

Operating Instructions

Version 1.3-2

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Introduction

This manual contains detailed instructions and notes on the operation and use of the VC-20. For your safety and benefit, read this manual carefully before using the VC-20. Keep this manual in a handy place for quick reference.

Important

Contents of this manual are subject to change without prior notice. In no event will the company be liable for direct, indirect, special, incidental, or consequential damages as a result of handling or operating the machine.

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

- The product name of Windows[®] 98 is Microsoft[®] Windows[®] 98
- The product name of Windows[®] Me is Microsoft[®] Windows[®] Millennium Edition (Windows Me)
- The product name of Windows[®] 2000 are as follows: Microsoft[®] Windows[®] 2000 Server Microsoft[®] Windows[®] 2000 Professional
- The product name of Windows[®] XP are as follows: Microsoft[®] Windows[®] XP Professional Microsoft[®] Windows[®] XP Home Edition
- The product names of Windows Server TM 2003 are as follows: Microsoft[®] Windows Server TM 2003 Standard Edition



Manuals for this product

The manual provided is specific to the VC-20.

The manual is in PDF format. Adobe Acrobat Reader/Adobe reader is necessary to view the manuals.

Product description

The VC-20 is a USB 1.1 or USB 2 (full speed) interface for Digital Duplicators. The VC-20 can print directly from a PC to the Digital Duplicator. This will significantly improve the quality of printed material as well as speed up the printing jobs.



Contents

Int	roduction	3
Ma	unuals for this product	4
Pro	oduct description	4
1.	Getting Started Basic Specifications Digital Duplicator Driver Groups	6 7
	Package Contents VC-20	
2.	Installing the VC-20	9
	Requirements Minimum Computer Specifications Optional Computer Specifications	
	The VC-20 Software Components Installing the VC-20 Printer Driver and Utilities Installation Procedure for Windows 98SE, Windows ME, Windows 2000, Windows XP and Windows 2003 Server SE	
3.	Installing the VC-20 Hardware Connecting the VC-20	20
4.	Basic Operation of the VC-20	22
	Turning off VC-20	
	Printer Driver Properties	22
	Setting and Monitoring Utility	
	VC-20 GUIClient Functions Printing job with use of the VC-20	
5.	Uninstalling the VC-20	
6.	Troubleshooting	



1. Getting Started

Basic Specifications

Printer Language:	Windows GDI
Supported Resolutions:	300 and 400 dpi
Graphics Screening:	Coarse, Fine, Line Art, Error Diffusion Density control supported
Supported Drivers:	Windows 98 2nd Edition, Windows ME, Windows 2000, Windows XP and Windows 2003 Server (Standard)
Ports:	USB 1.1 or USB 2.0 (Full Speed)
On Board Memory:	16 MB
Supported Digital Duplicator	
Brands:	Ricoh, Gestetner, Rex Rotary, Nashuatec, Savin, Standard and Lanier



Digital Duplicator Driver Groups

Driver Name	Digital Duplicator Model
VC-20 B4 300 GDI	DX 3440 / JP755 / CP6123b+ / JP785C / CP6200C
VC-20 LG 300 GDI	DX 3340 / CP6143L / LDD120 / 3180DNP / SD360 / JP735 / CP6123L+ LDD735 / CP6123a+
VC-20 A4 300 GDI	DX3240
VC-20 A3 400 GDI	DX 4542 / CP6244+ / LDD245 / 3270DNP / SD430
VC-20 B4 400 GDI	



Package Contents VC-20

Check the following components are packed with the VC-20.



Important Note: The VC-20 is not supplied with a USB cable. This cable must be obtained separately.



2. Installing the VC-20

This section gives instructions for configuring the printer, and installing software and connecting the printer and computer.

Requirements

Before using this printer, make sure all environmental and electrical requirements are met.

Before beginning the installation, ensure the following:

- Ensure all of the items needed to complete a successful installation are available.
- Read the documentation to become familiar with the installation procedures.
- Have the following additional items available:
 - The User's Guide for the relevant Digital Duplicator.

Minimum Computer Specifications

The VC-20 requires an IBM compatible computer with a minimum specification of.

		Minimum	Recommended
1.	CPU	500 MHz	2GHz or more
2.	Hard Disk Drive	1 GB Free space	1 GB or more
3.	Memory	128MB	512MB or more
4.	Port	USB 1.1	USB 2.0
5.	Operating System	Win 98 SE or ME	Win 2000 or XP or 2003 Server SE

Optional Computer Specifications

To use the VC-20 User Interface, the TCP/IP networking protocol is required.



The VC-20 Software Components

The VC-20 software contains the following components:

VC-20PrinterServer

VC-20PrinterServer is the main software engine for the VC-20. It runs as a service application on the Windows operating system after installation.

Printer Driver

The GDI Printer Driver generates the print data.

USB Driver

The USB Driver enables the necessary support within the Windows operating system for the VC-20PrinterServer to communicate with the VC-20 hardware.

VC-20 GUIClient

The VC-20 GUIClient provides a graphical user interface which can be used to set and monitor functions of the VC-20. It is possible to print when the VC-20 GUIClient is not running.

Automatic Installer

The automatic installer on the CD-ROM assists to easily install all software components of the VC-20.



Installing the VC-20 Printer Driver and Utilities

Important: Do not plug the USB cable into the computer before the VC-20 software has been installed.

In order to run this install procedure, ensure the computer has been logged on with administrative rights.

Before beginning the driver installation, ensure the Windows Operating System CD is available.

Before running this install CD, ensure all programs are closed and files saved.

The software is located on the VC-20 Printer Drivers & Utilities CD ROM. The VC-20 installation wizard will automatically run when the CD ROM is inserted into the computer.

VC-20 Printer Driver & Utilities autorun CD ROM

- 1. Insert the CD ROM into the computer.
- 2. Select the installation language required and click [OK].





3. Select from the following options.

Quick Install - Installs the VC-20PrinterServer, VC-20 GUIClient, Printer Driver and USB Driver.

VC-20 GUIClient - Installs the Setting & Monitoring Utility software.

Select Language - Optional language selection.

Browse the CD ROM - Browsing of all the files and folders on the CD ROM.

Exit - Exits the installation wizard.

Readme - Additional information not available at the time the manual was written.

🚽 VC-20 Printer Driver and Utilities	×			
VC-20 Printer Driver and Utilities				
Quick Install	Please make a selection.			
VC-20 GUIClient				
	Select Language			
	Browse This CD-ROM			
	🛷 <u>Readme</u>			
	Exit			



Selecting Quick Install

Selecting the Quick Install button will automatically begin the installation procedure to install the VC-20PrinterServer, VC-20 GUIClient, Printer Driver and USB Driver. Follow the procedures below for the operating system, the VC-20 will be installed onto.

- Note: The installation procedure is the same for all supported operating systems. There may be minor differences in display of [Add Printer Wizard] as well, some order depending on the difference of operating system used.
- Important: When installing on Windows 98SE or ME, the operating system disk is required.

Installation Procedure for Windows 98SE, Windows ME, Windows 2000, Windows XP and Windows 2003 Server SE

1. Select the language required and click [OK].

Installer L	anguage	×
1 ¹⁰		
	English	•
	ОК	Cancel

2. Select [I Agree] to the VC-20 Software License Agreement.





3. Click **[OK]** to begin the installation procedure.



4. The installation will commence.

English Setup: Installing X Extract: gdiplus.dll
Show details
Cancel Nullsoft Install System v2.06 < Back Close

5. Windows 2000 and XP only. On completion of the initial installation procedure, the [Windows Add Printer Wizard] will automatically open. Click [Next].





6. Select [Local printer]. For Windows 2000 and XP, ensure [Automatically detect and install my Plug and Play printer] is not selected. Click [Next].

Add Printer Wizard
Local or Network Printer Is the printer attached to your computer?
If the printer is directly attached to your computer, click Local printer. If it is attached to another computer, or directly to the network, click Network printer.
Cocal printer
Automatically detect and install my Plug and Play printer
O Network printer
< Back Next > Cancel

7. For Windows 2000 and XP, in the [Select the Printer Port] dialogue box, select the VC-20 port. Click [Next].

For Windows 98SE and ME go to step 8 first and then step 7.

ld Printe	l Printer Wizard				
Select Cor	Select the Printer Port Computers communicate with printers through ports.				
Seli nev	Select the port you want your printer to use. If the port is not listed, you can create a new port.				
۰	Use the follov	ving port:			
	Port	Description	Printer		
	COM2:	Serial Port			
	COM3:	Serial Port			
	COM4	Serial Port			
	FILE	Print to File			
	VC-20	VC-20(USB)			
					• <u> </u>
	Note: Most co	omputers use the LPT1: p	ort to communicati	e with a local print	er.
0	C. Craste a new part				
~		porc.			_
	Type:	Local Port			<u> </u>
			Z Back	Nevts	Cancel
			<u>U</u> duk	TION /	Cancer



- Note: Windows 98SE and Windows ME do not automatically direct the installation to the printer driver files that are installed onto the computer. Click [Have Disk] and direct the installation to c:\Program Files\VC-20\Printer. Ensure the oemsetup.inf file is selected. Click [OK].
- 8. Select the VC-20 driver that matches the appropriate Digital Duplicator. Refer to the **Digital Duplicator Driver Groups** table in the front of this manual.

Add Printe	er Wizard
Add P Th	Vinter Wizard ne manufacturer and model determine which printer to use.
ő	Select the manufacturer and model of your printer. If your printer came with an installation disk, click Have Disk. If your printer is not listed, consult your printer documentation for a compatible printer.
Printers: VC-20 A VC-20 B VC-20 B VC-20 L VC-20 A	3 400 GDI 14 400 GDI 14 300 GDI 15 300 GDI 14 300 GDI
	<u></u> Windows Update
	< <u>B</u> ack <u>N</u> ext > Cancel

Note: For Windows 98SE and ME, the port selection dialogue box will appear. Go to step 7.



9. Change the [Printer name] if required. Click [Next].

Add Printer Wizard	
Name Your Printer You must assign a name for this printer.	Ŷ
Supply a name for this printer. Some programs o combinations of more than 31 characters. Printer name:	do not support server and printer name
VC-20 A3 400 GDI	_
	< <u>B</u> ack <u>N</u> ext > Cancel

10. Select if the printer will be shared on a network or not. Click [Next].

Add Printer Wizard					
Printer Sharing You can share this printer with other network users.					
Indicate whether you want this printer to be available to other users. If you share this printer, you must provide a share name.					
Do not share this printer					
C Share as:					
< Ba	ick Next > Cancel				

11. Select [No] or [Yes] to print a test page and click [Next].

Add Printer Wizard
Print Test Page To confirm that the printer is installed properly, you can print a test page.
Do you want to print a test page?
O Yes
< Back Next > Cancel

12. For Windows 2000 and XP only. At the [Completing the Add Printer Wizard], click [Finish].

Add Printer Wizard		
	Completing the Add Printer Wizard	
	You have successfully completed the Add Printer wizard.	
	You specifie	d the following printer settings:
	Name: Shared as: Port: Model: Default: Test page:	VC-20 A3 400 GDI <not shared=""> VC-20 VC-20 A3 400 GDI Yes No</not>
	To close thi	s wizard, click Finish.
		< Back Finish Cancel



13. The printer driver will be installed.

For Windows 2000 and XP, Windows displays a warning message relating to the certification of the driver, select the option to continue with the installation.

For Windows 98SE and ME. The computer will automatically reboot.

14. For Windows 2000 and XP only. When the installation procedure is complete, click [Close] in the VC-20 Setup utility.

🚏 English Setup:	
The VC-20 Software is successfully installed.	
Show details	
Cancel Nullsoft Install System v2.10 < Back	⊡ose

Note: To Install the printer driver only Select [Printers and Faxes] for Windows XP or [Printers] for Windows 2000 and Win9X, from [Settings] in the [Start] menu. Double click the [Add printer] icon and follow the [Add Printer Wizard]. When prompted browse for the VC-20 printer drivers in the following location on the hard drive of the computer.

 $c: \label{eq:vc-20} rinter \label{eq:vc-20} c: \label{eq:vc-20} rinter \label{eq:vc-20} c: \label{eq:vc-20} rinter \label{vc-20} rinter \label$

Alternatively, insert the VC-20 Printer Driver & Utilities CD ROM and browse for the printer driver file.



3. Installing the VC-20 Hardware

This section describes connecting the hardware of the VC-20 and the computer.

Connecting the VC-20

Important: This procedure must only be done after the software has been installed.

- 1. Connect the USB cable to the VC-20 port on the chassis of the Digital Duplicator.
- 2. Connect the opposite end of the USB cable to an available USB port on the computer.
- 3. The computer will automatically detect that new hardware has been found.



4. The computer will start searching for the VC-20 USB drivers that have been installed.



5. The VC-20 software will be installed.





6. The computer will open the [Files Needed] window. Select [OK].

Insert Dis	k	×
<u></u>	Please insert the Compact Disc labeled VC-20 Driver Installation Disk' into your CD-ROM drive (D:) and then click OK. You can also click OK if you want files to be copied from an alternate location, such as a floppy disk or a network server.	Cancel

7. At the prompt, direct the installation procedure to c:\Program Files\VC-20\USB to locate the [libusb0.sys].

Files Need	led	×
	The file 'libusb0.sys' on VC-20 Driver Installation Disk is needed.	OK Cancel
	Type the path where the file is located, and then click OK.	
	Copy files from:	
	C:\Program Files\VC-20\USB	Browse

8. For Windows 2000 and XP the [System Settings Change] window will open and will ask to restart the computer. Click [Yes]. For Windows 98SE/ME a message "Computer need to reboot" will appear. Click [OK] and the computer will automatically reboot. The VC-20 is ready to be used.

System Settings Change				
?	You must restart your computer before the new settings will take effect.			
<u>م</u> ه	Do you want to restart your computer now?			
	<u>Yes</u> <u>N</u> o			



4. Basic Operation of the VC-20

After completing all the installation procedures and installation of the relevant driver for the Digital Duplicator being connected to, the VC-20 is ready for use.

Turning on VC-20

Connect the USB cable between the VC-20 and the computer.

Turning off VC-20

Disconnect the USB cable between the VC-20 and the computer.

Printer Driver Properties

The VC-20 Printer Driver properties contains functions that are specific to the digital duplicator. To access the functions and for a description of each function see below.

Note: For Windows 98SE and ME the only supported function is Image Rotation. Selected in the [Device Option] tab.

- 1. Select the VC-20 printer driver installed in the Windows printers dialogue box.
- 2. Right click on the VC-20 printer driver and select [Properties].

🐝 VC-20 A3 400 GDI Properties ? 🗙
General Sharing Ports Advanced Security Device Settings
VC 20 A3 400 GDI
Location:
Comment:
Model: VC-20 A3 400 GDI
Features
Color: No Paper available:
Double-sided: No A4
Staple: No
Speed: 120 ppm
Maximum resolution: 400 dpi
Printing Preferences Print Test Page
OK Cancel Apply



3. In the [Properties] dialogue box select [Printing Preferences]. In the case of Windows 98SE and ME, select the [Device Options] tab.

爹 ¥C-20 A3 400 GDI Printing Pr	eferences	? ×
Layout Paper/Quality		
Orientation ← Portrait ← Landscape Page Order ← Front to Back ← Back to Front Pages Per Sheet: 1 ▼	Harris Carlos de	
	Advance	:d
	OK Cancel Aj	oply

4. Select [Advanced] from the [Layout] tab of the [Printing Preferences] dialogue box.

The digital duplicator functions are displayed. These functions can be set when a job is printed and will revert back to default on completion of the print.

To setup particular functions as default, select [Printing Defaults] from the [Advanced] tab of the [Properties] dialogue box and apply the settings.





Function	Options	Further Options	Description
Paper/Output	Paper Size	All supported paper sizes listed	Select paper size
	Copy Count	1-9999	Select number of prints
Document Options	Advanced Printing Features	Enable Disable	Activate the advanced printing features Deactivate the advanced printing features
	Halftoning	Auto Select Super Cell Dither 6 x 6 Dither 8 x 8	Windows selects an option Added gray levels Each spot = max 6x6 dots Each spot = max 8x8 dots
	Printer Features	Eco. Mode Default Off On	See duplicator manual Duplicator operator panel setting VC-20 disables mode VC-20 enables mode
		Clear Mode Default On	See duplicator manual Duplicator operator panel setting VC-20 enables mode
		Auto-Print after Master Making Default Off On	See duplicator manual Duplicator operator panel setting VC-20 disables mode VC-20 enables mode



Function	Options	Further Options	Description
Document Options	Printer Features	Rotate Image Default 180 ⁰	Image rotation Set Off as default. VC-20 rotates image by 180
		Speed Select Default 1 Slow	See duplicator manual Duplicator operator panel setting VC-20 sets print speed to
		2 3 Normal 4 5 Fast	slowest VC-20 sets print speed to 2 VC-20 sets print speed to normal VC-20 sets print speed to 4 VC-20 sets print speed to fastest
		Skip Feed Default Off 2 4 6	See duplicator manual Duplicator operator panel setting VC-20 disables mode VC-20 sets 2 skips VC-20 sets 4 skips VC-20 sets 6 skips

For more detail descriptions of the digital duplicator functions refer to the digital duplicator's operators manual.



Setting and Monitoring Utility

The VC-20 comes with a setting and monitoring utility called [VC-20 GUIClient]. This application is automatically installed during the software and printer driver installation described in section 2 of this manual. The Setting and Monitoring Utility has the following functions:

- 1. Monitor the condition of the VC-20 and the Digital Duplicator.
- 2. Cancel print jobs.
- 3. Set logging levels and define paper size mismatch prompt behavior.
- 4. Displays version information.
- 5. Define the spool path of print files sent to the VC-20.
- 6. Define the IP address of the computer directly connected to the VC-20.

To run [VC-20 GUIClient], select "Start", "Programs" (for XP "All programs"), "VC-20", "VC-20 GUIClient."

Note: The VC-20 can also conduct print jobs without running the [VC-20 GUIClient] setting and monitoring utility.

MG-2

VC-20 GUIClient Functions





Item	Description	Function	
[1]	Drop down menu	Access to version information and VC-20 settings.	
	VC-20 GUIClient		

👯 ¥C-20 GUIClient		
	Move	
×	Close	Alt+F4
	About	
	Settings	

Displays the VC-20 GUIClient version, VC-20PrinterServer version and the VC-20 PCB Firmware version.

YÇ.	VC-20		0
20	Copyright (C) 2005, ZipRI	0	
	Using XMLRPC Library under GNU LGP License		
Using LIBUSB Library under GNU LGP License		r GNU LGP License	
VC-20 (UIClient Version	20060227.132208.536	_
VC-20 F	rintServer Version	2.0/20060227.132208.536	_
		-	



Item Description

[3] Settings



Logging

Function

Displays the different settings that can be applied to the VC-20.

Default is not selected.
If selected logs VC-20 and
duplicator status information.
[Note] logs maximum detail.
[Critical] logs minimum information.
Note: Reboot the PC to effect this
change.



Item	Description	Function
	Size Mismatch Prompts	Enabled - If [VC-20 GUIClient] is running, [VC-20 GUIClient] will warn if a paper size mismatch has been detected and prompt to [Cancel] or [Retry] or [Ignore] . Disabled - [VC-20 GUIClient] will not warn if a paper size mismatch has occurred. Size Mismatch Prompts function only applies to duplicators that have paper size detection capability. Note: Reboot the PC to effect this change.
	Power Off Recovery	Enabled - VC-20 will resume master making from the last page printed if the duplicator was powered off during a multipage job. Disabled - VC-20 will not resume a multipage job interrupted by a duplicator power off. Note: Reboot the PC to effect this change.
	Test Processor	Tests the processor of the VC-20. Displays green square if processor is detected and functioning. Displays red square if the processor is not detected or not functioning.
	Test Memory	Tests the memory of the VC-20. Displays green square if memory is functioning. Displays red square if



Item	Description	Function
		memory is not functioning.
	VC-20PrinterServer IP Address	IP address of the computer the VC- 20 is installed on. Default 127.0.0.1 [VC-20 GUIClient] is installed on the same PC as VC-20. Note: Restart the [VC-20 GUIClient] for this setting to take effect.
		Port TCP/IP port used by [VC- 20PrinterServer] to communicate with [VC-20 GUIClient]. Default 4660. Note: Reboot the PC for this setting to take effect.
		Spool Path Displays the spool path that print files are sent to. Note: Reboot the PC for this setting to take effect.
[4]	VC-20PrinterServer Monitoring	Displays connection status between [VC-20PrinterServer] and [VC-20 GUIClient].
		Connected
		Disconnected



Item	Description	Function
[5]	VC-20 Monitoring	Displays VC-20 status.
		VC-20 connected.
		VC-20 not connected.
[6]	Duplicator Resolution	The [VC-20 GUIClient] detects and display the resolution of the duplicator the VC-20 is connected to.
	300	300dpi duplicator detected.
	400	400dpi duplicator detected.
[7]	Drum Colo(u)r	The [VC-20 GUIClient] displays black drum or colo(u)r drum loaded in the duplicator.
	•	Black type drum in the duplicator.
	•	Colo(u)r type drum in the duplicator.



Item	Description	Function
[8]	Job Cancel Button	Select to cancel a print job.
	C/O	Cancel print job.
	C/ 0	Orange when job is being cancelled.
[9]	Job Tray	Displays if a job is being processed by the VC-20.
		Job tray empty.
		Job being processed.
		PC sending page to VC-20 memory.
[10]	Duplicator Monitoring	Monitors and displays the status of the duplicator.
		Duplicator not found.
		Duplicator ready.



Item Description Function		Function	
		Duplicator error	

Note: "Duplicator Error" symbol will also be shown if the Duplicator is in "Print Not Finished" condition. To clear this error the print job should be completed on the Duplicator.



Duplicator busy.



Printing job with use of the VC-20

Before sending a print job, ensure the correct size paper is loaded in the machine. If the VC-20 does not find the size of paper that it is required to print on from the printer driver, it will indicate a paper mismatch error if [Size Mismatch Prompt] is enabled.

To print to the VC-20, select the print option from the file menu of the application. In the print dialogue window, select the VC-20 driver installed and set the quantity of prints required. In the properties section in the print dialogue box, choose the size of paper the job is to be printed on. Once these selections have been made, press [Print] or [OK] depending on the application.

The file is processed by the VC-20. If the [VC-20 GUIClient] application is running, the [Job Tray] function will indicate a job is being sent. See [VC-20 GUIClient] function table. When the processing is complete, the Digital Duplicator icon will change from green to orange and the master will be cut.



5. Uninstalling the VC-20

This section describes uninstalling the VC-20 GUIClient software and the VC-20 printer driver.

- 1. Disconnect the USB cable from the computer.
- 2. Select [Printers] from [Settings] in the Start menu.
- 3. Select and right click on the VC-20 driver. Select [Delete].



4. Click [Yes] to confirm the deletion.



5. Select [Control Panel] from [Settings] on the [Start] menu.



6. Select "Add or Remove Programs".

🗟 Control Panel						_ 🗆 ×
File Edit View Favorites Tools	; Help					
🗢 Back 👻 🖘 🔹 🔞 Search	🔁 Folders 🛭 🖗) R R >	< n 🔤 -			
Address 🐼 Control Panel						▼ ∂°∞
	<u>E</u>				*	
Control Panel	Options	Hardware	Programs	Tools	Updates	Date/ fille
Add/Remove Programs Installs and removes programs and Windows components	Display	Folder Options	K a Fonts	Game Controllers	Internet Options	Keyboard
Windows 2000 Support	Ø	<u>_</u>		ų	S	8
	Mouse	Network and Dial-up Co	Phone and Modem	Power Options	Printers	Regional Options
		0			See.	
	Scanners and Cameras	Scheduled Tasks	Sounds and Multimedia	System	Users and Passwords	
I Installs and removes programs and Wind	ows components	;			🖳 My Com	puter //

- 7. Scroll and locate the VC-20 GUIClient application.
- 8. Select the program and click "Change/Remove".





9. The VC-20 GUIClient uninstall port monitor will display during the uninstall procedure. A green tick will confirm completion.

😭 English Uninstall: Uninstalling	
Execute: "C:\Program Files\VC-20\addmon2.exe" -r	
Show details	
Cancel Nullsoft Install System v2,10	Close





6. Troubleshooting

Check the steps below and refer to the table to solve problems with the VC-20.

- 1. Check that the USB cable is securely connected to the Digital Duplicator and the computer.
- 2. Check the both computer and the Digital Duplicator are powered on.
- 3. Check that all operator recoverable errors are cleared on the Digital Duplicator.
- 4. Open the **[VC-20 GUIClient]** user interface and check that the Digital Duplicator and the VC-20 have been detected.
- 5. Open the **[Device Manager]** and check that the VC-20 hardware is installed. A yellow warning triangle indicates a problem. Refer to the table on the next page.
- 6. Check that the VC-20 printer driver is connected to the port named [VC-20].
- 7. Check that the [VC-20PrinterServer] service is running.
- 8. Check that the VC-20 printer driver is installed and is the correct driver for the connected Digital Duplicator. Refer to the Digital Duplicator Drivers Group Table.

The table on the next page describes errors or problems which can occur, the cause and the resolution.



Error	Cause	Solution	
The [VC-20 GUIClient] does not detect the VC- 20	The VC-20 USB driver is not installed.	Install the VC-20 software from the installation CD-ROM.	
	The VC-20 is not connected to the computer.	Connect the VC-20 to the computer with the USB cable.	
	The [VC-20 GUIClient] is not set to the computer that the VC-20 is installed on.	In [VC-20 GUIClient] Settings, the dialogue called VC-20 GUIClient Properties, must be set as follows. [VC-20PrinterServer IP Address] enter the IP address of the computer that is connected to the VC-20. [Port] enter 4660. (If the GUIClient is on the same computer as the VC-20 then the IP address entry for [VC-20PrinterServer IP Address] should be 127.0.0.1)	
	A firewall is blocking [VC-20 GUIClient] from connecting to the VC-20 [VC-20PrinterServer] service.	Configure the firewall to allow access to the computer that the VC-20 is installed on.	
The VC-20 is not located in the [Device Manager] on the computer.	The USB cable is not connected.	Connect the USB cable between the computer and the Digital Duplicator.	



Error	Cause	Solution	
The [VC-20 GUIClient] does not detect the Digital	The Digital Duplicator is switched off.	Switch the Digital Duplicator on.	
Duplicator.	There is a fault with the Digital Duplicator.	Restart the Digital Duplicator. Restart the computer the VC-20 is connected to. If the problem persists, contact the service technician.	
The VC-20 is not located in the [Device Manager] on the computer.	The USB cable is not connected.	Connect the USB cable between the computer and the Digital Duplicator.	
The VC-20 is located in the [Device Manager] but there is a yellow question	The USB driver is not installed correctly.	Install the VC-20 software from the installation CD ROM.	
mark next to the entry.	The computer has not initialized the VC-20 correctly.	Disconnect and reconnect VC-20 USB cable.	
	The computer operating system has not assigned resources to the VC-20.	Restart the computer.	
	There is insufficient power on the USB Port for the VC-20.	Disconnect any other USB devices connected to the same USB port or hub that the VC-20 is installed on.	



Error	Cause	Solution
The VC- 20PrinterServer is not located in Windows Services	The VC-20 software has not been installed correctly	Install the VC-20 software from the installation CD ROM
There is no VC-20 port available in the printer drivers port section	The VC-20 software has not been installed correctly	Install the VC-20 software from the installation CD ROM
The image printed on the Digital Duplicator is reduced or enlarged in size	The incorrect printer driver is installed for the Digital Duplicator	Delete the incorrect printer driver and install the correct printer driver. Refer to the Digital Duplicator Driver Groups Table for the correct driver.
The printer driver says the printer is off-line	The VC-20 spool directory is inaccessible to the current user logged on to the computer	Change the spool directory location to where all users have read and write permission. Restart the computer.
		Allow all users read and write permissions to the spool directory.

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