Operators Manual

UC5e (Revision 2-1)

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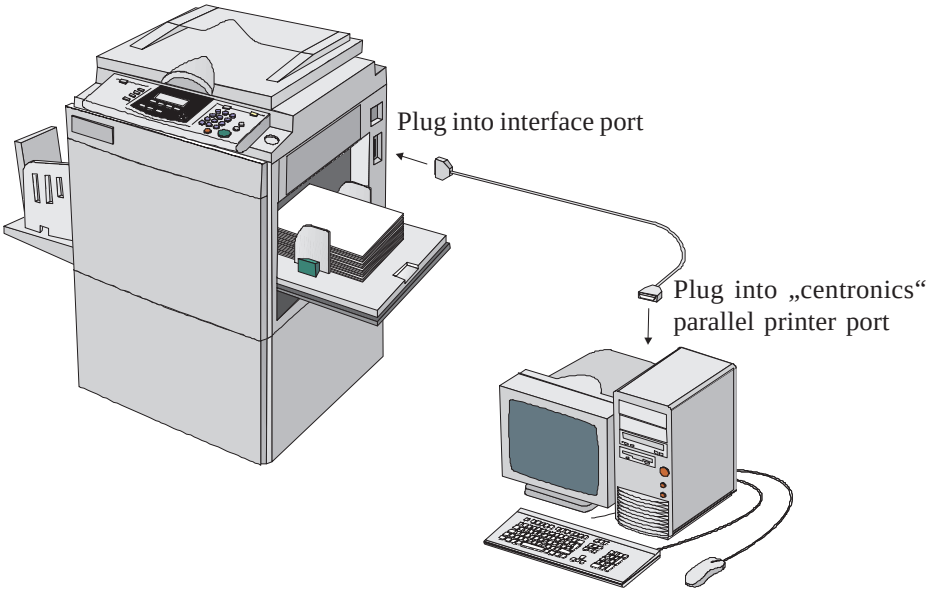
Introduction

The UC5E is a high speed interface for Digital Duplicators. With a UC5E you can print directly from your PC to your Digital Duplicator. This will significantly improve the quality of your printed material as well as speed up your printing jobs.

We are confident that you will find it a pleasure to use and an asset to your organisation**.**



Windows 95/98/ME, Windows NT ,Windows 2000 and Windows XP based PC.

Safety Information

This equipment must be connected to SELVcircuits and other equipment complying with the requirements of SELV circuits as defined in the standards EN60950,IEC950 and CSAC22.2 N0. 950, UL 1950.

Sicherheit-Auskünfte

DieseAusrüstung muß zur SELV Schaltungen von anderenAusrüstungen, diemitden Forderungen von SELV Schaltungendie in den Standards EN60950, IEC950 und CSAC22.2 N0 950, UL1950 definiert werden, nach kommen.

Renseignements de sécurité

ILest absolunent nécessaired'interconnecter cet équipment dux circuits SELVde touté quipment qui se conforme dux besoirs des circuits SELV comme précisés dux standards EN60950, IEC950 et CSAC22.2 NO. 950, UL 1950

Basic Specifications

Printer Language:	Windows GDI,
Supported Resolutions:	300, 400 and 600 dpi.
Graphics Screening:	Coarse, Fine, Line Art, Error Diffusion. Density control supported.
Supported Drivers:	Win 95/98/ME., Win 2000, Win NT, Win XP
Ports:	ECP/EPP parallel port.
On Board Memory:	16. MB
Supported Digital Duplicator Brands:	Ricoh, Gestetner, Rex Rotary, Nashuatec, Savin and Standard. NB check that your model has interface support.
Certification	CE, UL, FCC, Class A.
Supply Voltage	5 Volts from Digital Duplicator

Digital Duplicator Driver Groups

Driver Name	Model	Digital Duplicator Model
ZipRIP Classic A	C224	VT2200/5327/1252/CP327/3200DNP
	C226	VT2250/5329L/2546/CP329L/325DNP
	C222	VT2400/5360/1270/CP360
ZipRIP Classic B	C210	VT3500/5375/1280/CP375
	C218	VT3600/5380/1285/CP380
	C223	VT3800/5385/1290/CP385/330DNP
ZipRIP Classic X	C228	VT6000/5390/1295/CP390/3400DNP/SD600
ZipRIP Pro A	C231	JP1010/5306/1224/CP306
	C237	JP1210/5308/1225/CP308
	C248	JP1215/5308+/1225+/CP308+
ZipRIP Pro B	C231	JP1030/5306L/1224L/CP306/3150DNP/D300
	C231	JP1050/5306B/1224B/CP306B
	C237	JP1230/5308L/3150eDNP/SD330
	C237	JP1250/5308B/1225B/CP308B
	C247	JP2800/5425C (China)
	C248	JP1255/5308b+/1225B+/CP380
	C248	JP1235/5309L/3160DNP/LDD020/SD333550
	C248	JP1250/5300 (China)
	C252	JP750/6123CP
	C252	JP780C/5410C (China)
	C252	JP730/6123LCP/LDD730
ZipRIP Pro C	C229	JP5000/5450/1560/CP450/3350DNP/SD400
	C239	JP5500/5450/5455/1560/CP450/3360DNP/ SD450
	C249	JP4500/CP6244/3560DNP/SD420/LDD145

*Models with suffix PT indicate additional paper tray unit installed

Digital Duplicator Driver Groups (Continued)

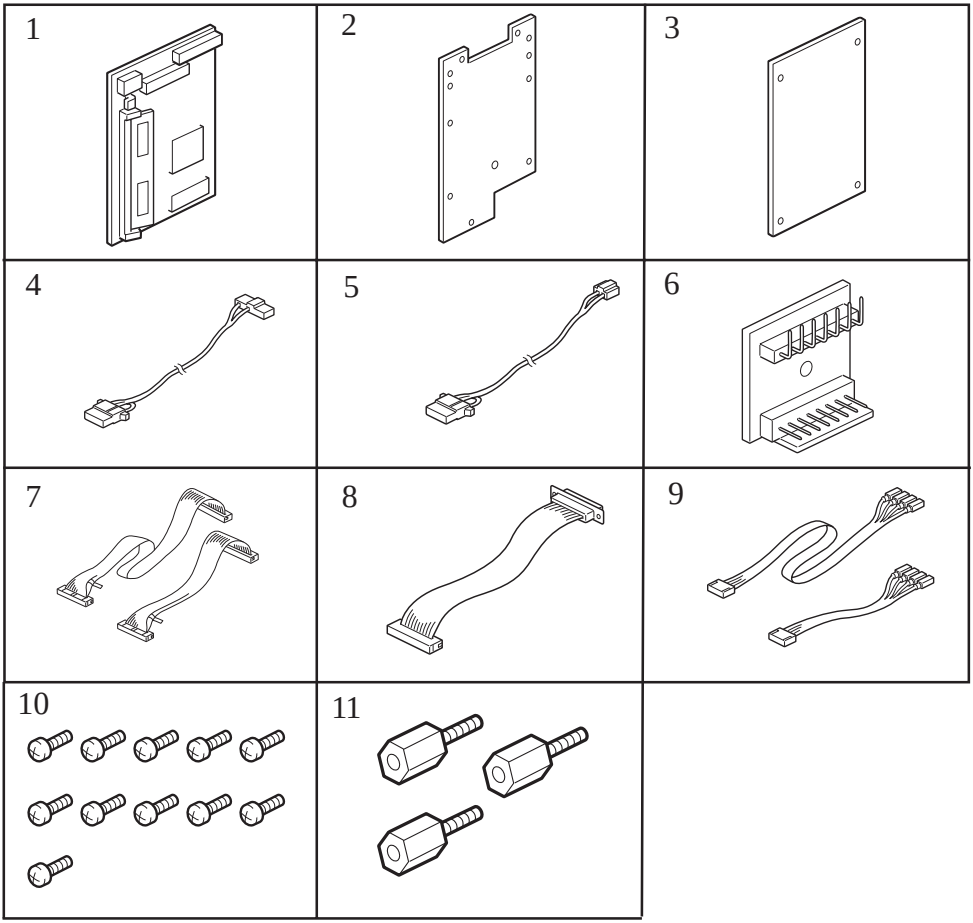
Driver Name	Model	Digital Duplicator Model
ZipRIP Pro C PT	C232	JP5800/5480/1580/CP480
	C239	JP5500/5450/5455/1560/CP450/3360DNP/ SD450
ZipRIP Pro E	C238	JP3000/5430/1330/CP430/3260DNP/SD370 JP3800/5428C (China)
ZipRIP Pro X	C235	JP8000/5490/1395/CP490/3450DNP/SD630
	C244	JP8500/5490+/5499/1395+/CP490+/ 3460DNP/SD650
ZipRIP Pro X PT	C235	JP8000/5490/1395/CP490/3450DNP/SD630
	C244	JP8500/5490+/5499/1395+/CP490+/ 3460DNP/SD650

*Models with suffix PT indicate additional paper tray unit installed

Package Contents

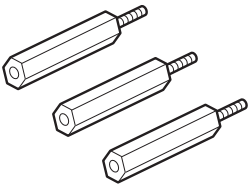
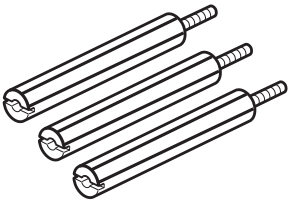
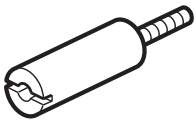
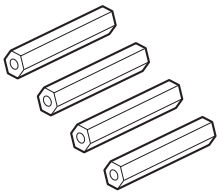
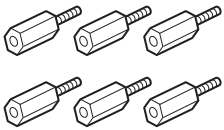
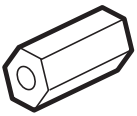
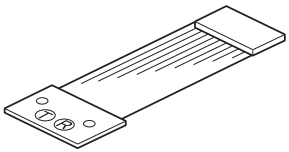
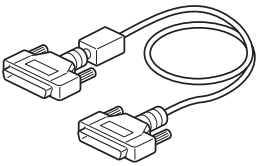
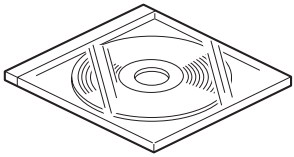
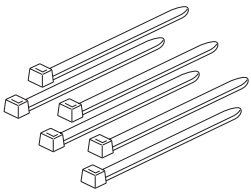
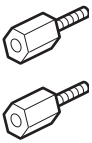
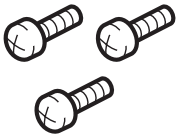
Check that you have received the following Items in your UC5E package.

Components For GDI UC5E.



1. Main Board
2. Mounting Plate
3. Mounting Plate Cover
4. 2-pin cable and connector - C235
5. 2-pin cable and connector - C237
6. Keypad PCB
7. 26-pin MPU Ribbon cable (C235, C237 and C238)
8. 26-pin to 25-pin Ribbon PCB to Cover
9. 8-pin Ribbon cable - The long cable is for C237 the other is for C235 and C238.
10. 11 x M3 x 6mm Screws
11. 3 x M4 x 10mm Standoffs (C249)

www.ZipRip.com Inside

12 	13 	14 
15 	16 	17 
18 	19 	20 
21 	22 	23 

12. 3 x M3 x 35mm Standoff
13. 3 x M4 x 45mm Standoff
14. 1 x M4 x 26mm Standoff
15. 4 x M3 x 25mm FF Standoff
16. 6 x M3 x 10mm MF Standoff
17. 1 x M3 x 10mm FF Standoff
18. Marguard LED and Button
19. PC DB25 Male to DB25 Male parallel Cable
20. Installation CD and manuals
21. 6 x Cable Ties
22. 2 x 2.6mm Standoff-post - suppled with IF Kit.
23. 3 x M4 x 6mm Screws

Testing your UC5E

Note: The UC5E keypad is not accessible if you have installed on the ZipRip Pro X range of machines. The test page option is only avaiable for the ZipRip Pro A and B range of machines.

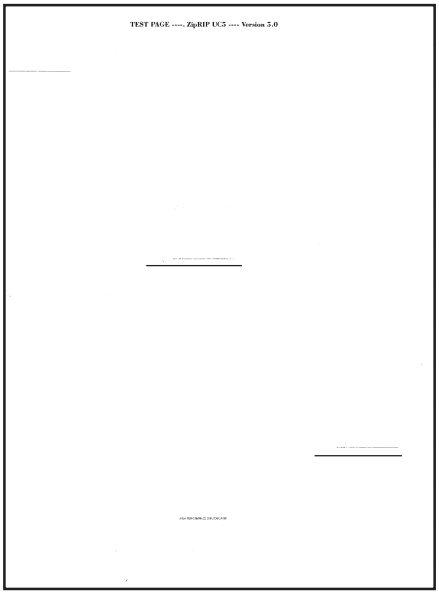
Once the UC5E has been installed, you can produce a test page before continuing to install the printer drivers on your computer.

To produce a test page, put your Digital Duplicator “on-line” and press the “T” Button (use tip of pen or similar object)

After a short delay a test page should be printed. The test page should look like the illustration below.

Note that the test page will print as an A4 sheet on a 300dpi Digital Duplicator. If the Digital Duplicator has a higher resolution then the output will appear smaller. - This is normal.

If a test page is not created correctly, then refer to the section “Troubleshooting your UC5E



Activity Indicator

The red activity indicators on the UC5E keypad show the status of the UC5E.

Note: The UC5E keypad is not accessible if you have installed on the ZipRip Pro X range of machines. The activity of the UC5E in this case is shown on the front of the machine. Refer to your machine operators manual for name and position.

The table below explains the different status indications.

"T" Indicator Display	Meaning
Flashes On after the turned on.	UC5E initialising - the light will flash UC5E is once when switched ON and then flash for the firmware version number. I.E. six flashes indicates firmware version 6.
Flashing rapidly.	The UC5E is receiving a print job.
Continuously on.	The UC5E has received a print job and is now waiting.
Continuously off.	The UC5E is idle.
Flashing slowly and evenly.	There is an error on the Digital duplicator, such as paper jam.

GDI Printer Driver Installation

NOTE: Before beginning the driver installation ensure you are in possession of your Windows Operating System CD.

Once you have installed and tested your UC5E hardware, you will need to install a GDI printer driver. Please follow the instructions relating to the operating system installed on the PC connected to the UC5E.

Note: To allow fastest printing to the UC5E, we recommend that the parallel port is set to "ECP Mode". On most new PC's this is the default setting. However, on older PC's you may have to set this in the BIOS configuration utility. If you are unsure of how to do this, please check with your PC supplier, or IT support staff. As a guide, most PC's enter the BIOS when either "delete" or "F1" keys are pressed at boot up. Once the BIOS programme is running the "Parallel Port Mode" setting can generally be found in the "Chipset Features" or "Integrated Peripherals" section.

The following pages will give detailed and illustrated instructions on how to install the GDI Printer driver for the following operating systems:-

Windows 95/98

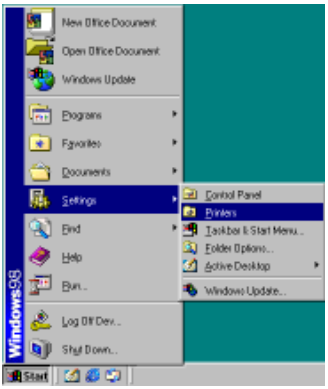
Windows NT

Windows 2000

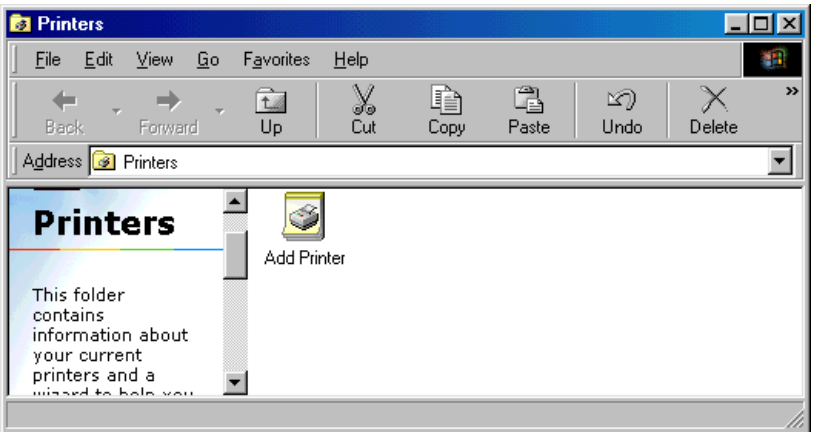
Windows XP

Installing GDI drivers for Windows 95/98/ME

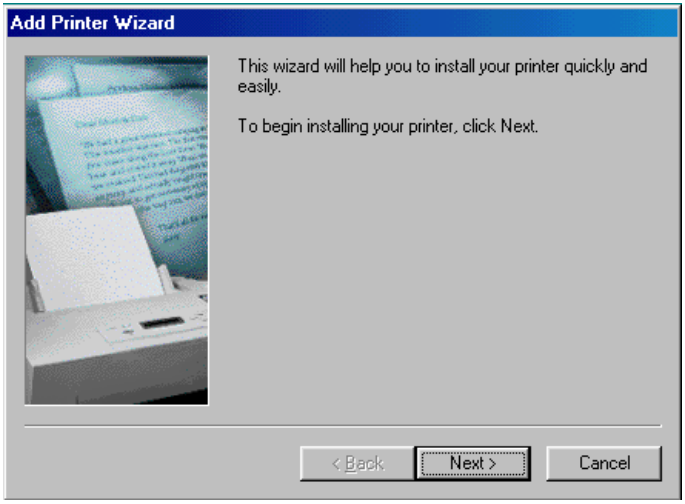
Refer to page 8 for correct machine and driver setting.
To install the driver you will need the UC5E Installation CD ROM and your Windows operating system CD.
The first step is to add a printer driver. Choose the “Printers” menu from the “Setting” menu in the Windows “Start” menu.



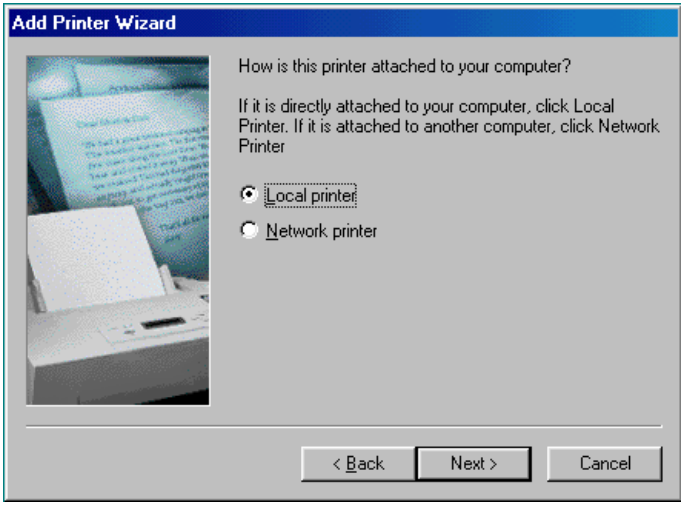
The Printers folder will be shown, as illustrated below. If you have any printer(s) already installed, these will be listed here. With the mouse, double-click on the “Add Printer” icon.



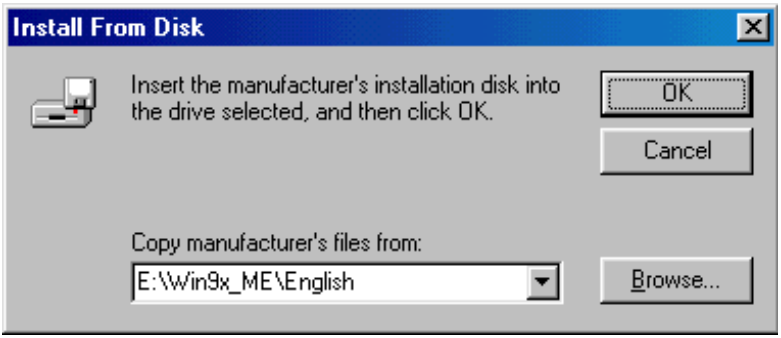
The “Add Printer Wizard” will be displayed. This will show a series of dialogue boxes with questions about the printer driver you are installing. Dialogues which require specific input for the UC5E are covered in the following pages.



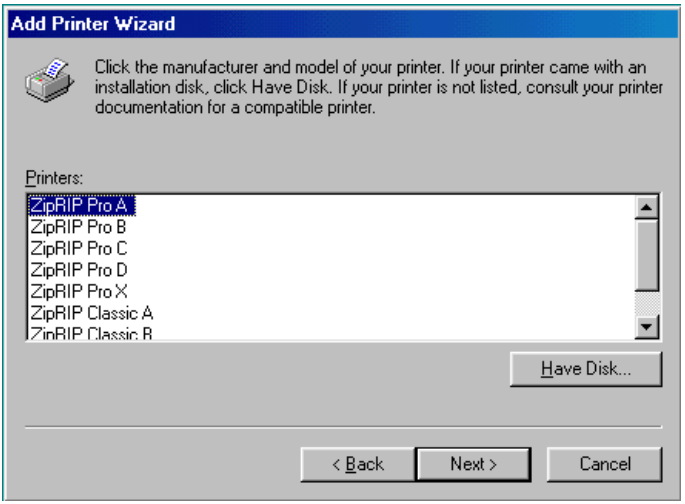
Choose “Local Printer” and click on “Next”.



You should now click on “Have Disk”. A dialogue box labelled “Install from Disk” will appear. Enter the location of the directory containing the UC5E printer driver. This will be on the supplied UC5E Installation CD ROM in a directory called “win95”. Select “Browse” and locate the drive that contains the UC5E CD ROM. For example, if the drive used for your CD ROM drive is “X” then enter “X:\win95”.

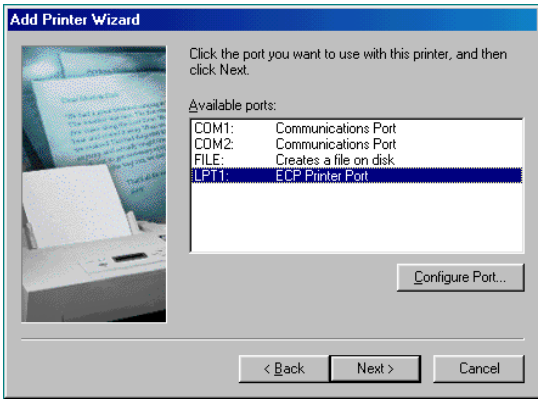


The following dialogue box will appear. Select the driver name that matches the Digital Duplicator you are installing the UC5E on and click “Next”. (Refer to page 7 for the driver list).

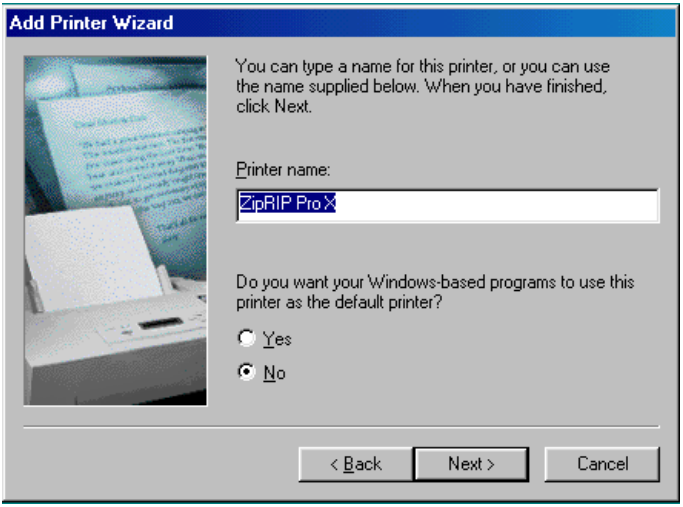


The files needed for the UC5E printer driver will now be installed. Depending on how your system is configured, you may need to insert your Windows Operating System CD as this holds some of the files needed by the printer driver.

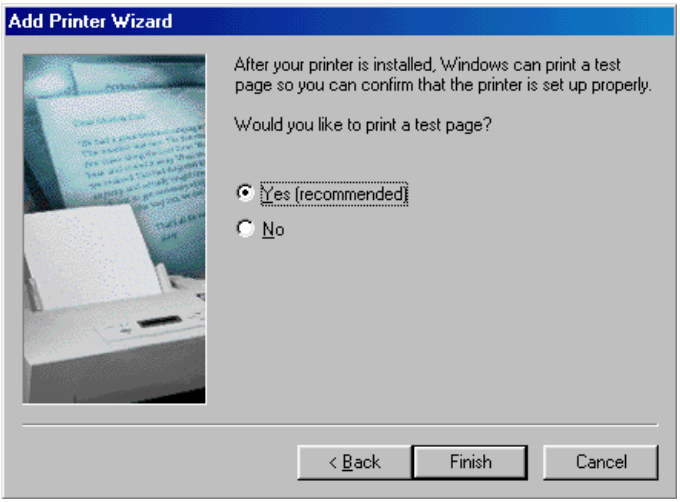
You now need to select the “Port” that the UC5E will be connected to. This is normally LPT1:. If you have more than one parallel port on you PC, be sure to select the appropriate port in this dialogue. Click “Next” once the port is selected.



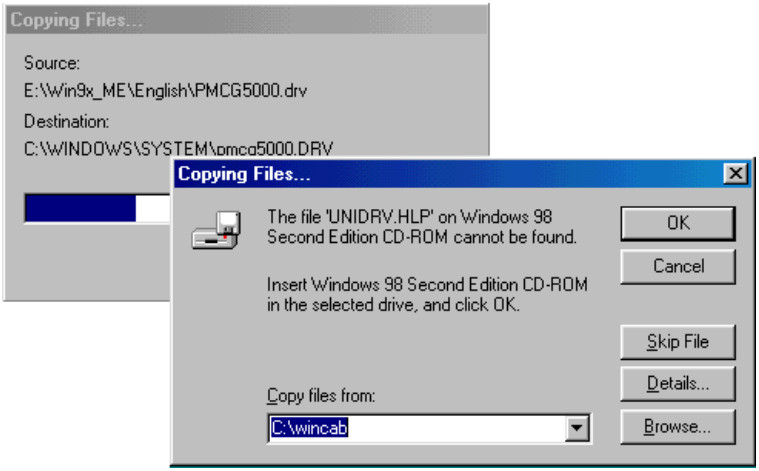
Enter the name that you wish the UC5E to be seen as on the computer. Click “Next” once the name has been entered.



You can now set windows to print out a test page ,once the driver is installed, to ensure that the UC5E is functioning correctly.



The UC5E printer driver will now start to install. As this is installing, you may be prompted to insert the Windows Operating System CD. If you selected "print test page" earlier on, the UC5E should print a Windows 95/98/ME test page.

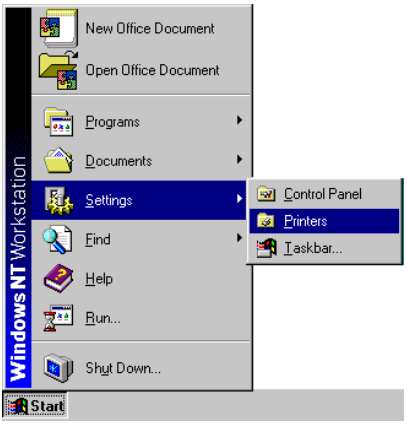


Installing GDI drivers for Windows NT.

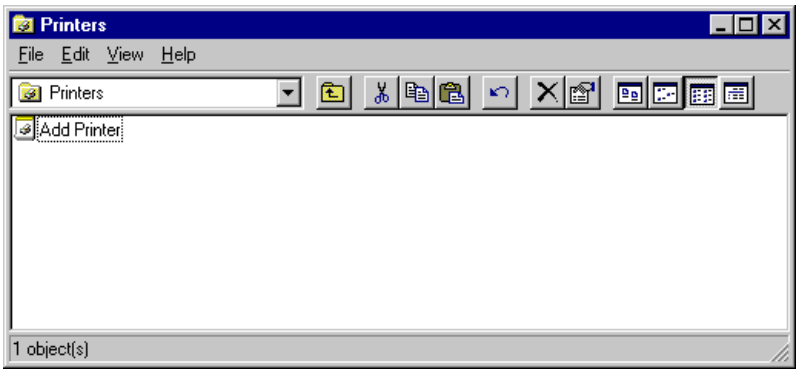
Refer to page 8 for correct machine and driver setting.

To install the printer driver you will need the UC5E Installation CD ROM as well as the Windows NT operating system CD.

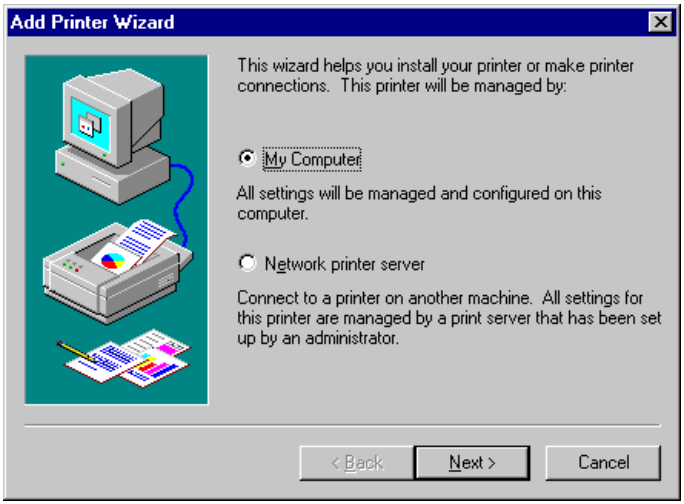
The first step is to add a printer driver. Choose the “Printers” menu from the “Setting” menu in the Windows “Start” menu.



The Printers folder will be shown, as illustrated below. If you have any printer(s) already installed, these will be listed here. With the mouse, double-click on the “Add Printer” icon.



The "Add Printer Wizard" will be displayed. This will show a series of dialogue boxes with questions about the printer driver you are installing. Dialogues which require specific input for the UC5E are covered in the following pages.
If you are installing the printer driver on the computer connected directly to the

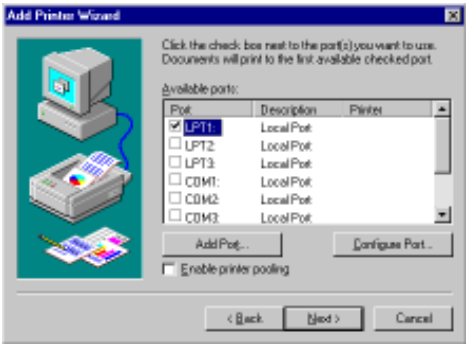


UC5E, the choose "My Computer" and click "Next". Alternatively, if you are installing the driver onto a machine that will be connected to the UC5E attached to another computer over a network, then choose "Network printer server".

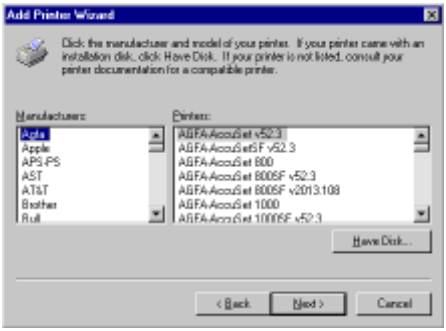
If "My computer" was selected then a list of available ports will be displayed as illustrated below. Select the port you have connected the UC5E to and click "Next". LPT1: is the most likely port to be used.

If "Network print server" was selected then a dialogue box will appear asking for you to specify the network path of the shared printer. Enter the network path and continue the installation.

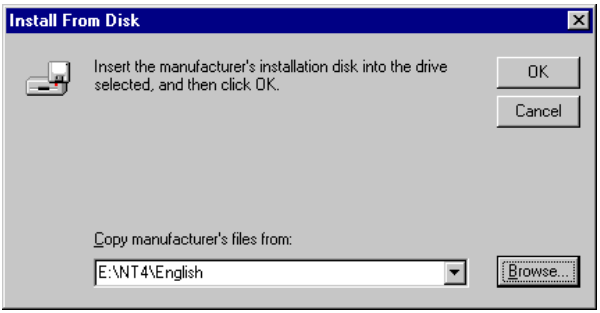
After defining the port to be used Windows NT displays a dialogue box listing standard drivers supplied on the Windows NT operating system CD. The UC5E



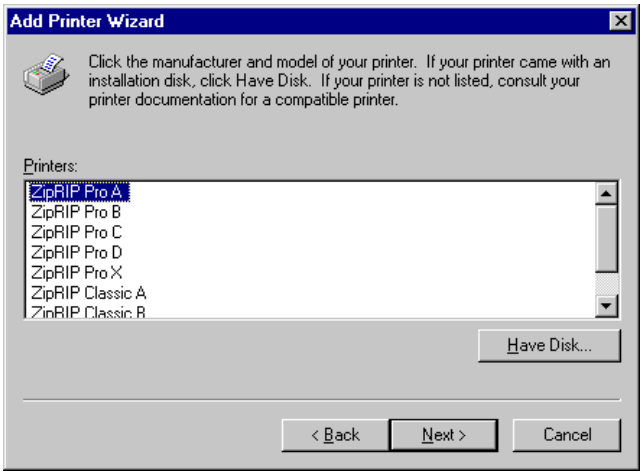
drivers must be installed from the supplied UC5E Installation CD ROM. Click "have disk" at this dialogue box.



In the dialogue box shown enter the letter of the CD ROM drive of **YOUR** computer. For example if X is the CD ROM drive letter then enter "X:\winnt4" and click "OK".

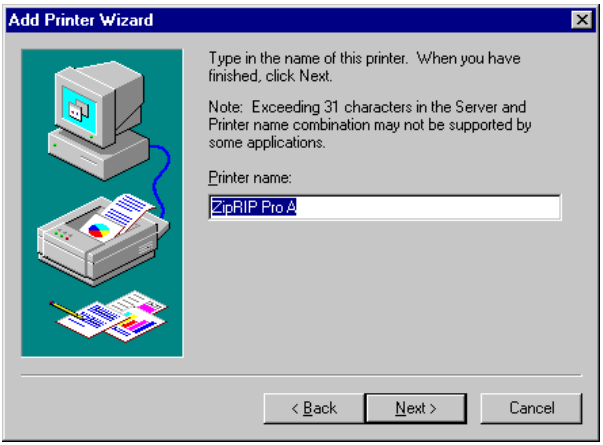


A dialogue will be displayed with a list of Driver Names. Select the driver that matches the Digital Duplicator you are installing on the UC5E and click "Next". (Refer to page 7 for the driver list).

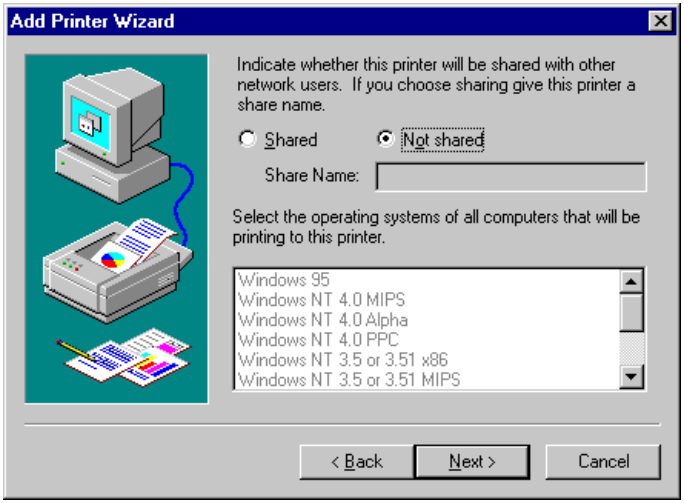


The files needed for the UC5E printer driver will now be installed. Depending on how Windows NT was configured, you may need to insert the Windows NT operating system CD as this holds some files needed by the printer driver.

In the following dialogue box enter the name that you wish the UC5E to be seen as. You can also choose to make the UC5E the default system printer.



You can now choose to share the UC5E over your local area network. To do this select “Shared” and specify a suitable name for the printer to be identified as across the network. It is also possible to share the printer at a later stage if required. Select “Next” when done.



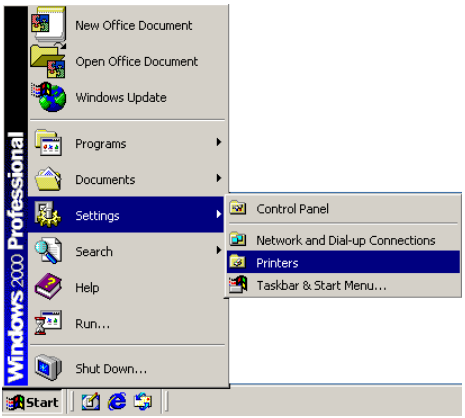
In the final dialogue box you can specify that Windows NT prints a test page to the UC5E once the drivers are installed. Click “Next” to continue. The drivers will now be installed, depending on your NT installation you may be prompted for the Windows NT installation CD. The driver should now be correctly installed.

Installing GDI drivers for Windows 2000 and XP

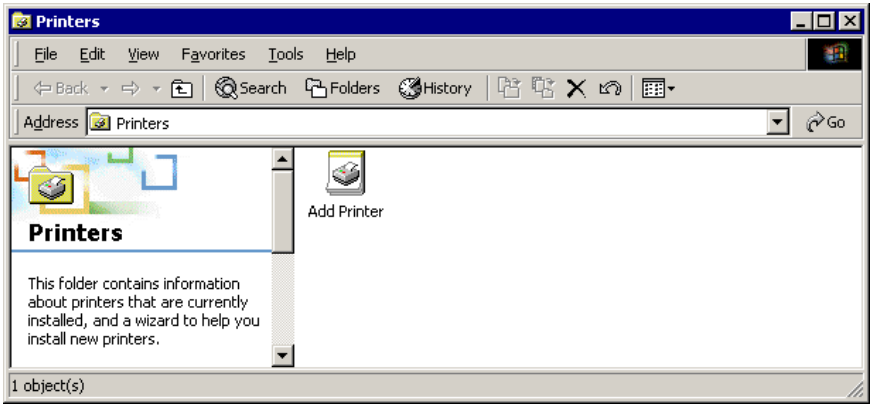
Refer to page 8 for correct machine and driver.

To install the printer driver you will need the UC5E Installation CD ROM as well as the Windows 2000/XP operating system CD.

The first step is to add a printer driver. Choose the "Printers" menu from the "Setting" menu in the Windows "Start" menu.

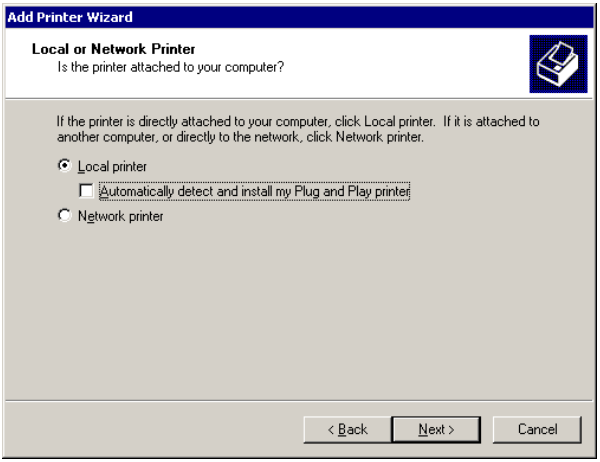


The Printers folder will be shown, as illustrated below. If you have any printer(s) already installed, these will be listed here. With the mouse, double-click on the "Add Printer" icon.



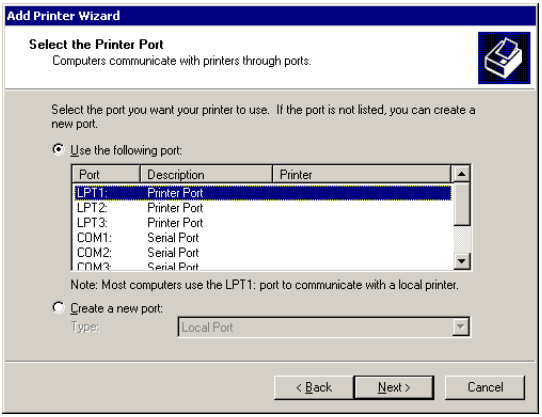
The "Add Printer Wizard" will be displayed. This will show a series of dialogue boxes with questions about the printer driver you are installing. Dialogues which require specific input for the UC5E are covered in the following pages.

If you are installing the printer driver on the computer connected directly to the UC5E, the choose "Local Printer" and click "Next". Alternatively, if you are installing the driver onto a machine that will be connected to the UC5E attached to another computer over a network, then choose "Network printer".

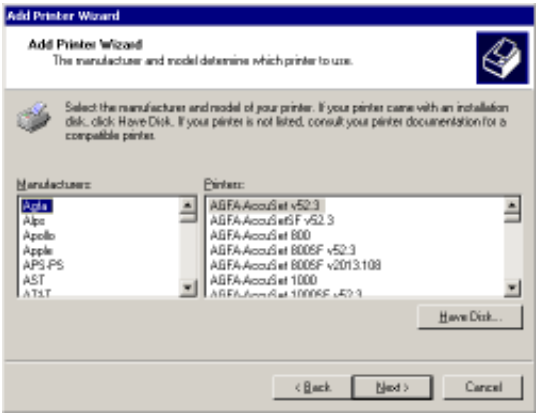


If “Local printer” was selected then a list of available ports will be displayed as illustrated below. Select the port you have connected the UC5E to and click “Next”. LPT1: is the most likely port to be used.

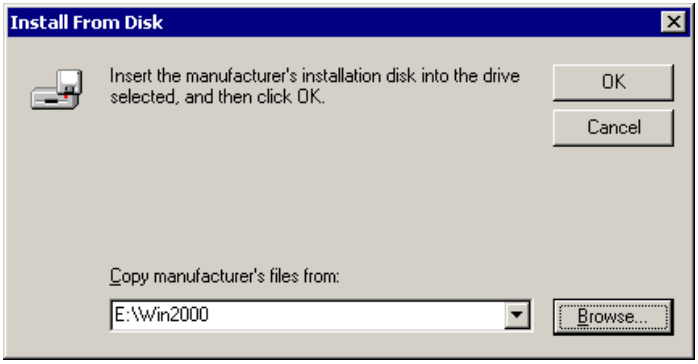
If “Network printer” was selected then a dialogue box will appear asking for you to specify the network path of the shared printer. Enter the network path and continue the installation.



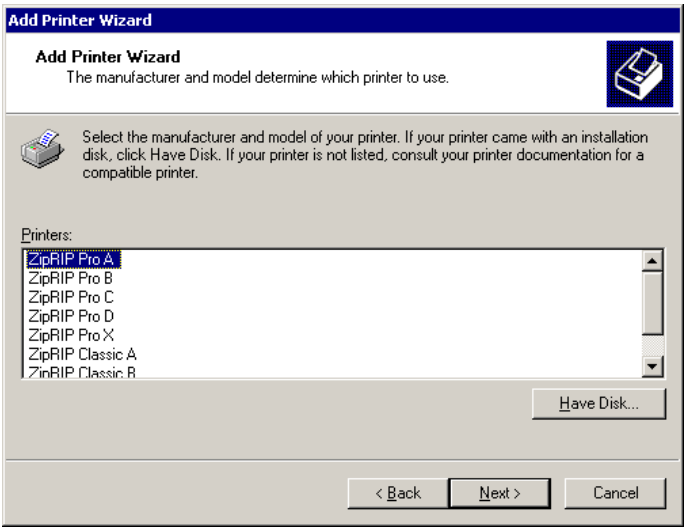
After defining the port to be used, Windows 2000/XP displays a dialogue box listing standard drivers supplied on the Windows 2000/XP operating system CD. The UC5E drivers must be installed from the supplied UC5E Installation CD ROM. Click “have disk” at this dialogue box.



In the dialogue box shown enter **YOUR** CD ROM Drive Letter eg “D:\” and click “OK”.

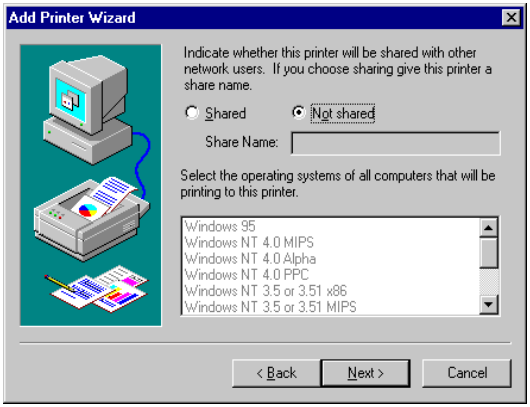


A dialogue will be displayed with a list of driver names (Refer to the driver list on page 8 for the model of machine you are installing onto). Select the model that matches the Digital Duplicator you are installing the UC5E on and click “Next”.

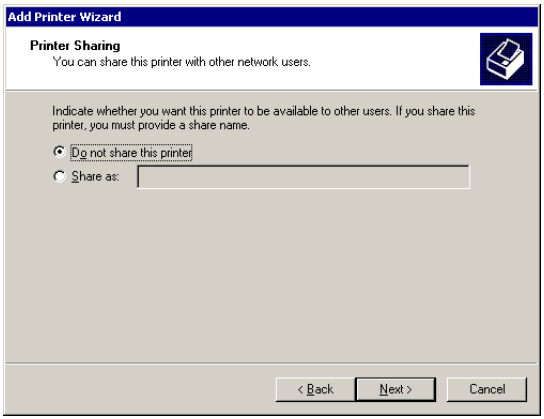


The files needed for the UC5E printer driver will now be installed. Depending on how Windows 2000/XP was configured, you may need to insert the Windows 2000/XP operating system CD as this holds some files needed by the printer driver.

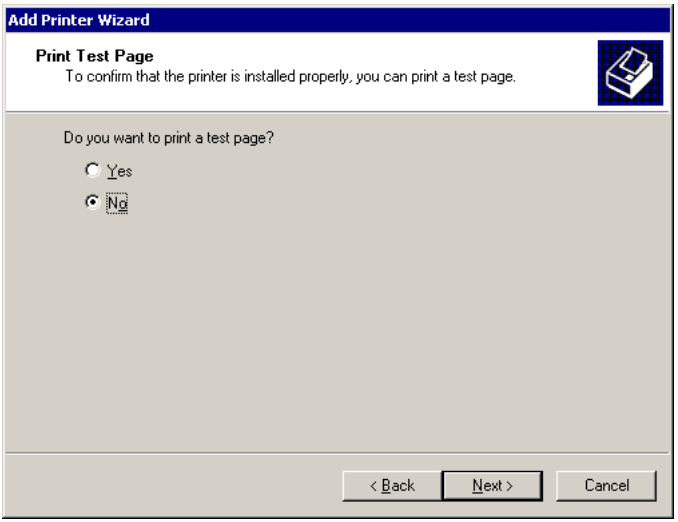
In the following dialogue box enter the name that you wish the UC5E to be seen as. You can also choose to make the UC5E the default system printer.



You can now choose to share the UC5E over your local area network. To do this select "share as" and specify a suitable name for the printer to be identified as across the network. It is also possible to share the printer at a later stage if required. Select "Next" when done.

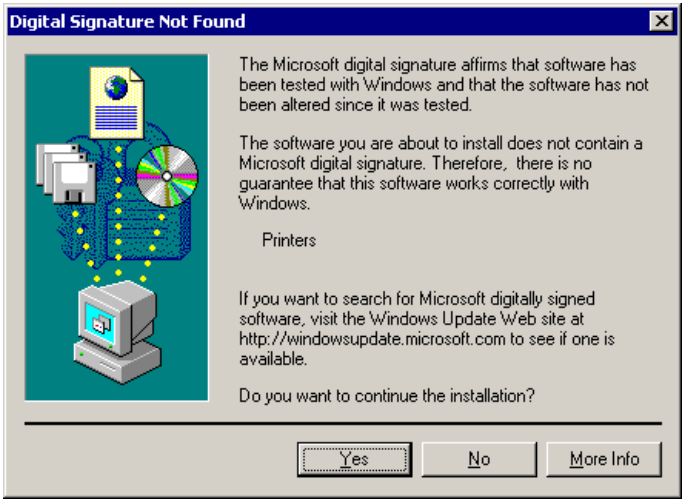


In the next dialogue box you can specify that Windows 2000 prints a test page to the UC5E once the drivers are installed. Click "Next" to continue. The drivers will now be installed, depending on your system specifications you may be required to type a path to the UC5 drivers, or to your Win 2000/XP installation CD. The drivers should now be correctly installed.

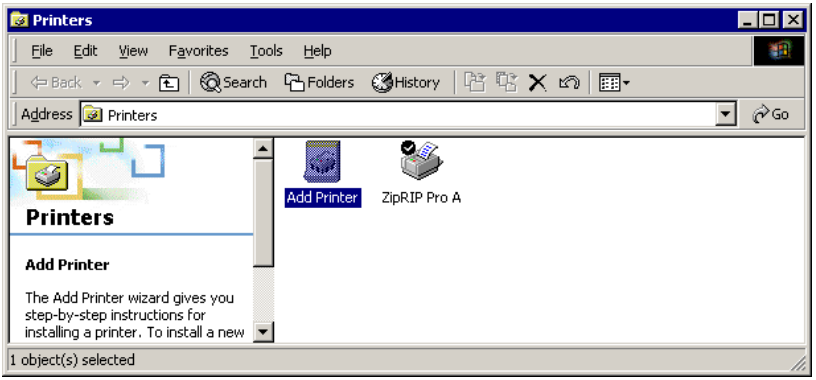


Once the printer installation is completed the following dialog box appears to confirm installation information. Click “Finish”.

Select “Yes” in the Digital Signature Not Found dialog box.



The newly installed printer will now be shown in the printers dialog box.



Basic Operation of the UC5E.

After you have completed all the installation procedures and loading of the relevent driver for the Digital Duplicator you are printing to, the UC5E is ready for use.

Powering the UC5E on.

The power for the UC5E comes from the Digital Duplicator. When the Digital Duplicator is switched on the UC5E is switched on. If the ZipRip Pro A and B have been installed, the right RED indicator on the UC5E keypad will be on.

Powering the UC5E off.

The power for the UC5E comes from the Digital Duplicator. When the Digital Duplicator is switched off the UC5E is switched off. If the ZipRip Pro A and B have been installed, the right RED indicator on the UC5E keypad will be off.

Printing to the UC5E.

To print to the UC5E, select the print option from the file menu of your application. In the print dialogue window select the ZipRip driver you have installed (NB if you are unsure as to which machine model you have, refer to the Generic Driver List on page 8 of this manual) and the quantity you wish to print. In the properties section, in the print dialogue box, you can choose what size paper you are printing on and select a paper tray, if your machine supports this feature. Once you have made your selection press “print” or “OK”, depending on the application. The file is processed by your computer and transfered to the UC5E. For installations on the ZipRip Pro A and B, the LEFT RED indicator light on the UC5E keypad will flash rapidly indicating it is receving and processing your file. For installations on the ZipRip Pro X the LED on the front of the Digital Duplicator will flash. (Refer to your machine operating manual for the name and position of this LED). Once this is complete your Digital Duplicator will cut a master and print the quantity you have specified.

Reset Button.

This button is located on the UC5E keypad. It is the “R” button. If you wish to reset your UC5E without switching the machine off then you can press the “R”.

Test Button.

This button is located on the UC5E keypad. It is the “T” button. If you wish to check that the UC5E is operating correctly press the “T” and the Digital Duplicator will cut a master and print test pages. Please refer to page 10 of this manual for the full test page description.

Please Note:
If you have installed the UC5E on the ZipRip Pro X range of machines the* UC5E KEYPAD *is not accessible.

Frequently Asked Questions

Q: How far can I have the Digital Duplicator from the Computer?

A: The official specification allows for 6 feet (appro. 2 metres) cable. This cable is supplied with the UC5E.

Q: How many computers can you run from the UC5E?

A: One IBM or compatible connected to the parallel port.

Q: Will the UC5E work with a laptop or notebook computer?

A: Yes, all computers connect to the UC5E as if it were a standard computer printer. The GDI driver will need to be installed in each computer.

Q: How much RAM memory does the UC5E have?

A: It comes standard with a maximum 16 megabytes RAM.

Q: What if my file size is over 1 megabyte? Will the UC5E be able to print the file?

A: Yes, the UC5E is not limited by your file size. If your PC can process the file, the UC5E can print it to the Digital Duplicator.

Q: Can you add additional memory?

A: No, the UC5E comes with maximum memory installed as standard. If you wish to improve the speed of the UC5E then upgrade your computers RAM, processor or parallel port.

Q: Must you configure all software when you install the UC5E?

A: No. Once the driver is installed in any operating system on the computer, all software application programs can use it.

Q: Will the UC5E work with Windows 3.11 Windows 95? Windows 98? Windows ME? Windows NT? Windows 2000?

A: Yes. Printer drivers must be installed for each operating system.

Q: Will the UC5E work with all application software programs?

A: The customised printer drivers provided allow all Windows 3.11, Windows 95, Windows 98, Windows ME, Windows NT, and Windows 2000 programs to send documents to the UC5E.

Q: What fonts are built into the UC5E?

A: None. True Type fonts installed on your operating system will print to the UC5E.

Q: Will the UC5E allow the Digital Duplicator to create an A3 / 11" x 17" image?

A: Yes, as long as the Digital Duplicator model has the image output capability.

Q: Can you combine two A4 / US Letter pages side by side into a single A3 / 11" x 17" image?

A: No. The laying out of two pages A4 / US Letter has to be done in the software where you are sending the image from.

Q: Can you reverse scan with the Controller and the Digital Duplicator?

A: No.

Q: Can you set the number of copies to print from the computer?

A: Yes, all the newer Digital Duplicator models allow you to set the copy count from your computer.

Q: If I have a software or hardware question, who do I call?

A: Your local sales/service organisation should be contacted first or connect to the web site www.ziprip.com.

Q: I have entered a custom page size but the print job comes out too small?

A: It is possible that you have input the page size incorrectly. The Unit of measurement used for page size is 0.01 inches or 0.1 mm. This means that you need to multiply by a factor of 100 to get the correct size in inches or a factor of 10 to get the correct size in mm.

Q: The image I am getting is larger than it should be and has fine horizontal lines running through it?

A: It is possible that you have entered a page size greater than the maximum image area of the Digital Duplicator connected to the UC5E. Check the maximum page size of your Digital Duplicator and the page size entered in the UC5E. Also check that you have used the correct multiplication factor for your page measurements. (see FAQ above)

Q: When I define a custom page size the image I get is printed transverse (across) the drum.

A: The "width" value in the page setup refers to the size of the leading edge of the page. The leading edge is the edge that feeds into the Digital Duplicator. The "length" value refers to the size of the side of the page. By entering a "width" value greater than the "length" value the image will be positioned transverse on the drum. This means that the operator will need to use the longest edge of the sheet as the leading edge.

Q: Missing Tabs in the Printer Properties dialogue box.

A: There are two possible causes for this problem:-

1. Corrupt UC5E driver installation

2. Corrupt Windows Operating System file(s)

First try resolving the problem by reinstalling the UC5E drivers. If this does not solve the problem then you will need to reinstall the Windows Operating System.

WHY?

A: Certain printer installations can overwrite or modify some of the Windows Operating System files used by the UC5E drivers. As a result some of the dialogue boxes go missing. By restoring the Operating System files back to the original version the Dialogue Boxes reappear and work as normal.

Q: I keep getting a time out error printing from Windows 95.

A: Increase the time out settings within the printer driver. These are found under the details tabs in the properties window. Set "not selected" to 300 seconds. Set "transmission retry" to 9999 seconds.

If none of the above resolves your problem you can send a description of the error to the ZipRip web site. Please include all details such as PC specification, Operating System, Application and version being used as well as a detailed account of the error and any preceding events that might have led to it. **www.ziprip.com**

Troubleshooting UC5E (GDI)

Normally, your UC5E will function correctly with no user intervention. If there is a problem use this section as a guide to solve it.

Problem: The following message is printed when I try to print a document: There was an error writing to LPT1: for the printer... The printer is not ready. Make sure it is turned on and on-line.

Try the following: a) Check all physical cable connection and power.
b) Reset the UC5E.
c) Check you are not trying to print to the UC5E across a network. If this is the case see your windows documentation on network printing.
d) Check the parallel port is set to "ECP" mode.

Problem: Print jobs download to the UC5E, but the Digital Duplicator does not create a master.

Try the following a) Press the Digital Duplicator "on-line" key. Some duplicators do not support Auto on-line functions. Check that your duplicators Auto on-line function has been enabled. Check also that the last print run on the Digital Duplicator
has been completed.

b) Turn the Digital Duplicator off then on.

Problem: Activity light on the UC5E is permanently on, but no master is created.

Try the following: Press the reset button on the UC5E.

Contact Local Dealer:

Web contact:- **For further FAQ's and downloads visit www.ziprip.com**