line appears on the section where Image-making was carried out.	Dust or other contamination adheres to the Thermal Print Head.	Clean the Thermal Print Head with “Thermal Head Cleaner”. Ref. “Thermal Print Head” Page 73
	There is gap between lanes.	Adjust imeage Y-pos by OFFLINE mode.
“E-×××” is displayed on the machine panel.	Service call error occurred.	Turn the power switch of the machine off and on again. If the display does not disappear, contact your dealer (or authorized service representative).

Actions using the Printer Driver

Status	Check item	Action
The <ONLINE> indicator lights but it does not carry out image-making.	The data transmission from the computer may not have finished. (The output operation may not have finished in the application software.)	・Double click “RISO GOCCOPRO QS200 Driver” in the [Printer] folder to check if the data transmission have finished. ・Until the data sending from the computer has finished, leave the screen saver turned off.
	The output operation has been cancelled before completion in the application software on the computer.	Take the following measures. 1. Turn off the power switch on the machine. 2. After approximately 10 seconds, turn on the printer again.
	USB cable may be disconnected.	Take the following measures. 1. Cancel the data transmission from the computer. 2. Turn off the power switch on the machine. 3. Connect the USB cable firmly. 4. Turn on the power switch again.
Image-making does not start even when the data is transmitted from the computer.	The printer drive may not be set to the machine.	Set the printer driver to the machine and redo the output operation from the application software.
	Open the RISO GOCCOPRO QS200 Driver in the [Device and Printers] folder. The data may be in [Print Queue] or [Printing]	Wait until the data transmission from the computer have completed.

Unexpected print result

Status	Possible Cause	Action
The page image for image-making is not centered or is cropped.	The artwork data created by the application software exceeds the image-making area.	Exceeded artwork data from image-making area will be cut off. Check the image-making size and the size of the artwork data.
Image-making for graphics is not carried out correctly.	The Printer Driver may not be set to the machine.	If artwork data are edited with another Printer Driver selected, image-making for graphics may not be carried out correctly. Select an appropriate Printer Driver to edit the artwork data, and then carry out image-making again.
Images are printed corruptly or reduced in size.	The Printer Driver may not be selected for the machine.	Do not carry out image-making while the Printer Driver other than those for the machine is selected.
The size of the screen frame has been registered on the ［Register Frame Size］screen, but it does not appear in the ［Screen Frame Size］list. (windows)	［OK］(or [Apply]) on ［Basic］tab may not be clicked after entering the frame size.	Click the [OK] on the ［Register Frame Size］screen to close the screen, and then click [OK] (or [Apply]) on the ［Basic］tab.
A long name cannot be entered in the ［Register Frame Size］screen. (windows)	The number of characters entered may have exceeded the valid range of the length.	Valid range of the length is 32 bytes.
[Width] and [Length] cannot be entered in the ［Screen Frame Size］screen. (windows)	The value may have exceeded the setting range.	Screen frame size that can be entered is with Width: 260 mm to 580 mm and Length: 260 mm to 780 mm. Enter the value within this range.
	Two-byte characters may be used.	Enter the values in one-byte characters.

Appendix

- Ref. Uninstalling the Printer Driver page 80
- Ref. Disposing consumables page 86
- Ref. Specifications page 87

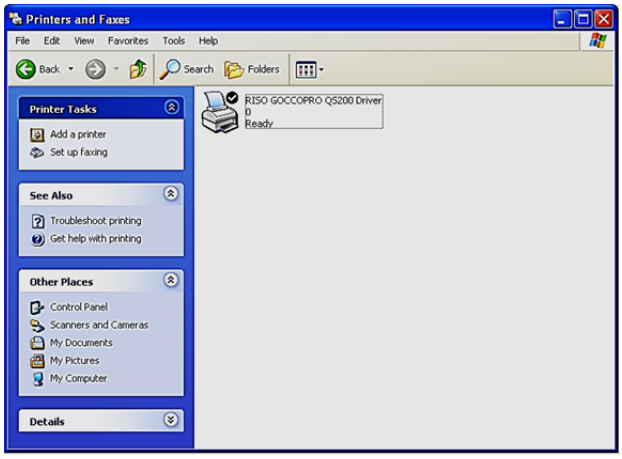
Uninstalling the Printer Driver

Important! To uninstall the printer driver, it is necessary to log on to Windows by the administrative accont to change the system setting (administrator, etc.).

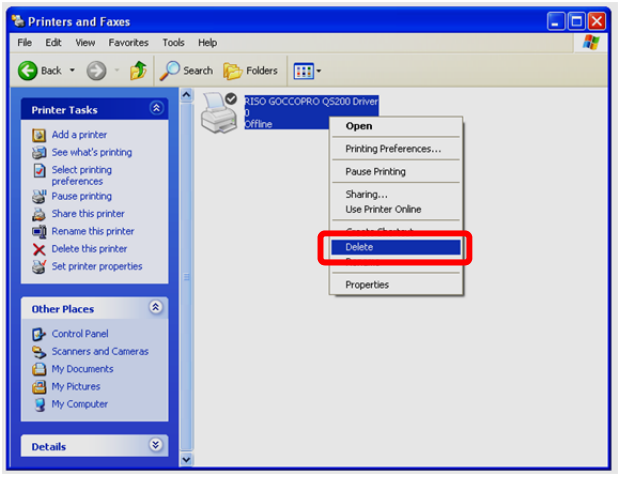
Windows XP

Important! Be sure to uninstall the printer driver with the machine off or with the USB cable disconnected.

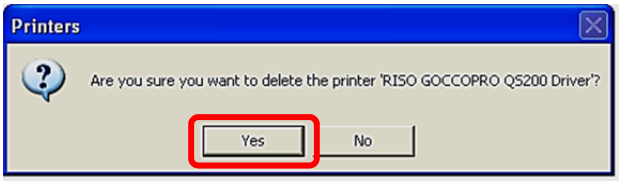
1 Click [Printers and Faxes] in [Control Panel].



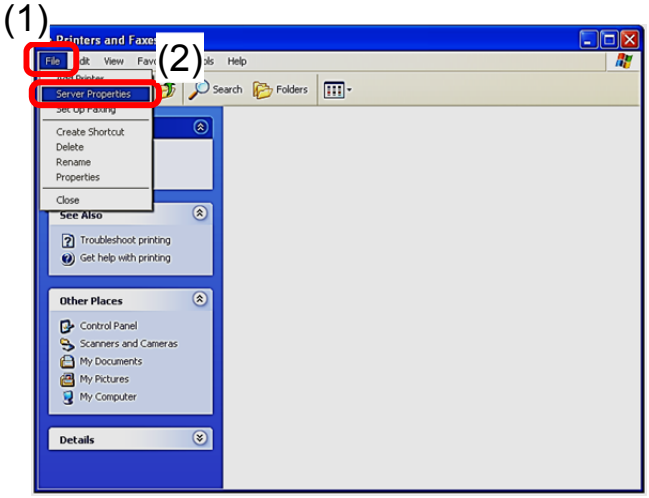
2 Select and right-click [RISO GOCCOPRO QS200 Driver] icon among the installed printers, and click [Delete] in the pulldown menu.



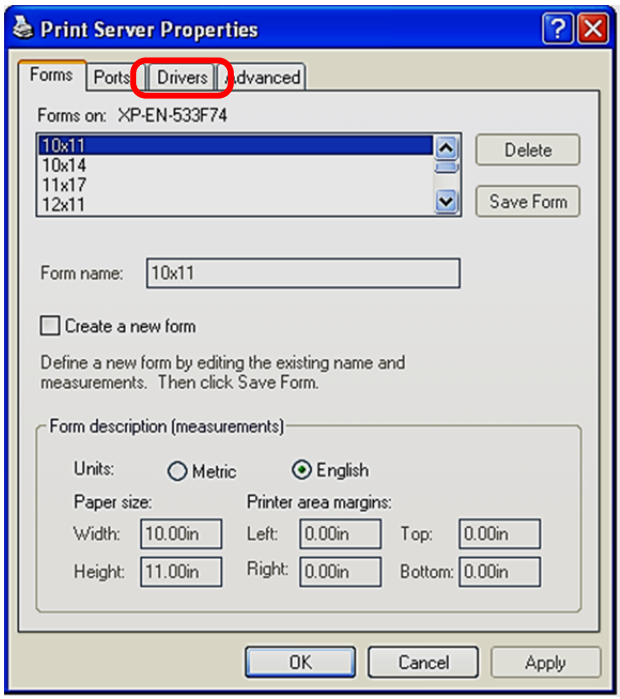
3 When the [Printers] dialog box appears, then click [Yes].
[RISO GOCCOPRO QS200 Driver] icon is deleted.



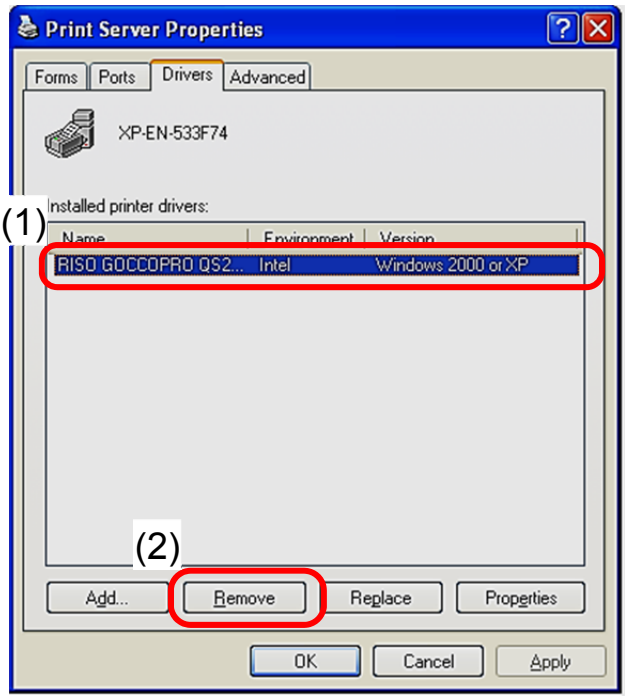
4 (1) Click [File] on the menu bar of [Printers and Faxes] dialog box.
(2) Click [Server Properties].



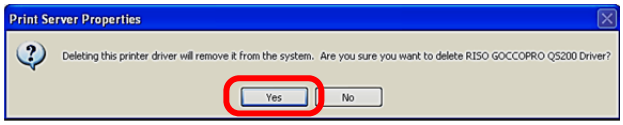
5 Click [Drivers] tab on [Print Server Properties] dialog box.



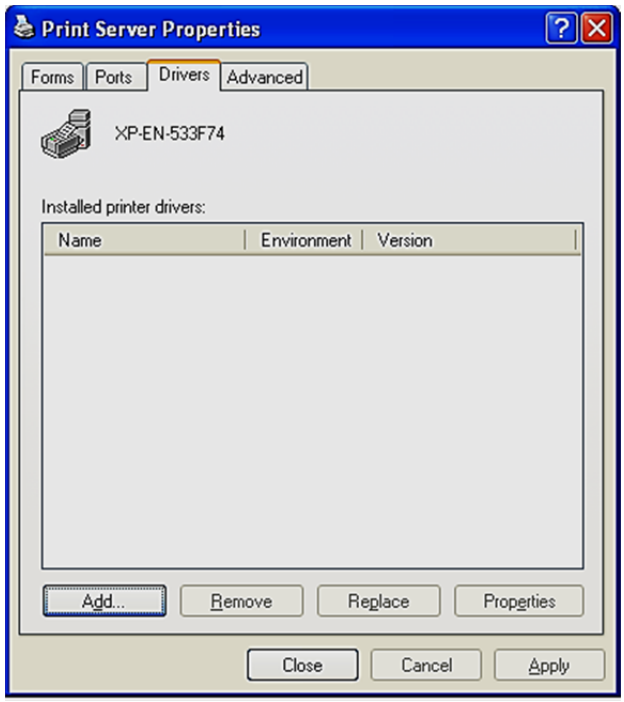
6 The list of [Installed printer drivers] is displayed.
(1) Click on “RISO GOCCOPRO QS200 Driver” in the list.
(2) Click [Remove].



7 When the dialog box below appears, then click [Yes].



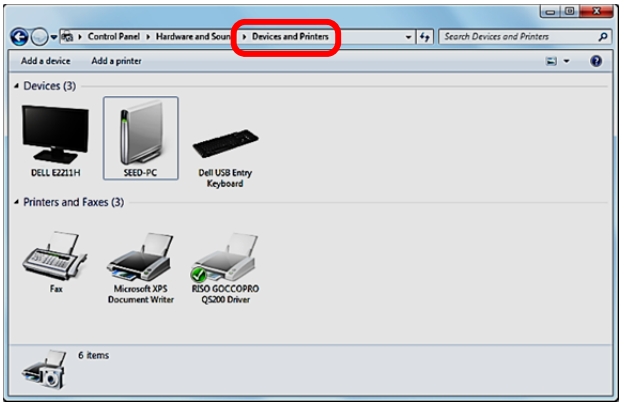
8 When ”RISO GOCCOPRO QS200 Driver” disappears from the list of [Installed printer drivers], the uninstallation of the printer driver is completed.



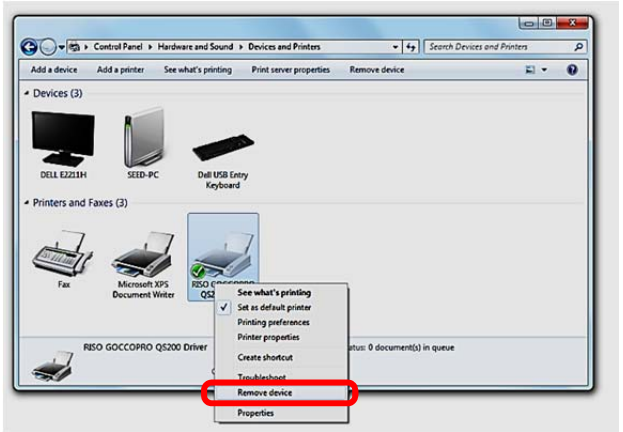
Windows Vista/7/8/8.1/10

Important! Be sure to uninstall the printer driver with the machine off or with the USB cable disconnected.

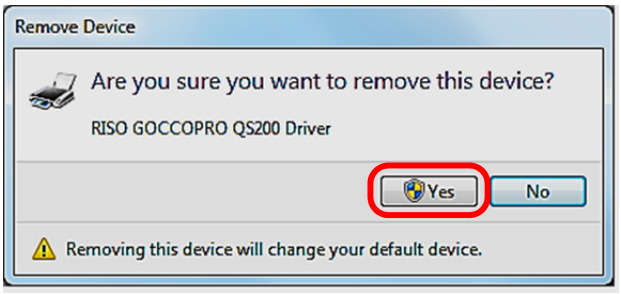
1 Click [Devices and Printers] in [Control Panel].



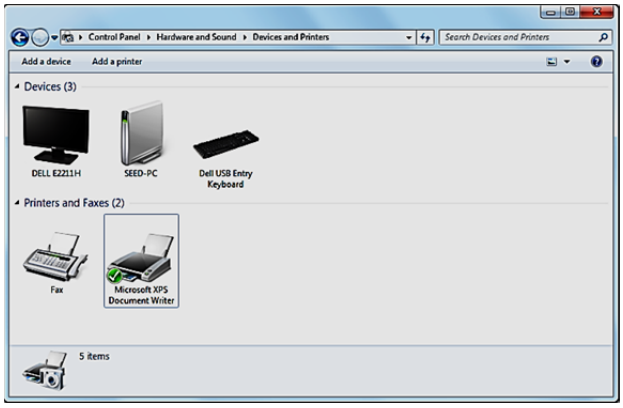
2 Right-click [RISO GOCCOPRO QS200 Driver] icon, and then click [Remove device] in the pulldown menu.



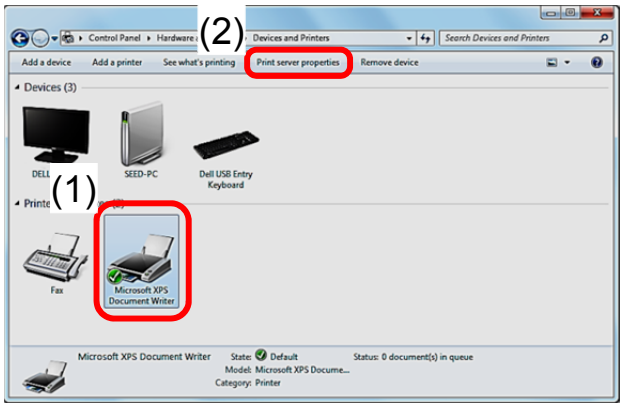
3 When the [Remove Device] dialog box appears, then click [Yes].



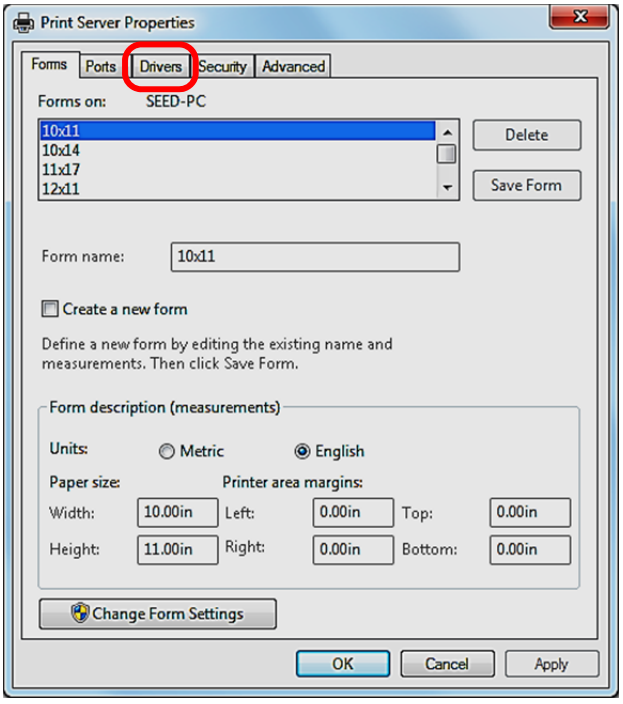
4 [RISO GOCCOPRO QS200 Driver] icon disappears from [Devices and Printers] dialog box.



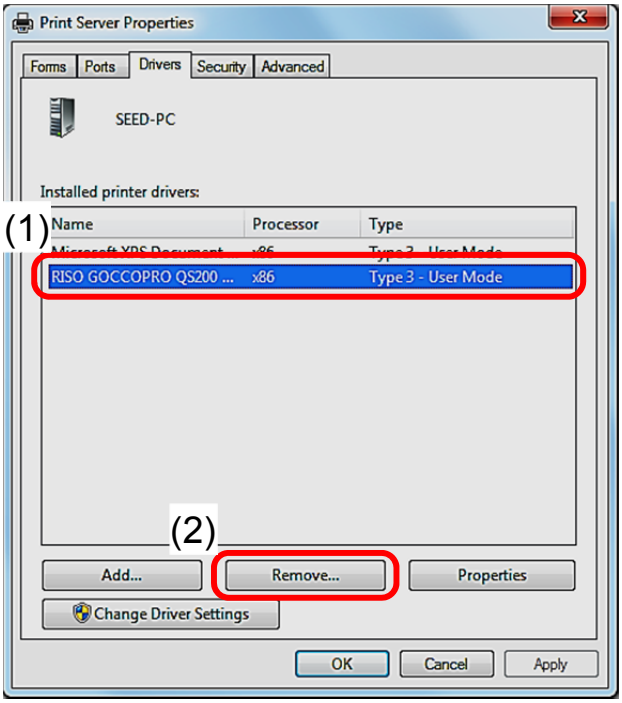
5 (1) Click an appropriate printer on [Devices and Printers] dialog box.
(2) Click [Print server properties] on the menu bar.



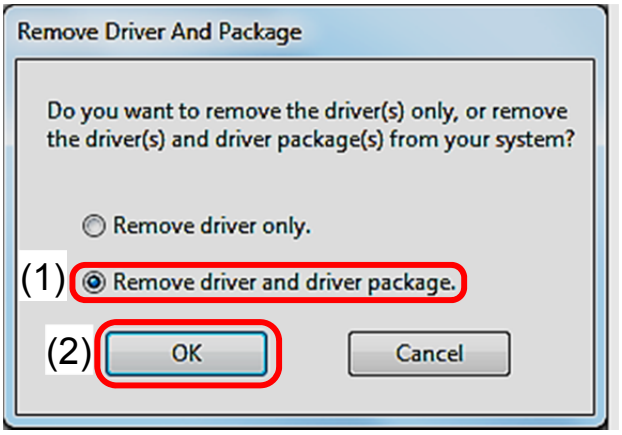
6 Click [Drivers] tab on [Print Server Properties] dialog box.



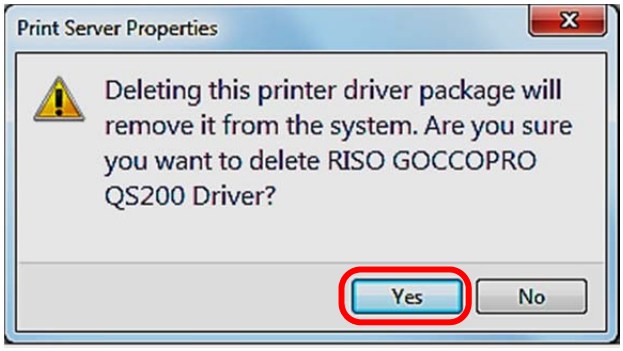
7 (1) Select “RISO GOCCOPRO QS200 Driver” in the list of [Installed printer drivers].
(2) Click [Remove].



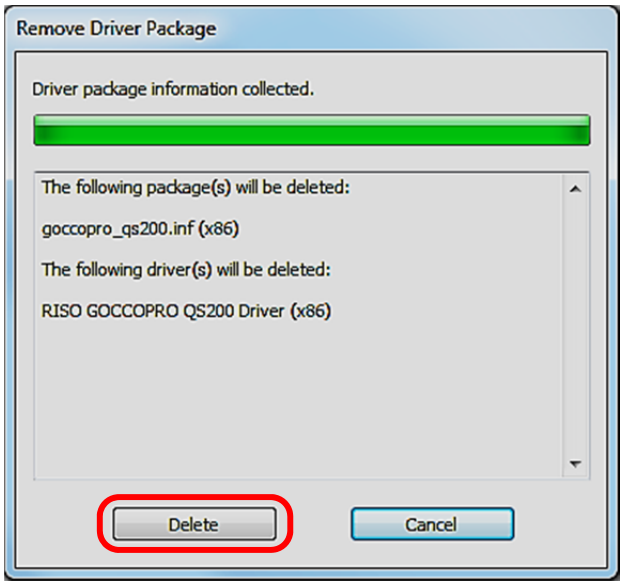
8 [Remove Driver And Package] dialog box appears.
(1) Click [Remove driver and driver package].
(2) Click [OK].



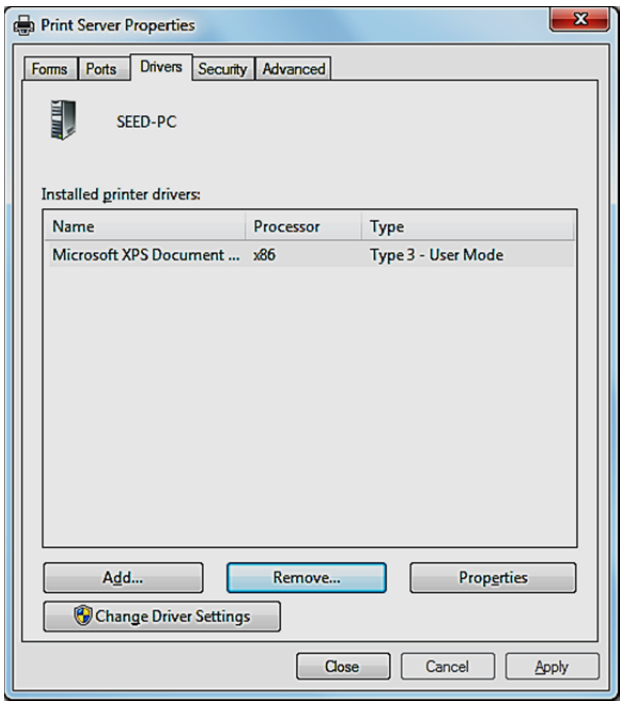
9 [Print Server Properties] dialog box appears. Click [Yes].



10 [Remove Driver Package] dialog box appears. Click [Delete].



11 When "RISO GOCCOPRO QS200 Driver" disappears from the list of [Installed printer drivers] on [Print Server Properties] dialog box, the uninstallation of the printer driver is completed.

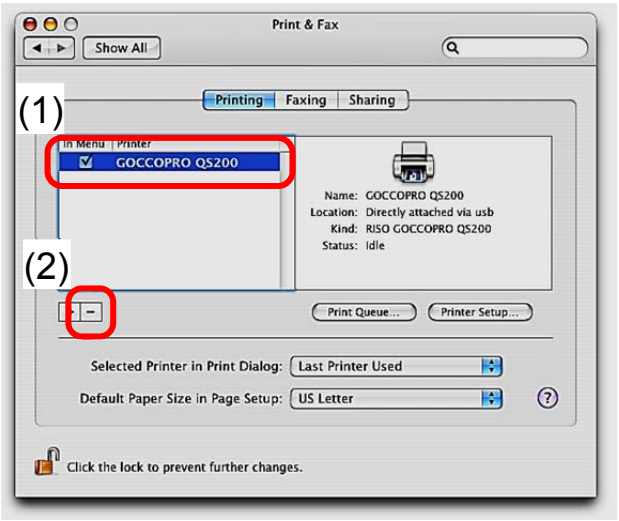


Mac OS

Important! Be sure to uninstall the printer driver with the printer machine off or with the USB cable disconnected.

1 Double-click [Print & Fax] on [System Preferences] dialog box.

2 [Print & Fax] dialog box appears.
(1) Check [GOCCOPRO QS200] checkbox.
(2) Click [-].



3 When “GOCCOPRO QS200” disappears from the list, the uninstallation of the printer driver is completed.

Disposing consumables

- Specifications and types are subject to change without notice.
- To find the details, contact your dealer (or authorized service representative).

Screen Master

Make sure to use the screen master dedicated to the machine supplied by Riso.
Improper use of screen master can result in malfunction or other trouble.

Product Name	Characteristics
RISO Digital Screen Master QS70P-113-30	Master with 70 mesh used for both water based ink and solvent base ink for cloth printing. This master is suitable for using pigmented ink with large particle such as gold ink.
RISO Digital Screen Master QS70P-56-30	
RISO DIGITAL SCREEN QS MASTER 70P-56-30 GRAY	
RISO DIGITAL SCREEN QS MASTER 70P-113-30 GRAY	
RISO Digital Screen Master QS120P-113-50	Master with 120 mesh used for both water based ink and solvent base ink for cloth printing. Balanced master with excellent reproducibility of solid and fine characters and lines. High resolution cloth printing is possible.
RISO Digital Screen Master QS120P-56-50	
RISO DIGITAL SCREEN QS MASTER 120P-56-50 GRAY	
RISO DIGITAL SCREEN QS MASTER 120P-113-50 GRAY	
RISO Digital Screen Master QS200P-113-50	Master with 200 mesh used for both solvent base ink for plastic, metal, and metal coating surface printing and water based ink for cloth printing. Excellent reproducibility of fine characters, lines, and dots.
RISO Digital Screen Master QS200P-56-50	
RISO DIGITAL SCREEN QS MASTER 200P-56-50 GRAY	
RISO DIGITAL SCREEN QS MASTER 200P-113-50 GRAY	

Disposing Screen Master after Image-making and Depleted Screen Master Roll Core

Dispose the Screen Master after Image-making and Screen Master roll Core according to the disposal procedure of your local community.
Refer to the following table if you need to separate the wastes.

Part Name	Material
Core	Paper
Screen Master	Polyester

Specifications
Caractéristiques

GOCCOPRO_QS200

Image-making method	High-speed digital image-making
Image-making time	Within 2 minutes (A4 size)
Image-making size	Min：100 mm (Width) × 100 mm (Length) Max：420 mm (Width) × 620 mm (Length)
Resolution	600 dpi × 600 dpi (Perforation Density1200dpi)
User Interface	LED panel
Margin	TOP side 80 mm or more, END side 80 mm or more Right side 80 mm or more, Left side 80 mm
Registration tolerance	±0.2 mm or less (Registration tolerance in Repeat writing function)
User Mode	Image-making density setting, Image-making speed setting, Overlap dot between lane setting, Number of overlapped Image-making and Image-making shrinkage degree setting, Re-Image-making mode, Frame height setting, X direction start position adjustment, Y direction start position adjustment, Test pattern, and Reset.
Frame Size (External form)	Min: 260 mm (Width) × 260 mm (Length) Max：580 mm (Width) × 780 mm (Length)
Frame Thickness	Min: 20 mm Max: 40 mm Can be shift be authorised service man (Min: 30 mm / Max: 50 mm)
Main Body Memory	128 MB
Supported OS	Microsoft®Windows® 10（32-bit/64-bit), Windows 8.1（32-bit/64-bit), Windows 8（32-bit/64-bit), Windows 7(32-bit/64-bit), Windows Vista® (32-bit/64-bit), Windows XP (32-bit) Mac OS v10.12(Sierra)、v10.11(El Capitan)、v10.10(Yosemite)、v10.9(Mavericks)、v10.8(Mountain Lion)、v10.7(Lion)、v10.6、v10.5、v10.4
Power Source	100 V-120 V/2.5 A, 220 V-240 V/1.25 A, 50-60 Hz
Power Consumption	Max.300W
Dimensions	When in use: 970 (W) mm × 715 (D) mm × 480 (H) mm
Weight（*1）	Approx. 67 kg
Safety Information Informations relatives à la sécurité	Indoor type, pollution degree 2（*2）, at altitudes of 2000m or lower Type intérieur, degré de pollution 2（*2）, à des altitudes de 2000 m ou moins
Accessories Accessoires	AD adapter User's Guide Driver CD End User License Agreement Installation Procedure Declaration of Conformity (For EU only) *Power cable is not included. Adaptateur AD Guide de l'utilisateur CD du driver Contrat de licence d'utilisation Procédure de l'installation Déclaration de conformité (pour union européenne seulement) * Le câble d'alimentation n'est pas inclus.

---

*1 Excluding the screen frame and master.
*2 The pollution degree of the usage environment due to dirt and dust in the air. Degree “2” corresponds to a general indoor environment.

● Note
- Some of the diagrams and descriptions in this User's Guide may differ from your machine due to improvement and changes to the machine.
- The specifications are subject to change without notice.

*1 Excepté le cadre de l'écran et le master.
*2 Degré de pollution de l'environnement d'utilisation dû à la saleté et à la poussière dans l'air. Le degré 2 correspond à un environnement intérieur général.

● Remarque
- Certains schémas et descriptions du présent Guide de l'utilisateur peuvent ne pas correspondre à votre imprimante en raison des améliorations et modifications apportées à celle-ci.
- Les caractéristiques peuvent être modifiées sans préavis.

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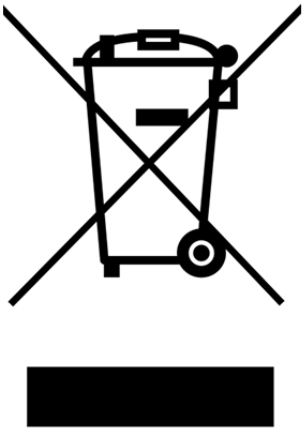
■ Precautions on requesting repair

- Do not allow unauthorized persons to make adjustment or repairs.
- The machine has precision moving parts inside. Do not handle the machine in any other way than described in vbthis guide.
- Be careful of the edge of metal parts, otherwise it may cause an injury.
- Do not make any modifications to the machine or remove any parts.
- Neither Riso nor its dealer is responsible for maintenance service performed by onto-Riso-authorized personnel.
- Contact your dealer immediately if you suspect any dangerous situations or have questions or problems with the machine.

■ Notice for European Union Member States



RISO, the environment and the Waste Electrical and Electronic Equipment Directive “WEEE Directive”

What is the WEEE Directive?

The purpose of the WEEE Directive is to reduce waste and ensure Electrical and Electronic Equipment is recycled at the end of its useful life.

What dose the crossed out wheeled bin symbol mean?

The crossed out wheeled bin symbol indicates this product must be disposed of separately to normal waste.

Please contact your RISO service agent for information about disposal.

What dose the solid bar symbol mean?

the solid bar under the crossed out wheeled bin indicates this product was put on the market after the 13th August 2005.

Who should I contact if I want more information about the WEEE Directive?

You should contact t your local RISO service agent for more information.

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