#### SEBA HYDROMETRIE

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### WinRiver II

#### WinRiver II Main Screen



### WinRiver II is the software used to set configurations, collect data with StreamPro and Workhorse Rio Grande, and playback previous transects.

### Configure

etup Ave

Number of Ensembles to Average



On the **Configure** menu, click Reference. Select the desired reference: None, Bottom Track, GPS (GGA), or GPS (VTG).



| Peripherals        |         | All           | SI       | se |
|--------------------|---------|---------------|----------|----|
| ASCII Output       |         | Ad            | vanced 🕨 | ſ  |
| Global Parameters  |         |               |          | ,  |
| Averaging Data     | Ctrl+F9 |               |          |    |
| Site Wizard        | Ctrl+I  | 2.50          |          | -  |
| Screen Capture     |         |               |          |    |
|                    |         | <b>€</b> 5.00 |          | -  |
|                    |         |               |          |    |
| raging Data Dialog |         |               | ×        |    |

| To change the units for<br>all displays, on the<br><b>Configure</b> menu, |
|---|
| select Units.   |
|   |

On the Configure OK menu, click Averaging Cancel Data... Enter a number greater than one to average the data.



Rating Information: Enter the Rating Information.

Click Next.



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### Configuration Dialog:

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### [ Barris ] 2 2 3 the back Next of B

**Output Filename** Options: Use the **Output Directory** field to select where the data file will be stored. Check the **Measurement Number** box to add it to the file name. Click Next.



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Commands Preview: The Commands Preview is where adjustments can be made to the commands produced by the measurement wizard Click Next.

Summary Page: Review the Summarv Page. When done, click Finish.

A green check mark next to WM12 and BM7 means that the ADCP is capable of using these modes, not that the mode is selected.

**Aquire** 



### Step 1:

On the Acquire menu click Start Pinging or use the shortcut key F4.

|            | ACC WERE CR     |           |        |         |
|------------|-----------------|-----------|--------|---------|
| Arig data  | No. Ven Dept    | NH.       | 5.00   |         |
|            | Secondary Depth | 44        | 0.00   | Enter v |
| and a      | Nas Water Spee  | diwith    | 0.50   | Lincity |
|            | Max Boar Speed  | DevAL     | 10.90  | how th  |
| Darik ADOF | Steaded         | Sand      |        | now in  |
|            | Subar Made      | Auto      |        |         |
|            | Water Hode      | Auto      | •      |         |
|            | Update Rate     | pare .    | -      |         |
|            | Duhap           |           |        |         |
| P 1        | Top Matland     | Proven    |        | Click N |
| 1          | Educ Hated      | Freet     | •      |         |
|            | Paver Dave Da   | e         | 0.1667 |         |
|            | Let Bask Cost   | Control 1 |        |         |
|            | Right Bank Cost | friende _ |        |         |
|            | Shoe Progr      |           | 10     |         |
|            |                 |           |        |         |
|            |                 |           |        |         |
|            |                 |           |        |         |
|            |                 |           |        |         |

the Back Next 1

| Depth | Velocity [m/s] (Ref. BT) |       |        | Discharge |     |        |
|-------|--------------------------|-------|--------|-----------|-----|--------|
| [m]   | East                     | North | Up     | Error     | 70  | [m*/s] |
| 1.46  | -0.230                   | 0.645 | 0.129  | -0.275    | 100 | 0.045  |
| 1.96  | -0.282                   | 0.244 | 0.138  | -0.244    | 100 | 0.018  |
| 2.46  | -0.168                   | 0.072 | 0.225  | 0.672     | 100 | 0.005  |
| 2.96  | .0.290                   | 0.818 | 0.329  | 0.336     | 100 | 0.057  |
| 3.46  | -0.288                   | 0.536 | 0.246  | -0.055    | 100 | 0.038  |
| 3.96  | 0.114                    | 0.338 | 0.095  | 0.156     | 100 | 0.022  |
| 4.46  | 0.545                    | 0.491 | -0.060 | -0.635    | 100 | 0.030  |
| 4.96  | BAD                      | BAD   | BAD    | BAD       | BAD | BAD    |
| 5.46  | BAD                      | BAD   | BAD    | BAD       | BAD | BAD    |
| 5.96  | BAD                      | BAD   | BAD    | BAD       | BAD | BAD    |
|       |                          | 0.4.0 |        |           |     |        |

# Statisticser II = Teledyne KD Instruments File Configure View Accurs Reveals Window Help File Configure View Accurs Reveals Window Help Statisticser II = Provide Reveals Statistics Statisticser II = Reveals Reveals

| Start Transect               |       |
|------------------------------|-------|
| Distance From Shore          | OK    |
| Bank (F8 - Toggle)<br>C Left | Right |

## Scomposite Tabular 1 - TRDI Image: Composite Tabular 1 - TRDI Ens. Nmb. Nmb. of Ens. Lost Ens. 52 11 0 Bad Ens. %Bad Bins Delta Time 0 1% 0.40 February 24, 2006 12:12:40.59

### Step 2:

Click View, Tabular, Velocity to open a Velocity Tabular 1 display. Move out from the shore until the water is deep enough to consistently show good values for two bins.

Mark this position as starting/stopping position.

### Step 3:

Starting at one of the edge positions determined. On the **Acquire** menu click **Start Transect (F5)** to begin recording.

### Step 4:

When prompted, enter the beginning distance to the bank and determine if this is the left or right bank. When facing downstream, the left bank is on your left side. Click **OK** to start.

Step 5:

Hold this start position and view the **Composite Tabular** display. Check if the **Nmb. of Ens.** minus any **Bad Ens.** is more (or equal) to the number of shore ensembles (the default is 10 shore ensembles).



Composite Tabular 1 - TRDI

381

0%

February 24, 2006 12:15:08.59

Nmb. of Ens. Lost Ens.

%Bad Bins Delta Time

0

0.40

OK

Left

Ens. Nmb.

Bad Ens

422

2

End Transect

🙆 Left

Ens. Nmb.

Bad Ens.

426

2

Distance From Shore

0.000000 m

Bank (F8 - Toggle)

Composite Tabular 1 - TRDI

O Right

Nmb. of Ens. Lost Ens.

0

0.40

Delta Time

385

%Bad Bins

0%

February 24, 2006 12:15:10.19

### Step 6: Move ac

Move across the river as *smoothly* as possible. For the best measurement results, the boat's speed over the bottom should be no greater than the water speed of the river.

### **Step 7:**

Continue across the river until you reach the stop position determined. Stop at this position and wait for the Shore Ensembles measurements to be recorded.

### Step 8:

Press **F5** to stop recording.

When prompted, enter the ending distance to the bank.

### Step 9:

Check **Bad Ensembles** and **% Bad Bins**. The number of Bad Bins should be less than 25%.

Repeat step 3 to 9. An even number of *at least four* transects that agree with each other to within 5% of the mean of all the samples are recommended. When you are finished acquiring the data, press **F4** to stop the

### Playback











To playback a data file, use the **Playback** menu and select **Reprocess Checked Transects** (click the check box to select the files). This will create a copy of the **Field Configuration node** and creates a **Playback Configuration node**.

On the **Playback** menu, click **First Ensemble** to go to the beginning of the data file. Click **Play** to review the data.

To quickly play through the data, on the **Playback** menu, select **Slider** or drag the ensemble marker on the contour plot.

To change the data screening for a selected data file, right-click on the **Playback Configuration node** and select

Properties. Select the Processing

page. Change the settings as needed. Click **OK**.

The selected data file will playback automatically.

If the change applies to multiple Playback Configuration nodes, then right click the edited item (Apply to All Active Configurations or Apply to Checked Active Configurations).

ADCP pinging.