



SUPERSCAPE



VIRTUAL REALITY ROBOT USER GUIDE

UPDATE FOR SOFTWARE VERSION 1.10.

INTRODUCTION.

This guide explains any changes made to the Virtual Reality software since Version 1.00. It should be used as a supplement to the Adobe Acrobat "Vr_robot" manual and the printed "Virtual Reality Robot Users Manual".

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LOGGING ON.

When logging on at the "User Identification" screen, the program now defaults to the name of the last known user.

CLOSING THE SOFTWARE.

On closing the VR linker (clicking on the [Close] button), the VR software will shut-down completely. The "User Identification" dialog box will not be displayed.

NEW VR LINKER ICONS.



On the VR linker, the "C", "A" and "E" buttons are replaced by icons.



- previously "C" - Show Device Control Panel.



- previously "A" - Perform Action shown.



- previously "E" - Show Action Editor.

VR LINKER SERVICE MENU.



On the VR linker, the options available in the Service menu are as follows:

- **Reset** - This option is used to reset any interlock errors.
- **Reset Device** - This option is used to force an idle back through the system in CIM worlds (greyed out - not applicable to VR Robot).

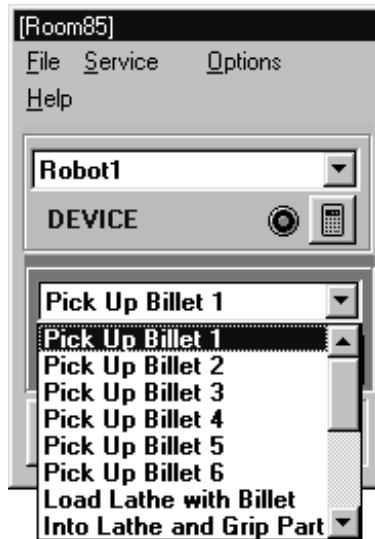
VR LINKER OPTIONS MENU.



On the VR linker, the options available in the Options menu are as follows:

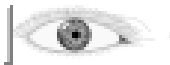
- **Use Interlocks** - Allows any interlocks that have been entered into the Action Editor to be used when tasks are performed by the devices.
- **Show hints for controls** - This option is used to switch "on" (tick mark visible) and "off" (tick mark not visible) the pop-up hints available, when the mouse cursor is placed over buttons and features in the VR linker window.

VR LINKER ACTIONS LISTING.



On the VR linker, the actions displayed in the actions dialog box dropdown list are now sorted numerically, according to their assigned command action number (the command action number can be edited from the Actions Editor window).

VIRTUAL REALITY VIEWING WINDOW ICONS.

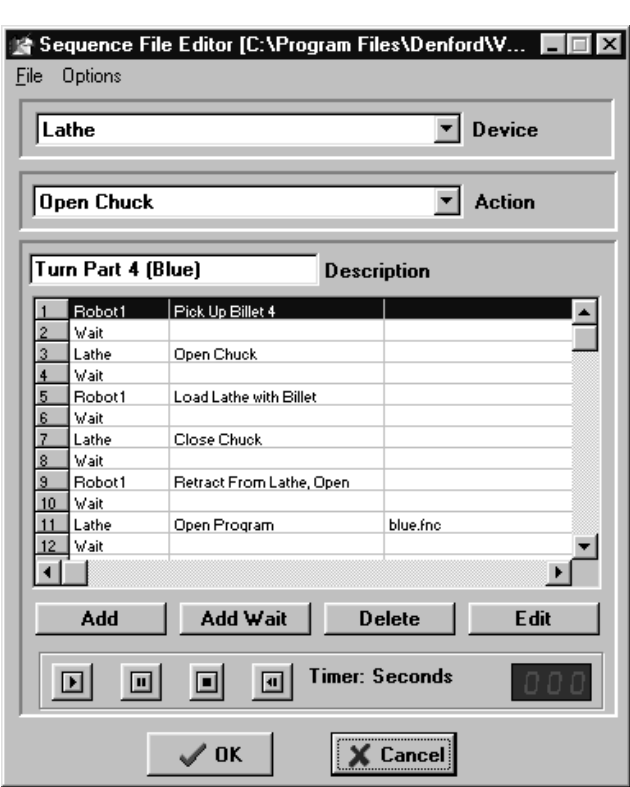


On the Virtual Reality viewing window - the "viewpoints" title is replaced by an "eye" icon.

Click on the textbar to the right of this "eye" icon to display the dropdown list of available viewpoints.

Highlight and click on the required viewpoint from the dropdown list; the viewing window will then change to show the selected view.

SEQUENCE FILE EDITOR TIMER.



The screenshot shows the 'Sequence File Editor' window. At the top, there's a title bar and a menu bar with 'File' and 'Options'. Below the menu bar, there are two dropdown menus: 'Device' set to 'Lathe' and 'Action' set to 'Open Chuck'. The main area contains a table with 12 rows. The first row is 'Turn Part 4 (Blue)' under the 'Description' column. The table has columns for step number, action, and description. The actions listed are: Robot1 Pick Up Billet 4, Lathe Open Chuck, Lathe Close Chuck, Robot1 Retract From Lathe, Open, Lathe Open Program, and several 'Wait' steps. The 'Open Program' step has 'blue.fnc' in the description column. Below the table are buttons for 'Add', 'Add Wait', 'Delete', and 'Edit'. At the bottom, there are playback controls: a play button, a pause button, a stop button, and a timer readout showing '000' seconds. The timer is labeled 'Timer: Seconds'. There are also 'OK' and 'Cancel' buttons at the very bottom.

		Description
1	Robot1	Pick Up Billet 4
2	Wait	
3	Lathe	Open Chuck
4	Wait	
5	Robot1	Load Lathe with Billet
6	Wait	
7	Lathe	Close Chuck
8	Wait	
9	Robot1	Retract From Lathe, Open
10	Wait	
11	Lathe	Open Program blue.fnc
12	Wait	

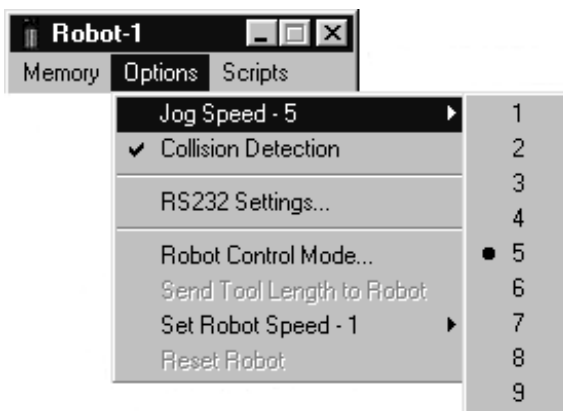


A close-up of the timer readout, which is a digital display showing '000'.

A timer (readout in seconds) has been added to the lower righthand corner of the Sequence File Editor window.

This starts when the [Play] button is clicked. The timer is reset to Ø (zero) by clicking the [Rewind] button.

ROBOT TEACHBOX JOG SPEED.



The Jog Speed option is available on the Options menu of the Robot Teachbox window toolbar.

Jog Speed (1 to 9) - Displays the current jog speed as a number between 1 and 9. The numbers refer to the incremental speed at which the robot will move, when being manually positioned using the robot teachbox buttons.

To change the jog speed move the mouse cursor right until the "1 to 9 numbered" dropdown table is shown - the current selected number is shown using a black "dot". Highlight the required jog speed number and click the left mouse button to select it.

This new jog speed number will be shown on the dropdown Options menu when it is selected again.