

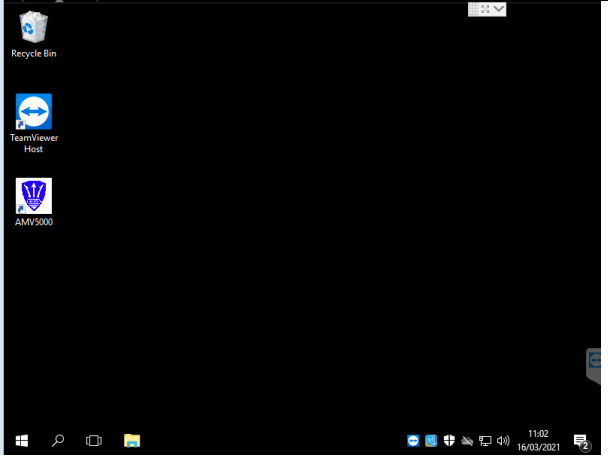
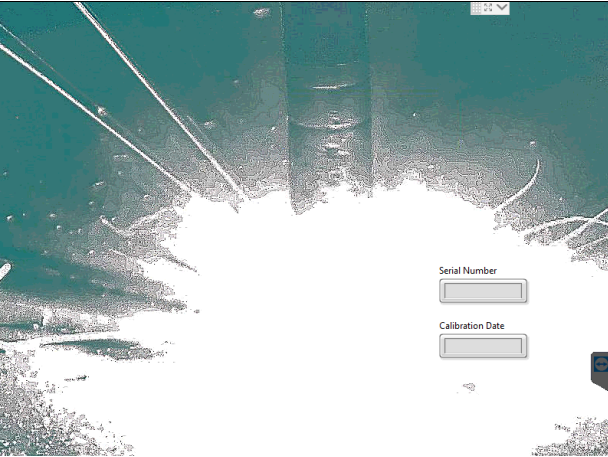
AMV5000 Guide

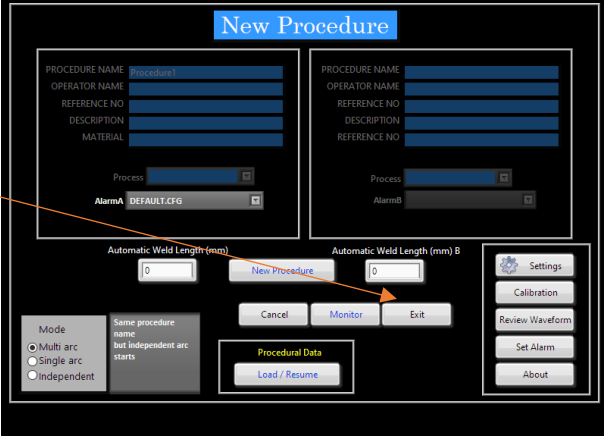

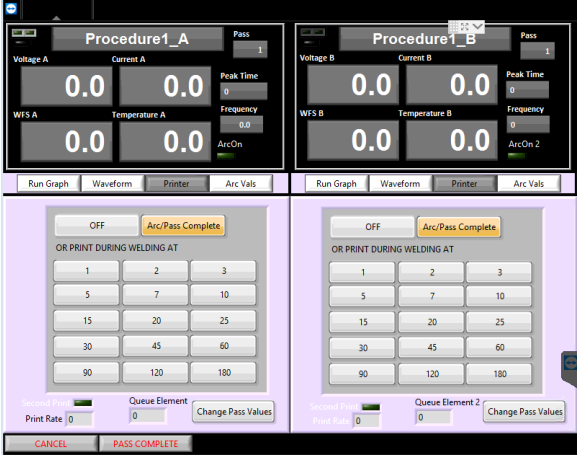

Connection to welding plant

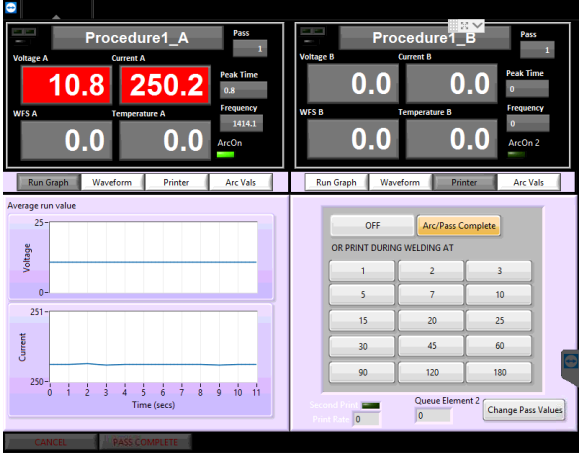
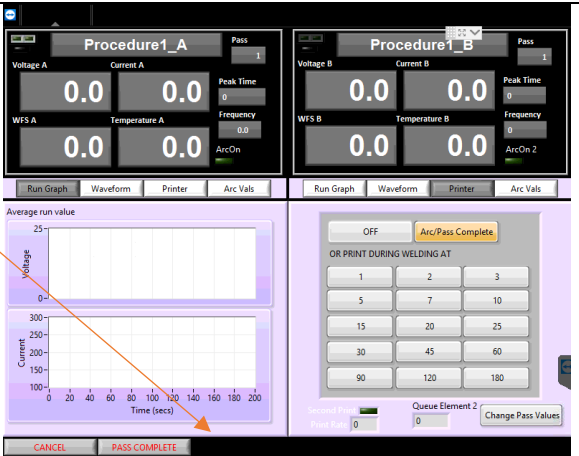
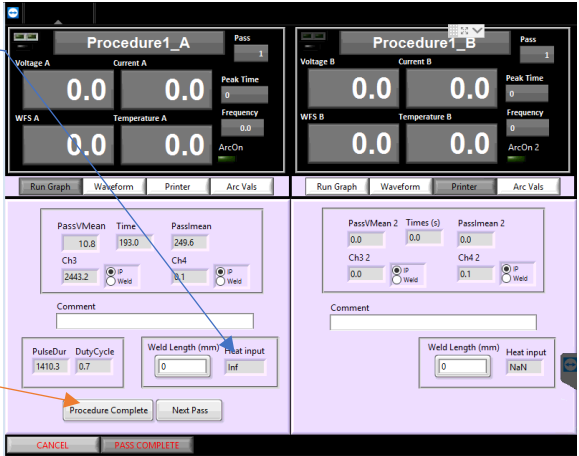
Need to add.

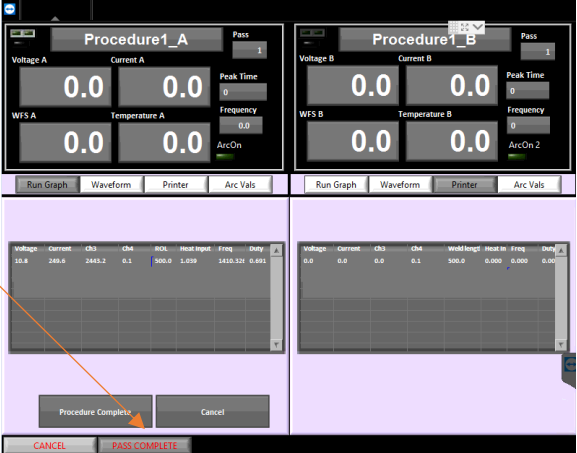

Simple Procedure record

This is the easiest method to record a weld

1	From the desktop double click the AMV5000 logo	 A screenshot of a Windows desktop environment. The desktop background is black. On the left side, there are three icons: 'Recycle Bin', 'TeamViewer Host', and 'AMV5000'. The 'AMV5000' icon features a blue shield with a white 'V' and the text 'AMV5000' below it. The Windows taskbar is visible at the bottom, showing the Start button, search icon, and system tray with the time '11:02' and date '16/03/2021'.
2	The splash screen loads the AMV5000 code and displays the unit serial number and last calibration date.	 A screenshot of the AMV5000 splash screen. The background is a dark, grainy image of a welding process. In the bottom right corner, there are two input fields. The first is labeled 'Serial Number' and the second is labeled 'Calibration Date'. Both fields are currently empty.

<p>3 Boot to the start screen</p> <p>From start screen press MONITOR</p>	
<p>4 You might need to agree to overwrite any previous data for both A and B</p>	
<p>5 This starts a new Procedure on both channels. The default names are: Procedure1_A - running on channel A Procedure1_B - running on channel B</p> <p>This is the ready state. Once an arc is detected the AMV will start recording.</p>	
<p>6 When running the AMV display average values in the top half of the screen.</p>	


	<p>And there are graphical option on the bottom.</p> <p>Run Graph show the peak trend line for the weld, and the x axis displays the arc time elapsed.</p> <p>Note in this case Channel A is recording Channel B is not.</p>	
7	<p>Once the arc stops the AMV returns to the ready state.</p> <p>If that is the end of the pass press PASS COMPLETE</p>	
8	<p>Enter a pass length and the heat input is calculated.</p> <p>Because the default setting Multi Arc was used the weld length is copied across to channel B – even though no reading are recorded.</p> <p>If that is the end of the procedure - i.e. a procedure that is 1 arc and 1 pass. Press PROCEDURE COMPLETE</p>	

<p>9</p> <p>This will show the procedure summary screen for both Channel A and B.</p> <p>Press PROCEDURE COMPLETE to finalise the procedure and return to the start screen.</p>	
<p>10</p> <p>Ready to start a new procedure.</p>	

Run a single welding process

You can run the AMV5000 to capture just one welding arc as above. The B version is generated with zero values.

An alternative is to set the AMV to run a single arc:

<p>11</p> <p>From the start screen.</p> <p>Select the Single arc radio option:</p> <p>Note the Automatic weld length B is greyed out.</p>	
---	--

12 To name the procedure, press New Procedure



13 Type the new procedure name in. In this example we SingleArcTest



14 The procedure name appears in the lefthand title box.

Now fill in:
 Operator name :
 Reference Number:
 Description:
 Material:

Then select a process from the drop down menu.

You can also set an alarm from the alarm drop down list. The next example shows how to setup these



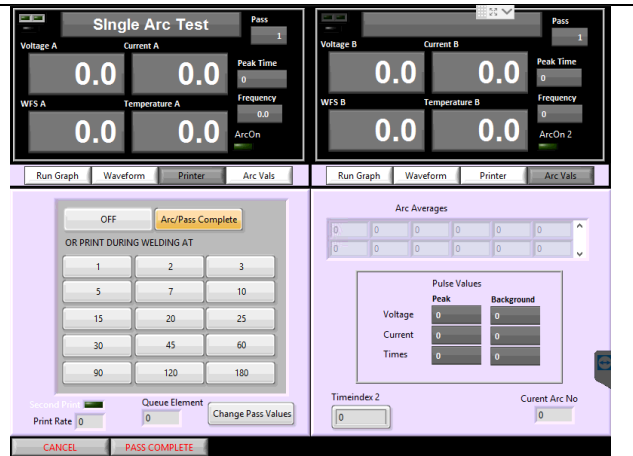
15 Having filled it in it should look something like this

Press Monitor



16 The main difference to the screen in step 5 is the second bottom display now shows arc values.




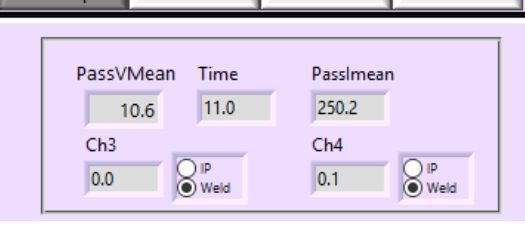
As before this it the waiting screen. Once an arc is detected the AMV will record.



17 The running screen shows the trend lines as before but also the pulse values.

To see the waveform press the waveform option



<p>18 Select the channels to view (in this case channel 1 (voltage) and 2 (current))</p> <p>The times base can be extended to 2 or 3 seconds. This can help visualise long GTAW, TIG pulses</p>	
<p>19 Press pass complete when the arc has gone out.</p> <p>Then press Next Pass.</p> <p>This returns the AMV to the wait screen</p>	
<p>20 Once an arc has been recorded press Pass Complete</p> <p>Enter a weld length to change the heat input calculation.</p>	
<p>21 Notice on channel 3 and channel 4 there is a radio selection button. This means the value reported is either</p> <ul style="list-style-type: none"> • IP for interpass – the value just before the arc struck. • Weld – average value from the recorded values. 	

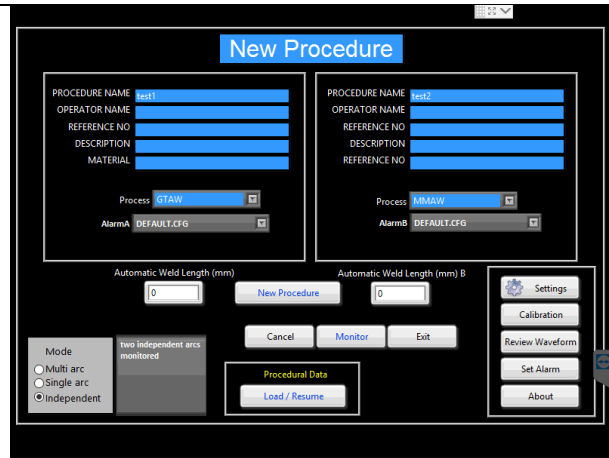
22 Press Procedure Complete

This brings up the procedure summary.

Press Procedure Complete to go back to the setup screen.



23



Run an Independent welding process

The AMV5000 can monitor 2 entirely separate welding systems.

24 Select Independent from radion selection box.

Enter the names of each procedure, test1 and test2 in our case.

Press Monitor



25 The wait screen looks very similar to screen 5 but the procedure names do not have _A and _B



26 When one side starts just that half starts to record the welding



27 Run an arc on Channel B



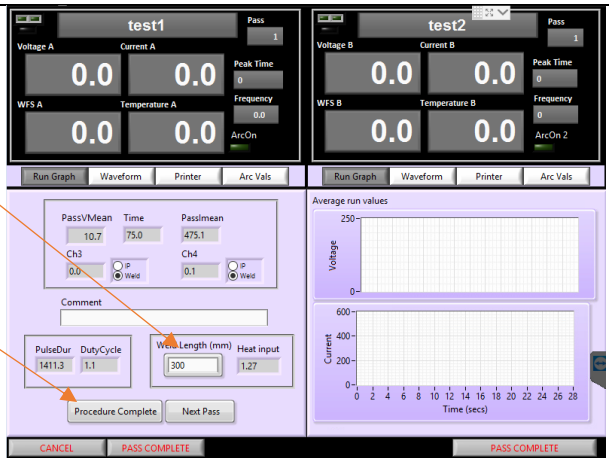
28 When the arc has finished the screen should look like this.

Press PASS COMPLETE on Channel A



29 Then enter a weld length

Press PROCEDURE COMPLETE



30 The screen should now show a summary of the pass.

Press Cancel

This returns to the wait screen



31 Channel A is now waiting to start Pass 2

Channel B is still on Pass 1



32 Ruin another arc on Channel A



33 Press PASS COMPLETE for Channel A



34 Then PASS COMPLETE for Channel B

Press Procedure Complete on both Channel A and Channel B



35 The summaries of both procedures are shown.

Press Procedure Complete for Channel A



36 You can now swetup a new procedure on Channel A

Press Monitor

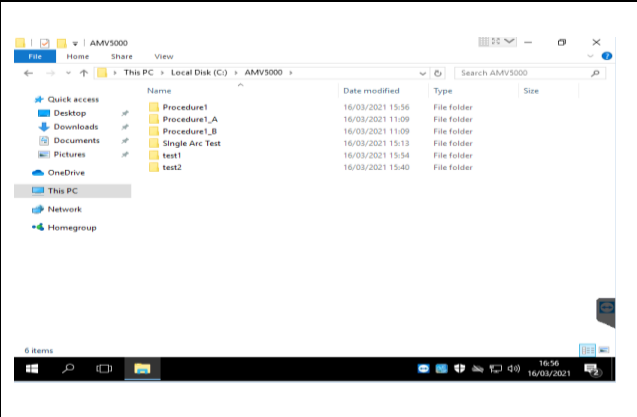


37	The AMV sets Channel A to the wait screen	<p>The screenshot shows two main panels for 'Procedure1' and 'test2'. Each panel has a 'Pass' indicator (2 for Procedure1, 1 for test2) and displays Voltage, Current, Peak Time, WFS, Temperature, Frequency, and ArcOn. Below the panels are control buttons like 'Run Graph', 'Waveform', 'Printer', and 'Arc Vals'. A central control panel includes an 'Arc/Pass Complete' button, a numeric keypad for 'OR PRINT DURING WELDING AT', and a 'Queue Element' section. A data table is visible on the right side of the control panel.</p> <table border="1"> <thead> <tr> <th>Voltage</th> <th>Current</th> <th>chs</th> <th>chs</th> <th>Weld length</th> <th>Heat In</th> <th>Freq</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>11.8</td> <td>368.6</td> <td>0.0</td> <td>0.1</td> <td>500.0</td> <td>0.230</td> <td>942.189</td> <td>2.89</td> </tr> </tbody> </table>	Voltage	Current	chs	chs	Weld length	Heat In	Freq	Duty	11.8	368.6	0.0	0.1	500.0	0.230	942.189	2.89
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11.8	368.6	0.0	0.1	500.0	0.230	942.189	2.89											

Recorded data

38	Close the AMV software																																					
39	Open file explorer	<p>The screenshot shows the Windows File Explorer 'This PC' view. It displays 'Folders (6)' including Desktop, Downloads, Documents, Music, Pictures, and Videos. It also shows 'Devices and drives (1)' with Local Disk (C:) having 453 GB free of 476 GB.</p>																																				
40	Navigate to the folder c:\AMV5000	<p>The screenshot shows the Windows File Explorer view of the folder 'c:\AMV5000'. It lists several folders with their names, dates modified, types, and sizes.</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Date modified</th> <th>Type</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>AMV5000</td> <td>16/03/2021 11:09</td> <td>File folder</td> <td></td> </tr> <tr> <td>Intel</td> <td>17/12/2020 07:20</td> <td>File folder</td> <td></td> </tr> <tr> <td>PerfLogs</td> <td>18/12/2020 18:06</td> <td>File folder</td> <td></td> </tr> <tr> <td>Program Files</td> <td>18/12/2020 23:27</td> <td>File folder</td> <td></td> </tr> <tr> <td>Program Files (x86)</td> <td>18/12/2020 23:32</td> <td>File folder</td> <td></td> </tr> <tr> <td>triton</td> <td>18/12/2020 23:27</td> <td>File folder</td> <td></td> </tr> <tr> <td>Users</td> <td>18/12/2020 23:59</td> <td>File folder</td> <td></td> </tr> <tr> <td>Windows</td> <td>16/03/2021 10:34</td> <td>File folder</td> <td></td> </tr> </tbody> </table>	Name	Date modified	Type	Size	AMV5000	16/03/2021 11:09	File folder		Intel	17/12/2020 07:20	File folder		PerfLogs	18/12/2020 18:06	File folder		Program Files	18/12/2020 23:27	File folder		Program Files (x86)	18/12/2020 23:32	File folder		triton	18/12/2020 23:27	File folder		Users	18/12/2020 23:59	File folder		Windows	16/03/2021 10:34	File folder	
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41 Each procedure has a separate folder



42 The data files are stored in the individual folders.

