

TeleRein Logger Software User Manual

User guide

Table of Contents

TeleRein Logger Software User Manual	3
Common Operations	4
Common Operations - Startup Screen	5
Load Session Screen	6
Load Session window	7
Select a File window	8
Save file information	9
Example Charts	11
Software Reference	14
Startup Screen	15
TeleRein window	16
Settings screen	19
Settings window	20
Software Installation	23

TeleRein Logger Software User Manual

This manual describes how to use the software supplied for recording information generated by the TeleRein Equestrian Coaching Tool.

The TeleRein Equestrian Coaching Tool allows you to:

- See what is happening to the Contact at a distance, or when a rider's hand is out of sight
- "Tells" you how sensitive your rider's feel can be
- Enables you to give an objective answer to questions of Contact, not just your opinion
- Easily fitted and comfortable for a horse to wear
- It may be used equally well on jumping horses or dressage horses.

In operation TeleRein hardware senses the load applied to each side of the reins of a horse during an equestrian event. The load applied to the rein is transmitted to a remote hand held device. The load is displayed on an LED bar graph in 'TeleRein Units'.

The load applied to the left and right hand reins is also available at a USB interface on the handheld device.

The TeleRein logger software acquires the rein load information using the USB interface.

The TeleRein Logger software when installed on an appropriate computer has the capability of:

- Recording the load over a period set by the user
- Associating the recording with a particular horse or rider
- Displaying the load on a chart
- Saving the load in a standard format for later analysis by other software
- Printing the chart

To use the TeleRein Logger software complete the following steps:

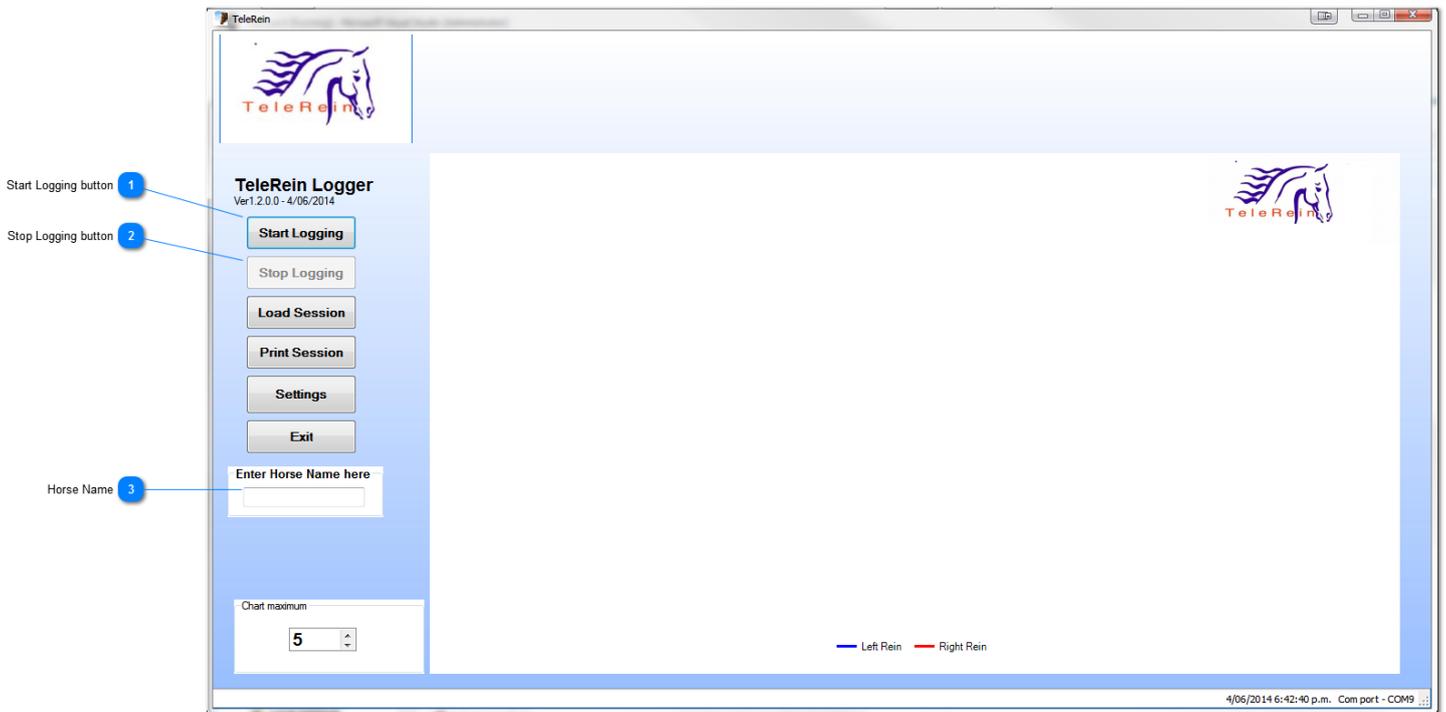
1. [Download and install](#) the software
2. Use the [Settings window](#) to set up the software according to your preferences
3. Plug the TeleRein hardware into an available USB port (refer to the [Settings window for USB/COM port configuration](#))
4. Perform the steps outlined in [Common Operations](#) to log the left and right rein loadings during an event
5. To retrieve and view previous sessions refer to the [Load session section](#) of this manual

Common Operations

After the software is installed and configured (using the [Settings screen](#)) according to your preferences operation of the software consists of the following steps:

- 1) [At the startup screen enter the horses name](#), e.g. Rusty, add an event number to the horse name if appropriate e.g. 'Rusty - event 1'
- 2) Click '[Start Logging](#)'
- 3) The chart will be updated as the event progresses
- 4) When the event is complete click '[Stop Logging](#)'
- 5) The event will be saved in C:\telerein\ Rusty - event 1.csv

Common Operations - Startup Screen



1 Start Logging button

Start Logging

Click here to start logging the TeleRein riding session

2 Stop Logging button

Stop Logging

Click here to stop logging and save the session

3 Horse Name

Enter Horse Name here

Type the name of the horse in this box. Add any additional information that you require to identify a particular session

Load Session Screen

The load session screen provides a means of loading and displaying previous sessions.



1 Select file button



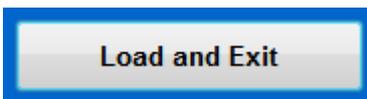
Click here to display the file open dialogue

2 Selected File



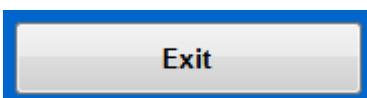
The Selected file is displayed here

3 Load and Exit button



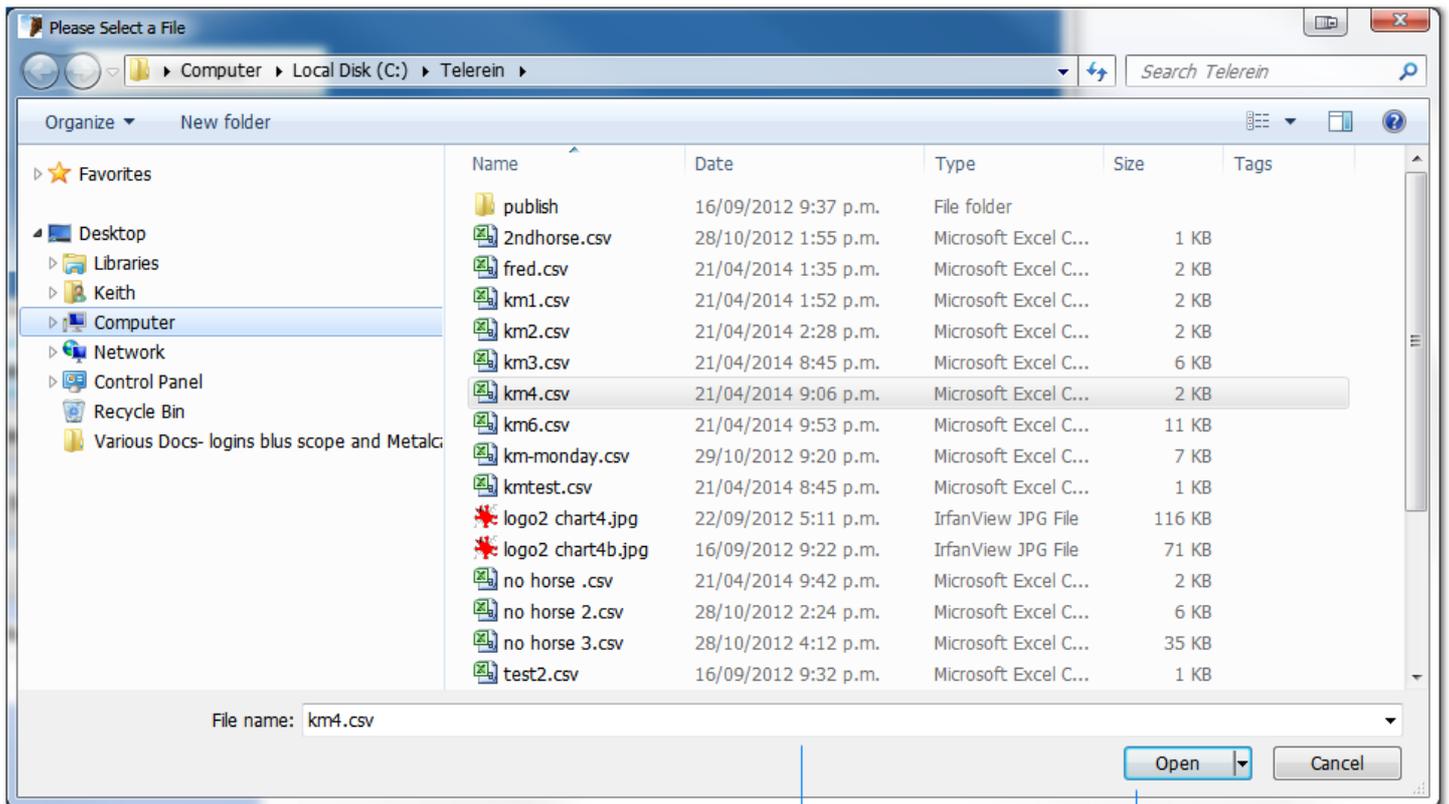
Click here to load and display the contents of the selected file

4 Exit button



Click here to close the load session screen without loading a file

Select a File window



1

Selected File

2

Open button

1

Selected File

km4.csv

Click on the session file, the name will be displayed here

2

Open button

Open

Click here to open the file and return to the load session screen

Save file information

The files saved during operation of the TeleRein Logging software are in standard CSV (comma delimited) format and can be opened by many office packages and can then be analysed any way the user desires.

The structure of the CSV file is

time,left,right

e.g.

00:00, Left, Right

00:01,14.4,12.8

The the time is minutes and seconds and the loading values are grams.

The values are updated and saved once per second, each value is the average of a sliding window of the last ten values received by the software from the TeleRein hardware.

Below is the contents of a saved file as opened in OpenOffice Calc (similar to EXCEL):

Rusty.csv - OpenOffice Calc

File Edit View Insert Format Tools Data Window Help

Find Text

Arial 10 B I U

A1 = '00:00

	A	B	C	D	E	F	G	H
1	00:00	Left	Right					
2	00:00	0	0					
3	00:01	0	0					
4	00:02	0	0					
5	00:03	0	0					
6	00:04	2.4	1.6					
7	00:05	5.6	0					
8	00:06	20.1	0					
9	00:07	8.8	0					
10	00:08	4	.8					
11	00:09	12	35.5					
12	00:10	33.6	1.6					
13	00:11	0	2.4					
14	00:12	14.4	0					
15	00:13	5.6	0					
16	00:14	24.5	2.4					
17	00:15	45	.8					
18	00:16	33.6	9.8					
19	00:17	46	23.4					
20	00:18	34.2	46.9					
21	00:19	177.2	182.1					
22	00:20	908.4	849.4					
23	00:21	1545.8	803.8					
24	00:22	1669.6	470.2					
25	00:23	1194.8	1092.7					
26	00:24	1540.8	740					
27	00:25	1084.3	1530					
28	00:26	1391.5	1372.4					
29	00:27	1485	1599.9					
30	00:28	2703.8	1013					
31	00:29	2424.8	1741					
32	00:30	1991.6	2213.2					
33	00:31	2702.8	1418.1					
34	00:32	1764.2	2402.5					
35	00:33	1752.3	2214					
36	00:34	2347.6	1526.8					
37	00:36	2616.6	1143.4					
38	00:37	1792.9	2002.4					

Properties

Text

Arial

B I U

Alignment

Left indent: Opt

Text orientation: 0 degrees

Cell Appearance

Cell background:

Cell border:

Show cell grid lines

Number Format

Sheet1

Sheet 1 / 1 Default STD Sum=0 100%

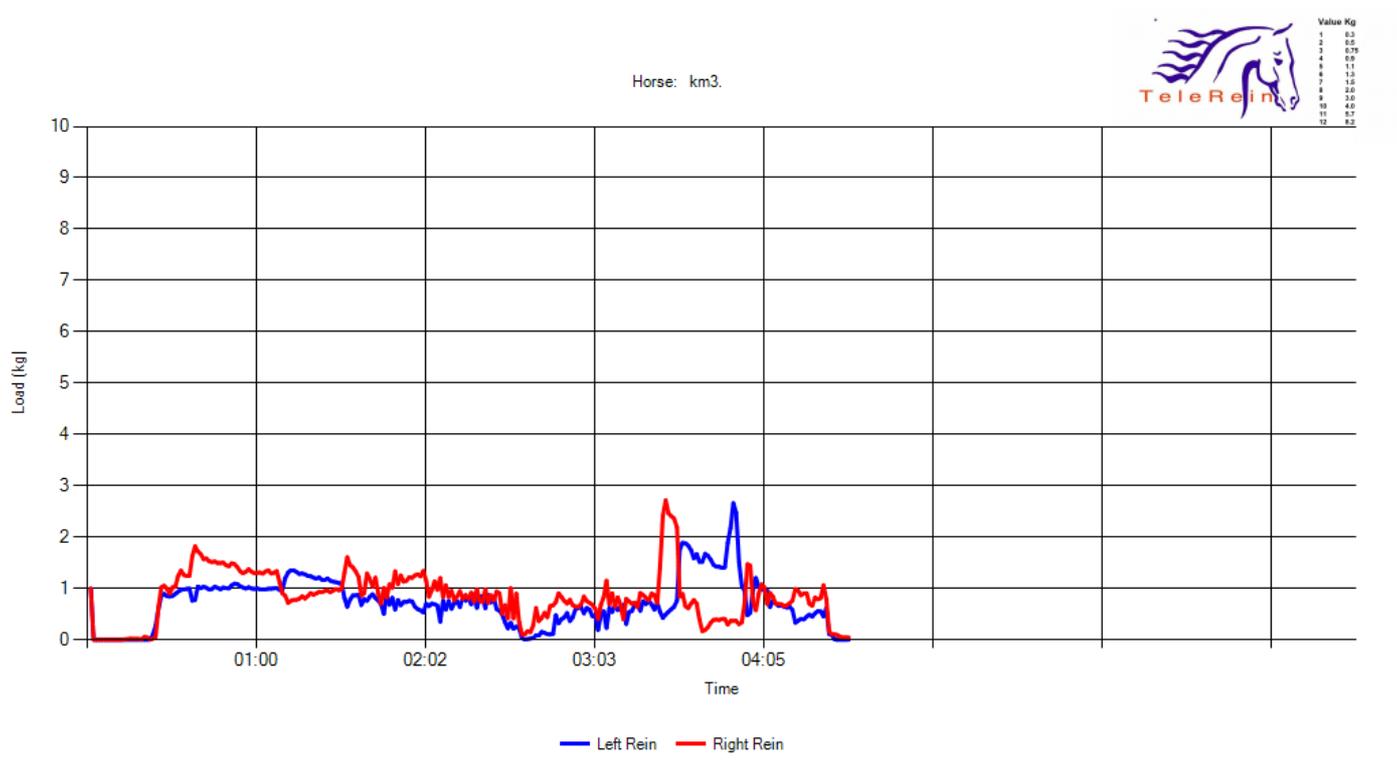
Notes:

If the same horse name is used for multiple sessions, each session will be appended to the previous session in the same file.

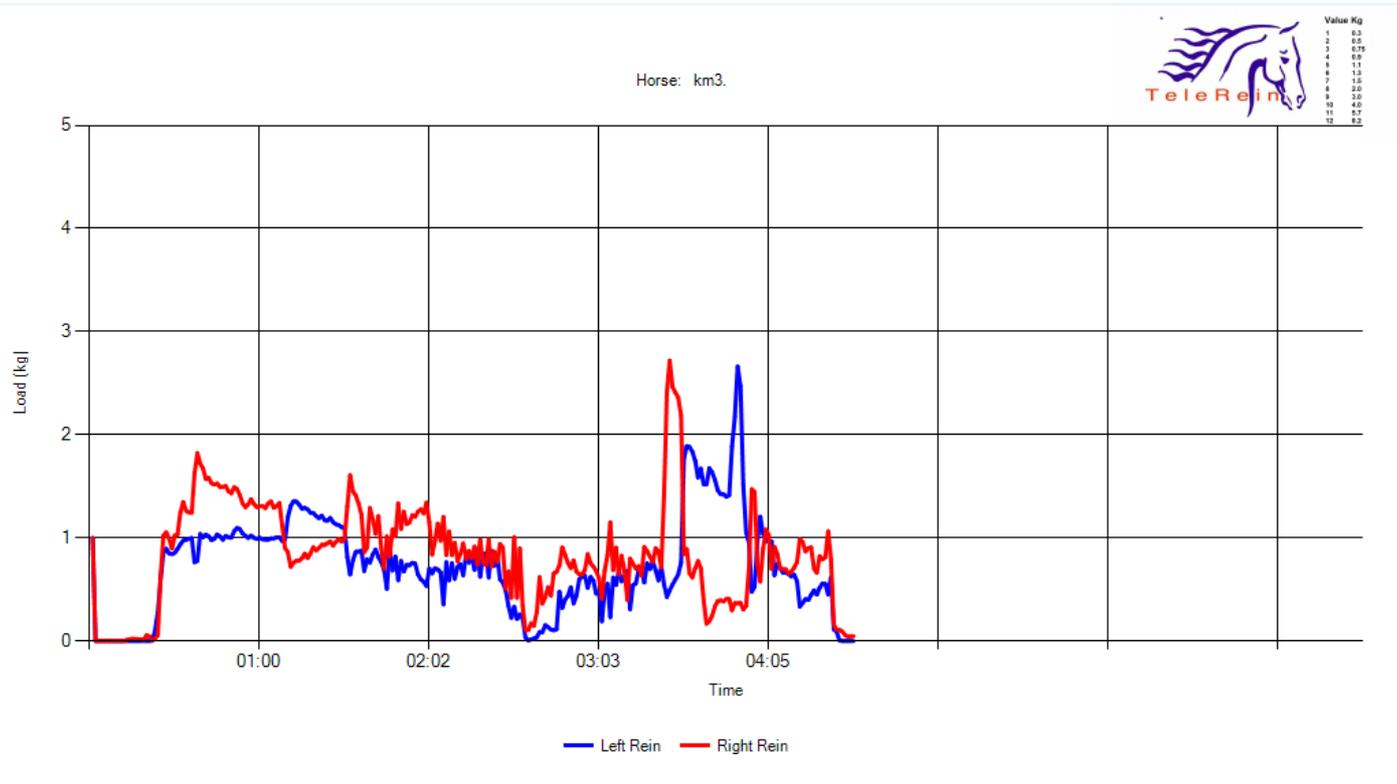
This may lead to issues when trying to view the session file using Load Session.

Example Charts

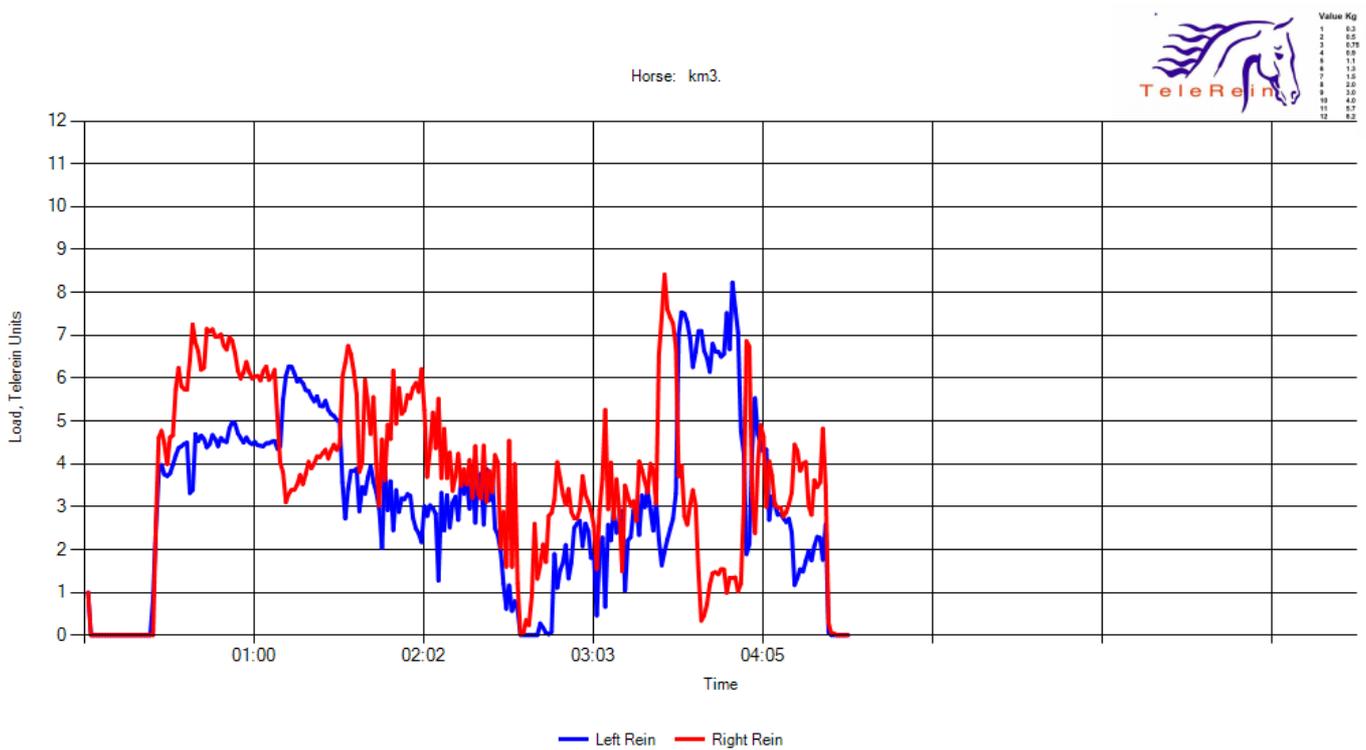
A few example charts along with the relevant settings (these are not real sessions):



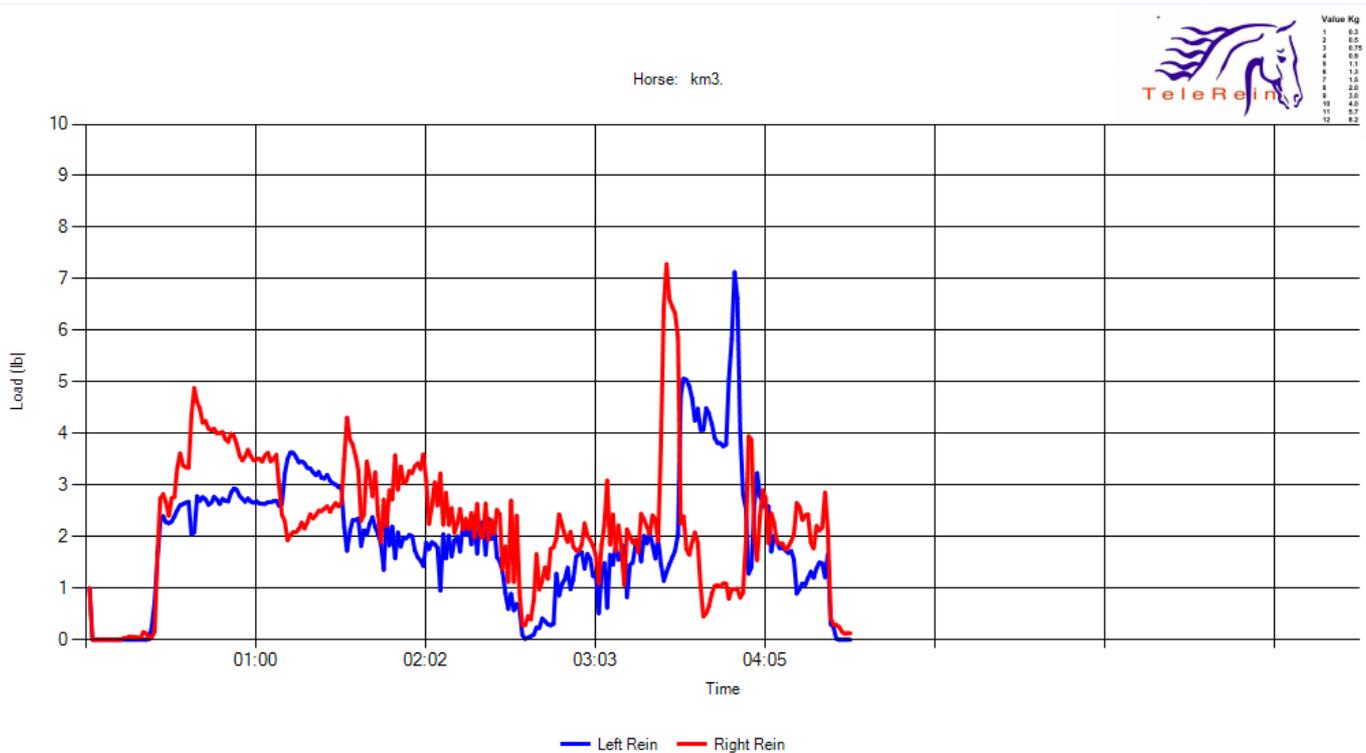
Settings: Metric Units, linear vertical axis, default vertical axis maximum of 10 kg



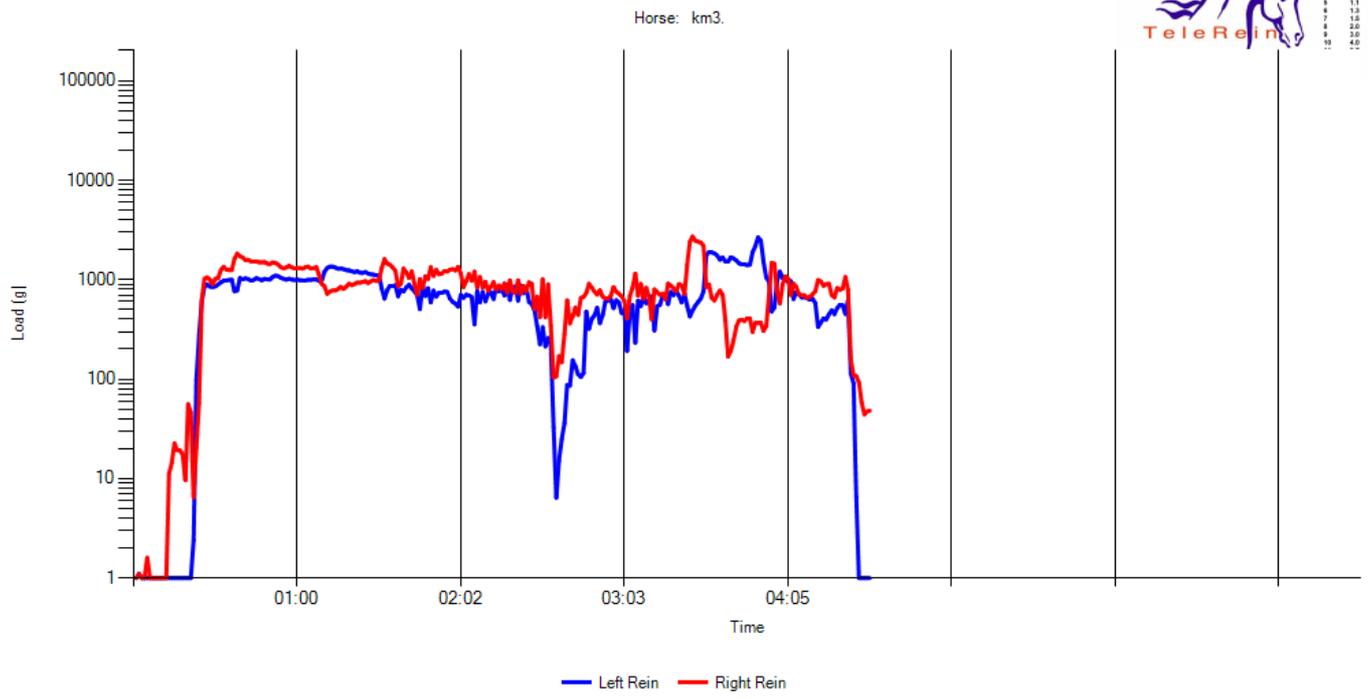
Settings: Metric Units, Linear vertical axis, vertical maximum set to 5 using the [chart max setting](#) on the Startup Screen



Settings: TeleRein Units with default vertical maximum

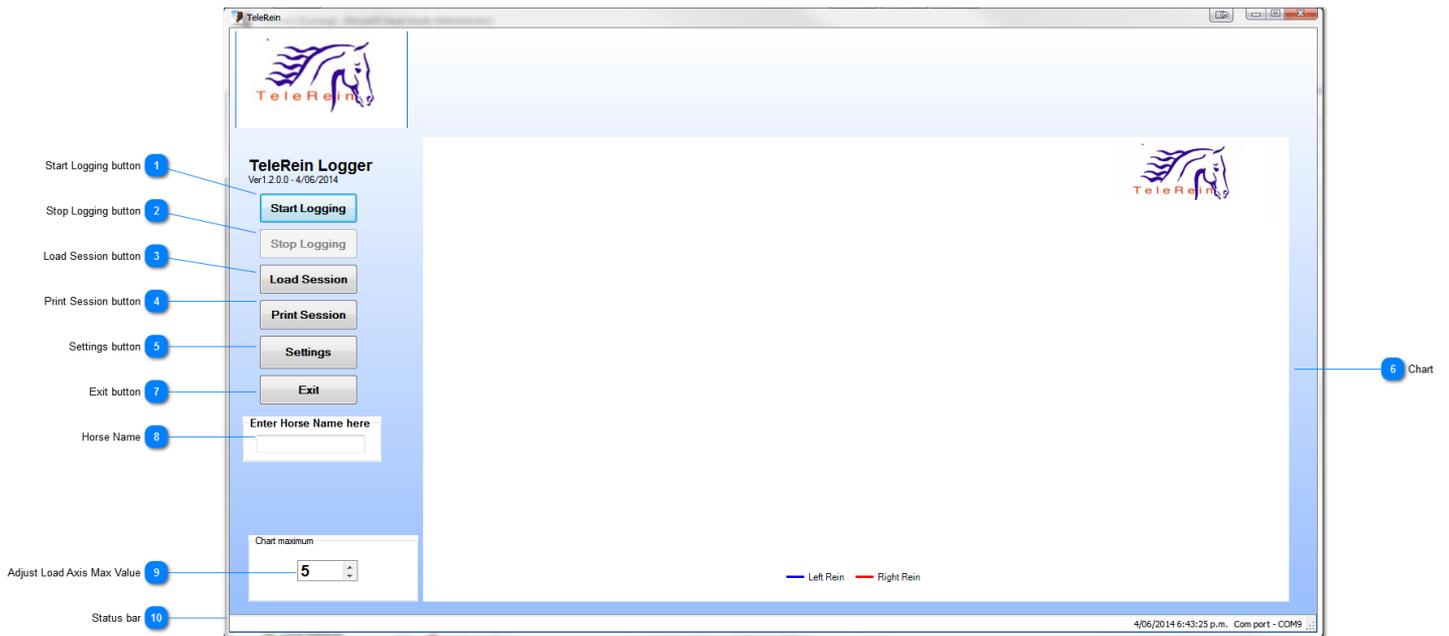


Settings: Imperial Units, Chart maximum set to 10 using chart max tool on Startup Screen



Settings: Metric Units, Logarithmic Vertical axis

TeleRein window

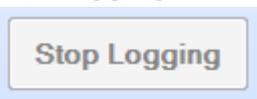


1 Start Logging button



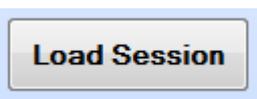
Click here to start recording a session. Information will be displayed on the chart according to the current settings and will be saved in a file (see Horse Name). The time scale of the chart will be in minutes and seconds from the time that the button was clicked

2 Stop Logging button



When the event is finished click here to stop logging

3 Load Session button



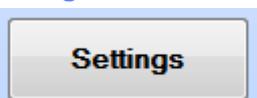
Click here to select and load a previous session

4 Print Session button



Click here to print the currently displayed chart

5 Settings button



Click here to open the settings screen.

6 Chart



The plot of TeleRein load information is displayed here

7 Exit button



Click here to shut down the TeleRein Logging software

8 Horse Name

Before starting to log a session, type a horse name (or any other text) in this box.

This text will be used to name the session recording file saved in the c:\telerein folder so valid file name characters only may be used.

9 Adjust Load Axis Max Value

Use the up/down arrows to select a maximum value for the load (Y) axis.

When the desired value is displayed click on the value.

10 Status bar



The date, time, selected COM port, open file name and other information is displayed here

Settings screen

The Settings Screen provides for software configuration including:

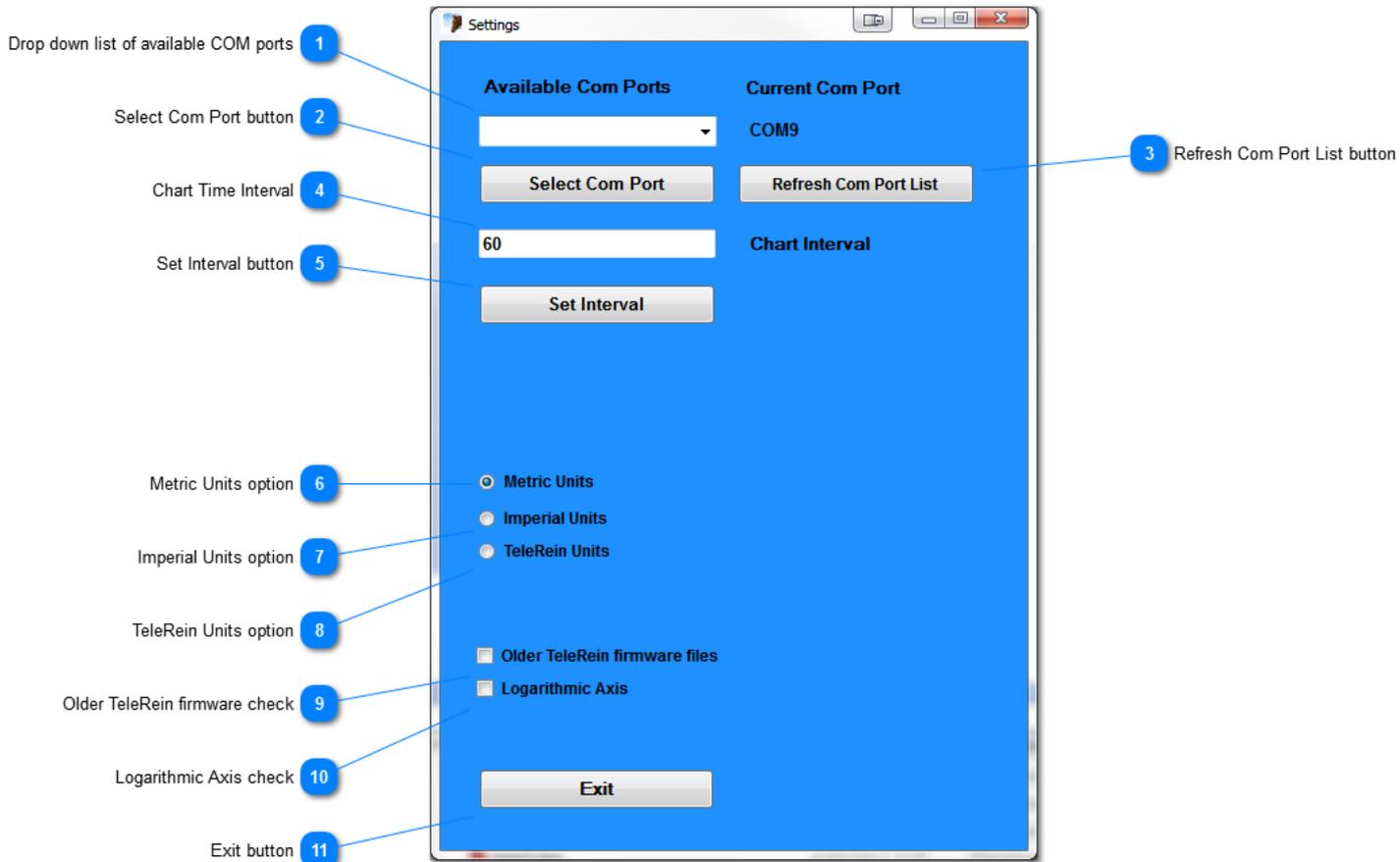
- Tools for selecting the correct COM port
- Tools for selecting the chart start up time (X) axis values
- Options for selecting linear or logarithmic load axis

The settings are saved when applied and restored when the software is restarted.

If the settings for a chart are changed they will be applied next time a previous session is loaded or a new logging session is started.

It is recommended that settings be tested on a saved session before use in a new event.

Settings window



1 Drop down list of available COM ports



Click the down arrow to see a list of available COM ports. Click on a COM port (e.g. COM9) then click the [Select COM Port Button](#)

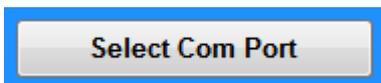
The software receives information from the TeleRein handheld unit via USB and this is manifested in the PC as a COM port.

The software needs to know which COM port the TeleRein handheld device is connected to.

If the TeleRein unit is not plugged in when the software is started the correct COM port will not be available. After the TeleRein unit is plugged into the PC click the [Refresh Com Port List](#) button to add the TeleRein COM port to the available list. It will then be possible to select the correct COM port.

If the correct COM port is not selected, the chart will not update when logging is started at the Startup Screen

2 Select Com Port button



Click here to confirm the COM port highlighted at the [list of available com ports](#)

3 Refresh Com Port List button

Refresh Com Port List

Click here to update the list of COM ports known to the PC

4

Chart Time Interval

60

Enter a desired time interval here

5

Set Interval button

Set Interval

Click here to confirm the Chart time interval

6

Metric Units option

Metric Units

Click here to set the vertical (load axis) to Metric Units. If the logarithmic axis option is ticked, the units will be grams otherwise the units will be kg

7

Imperial Units option

Imperial Units

Click here to set the vertical axis to pounds

8

TeleRein Units option

TeleRein Units

Click here to set the units to the same as those displayed in the handheld telerein unit.

These units correspond to kg as below:

TeleRein Units	kg
1	0.3
2	0.5
3	0.7
4	0.9
5	1.1
6	1.3
7	1.5
8	2.0
9	3.0
10	4.0
11	5.7
12	8.2

9

Older TeleRein firmware check

Older TeleRein firmware files

Use this check box if your TeleRein saved file was created using a unit that had the older firmware

10

Logarithmic Axis check

Logarithmic Axis

Tick this box to select Logarithmic vertical axis

11

Exit button

A rectangular button with a light gray gradient and a dark gray border, containing the word "Exit" in a bold, black, sans-serif font.

Click here to close the settings window

Software Installation

The software can be installed on any personal computer running Windows 7, 8.0 or 8.1.

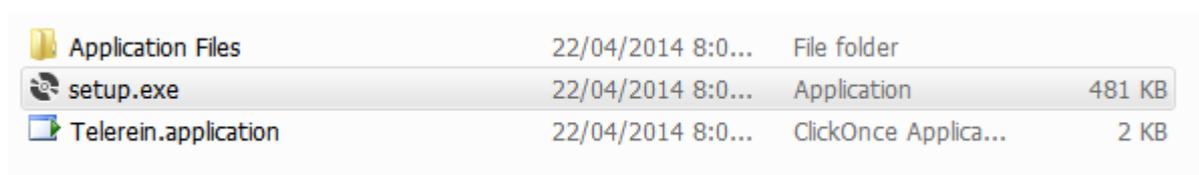
The computer will need at least one USB port and will need a default printer available if charts are to be printed.

An FTDI USB driver may be required. Download and install this from <http://www.ftdichip.com/Drivers/VCP.htm>

To install the software, download the zip file from the TeleRein web site at <http://www.telerein.co.nz/info.html>

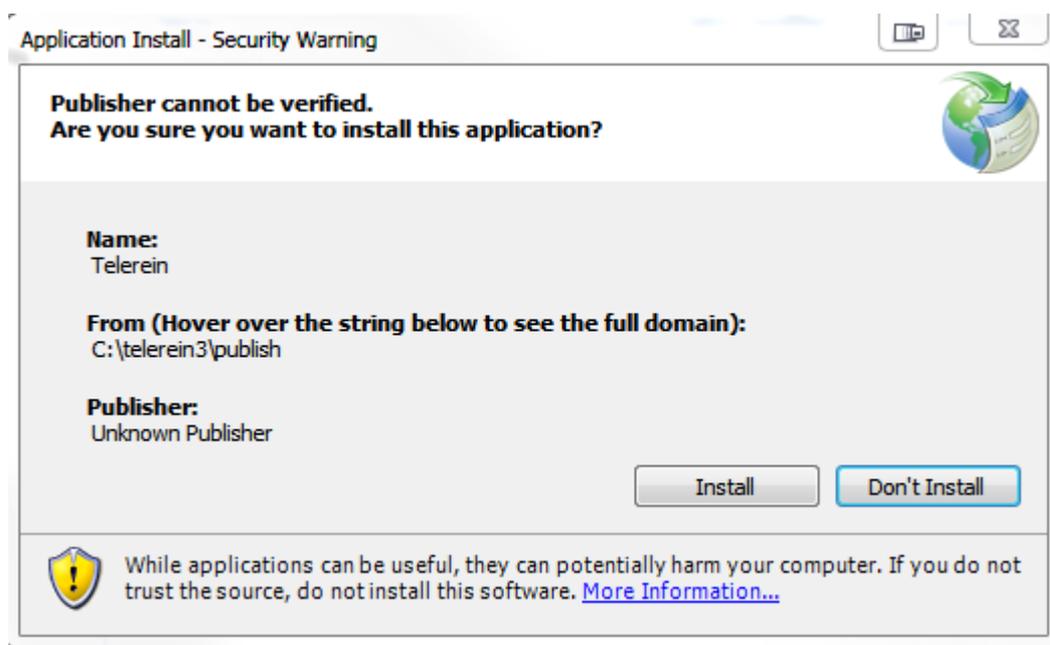
At the download folder on your PC, double click the file setup.zip and select 'extract all'. Select a location (e.g. My Documents) to store the set up files.

Open the location used to save the setup files and locate the file 'setup.exe'. Double click 'setup.exe'



Application Files	22/04/2014 8:0...	File folder	
setup.exe	22/04/2014 8:0...	Application	481 KB
Telerein.application	22/04/2014 8:0...	ClickOnce Applica...	2 KB

You will see this screen:



Click 'Install' to continue.

The software will install.

Finally, create a folder c:\TeleRein to store recorded event files.

Alternatively, download 'TeleRein.exe' to your desktop. Run the software by double clicking on the downloaded file. This install option will work if your PC already has the necessary supporting software.