

System Requirements

Window Construction Software Winkhaus AV-WIN 4.0

Single Computer (without local network):

Feature	Minimum requirement	Recommended
CPU	Dual-Core CPU $\geq 1,6$ GHz	Multi-Core CPU ≥ 2 GHz
Memory	4 GB RAM	≥ 8 GB RAM
Harddisk	120 GB	≥ 300 GB
Graphics	XGA ⁽¹⁾ 1024 x 768, True-Color	WXGA ⁽¹⁾ 1280 x 800 or higher; 32 Bit Colors
Display	17 Inch	19 Inch or more
Printer	all graphics-capable printers supported by Windows	
Operating System	Windows 8.1 Pro (64 Bit)	Windows 8.1 Pro (64 Bit) Windows 10 Pro (64 Bit) Windows 11 Pro (64 Bit)
Database	FirebirdSQL 3.0 for Win64 ⁽²⁾	
Interfaces/Ports	1 free USB-A port for copy protection dongle (WibuBox)	
Other	Internet connection (e.g., DSL) for remote support and maintenance	

Network-Installation (Client/Server):

Feature	Minimum requirement:	Recommended:
CPU	Dual-Core CPU $\geq 1,6$ GHz	Multi-Core CPU ≥ 2 GHz
Memory	4 GB RAM	≥ 4 GB RAM
Harddisk	120 GB	≥ 300 GB
Graphics	XGA ⁽¹⁾ 1024 x 768, True-Color	WXGA ⁽¹⁾ 1280 x 800 or higher, 32 Bit Colors
Display	17 Inch	19 Inch or more
Printer	all graphics-capable printers supported by Windows	
Network interface	100 MBit	100 MBit or faster
Network protocol	TCP/IP v4	TCP/IP v4
Operating system	Windows 8.1 Pro (64 Bit)	Windows 8.1 Pro (64 Bit) Windows 10 Pro (64 Bit) Windows 11 Pro (64 Bit)
Database	FirebirdSQL 3.0 for Win64 ⁽²⁾	
Other	Internet connection (e.g., DSL) for remote support and maintenance	

Database Server (Firebird SQL-Server):

Feature	Minimum requirement:	Recommended:
CPU	Dual Core CPU ≥ 2 GHz	Multi-Core-CPU ≥ 2 GHz
Memory	4 GB RAM	≥ 8 GB RAM
Harddisk	300 GB	≥ 500 GB
Graphics	XGA ⁽¹⁾ 1024 x 768, 256 Colors	1024 x 768 or higher, 32 Bit Colors
Display	17 Inch	17 Inch or more
Network interface	100 MBit	100 MBit or faster
Network protocol	TCP/IP v4, private Class-C-Network (192.168.x.x)	TCP/IP v4, private Class-C-Network (192.168.x.x)
Operating System	Windows Server 2012 R2 ⁽⁴⁾	Windows Server 2016 ⁽⁵⁾ Windows Server 2019 ⁽⁵⁾ Windows Server 2022 ⁽⁵⁾
Datenbank	FirebirdSQL 3.0 for Win64 ⁽²⁾	
Schnittstellen	1 free USB-A port for copy protection dongle (WibuBox) – see virtualization notes	
Sonstiges	Internet connection (e.g., DSL) for remote support and maintenance	

Further requirements:

In order to send documents generated by Winkhaus AV-WIN via email, a MAPI compatible software is required, e.g. Microsoft Outlook, Mozilla Thunderbird, eM-Client etc.

Virtualization:

WIBU does not support "inserting" WibuBox into a virtual machine. To use WibuBox in virtual environments, the box must be connected to a physical computer, and the WibuKey network service must be running. If you are using Windows Server with Hyper-V as a host, we recommend that you install the WibuKey network service on the host. Access to the virtual machine is done through TCP/IP network protocol.

Other virtualization solutions based on non-Windows operating systems (such as VMware vSphere or VMware Hypervisor) require the use of a "dongle server". These devices, e.g. from SEH or SILEX provides two or more USB ports to be connected to a virtual machine via a network. Unlike a simple print server, these dongle servers can be used with any type of USB hardware over the network.

Database:

The Winkhaus AV-WIN software is installed on every workstation. The shared database is installed on the central database server. This can be an additional computer with at least Windows 8.1 Professional x64, which is not used as a normal workstation⁽³⁾. An existing Windows Server 2012 R2 or later can also be used. For best performance, we recommend a dedicated database server running Windows Server as of Server Version 2016⁽⁵⁾.

FirebirdSQL version 3.0 (64 bit) is used as an SQL database⁽²⁾.

Networking:

Access from the workstations to the server is done via network (TCP/IP v4 on port 3050; private Class-C network in the range 192.168.0.x – 192.168.255.x recommended); No shared drives or directories are required on the database server. Wireless network connections (WLAN, WiFi) are not recommended!

Terminal Services/Remote Desktop:

Winkhaus AV-WIN is compatible with Windows Terminal Services/Remote Desktop Sessions (Windows Server 2012 R2 and later). The hardware requirements depend on a variety of factors, including the number of terminal workstations and other software to be used, such as office- or email applications. In any case, it is recommended to separate the database server (FirebirdSQL) and application (terminal) server (Winkhaus AV-WIN). A configuration tailored to your needs can be found at your IT system house.

For further questions, please contact our technical hotline:

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Subject to change

¹ see https://en.wikipedia.org/wiki/Image_resolution

² FirebirdSQL version 3.0 (64-bit) for Windows is included with Winkhaus AV-WIN.

³ As a pure FirebirdSQL server, the computer does not need any Microsoft-specific server services.

⁴ in the editions *Foundation*, *Essentials* and *Standard*.

⁵ in the editions *Essentials* and *Standard*.