



Installation Guide

guideWELD^{VR}



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Introduction to guideWELD® VR

The guideWELD® VR welding simulator is a tool for training basic Stick (SMAW) and MIG (GMAW) welding techniques. The welding simulator sets parameters and guidance when doing simulated welding for the following techniques: travel angle, work angle, speed, nozzle to plate distance, and straightness. By providing a safe virtual environment in which to practice welding, guideWELD VR enables students to master basic welding skills and learn proper welding technique while reducing the cost of classroom consumables like metal and gas.



Additional Resources

Find this manual and more online at: www.realityworks.com/guideweldvr-downloads

System Requirements: www.realityworks.com/guideweldvr-systemrequirements

Downloading and Installing video: <http://realityworks.com/support/guideweld-vr/>

Getting Started

Choosing the Correct Configuration

The guideWELD VR welding simulator can be installed in two different ways: Stand-alone configuration, or Multi-user configuration. The chosen configuration depends on how the instructors and students plan to use the simulator.

Stand-alone Configuration

The guideWELD VR software can be installed to a stand-alone computer. The guideWELD VR unit will be connected to a computer and each instructor and student will have to access that machine for the software and progress data.

Multi-user Configuration

In a multi-user configuration, you will install the database in a centralized location. This can be on a dedicated server or in a peer to peer environment. This will allow the instructor and students to access the software and progress data from any computer running the guideWELD VR software as the client machines are pointed back to one centralized database.

Installation – Stand-alone Configuration

Installation and Login


Admin credentials are necessary for installing the software applications

For each individual computer that will be used with the guideWELD VR, do the following:


1. Go to <http://www.realityworks.com/guideweldvr-downloads>
2. Download or copy the installation package to the computer
 - If you received the guideWELD® VR simulator package on a thumb drive, copy the installation package to the computer on which you will be installing the software.
 - Admin credentials are necessary for installing the software applications.
3. Launch the installer and follow the prompts to complete the installation. Three programs will automatically install in the background: The guideWELD® VR software, the Database Utility and PostgreSQL.
4. Launch the DBUtility application.
5. Select a language choice, then click the Play button.
6. Enter “dbadmin” in the Username field, and “admin” in the Password field. These are the default credentials for the DBUtility Administrator.
7. You will be prompted to change the DBUtility Administrator password. Change the DBUtility Administrator password to “123abc” or something of your choosing. Follow the prompts to complete this step. After you have changed the default password, the DBUtility Main screen will be displayed.
8. DB Utility Admin username and password are stored locally. Administrators should keep this information stored.

Log in as Administrator

The following section explains how to log in as an Administrator for the first time.

1. Launch the guideWELD VR software.
2. Select a language, resolution, full-screen, and graphic type. Then click the Play button ().
3. The first time you use guideWELD VR, enter “admin” as a username and “admin” as a password. These are the default Administrator credentials for guideWELD VR.
4. You will be prompted to change the Admin password.

Change the password to “123abc” or something of your choosing.

 **Warning:** The Administrator account is the highest level of login of the complete guideWELD® VR system. This login is crucial for creating Instructor accounts. This username and password are used and referred to in the Instructor Guide so Instructors are able to create their own accounts. For ease of use and support, please do not deviate from “123abc” for the password unless necessary for security purposes. Please contact Product Support with further questions.

5. After the username and password are accepted, the Main Administrator screen will be displayed (Fig. 5A).

Figure 5A. Main Administrator screen

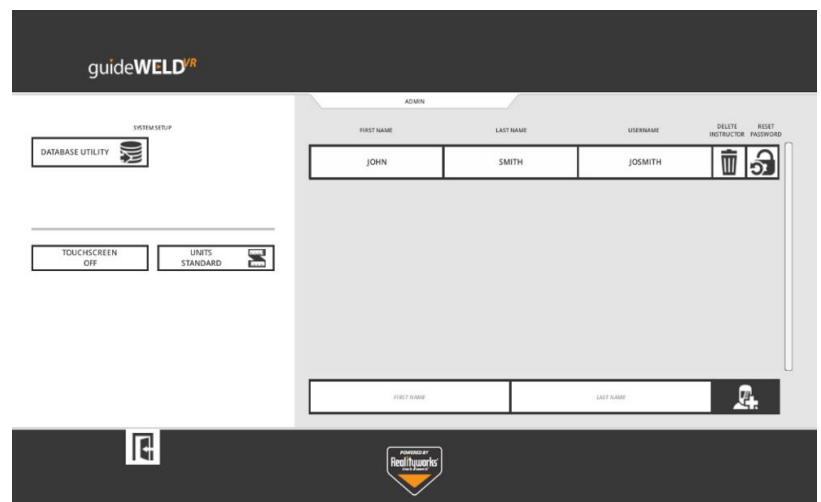
Instructor Accounts

Administrators can create or delete Instructor accounts as well as reset Instructor passwords. They also have access to System Configurations.

Adding Instructors

To add an Instructor, follow these steps:

1. On the Main Administrator screen (Fig. 5A), enter the Instructor’s first and last name, then click the Add button on the lower-right hand side of the screen. Default usernames will appear as the first two letters of the first name and the first eight letters of the last. The Instructor default password is “password”. The Instructor will be prompted to change the password when they first log into guideWELD VR.
2. Repeat step 1 as many times as necessary to build the list of Instructors.



Deleting Instructors

To delete an Instructor, follow these steps:

1. Click the DELETE INSTRUCTOR button for the Instructor you want to remove.

A warning message will appear (Fig. 5B). Click the CONFIRM button to proceed with the deletion or the CANCEL button to cancel.

Figure 5B. Warning Message screen



Resetting Instructor Passwords

Figure 6A.
Reset Password button





To reset an Instructor password, follow these steps:

1. Click the RESET PASSWORD button for the Instructor you want to reset (Fig. 6A). This will reset the Instructor password to “password”.
2. The Instructor will be prompted to change their password the next time they log in.

DBUtility Backup and Restore

The backup and restore functionality is performed on the local machine using the DBUtility.

1. Login to the DBUtility.
First time you log into the DBUtility, enter “dbadmin” as the user name and “admin” as the password.
2. Select either the BACKUP DATABASE or RESTORE DATABASE buttons ( ), depending on your intention.
3. Select a directory to back up or restore from (Fig. 6B, Fig. 6C). The Database Administrator can back up and restore files locally.

Backing up a database must occur in locations that have “Write” permissions on the folder. Backup can occur on external drives.

Figure 6B. DBUtility Backup screen

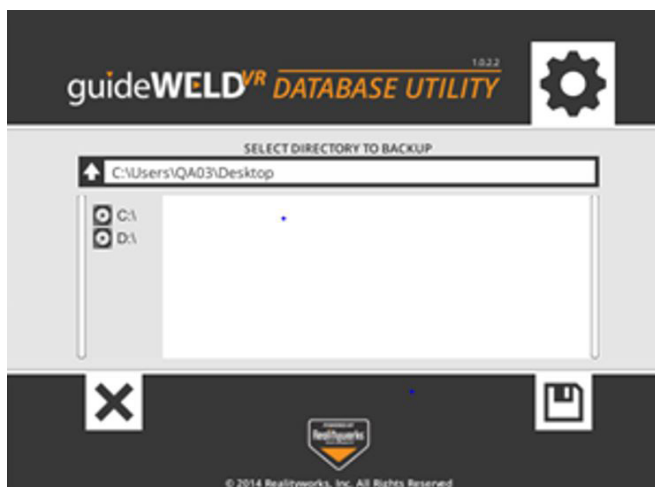
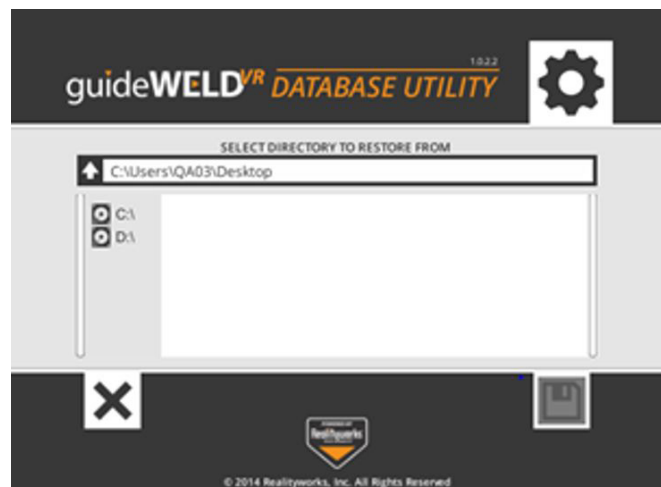


Figure 6C. DBUtility Restore screen



Installation – Multi-user Configuration

Install PostgreSQL (Server Installation)

To complete the server installation for Multi-user Configurations, do the following:

⚠ Warning: The installation of PostgreSQL is performed by the administrator of the system and the password is not recoverable without reinstalling PostgreSQL. The Administrator of the Server is responsible for keeping track of the PostgreSQL username and password.

1. Download PostgreSQL Version 9.4.4 for your particular platform from:
<http://www.postgresql.org/download>
2. Install PostgreSQL using Installation Directory recommended by PostgreSQL
PostgreSQL username and superuser password are created by the administrator installing PostgreSQL
3. The Port defaults to 5432.
4. Uncheck "Stack Builder." It is not recommended to install Stack Builder.

Setup server connections:

- On the server where PostgreSQL resides, open and configure inbound rules for port 5432, or turn off firewall.
- Join each client machine to the computer network.

⚠ Warning: PostgreSQL requires the Client Authentication Configuration File to be modified to allow non-local connections. For computer networks that will handle multiple machines, the pg_hba.conf file will need to be modified.

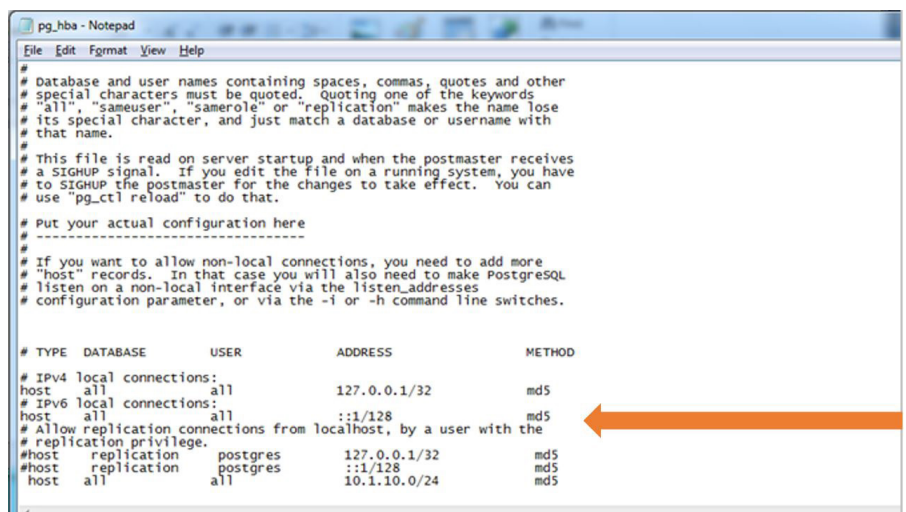
5. To modify the pg_hba.conf file, navigate to:

Windows: PostgreSQL under Program Files or Program Files (x86) PostgreSQL\9.4\data

Mac: /library/postgresql/9.4/data

Figure 7A. pg_hba.conf file example

6. Open the pg_hba.conf file with Notepad or an associated program to perform the edits.
7. Navigate to the bottom of the file and add the TYPE, DATABASE, USER, ADDRESS and METHOD. The data must align with the column headers. See the following example, highlighted with an arrow (Fig. 7A).
8. Save the file.



```
pg_hba - Notepad
File Edit Format View Help
# Database and user names containing spaces, commas, quotes and other
# special characters must be quoted. Quoting one of the keywords
# "all", "sameuser", "samerole" or "replication" makes the name lose
# its special character, and just match a database or username with
# that name.
# This file is read on server startup and when the postmaster receives
# a SIGHUP signal. If you edit the file on a running system, you have
# to SIGHUP the postmaster for the changes to take effect. You can
# use "pg_ctl reload" to do that.
# Put your actual configuration here
#-----
# If you want to allow non-local connections, you need to add more
# "host" records. In that case you will also need to make PostgreSQL
# listen on a non-local interface via the listen_addresses
# configuration parameter, or via the -i or -h command line switches.
# TYPE DATABASE USER ADDRESS METHOD
# IPv4 local connections:
host all all 127.0.0.1/32 md5
# IPv6 local connections:
host all all ::1/128 md5
# Allow replication connections from localhost, by a user with the
# replication privilege.
#host replication postgres 127.0.0.1/32 md5
#host replication postgres ::1/128 md5
host all all 10.1.10.0/24 md5
```

The database can now handle multiple machines. You may need to restart the PostgreSQL services.

Client Computer Installation of the guideWELD® VR Software

Customers upgrading can simply run the install package and the upgrade process will be completed. No configuration changes are needed.

For each individual computer that will be used with the guideWELD VR, do the following:

1. Go to <http://www.realityworks.com/guideweldvr-downloads>
2. Download or copy the installation package to the computer
 - If you received the guideWELD® VR simulator package on a thumb drive, copy the installation package to the computer on which you will be installing the software.
 - Admin credentials are necessary for installing the software applications.
3. Launch the installer and follow the prompts to complete the installation. Three programs will automatically install in the background: The guideWELD® VR software, the Database Utility and PostgreSQL.
4. Launch the DBUtility application.
5. Select a language choice, then click the Play button.
6. Enter “dbadmin” in the Username field, and “admin” in the Password field. These are the default credentials for the DBUtility Administrator.
7. You will be prompted to change the DBUtility Administrator password. Change the DBUtility Administrator password to “123abc” or something of your choosing. Follow the prompts to complete this step. After you have changed the default password, the DBUtility Main screen will be displayed.
8. DB Utility Admin username and password are stored locally. Administrators should keep this information stored.

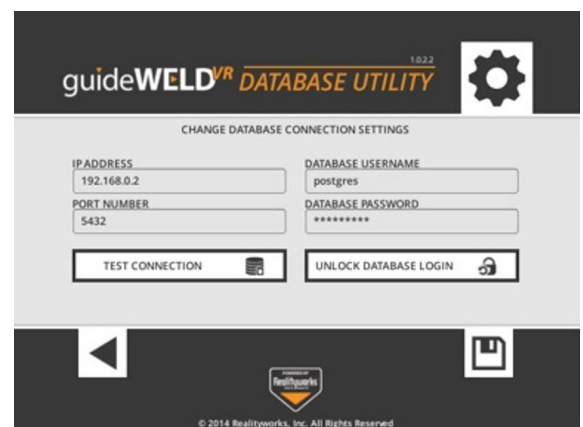
Figure 8A. DBUtility Connections Settings screen

Multi-user Database Location

The database connections are defaulted to localhost and can be changed to connect to the PostgreSQL installed on the server.

If you wish to check or change the database location for guideWELD VR, click the DATABASE LOCATION button. This will take you to the Database settings in the DBUtility Connections Settings screen (Fig. 8A):

1. The IP ADDRESS field defaults to “localhost”. You must change the IP address to connect to the server that the PostgreSQL database was installed on.
2. The PORT NUMBER field defaults to 5432. Keep this set as 5432 when installing PostgreSQL on the server.
3. Enter the PostgreSQL credentials in the USERNAME and PASSWORD fields that were established when you installed PostgreSQL on the server.
4. The UNLOCK DATABASE LOGIN button allows the database username and password to be changed. Click the Save button on the bottom-right hand corner of the screen after locking the database login changes.



5. Click the TEST CONNECTION button. When it turns green, it indicates that it can connect to the PostgreSQL database. If it turns red, it has failed to connect, or the port is blocked.
6. Click the Back button on the bottom-left hand corner of the screen to return to the main menu.

Initialize Database

After the database has been configured, it will need to be initialized. Initialization should only be done on the first connection.

1. Click the INITIALIZE DATABASE button (Fig. 9A). This creates the database structure in which all guideWELD® VR data will be stored.


⚠ Warning: Whenever the database is initialized, all data previously stored for guideWELD® VR Data is erased.

2. After the database has been initialized, click the TEST DATABASE button (Fig. 9A). If the icon is green, the database has been initialized properly. If the icon is red, it did not. If test database fails, contact Product Support.
3. After the database is initialized and the icon is green, launch the guideWELD® VR application.

NOTE: If the database is not initialized properly, you will not be able to log in to the simulator, since there are no default login credentials until the initialization is complete.

Log in as Administrator

The following section explains how to log in as an Administrator for the first time.

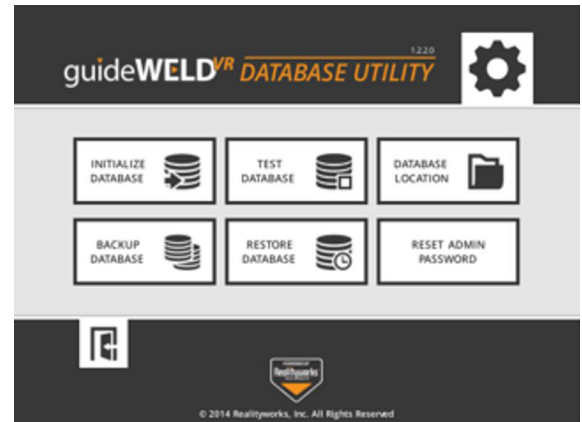
4. Launch the guideWELD VR software.
5. Select a language, resolution, full-screen, and graphic type. Then click the Play button ().
6. The first time you use guideWELD VR, enter “admin” as a username and “admin” as a password. These are the default Administrator credentials for guideWELD VR.
7. You will be prompted to change the Admin password.

Change the password to “123abc” or something of your choosing.

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8. After the username and password are accepted, the Main Administrator screen will be displayed (Fig. 10A - see next page).

Figure 9A. DBUtility Main screen



Instructor Accounts

Administrators can create or delete Instructor accounts as well as reset Instructor passwords. They also have access to System Configurations.

Adding Instructors

To add an Instructor, follow these steps:

1. On the Main Administrator screen (Fig. 10A), enter the Instructor's first and last name, then click the Add button on the lower-right hand side of the screen. Default usernames will appear as the first two letters of the first name and the first eight letters of the last. The Instructor default password is "password". The Instructor will be prompted to change the password when they first log into guideWELD VR.
2. Repeat step 1 as many times as necessary to build the list of Instructors.

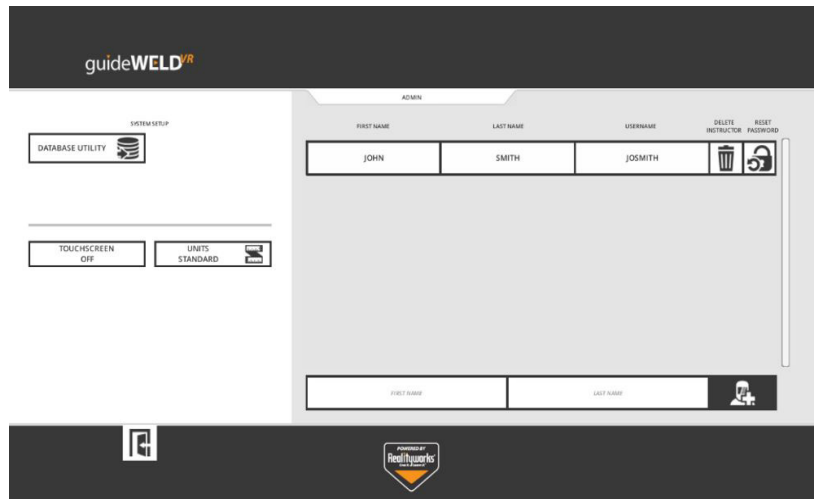


Figure 10A. Main Administrator screen

Deleting Instructors

To delete an Instructor, follow these steps:

1. Click the DELETE INSTRUCTOR button for the Instructor you want to remove.
2. A warning message will appear (Fig. 10B). Click the CONFIRM button to proceed with the deletion or the CANCEL button to cancel.

Figure 10B. Warning Message screen



Resetting Instructor Passwords

To reset an Instructor password, follow these steps:



1. Click the RESET PASSWORD button for the Instructor you want to reset (Fig. 10C). This will reset the Instructor password to "password".
2. The Instructor will be prompted to change their password the next time they log in.

Figure 10C. Reset Password button



DBUtility Backup and Restore

The backup and restore functionality is performed on the local machine using the DBUtility.

1. Login to the DBUtility.
First time you log into the DBUtility, enter “dbadmin” as the user name and “admin” as the password.
2. Select either the BACKUP DATABASE or RESTORE DATABASE buttons ( ), depending on your intention.
3. Select a directory to back up or restore from (Fig. 11A, Fig. 11B). The Database Administrator can back up and restore files locally.

Backing up a database must occur in locations that have “Write” permissions on the folder. Backup can occur on external drives.

Figure 11A. DBUtility Backup screen

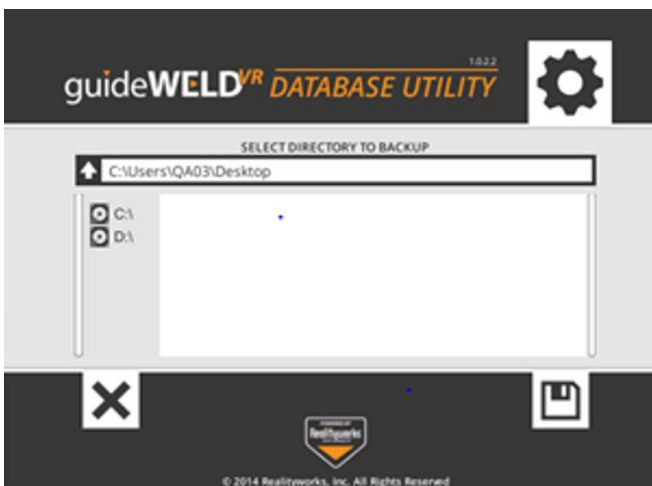
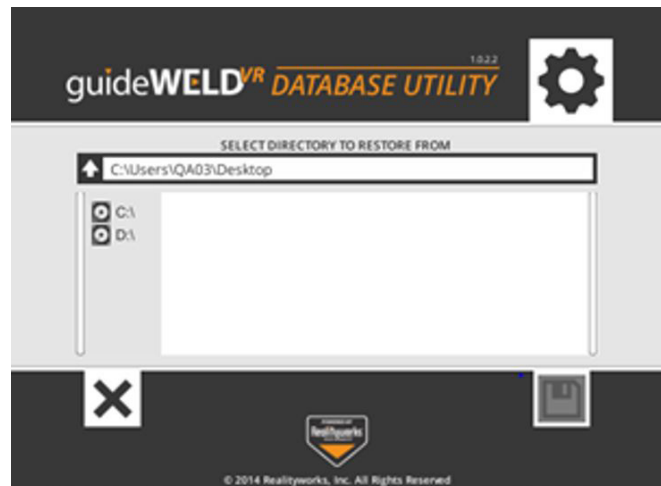



Figure 11B. DBUtility Restore screen



DBUtility Change Password

To change the DBUtility Administrator password, follow these steps:

1. Log in to the DBUtility.
2. Click the Gear icon on the upper right hand corner of the screen ().
3. Change the password, enter it on the second line to confirm it, and click the CONFIRM button.

guideWELD VR Administrator Change Password

To reset the Admin password for guideWELD® VR, follow these steps:

1. Log in to the DBUtility.
2. Click the Reset Admin Password button.
3. Confirm changes.
4. Launch guideWELD® VR and enter the default admin credentials. Follow the prompts on the screen and click the CONFIRM button.

Password Recovery and Product Support

If you lose your PostgreSQL or DBUtility Administrator password, they can be manually set back to the default. Contact our Product Support team for assistance using the contact information below.

Need More Help? - Product Support

Additional Help and Information

Visit: www.realityworks.com/guideweldvr-downloads

1. guideWELD® VR curriculum
2. Product Support tutorials and documents

Online Product Support

We're here to help! Our online product support features video tutorials, downloadable documents, frequently asked questions and product notices, all of which make it easy for you to get support for products, software and more, day or night. Find our online product support area here: www.realityworks.com/support/

Direct Contact to Product Support

Phone Number: 800.830.1416 (Option 2)

Email: productsupport@realityworks.com