

# Zebra ZD220t User Guide



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# **1** Introduction

The ZD200 series is one of the more basic and cost-effective series of desktop printers. It is recommended to use the **ZD220t** (Thermal Transfer) model when ordering.



Figure 1: ZD220t printer

## 2 **Printer installation**

It is recommended that the printer is installed by a technically skilled person.

For the initial installation and printer settings, follow the instructions on the official Zebra manufacturer website (<u>https://www.zebra.com/ap/en/support-downloads/printers/desktop/ZD200t.html</u>).

For easier use of the printer, video instructions are available for the following:

- description of printer functionalities,
- printer installation and settings,
- black ribbon loading,
- label insertion,
- label format calibration and
- cleaning the printhead.

On the website, you will also find the required ZDesigner drivers and manuals with detailed instructions for working with the printer.

#### **3** Setting up the driver

Once the driver is installed, the settings must be adjusted before you start printing labels. Go to **Control Panel**, select the area **Devices and Printers**. All available printers will be displayed. Select the printer *ZDesigner ZD220-203dpi ZPL* and right-click on it. In the additional options, select **Printer properties** (see Figure 2).



Figure 2: Control panel with printers and devices

Once you click **Printer properties**, a new window will be displayed, where you select **Change properties** (see Figure 3).

DZDesigner ZD220-203dpi ZPL Pro	aperties	×
General Sharing Ports Advanced	Color Management Security Nastavitve gonilnika	
ZDesigner ZD220-2	Dadni ZPI	
Location:		
Comment:		
Model: ZDesigner ZD220-20	J3dpi ZPL	
Features		
Color: No	Paper available:	
Double-sided: No	Custom	
Staple: No		
Speed: Unknown		
Maximum resolution: 203 dpi	·	
Change Broperties	Drint Tort Dage	
Change Flopernes Flere	rences Finit Test rage	
	OK Cancel Apply Help	

**Figure 3: Change properties** 

In	the	Ad	vanced	tab.	select	the o	ption	Printing	Defaults
***	une	114	, ancea	iuo,	501000	une o	puon	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dellation

🖶 ZDesigner ZD220-203dpi ZPL Properties	×
General Sharing Ports Advanced Color Management Security Nastavitve gonilnika	
● Always available ○ Available from 00:00 + To 00:00 +	
Priority: 1	
Dri <u>v</u> er: ZDesigner ZD220-203dpi ZPL · Ne <u>w</u> Driver	
<ul> <li>Spool print documents so program finishes printing faster</li> <li>Start printing after last page is spooled</li> <li>Start printing immediately</li> <li>Print directly to the printer</li> <li>Hold mismatched documents</li> <li>I print spooled documents first</li> </ul>	
☐ Keep printed documents	
Printing Defaults     Print Processor     Separator Page	
OK Cancel Apply Help	,

**Figure 4: Printing Defaults** 

In the fields indicated in yellow, enter the width and height of the medium and/or label you use.

🖶 ZDesigner ZD220-203dpi ZPL	Printing Defaults	×
Printer Settings		
🖵 Page Setup	Stock	Print preview
Print Options	Select	Custom ~
🗇 Operation Mode	Media settings Width:	
Graphic Options	Height	40 mm 🗧 🔤
Custom Commands	Media type: Rotation:	Labels with gaps v 0° - Portrait v 123
💥 Maintenance	Mark offset:	0 mm 🚊 🔲
L. Units	Mirror label	
Help and About		
Print test page <b>Print test page</b> <b>Development</b> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u> <u>Development</u>		
		OK Cancel Apply Help

Figure 5: Page Setup

Once you finish the **Page Setup**, select **Print Options**, where you can adjust the temperature, check the printing mode, and, if necessary, adapt the top offset (see Figure 6).

🖶 ZD	esigner ZD220-203dpi ZPL	Printing Defaults						×
Printer	Settings							
	Page Setup	Print settings				Print preview		^
₽	Print Options	Speed: Darkness:	102 mm/s	~ 📃 ~ 📃				
7	Operation Mode	Printing mode:	Thermal transfer	~			-	
٩	Graphic Options	Offsets	1mm			123		
2	Custom Commands	Left:	0 mm			123		
*	Maintenance	Advanced settings				123		
<b>L</b>	Units	Backfeed:	Default	~ 📃				
i	Help and About	Pause:	No pause	~				
		Control characters:	Standard	~				
		RTC refresh:	Start print time	$\sim$				
1	Print test page	Cancel jobs before pr	inting					
	<b>N</b>	Cancel all curren	t and queued printing documents					
	श्रान <b>. ZEBRA</b>	Delay:	1000 <b>ms</b>					
	ownload your free copy of <u>cebraDesigner Essentials</u>	Passthrough						~
					ОК	Cancel A	\pply	Help

**Figure 6: Print Options** 

Finally, check the **Graphic settings**, where the slider under **Dithering** must be set to *Clipart* (see Figure 7).

🖶 ZDesigner ZD220-2	203dpi ZPL Printing Defaults	×
Printer Settings		
Page Setup	Dithering	
👦 Print Options	Photo	Clipart
👳 Operation Mode	e	
Graphic Options		
Custom Comman	nds	
💥 Maintenance		
L Units		
i Help and About	Tell me more about dithering	
	Printer graphic options	
	Image transfer mode: Direct print	
Print test p	Graphics type: ZIP V	
Download your free of	A copy of	
ZebraDesigner Esse	entials	
	OK Cancel	Apply Help

**Figure 7: Graphic settings** 

It is recommended to use the same settings for the **Printing preferences** option.



Figure 8: Control panel and printing preferences

# **4** Settings in the COBISS Lib application

To use the printers in COBISS Lib, the COBISS DGW service must be installed beforehand. https://www.cobiss.net/doc/Namescanje\_COBISS\_DGW\_EN.pdf

To check if the installation was successful, you can use the **Settings and administration / Server** / **Test connection with COBISS DGW** method in COBISS Lib. The message *COBISS DGW is connected!* means that the installation was successful and that you can continue adding printers to the logical destinations (see Figure 9).



Figure 9: COBISS Lib user interface

In COBISS Lib select **Settings and administration / Settings / Logical destinations** (see Figure 10).



Figure 10: COBISS Lib user interface and logical destinations

The **Logical destinations editor** window will open where you select the option *Label – material:* [*default local printer*] and click **Edit** (see Figure 11).

Logical destinations editor	×					
Logical destinations	A					
Labels – Partner: [default local printer]						
Delivery note – ILL: [default local printer]						
Internal order – ILL: [default local printer]						
Apportionment – Acquisitions: [default local printer]						
Label – material: [default local printer]						
Label – material, 50 x 25: [default local printer]						
Label – material, 75 x 50: [default local printer]						
Delivery note (for Accounting) – ILL: [default local printer]						
Printer – Loan: [default local printer]						
	-					
Edit Default (description) OK	Cancel					

Figure 11: Logical destination editor

The User destinations windows will open, where you click the Add printer button. From the drop-down list, select the printer *ZDesigner ZD220-203dpi ZPL*, with which you intend to print the labels for the material (see Figure 12).

User destinations			×
Destinations			
		Add e-mai	l -
		Add printe	r
	From pe	ersonal addı	ress book
		Edit	
		Remove	
		ОК	Cancel
Printer			×
Printer			
ZDesigner ZD220-203dpi ZI	PL		~
Number of copies			
1			
Details		ОК	Cancel

**Figure 12: Setting user destinations** 

Once you select the printer, click the **Details** button to check if these detailed settings are correct for this type of printer (see Figure 13).

Details	×
Printing mode	
graphics	~
Printer type	
	~
Printer subtype	
	~
Printing style	
single sided	~
Orientation	
portrait	~
ок	Cancel

**Figure 13: Detailed settings** 

Once you define all the settings, confirm each choice by clicking the **OK** button. At the end, select **Refresh settings** in the **Settings** (see Figure 14).



Figure 14: Refreshing settings in the COBISS Lib user interface

Now, you can start printing labels for the material.

If you wish to use the same printer to print member labels, the procedure is the same as described in the previous steps, but the logical destination must be set to *Label – Loan (member)* (see Figure 15).

Logical destinations editor					
Logical destinations					
Delivery note (for Accounting) – ILL: [default local printer]					
Printer – Loan: [default local printer]					
Overdue notices (envelopes) – Loan: [default local printer]					
Lending form – Loan: [default local printer]					
Label – Loan (member): (Printer: ZDesigner ZD220-203dpi ZPL) [default local printer]					
Printer - cash register drawer: [default local printer]					
Plastic membership card – Loan (member): [default local printer]					
Invoice – Loan: [default local printer]					
Lending form for reservation – Loan: [default local printer]					
Label – equipment: [default local printer]					
Edit Default (description) OK Cancel					

Figure 15: Logical destination editor for member labels

## **5 Potential printing problems**

If the labels cannot be printed properly after installing the drivers and setting the logical destinations, firstly check if the printer responds in the operating system on which it is installed. In the **Control Panel**, select **Devices and Printers**. All available printers will be displayed. Select the printer *ZDesigner ZD220-203dpi ZPL* and double-click on it. In the additional options, select **Printing preferences**. A window will open, where you select **Print test page** on the bottom left side of the window (see Figure 16).

🖶 ZD	🖶 ZDesigner ZD220-203dpi ZPL Printing Preferences					
Printer	Settings					
G	Page Setup	Stock	Bilet and an			
₽	Print Options	Select	Custom ~			
7	Operation Mode	Media settings	60 mm			
٩	Graphic Options	Height	40 mm 123			
>_	Custom Commands	Media type: Rotation:	Labels with gaps V C 0° - Portrait V 123			
Ж	Maintenance	Mark offset:	0 mm 🗘 🔲 123			
E.	Units	Mirror label				
i	Help and About					
1	Print test page					
	ৰ্থান ZEBRA					
	ownload your free copy of ebraDesigner Essentials					
		,	OK Cancel Apply Help			

Figure 16: Printing test page

If the printer is installed correctly, a test label will be printed.

If the label content is shifted, try medium calibration with the printer drivers. During this procedure, the printer will automatically adjust the medium and the ribbon sensor to the label size. Select the **Calibrate** button from the **Maintenance** options (see Figure 17).

ZDesigner ZD220-203dpi ZPL Printing Preferences					
Printer Settings					
D Page Setup	Reset				
🦻 Print Options	Reset to default settings       Reset all driver settings to their default values.       Reset				
Operation Mode	Calibrate				
Graphic Options	Calibrate media Automatically adjust media and ribbon sensor to label dimensions. Calibrate				
Custom Commands	Synchronise Real Time Clock (RTC)				
💥 Maintenance	Set printer clock to computer clock. Sync				
Units					
Help and About					
😨 Print test page					
Download your free copy of ZebraDesigner Essentials					
	OK Cancel Apply H	elp			

#### Figure 17: Medium calibration

During the calibration procedure, the printer will use three blank labels. Once the calibration procedure is complete, re-try printing the label.