

Installation Guide

ZKBio WDMS

Date: December 2021 Software Version: 8.0.5 Doc Version: 1.0 English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



For further details, please visit our Company's website www.zkteco.com.

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If there is any issue related to the product, please contact us.

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To know more about our global branches, visit <u>www.zkteco.com</u>.

About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/Floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader door locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

About the Manual

This manual introduces the operations of ZKBio WDMS software.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

For Software							
Convention	Description						
Bold font	Used to identify software interface names e.g. OK , Confirm , Cancel .						
>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.						
	For Device						
Convention	Description						
<>	Button or key names for devices. For example, press <ok>.</ok>						
[]	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window.						
1	Multi-level menus are separated by forwarding slashes. For example, [File/Create/Folder].						

Symbols

Convention	Description
	This represents a note that needs to pay more attention to.
9	The general information which helps in performing the operations faster.
*	The information which is significant.
۷	Care taken to avoid danger or mistakes.
	The statement or event that warns of something or that serves as a cautionary example.

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1 <u>Overview</u>

ZKBio WDMS is a middleware which stands for Web-based Data Master System. As a middleware, ZKBio WDMS allows the user to deploy on kinds of servers and databases for devices and transactions management. It provides a stable connection to ZKTeco standalone push communication devices through Ethernet/Wi-Fi/GPRS/3G/4G. Administrators can access ZKBio WDMS anywhere through the browser or a third-party software by API to handle thousands of devices, thousands of employees, and their transactions. At the same time, its new MTD module will ensure that every employee entering the work area is well.

2 Installation Setup

2.1 System Requirements

Feature	Specification
Operating System	Windows 7/ 8/ 8.1/ 10 (64-bits) Windows Server 2008/ 2008R2/ 2012/ 2012R2/ 2016/ 2019 (64- bits)
Memory	4GB or above
СРИ	Dual-Core Processor with a sp <mark>eed</mark> of 2.4GHz or above
Hard Disk	100GB or above (We recommend using NTFS hard disk partition as the software installation directory)

Database

- PostgreSQL 10 (default)
- MS SQL 2005/2008/2012/2014/2016/2017/2019
- MySQL 5.0/ 5.6/ 5.7
- Oracle 10g/11g/12c/19c

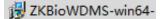
Browsers

- Chrome 33+
- Internet Explorer11+
- Firefox 27+

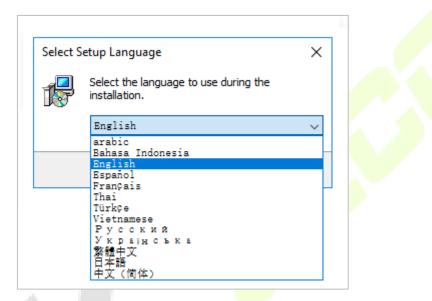
3 Installation Steps

Perform the following steps to install the ZKBio WDMS software.

1. Right-click the **ZKBio WDMS-win64-8.0.5.exe** file and select **Run as Administrator**.



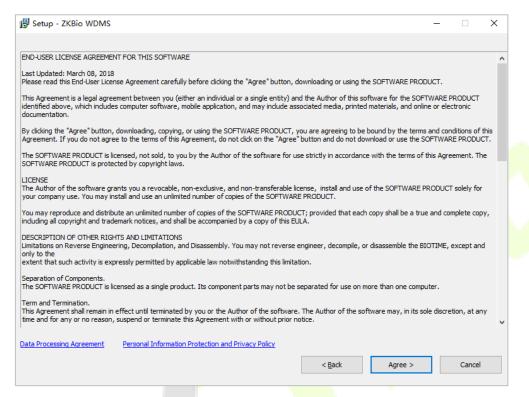
2. Select the setup language from the drop-down list.



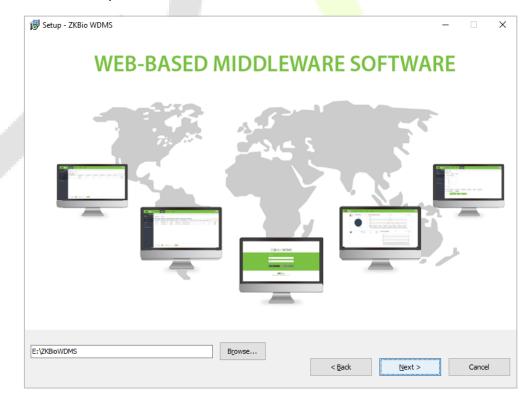
3. Click Start to start the installation process.

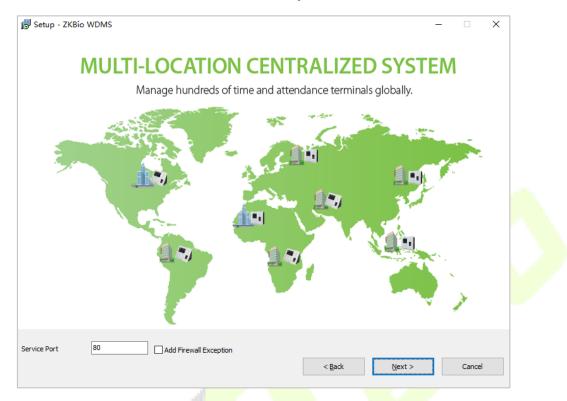
- 0)
WDMS	
be deployed on kinds of server and database ns management.	_
	be deployed on kinds of server and database ons management. Image: Constraint of the server and database Image: Constraint of the server and database

4. Please read the License Agreement, Data Processing Agreement, Personal Information Protection and Privacy Policy carefully before clicking "Accept" if you agree with the terms & conditions or if you disagree go "Back".



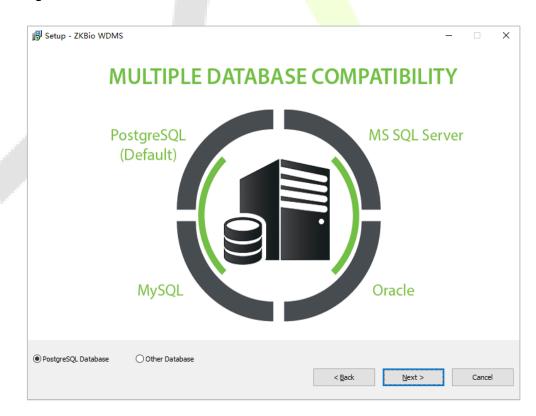
5. Select the installation path to install the software and click **Next**.





6. Set the Port number and select the Add Firewall Exception checkbox.

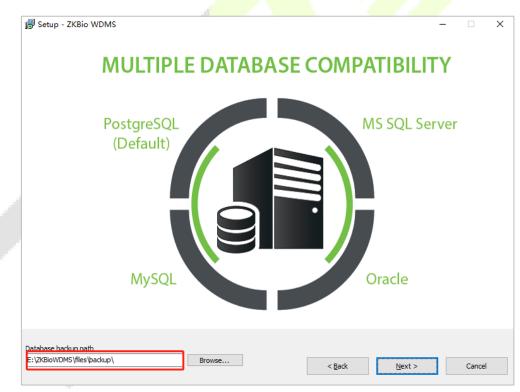
7. Choose **Default Database** to install the software in the default database **PostgreSQL**. The user can also configure the database after installation in the BioTime Platform Service Console.



8. If the user chooses to configure the database in the installation process, click **Other Database** and select the type of database. Fill in the details accordingly.

	Configure Database			Database Name
F	 No Database MS SQL Server MySQL Oracle 	Database Name: Username: Password:	zkteco_biotime	SQL Username SQL Password
		Host Address: Port Number:	127.0.0.1	SQL Server IP
		Test Connection	Post	Cancel

9. Select backup path.



10. Click Install.

P Setup - ZKBio WDMS -		×	
TKBio WDMS			
ZKBio WDMS is a web-based middleware which can be deployed on kinds of server and database for devices and transactions management.			
Click Install to continue with the installation, or click Back if you want to review or change any settings.	Cancel		

11. Complete the installation process by restarting the system.

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	-						
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	Test Connection Map						
				ZKTECO			

12. After installation, run the **ZKBio WDMS Platform Service Console** in the taskbar or in the **Start** menu. Then click **Start** under the **Service** tab.

ZKBio WDMS Platfo	orm Services Console
🗑 ZKBio WE	OMS Server Controller
Bio WDMS Platform Services Console Service 🔹 Database 🕕 System	S / / S / / S / / S / / S / / S / / Language / S ⊂ X
Start Stop Stop Restart	
Services	11-22 16:28 Port is 0K! 11-22 16:28 Start the service 11-22 16:28 bio-apached is 0K 11-22 16:28 bio-proxy is 0K 11-22 16:28 bio-cache is 0K 11-22 16:28 bio-server is 0K 11-22 16:28 Finish Start
Port ✓ Http 8001 Check Port	
Https 443	-

13. Double-click the **ZKBio WDMS Home Page** shortcut icon on the desktop. The system login interface will pop up as shown below:

Ţ	ZKBio WDMS
	Create Superiser Utername* Passwore Contim Passwore
Copyright 62021 JXTECO C	O. LTD: All rights reserved. About 1 careet Passwood Personal Information Protection and Person Policy

14. Initially, the user needs to create a Super System Administrator and log in to the software with the created Administrator account.

4 SQL Server Configuration with ZKBio WDMS

- 1. While installing the MS SQL Server, choose **Mixed Mode Authentication**.
- 2. Click [Start] > [SQL Server Configuration Manager] > [Protocols for MS SQL Server].
- 3. Right-click [TCP/IP] > [Enable TCP/IP].

Sql Server Configuration Manager File Action View Help (++++++++++++++++++++++++++++++++++++				
 SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration (32bit) SQL Server Network Configuration Protocols for MSSQLSERVER SQL Native Client 11.0 Configuration 	Protocol Name Sarshared Memory Tamed Pipes TCP/IP	Status Enabled Enabled Enabled IP Address ICP Dynamic Ports IP Address ICP Dynamic Ports ICP Port ID IP Address ICP Dynamic Ports ICP Port ID ID Address ICP Dynamic Ports	192.168.3.44 1433 Yes Yes Yes Yes 1433 Yes Yes	

- 4. Then select [IP Address] > [IPAII].
- 5. In **IPAII** configuration, set the value of **TCP Dynamic Ports** as **1433**.

= 🔿 🖄 🔛 📑 👔				
SQL Server Configuration Manager (Local)	Protocol Name	Status		
■ SQL Server Services ■ SQL Server Network Configuration (32bit) ■ SQL Server Network Configuration (32bit) ■ SQL Server Network Configuration ■ Protocols for MSQUESTER ■ SQL Native Client 11.0 Configuration	ថ្មី Shared Memory ថ្មី Named Pipes ថ្មី TCP/IP	Enabled Enabled Enabled		
		TCP/IP Properties Protocol IP Addresses		? x
		CCP Dynamic Ports TCP Dynamic Ports TCP Dynamic Ports Active Yes Enabled Yes IP Address 127.0.0.1 TCP Dynamic Ports TCP Port 1433 IP9 Active Yes Enabled Yes IP Address fe80::100.7 TCP Dynamic Ports TCP DynamicPorts TCP DynamicPorts TCP DynamicPorts TCP Dynamic	Ves Yes 127.0.0.1 1433 Ves Yes fe80::100.7f:fffe%11 1433	E
		Active Indicates whether the select	ed IP Address is active.	

6. Click **OK** and then restart the SQL services.

5 ZKBio WDMS Configuration

Open the ZKBio WDMS Platform Service Console to configure

5.1 Server Port Configuration

In the **Service** tab, click **Stop** to stop the services and then enter the port number. Click **Check Port** to see if the port number is available. Then click **Start** to start the services again.

ZKBio WDMS Platform Services Console	Language ////
Start Stop Restart	Services E Check
Services SERVICE 1 🛟	11-22 16:28 Port is OK! 11-22 16:28 Start the service 11-22 16:28 bio-apache0 is OK 11-22 16:28 bio-proxy is OK 11-22 16:28 bio-cache is OK 11-22 16:28 bio-server is OK 11-22 16:28 Finish Start
Port Nttp 8001 Check Port Https 443	11-22 16:54 Start stopping service 11-22 16:54 bio-proxy stopped 11-22 16:54 bio-apache0 stopped 11-22 16:54 Finish Stop 11-22 16:54 Start the service 11-22 16:54 bio-apache0 is OK 11-22 16:54 bio-proxy is OK 11-22 16:54 bio-server is OK 11-22 16:54 bio-server is OK 11-22 16:54 Finish Start
D Tuly, 2021 E:\ZKBioWDMS	Tips:Please stop the service and then modify the parameters

Note:

- **"Port Unavailable"** means that the port is occupied. Please set another port and retest.
- When the port number is modified, right-click the ZKBio WDMS icon \bigcirc on the desktop and open the **Properties** to change its URL.

😨 ZKBio WDMS Platform Services Console	Language 🗨 🕹 🕹			
💊 Service 👔 Database 🕕 System				
Start Stop Stop Restart	Services E			
Services SERVICE 1 🗘	11-22 16:54 Start the service 11-22 16:54 bio-apache0 is OK 11-22 16:54 bio-proxy is OK 11-22 16:54 bio-cache is OK 11-22 16:54 bio-cache is OK 11-22 16:54 Finish Start			
Port	11-22 16:57 Start stopping service 11-22 16:58 bio-proxy stopped 11-22 16:58 bio-agache0 stopped 11-22 16:58 Finish Stop			
₩ttp 8003 Check Port	11-22 16:58 Start Check Port 11-22 16:58 Http Port 8003 is 0K!			
Https 443	11-22 16:58 Start the service 11-22 16:58 bio-packe0 is OK 11-22 16:58 bio-pack 1 is OK 11-22 16:58 bio-cache is OK 11-22 16:58 bio-cache is OK 11-22 16:58 Finish Start			
20 July, 2021 E: \ZKBioWDMS	Tips:Please stop the service and then modify the parameters			

🖉 ZKBio WDMS Properties 🛛 🗙			×		
General Web [Document	Security	Details	Previous Versions	
ZKBio WDMS					
<u>U</u> RL:	http://12	27.0.0.1:80	06		
Shortcut key:	None				
Visits:	Unknown				
				Change Icon	

5.2 Database Configuration

1. In the **Database** tab, the user will see the following image if the database was already configured during installation.

🧭 ZKBio WDMS Platfor	m Services Console	🖡 Language 🖉 🗩 🗙
🌏 Service 🛛 📥	Database 🕕 System	
Connect Test	Create Table	
Database Type	PostgreSQL 💌	
HOST	127.0.0.1	
DB NAME	wdms]
USER	postgres	
PASSWORD	********	
PORT	7496	
20 July, 2021 E	\ZKBioWDMS	Tips:Please stop the service and then modify the parameters

2. If the database was not configured during installation, the user needs to select the desired database and enter the correct parameters then click **Connect Test**. It will display "Connected Successfully" if the connection was made successfully.

Service 📥	Database 🥠 System	
Connect Test	Create Table	
Database Type HOST DB NAME	PostgreSQL I27.0.0.1	11-22 17:02 Start Connect Test 11-22 17:02 Connected successfully
USER	postgres	
PASSWORD	********	
PORT	7496	

3. Click Create Table and once it is successful, it will display "Connected Successfully".

DB NAME wdms

USER postgres

PORT 7496

E:\ZKBioWDMS

20 July, 2021

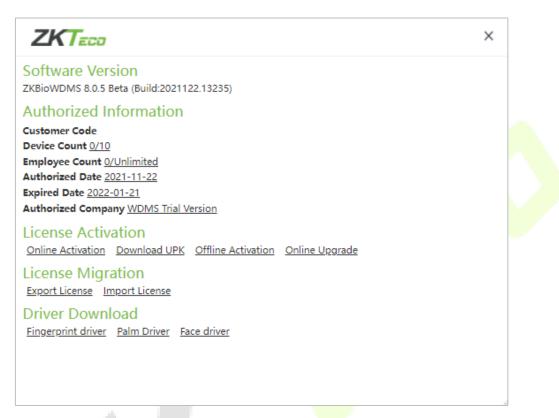
PASSWORD .

	🗐 ZKBio WDMS Platform Services Console	Language / 🖌 🔶 🗙
Database Type PostgreSQL NOST 127.0.0.1 DB NAME wdms USER postgres PASSWORD •••••••••• PORT 7496 20 July, 2021 E: \ZKBioWDMS Tips:Please stop the service and then modify the parameter Service Database System	💊 Service 💰 Database 🧃 Syst	tem
Database Type 10 Style Coll HOST 127.0.0.1 DB NAME wdms USER postgres PASSWORD Image: Coll PORT 7496 20 July, 2021 E: \ZKBioWDMS Tips: Please stop the service and then modify the parameter Service Database System	Connect Test	ble
PASSWORD POKT 7496 20 July, 2021 E: \ZKBioWIMS Tips: Please stop the service and then modify the parameter ZKBio WDMS Platform Services Console Service Database System	HDST 127.0.0.1	
ZKBio WDMS Platform Services Console Language 1 Service Database System	PASSWORD	
ZKBio WDMS Platform Services Console Language 1 Service Database System		
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Service Database I System		and the second second second second state of the second second second second second second second second second
	🗐 ZKBio WDMS Platform Services Console	Language _ ×
Connect Test Create Table	Service 🛋 Database 🧃 Syst	tem
	Connect Test	ble
Database Type PostgreSQL 11-22 17:02 Start Connect Test 11-22 17:02 Connected successfully HOST 127.0.0.1 11-22 17:04 Start Create Table 11-22 17:04 table created successfully		11-22 17:02 Connected successfully 11-22 17:04 Start Create Table

Tips:Please stop the service and then modify the parameters

5.3 License Information

The License Information can be obtained from the **About** option on the ZKBio WDMS Home page as shown below:



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