Network Interface Kit Type S

Quick Configuration Guide

Network Interface Kit Type S Quick Configuration Guide

Printed in Japan
UE (USA) EE (GB) G558-6643

Trademarks

Microsoft®, Windows® and Windows NT® are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Other product names used herein are for identification purposes only and might be trademarks of their respective companies. We disclaim any and all rights in those marks.

Note

The proper names of the Windows operating systems are as follows:

- Microsoft® Windows® 95 operating system
- Microsoft® Windows® 98 operating system
- Microsoft® Windows® Millennium Edition (Windows Me)
- Microsoft® Windows® 2000 Professional
- Microsoft® Windows® 2000 Server
- Microsoft® Windows NT® Server operating system Version 4.0
- Microsoft® Windows NT® Workstation operating system Version 4.0
- Microsoft® Windows NT® Server operating system Version 3.51
- Microsoft® Windows NT® Work station operating system Version 3.51

Copyright © 2001

TABLE OF CONTENTS

1. Getting Started

Features **1**
TWAIN Driver 1
Network TWAIN Scanner 2

2. Setup

Installation of Network Interface Board **5**
Connecting the Operation Unit **7**
Connecting the Network Cable **8**
Installation of Additional Memory on the Network Interface Board **9**

3. Network Settings

The Items of Network Settings **11**
Network Settings **14**

INDEX **16**

Features

TWAIN Driver

The TWAIN Driver is necessary when scanning originals with the scanner. Make sure that this driver is installed prior to using the scanner.

If the driver is configured for commercially available applications that work with TWAIN or the included DeskTopBinder V2 Lite, the driver will automatically launch and set the scanning configurations prior to scanning originals.

Also, this driver contains several functions such as setting character strings like dates and pages numbers, and correcting slanted letters on your document.

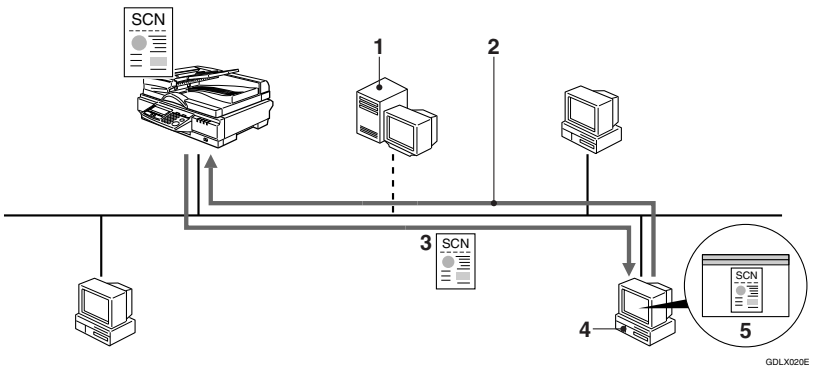
DeskTopBinder V2 Lite

This software, installed in the client computer, manages various types of data files. Using this software with the TWAIN Driver, the scanner can be used as a Network TWAIN Scanner. For more information, see the manual that comes with DeskTopBinder V2 Lite.

Network TWAIN Scanner

When the scanner is connected to a network, the Network TWAIN Scanner function allows the scanner to be used by any client computer on the network in the same way as a local scanner.

After setting an original on the scanner, the DeskTopBinder V2 Lite or other TWAIN compatible applications can be used on a client computer where the TWAIN Driver is installed. The applications running on the client computer use the driver to make scan settings and send the scanning command to the scanner. The scanned data is sent to the client computer via the network.



1. **Delivery server**

Not used when the scanner operates as a Network TWAIN Scanner.

2. **Scanning command**

3. **Scanned data**

4. **Client computer**

Starts the TWAIN Driver and sends scanning instructions as well as the scan settings.

5. **DeskTopBinder V2 Lite**

Scanned data can be viewed and edited by using the TWAIN Driver.

To use the Network TWAIN Scanner to scan originals, follow these steps:

① Set originals
Set originals on the exposure glass (platen glass) or in the Document Feeder (ADF) on the scanner.

Reference

For more information on setting originals on the exposure glass (platen glass) or in the Document Feeder (ADF), see the Scanner Reference included as a PDF file on the CD-ROM labeled "Color Scanner IS330DC (for Network) Scanner Driver & Utilities".

② Configure the scanner settings from a network client
Start TWAIN Driver from an application that works with TWAIN Driver, and then configure the scanner settings.

③ Start the scan
The TWAIN Driver starts scanning.

1

Installation of Network Interface Board

⚠ ***CAUTION:***

- *Before installing options, the machine should be turned off and unplugged for at least thirty minutes. Components inside the machine become very hot, and can cause a burn injury if touched.*
- *Before moving the machine, unplug the power cord from the outlet. If the cord is unplugged abruptly, it could become damaged. Damaged plugs or cords can cause an electrical or fire hazard.*
- *When you pull the plug out of the socket, grip the plug to avoid damaging the cord and causing a fire or an electric shock.*
- *It is dangerous to handle the plug with wet hands. Doing this may result in receiving an electric shock.*

Important

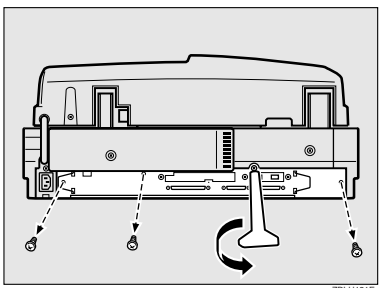
❒ Before touching the Network Interface Board, make sure to first touch a metal object to discharge any static electricity accumulated by your body.

Note

❒ Please use only the tools provided for removing and tightening screws.

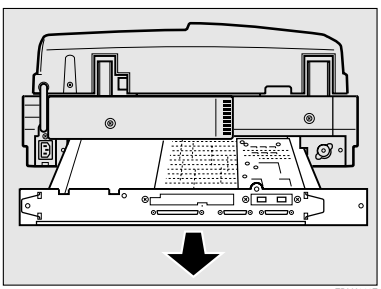
1 **Turn off the power of the scanner and unplug the power cord and all other cables that are connected to it.**

2 **Remove the four screws at the bottom of the back panel .**



ZDLH131E

3 **Pull and slide the scanner control unit out.**

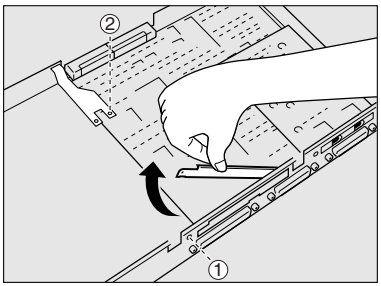


ZDLH141E

Important

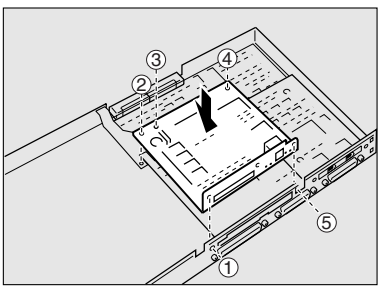
❒ The control unit is very heavy. Be careful not to drop it when removing.

4 **Remove two screws (①,②) , and then remove the cover of the scanner control unit.**



ZDLp360E

5 **Attach the Network Interface Board to the scanner control unit, and then fasten in place with the two screws (①,②) removed in step 4 and the three screws (③-⑤) included with the Network Interface Board.**



ZDLH107E

6 **After confirming that the Network Interface Board is securely attached, make sure there are no metal or other foreign objects on the scanner control unit.**

7 **Insert the scanner control unit into the scanner and fasten in place with the four screws.**

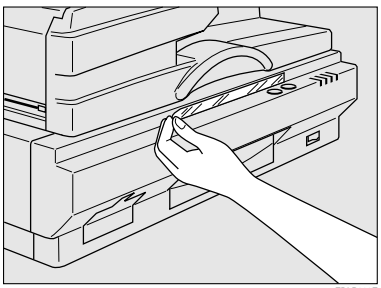
8 **Connect the cables to the scanner, and then connect the power cord.**

Connecting the Operation Unit

Note

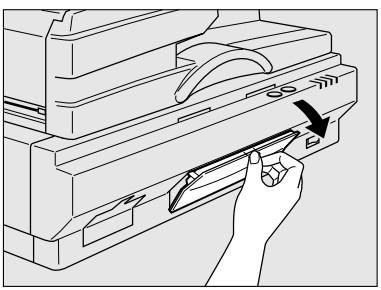
❒ Please use only the tools provided for removing and tightening screws.

1 **Remove the tape.**



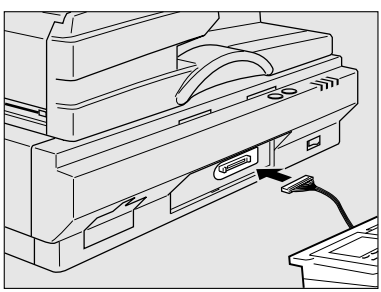
ZDLP300E

2 **Remove the lower cover.**



ZDLP310E

3 **Insert the cable of the operation unit into the main unit's connector.**

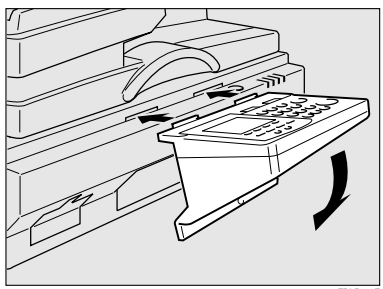


ZDLP320E

⚠ ***CAUTION:***

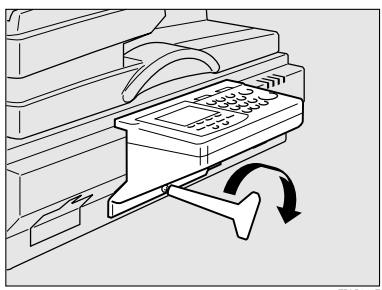
- *The connector should be attached to the scanner with the dark side up.*
- *Pay attention to the upper and lower part of the connector. Using force when inserting the cable may cause damage.*

4 **Insert the tabs in the main unit.**



ZDLP330E

5 **Fasten the supplied screw.**



ZDLP340E

Note

❒ While installing, make sure the cable does not get pinched.

Connecting the Network Cable

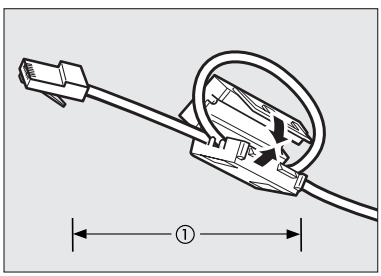
The following procedure explains how to connect the network cable to the network.

Important

❒ Connect the scanner and the network with the 10BASE-T, or 100BASE-TX network cable. When using the 100BASE-TX network cable, select a properly shielded and grounded cable (Category / Type 5).

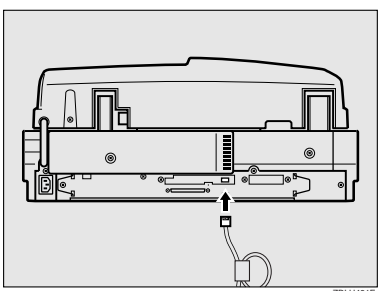
1 Loop the network cable and attach the ferrite core.

Make the loop about 15cm (6") (①) from the end of the cable (on the end closer to the scanner).



ZDLX101E

2 Attach the network cable to the connector on the Network Interface Board.



ZDLH461E

3 Connect the other end of the network cable to a network device such as HUB.

Installation of Additional Memory on the Network Interface Board

You can increase the image data stored in the scanner by installing additional memory on the Network Interface Board.

Important

❒ Before touching the Network Interface Board, make sure to first touch a metal object to discharge any static electricity accumulated by your body.

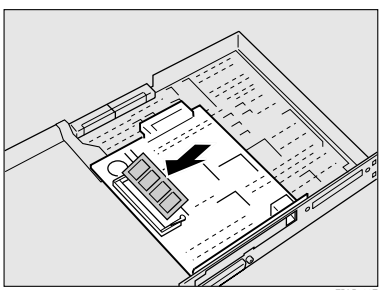
Note

❒ Please use only the tools provided for removing and tightening screws.

1 **If you have already installed the Network Interface Board on the scanner, repeat steps 1 - 3 on P.5 *"Installation of Network Interface Board"*.**

If not, proceed to step 2.

2 **Install the additional memory on the Network Interface Board.**



ZDLP500E

3 **After making sure that the additional memory is securely attached, check that there are no metal or other foreign objects on the scanner control unit.**

4 **Insert the scanner control unit into the scanner and fasten in place with the four screws.**

5 **Connect the cables and the Power Cord to the scanner.**

The Items of Network Settings

Make sure to configure the network settings before using the scanner.

A detailed explanation on the configuration of the network settings will follow. Make the necessary settings according to your working environment.

Item	Default Values	TWAIN *1	Network Delivery *2
1.Scanner IP Address	011.022.033.044	☆	☆
2.Subnet Mask	000.000.000.000	☆	☆
3.Gateway Address	000.000.000.000	☆	☆
4.Access Control	000.000.000.000	☆	
5.Access Mask	000.000.000.000	☆	
6.Network Boot	None	☆	☆
7.Delivery Server Address *3	000.000.000.000		☆
8.MAC Address	-	-	-
9.Transmission Speed	Auto	☆	☆

*1 Set when using the Network TWAIN Scanner.
*2 Set when using the Network Delivery Scanner.
*3 "7.Delivery Server Address" cannot be set when the "Delivery Options" in the scanner settings is set to "NO".

Note

❒ See the manual that comes with the scanner about the "7.Delivery Server Address".

❖ **Scanner IP Address**

It is the IP address of the scanner in the network. Make sure that this address is entered.

The address is set in the following format: "xxx.xxx.xxx.xxx" (x being a numerical value).

Note

❒ Make sure that the IP address of the scanner and the IP addresses of other devices on the network is not the same. The scanner will not work if other devices have the same IP address. Consult your network administrator regarding the address setup.

❖ Subnet Mask

It is a masked value set for using a part of the IP address as the network address. Make sure to set this when using the subnet.
The masked value is set in the following format: "xxx.xxx.xxx.xxx"(x being a numerical value).

Note

❒ Use the default settings, if you are not sure of the masked value.

❖ Gateway Address

It is the address of the gateway host or router. Make sure to set it when a client from another network uses the scanner.
The address is set in the following format: "xxx.xxx.xxx.xxx"(x being a numerical value).

Note

❒ Use the default settings, if you are not sure of the gateway address.

❖ Access Control and the Access Mask

Controls an accessible client. Both access control and the access mask have to be set at the same time.

- The access control is an IP address for controlling a client who uses the scanner.
- The access mask is a base IP address for limiting access by collating with the address of the access control, when limiting a client who wants to access the scanner.

The address is in the following format: "xxx.xxx.xxx.xxx"(x being a numerical value).

Note

❒ Use the default values, when not limiting the scanner usage.

❒ When the result of the access control address made into a mask, and the result of the address of a client who is trying to scan an original coincide, access is allowed and the scanner can be used.

❒ For example, if the access control address has been set to 192.168.15.16, the address of the accessible client is limited according to the address set by the access mask, as follows (x being any numerical value):

Access Mask Address	Accessible Client's Address
000.000.000.000	xxx.xxx.xxx.xxx
255.000.000.000	192.xxx.xxx.xxx
255.255.000.000	192.168.xxx.xxx
255.255.255.000	192.168. 15.xxx
255.255.255.255	192.168. 15. 16

❖ Network Boot

Selects the method of setting the scanner's IP address from the client's side. As the default settings are set to [None], make sure to consult with the network administrator and change the settings according to your working environment.

The possible settings are as follows:

Display	Valid method			
	ARP+PING	RARP+TFTP	BOOTP	DHCP
None(Default settings)				
ARP + PING	☆			
ARP + PING&RARP + TFTP	☆	☆		
ARP + PING&BOOTP	☆		☆	
RARP + TFTP		☆		
RARP + TFTP& BOOTP		☆	☆	
BOOTP			☆	
ARP + PING&RARP + TFTP&BOOTP	☆	☆	☆	
DHCP				☆

Note

❒ When using RARP+TFTP, BOOTP, DHCP, the configuration in the server is required.

❖ Delivery Server Address

This is the server IP address for delivering the image captured by this scanner to the client on the network. Set the delivery server address when using the scanner as a network delivery scanner.

The address is in the following format: “xxx.xxx.xxx.xxx”(x being a numerical value).

Note

❒ Consult your network administrator regarding the address setup.

❖ MAC Address

The MAC address is displayed. Make sure when the MAC address is required in a particular operation.

❖ Transmission Speed

Sets the transmission speed of the network.

Select the transmission speed from “Auto”, “100Mbps”, “10Mbps”.

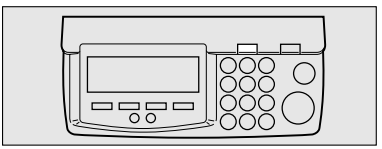
Network Settings

Reference

The following explanations use the scanner's operation keys. See the manual that comes with the scanner on how to select items on the panel.

1 **Press the 【UserTools】 key.**

The Scanner Features screen appears.



ZDLH470

2 **Press [Network].**

The Setup screen appears.

3 **Press [OK].**

The configuration screen of "1.Scanner IP address" appears.

4 **Input the scanner IP address.**

- Input the values using the number keys.
- Input the values of 3 digits at a time.
  Press the 【#】 key after entering 3 digits to enter the next 3 digits.

Note

❒ Press 【Clear / Stop】 to correct any input mistakes and re-insert the correct values.

5 **Press [OK] after entering the values.**

The screen on step **3** appears.

Note

❒ The entered values will be deleted, if **[Cancel]** is pressed.

6 **Press [↓Next].**

The configuration screen of "2.Subnet Mask" appears.

Note

❒ If **[↑Prev.]** is pressed, the previous configuration screen is displayed. (**[↑Prev.]** will not function in "1.Scanner IP Address").

❒ If **[OK]** is pressed, the item currently displayed will be set.

❒ Pressing **[PrevMenu]** returns to the Scanner Features screen.

7 **You can set "2.Subnet Mask", "3.Gateway Address", "4.Access Control" and "5.Access Mask" by following steps 3 to 6.**

8 **Press [OK] and then select [↓Next].**

The configuration screen of "6.Network Boot" appears.

9 **Select [OK].**

- **An "*" appears with the current setting.**
- **Press the [↑] or [↓] to display the content which you want to select.**
- **Whenever the [↓] is pressed, the order changes as follows: "None"→ "ARP+PING" → "ARP+PING&RARP+TFTP" → "ARP+PING&BOOTP"→ "RARP+TFTP" → "RARP+TFTP&BOOTP" → "BOOTP" → "ARP+PING&RARP+TFTP&BOOTP" → "DHCP"(If the [↑] is pressed, the order will be the opposite.)**

10 **Press [OK] after you have finished choosing.**

11 **Press [↓Next].**

The configuration screen of "7.Delivery Server Address" appears.

12 **Follow steps 3 to 6 to set up the "7. Delivery Server Address".**

13 **Press [↓Next] until "9.Transmission Speed" appears, and then press [OK].**

14 **Follow steps 8 to 10 to set up the "9.Transmission Speed".**

- Whenever the **[↓]** is pressed, the order changes as follows: "Auto", "100Mbps", "10Mbps".(If the **[↑]** is pressed, the order will be the opposite.)

15 **Press [PrevMenu].**

The screen returns to the Scanner Features screen and the set values become valid.

16 **Press [Exit].**

The network settings are now complete.

Important

❒ After **[Exit]** has been pressed, do not turn the power off until the Scanner Functions screen has been displayed. If this is done, the changed settings will not take effect and the default values will be reset.

INDEX

C

Connecting
Network Cable, 8
Operation Unit, 7

F

Features
DeskTopBinder V2 Lite, 1
TWAIN Driver, 1

I

Installation
Additional Memory, 9
Network Interface Board, 5

N

Network Settings, 14
The items of network settings, 11
Network TWAIN Scanner, 2

T

The items of network settings
Access Control, 12
Access Mask, 12
Delivery Server Address, 13
Gateway Address, 12
MAC Address, 13
Network Boot, 13
Scanner IP Address, 11
Subnet Mask, 12
Transmission Speed, 13