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ALGE D-LINE DISPLAY WITH SPLIT SECOND SOFTWARE

July 2023



The D-line displays can be used either for bib/rank or time with the National FIS or Club/ NASTAR software. The only change is the serial setting in the programming.

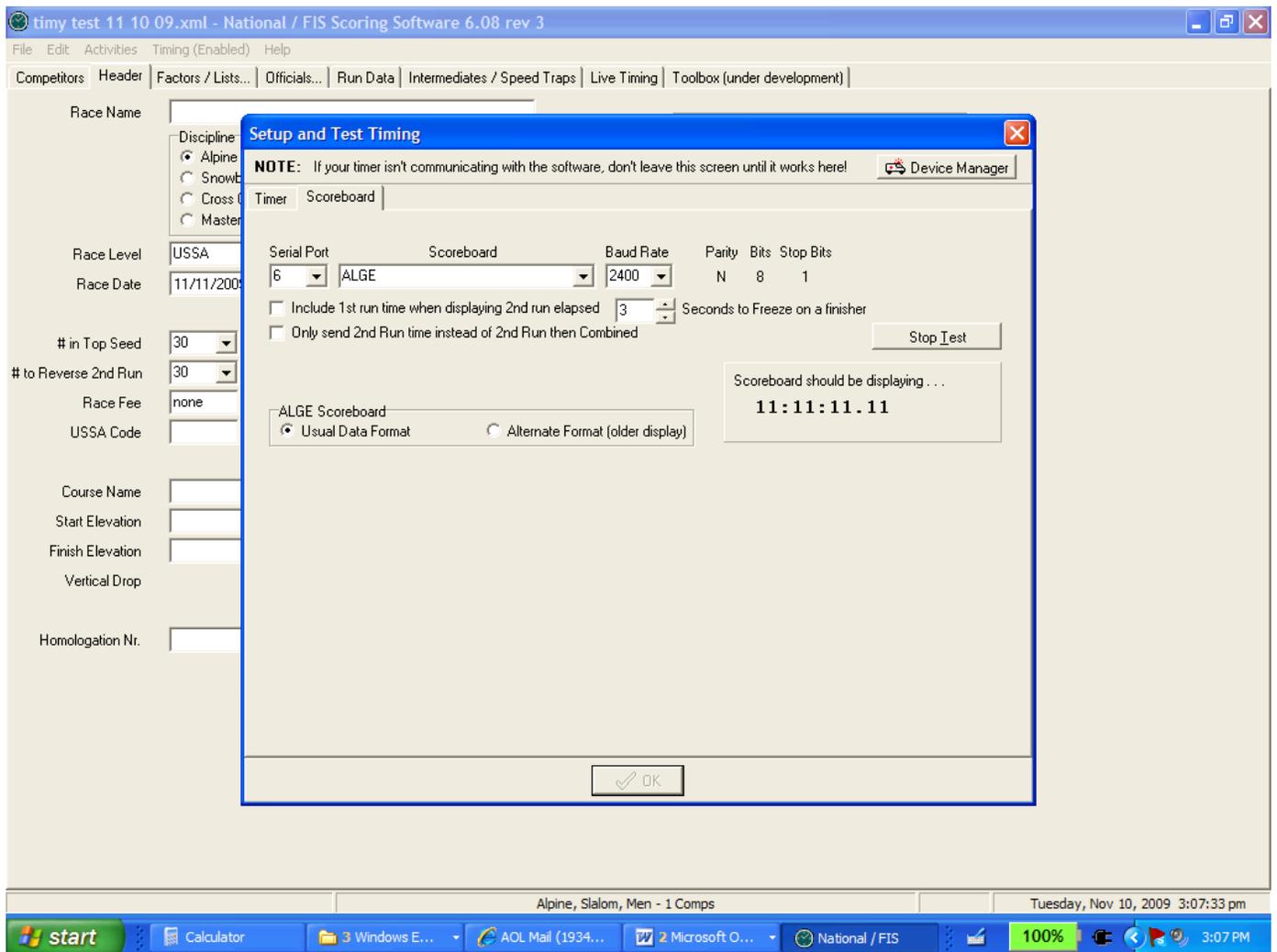
1. The Black button on the end and top of the display controls programming.
2. Press and hold the button down for approx 10 seconds until the first digit on the far left blinks.
3. The first selection is BR 19 or BR 09. This is the brightness setting, 9 being the brightest.
4. Press the button again when the BR is blinking
5. The SE setting now appears
6. Change the setting to SE r 2 for bib/rank or SE h 2 for min min sec sec 10 100
7. Press the button several more times when SE is blinking to save and exit the programming.

Note: Some operating systems do not "remember" the selection of the Dline display between running the scrolling test in Setup and Test and actual racing. Reboot the PC and restart Split Second. The selection will work just fine. This situation appears only on a minority of PC/Windows combinations. Test if yours is going to be an issue before race day.

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Other software such as NASTAR needs a further Address for Dual operation.

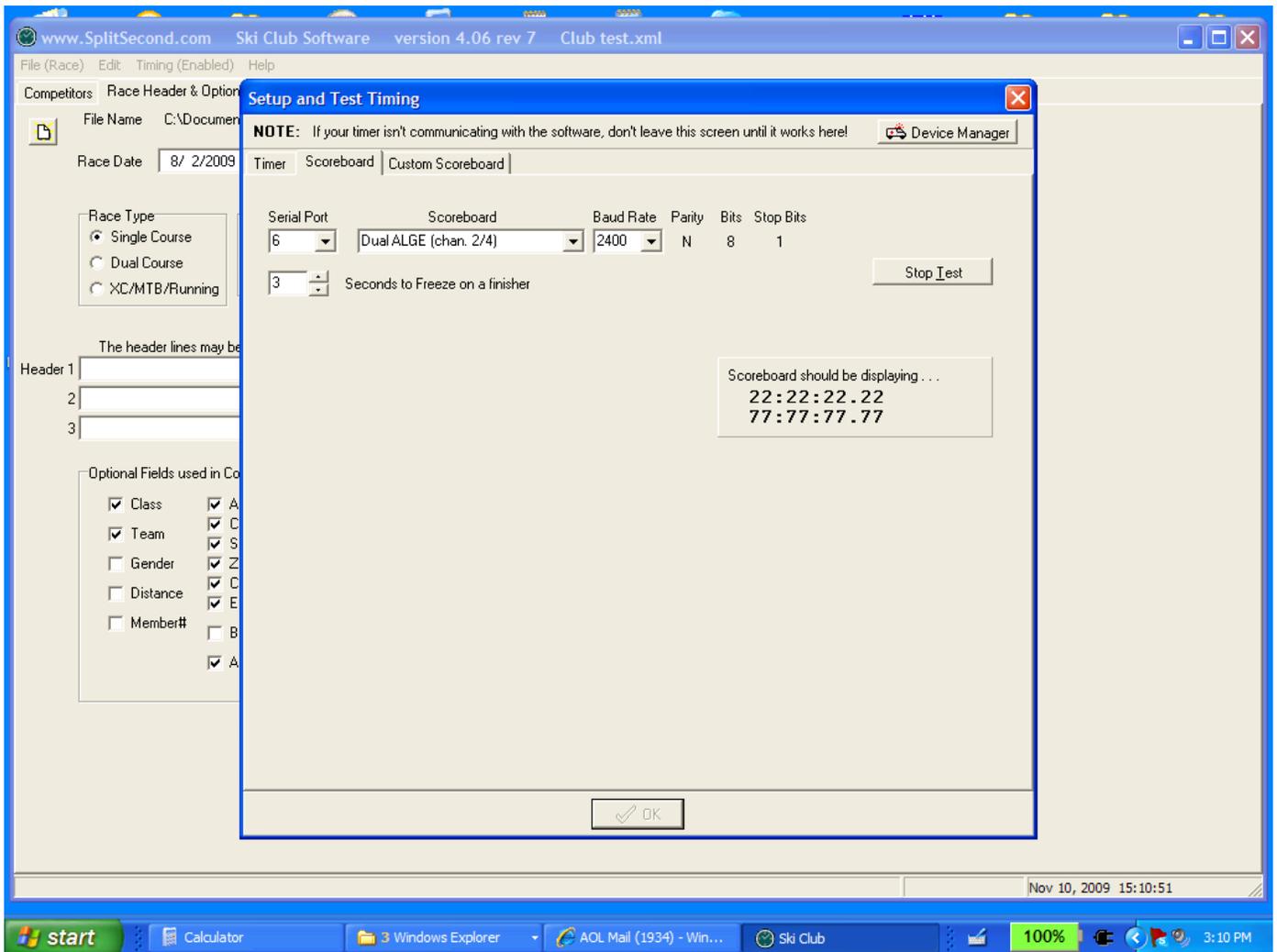
- AD 00 = National FIS SST
- AD 02 = RED course SST Club
- AD 02 = YELLOW course SST NASTAR
- AD 04 = BLUE course SST Club
- AD 04 = GREEN course SST NASTAR



National FIS Screen shot



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Club screen shot



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Split Second NASTAR / CLUB select "DUAL ALGE" in menu

The NASTAR software is capable of displaying times for both courses. It does this by using Addresses on the displays. Each display parses the data it needs from the single serial transmission.

TIME for Yellow / RED

Br = 19 / fade and brightness / 0 = abrupt change, 1 = fade, 9 = brightest, 1 = dim (PAGE 6 in manual)

SE = h 2 / First character= h for hundredths (min sec 100ths) , S for seconds (Hrs Min Sec) Second character is for baud rate, always leave on 2 for SST/ALGE (PAGE 7 -8 in manual)

L0 = TIME to display time of day in Euro mode, Leave on 00 (PAGE 8 in manual)

Ad = Display address, 02 (PAGE 8 in manual)

TIME for Green / BLUE

Br = 19 / fade and brightness / 0 = abrupt change, 1 = fade, 9 = brightest, 1 = dim (PAGE 6 in manual)

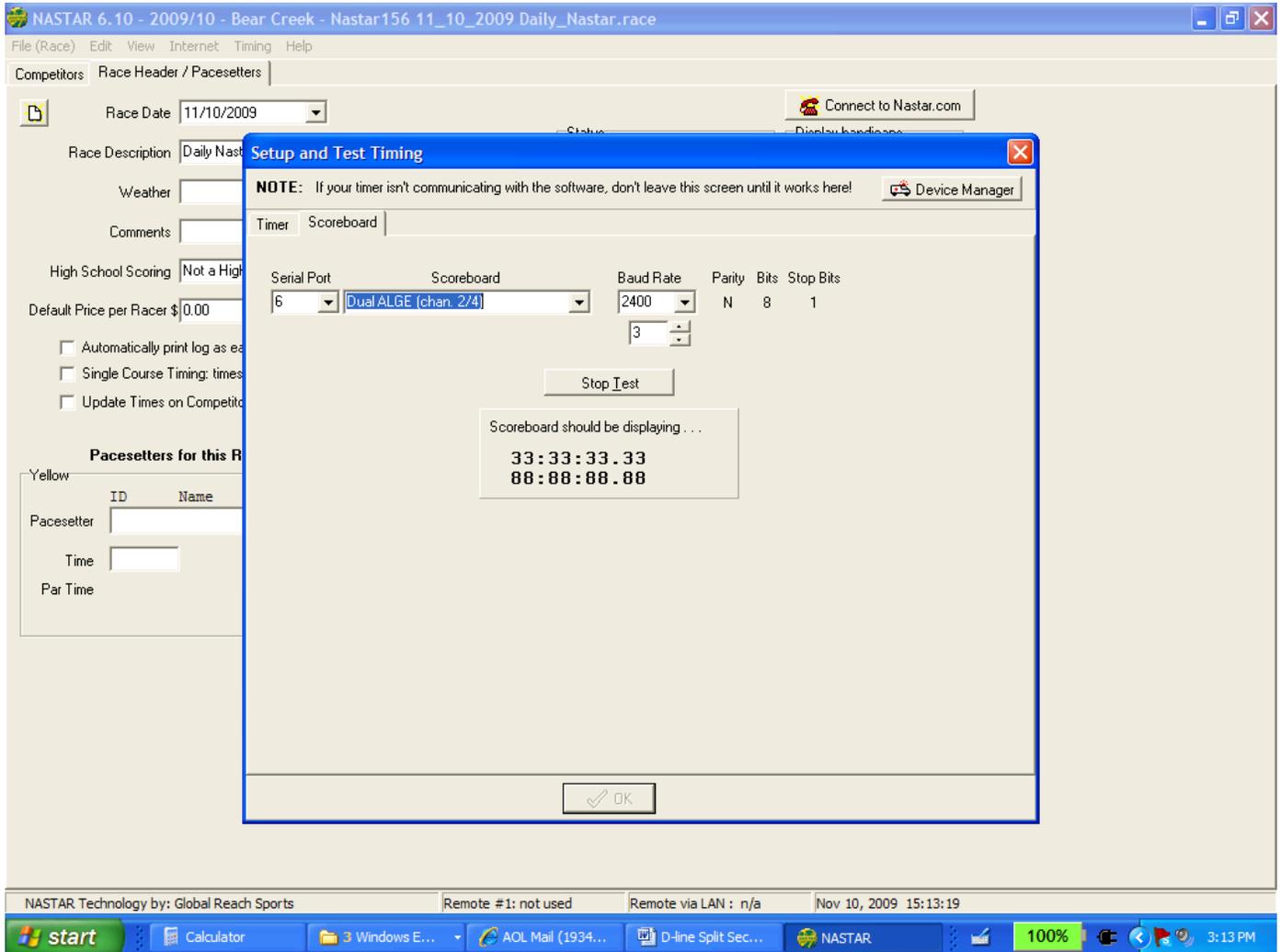
SE = h 2 / First character= h for hundredths (min sec 100ths) , S for seconds (Hrs Min Sec) Second character is for baud rate, always leave on 2 for SST/ALGE (PAGE 7 -8 in manual)

L0 = TIME to display time of day in Euro mode, Leave on 00 (PAGE 8 in manual)

Ad = Display address, 04 (PAGE 8 in manual)



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NASTAR screen shot



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Advanced use with Split Second National FIS for "Time to Beat" display

This requires the use of 4 D-line displays. One pair is used for bib/rank/time for the current racer on course. The second pair is used for the current leader's bib number and time. Rank is not shown

1. All of the displays share the same data line coming from the software. Make sure there is no polarity issues. In general a incorrect jumper will stop all fo the displays.
2. Set up for the current racer on course pair is the same as a single pair except for the address now changes to 2 on both boards. In general this pair is located on top.
3. Set up for the "time to beat" pair is the same as a single pair except for the address now changes to 4 on both boards. In general this pair is located on bottom.
4. The software selection is now set to DUAL ALGE 2/4
5. The 2400 baud speed may be too slow. You may want to increase it to 9600 to make the boards update smoother.

NOTE:

DO NOT CONNECT THE DATA CABLE TO THE START/STOP GREEN AND BLACK INPUTS. THEY ARE ONLY FOR AN EXTERNAL BUTTON IN "MARATHON" MODE. ONLY USE THE RS 232 YELLOW AND BLACK INPUTS!

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USB adapter notes:

This can be the most frustrating aspect of interfacing the displays. In general the rule of thumb is the adapter HAS to be recognized in Windows Device Manager in order to work with software.

Split Second has a link to the Windows Device manager in "Setup and Test" for exactly that purpose.

Basic install concepts

1. Open package and place CD in PC. Do not plug adapter in until drivers are ready!!!!!!!!!!
2. Insert USB to serial adapter and the Windows Install Wizard will appear.
3. Attempt to allow the Install Wizard to automatically find the CD and complete the install.
4. You may have to help point the wizard to the location of the files needed for your operating system
5. New computers running 64 bit systems are at the leading edge of compatibility and you may need to involve the tech support for PC, Microsoft, and the adapter manufacturer. There is no real reason to use 64 bit systems for timing applications. Proceed with them only if you understand the risks.
6. Immediately check the install of the USB adapter in device manager BEFORE starting Split Second.
7. Make sure the COM port number assigned to this device is less than 9. Com 9 is the highest com number currently supported. You can try to force the COM number lower. We always try COM 5 in ADVANCED settings in device manager. Reboot the PC and make sure it stays on the COM number you forced it too.
8. Start SST and you should see the available Com ports listed. USB to serial adapters tend to try to use COM 3 for desktops and COM 4 for notebooks on their initial install.
9. Plugging a USB to serial adapter into a new port or through a HUB will almost always force a new install with a new Com number assignment.
10. Try to always go out and get a 4 port USB hub to use from the beginning. You will use up the ports quickly. Always try to get a powered one for your SST key, timer, scoreboard, etc.

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11. 1 port – SST Key
12. 1 port – mouse
13. 1 port – keypad
14. 1 port – Printer (try to plug in direct, not through hub)
15. 1 port – Timy in or another serial adapter for signal input (try to plug in direct, not through hub)
16. 1 port – Serial adapter out to display
17. 1 port – flash drive

Once again plan ahead and make sure that you are testing these adapters and so for well before the event. Make sure you bring the driver cd for this and all other devices with you. Having internet access at all times helps let you find the drivers if you need them again.

In a worse case scenario you will need to uninstall the drivers. Reboot the PC and then reinstall again.

USB adapters can also restrict the flow of data to Split Second or from it. If you notice the "drop" getting really slow, you have a USB adapter issue. Likewise if you are getting the "output buffer full" message, the USB adapter controlling the scoreboard is running too slow.

You have to reinstall the USB adapter and get it more stable.

DOCKING STATIONS for notebooks are a great idea. That way you get a "real" serial port and 4 powered USB sockets.

FACTORY RESET OF DISPLAY

The D-LINE display boards are delivered with a standard setting optimized for timing purposes. To reset to the factory settings, keep the BLACK internal button pressed until the software version appears on the display. ATTENTION: Only display boards built after 2005-06 are equipped with this function

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Options for other uses

6 digit D-line for

Split Second "phoenix c"

SE E 2 extended mode 2400 baud

1 = 01 = A course id (for red (A) for Blue (B)

1:= 00= blank

2 = 16 = 1s of min

2: = 18 = . period

3 = 17 = 10s of seconds

3: =00= blank

4 = 19 = 1 s of seconds

4: = 18 = . period

5 = 20 = 10ths

5: = 00 = blank

6 = 21 = 100th

TT*ware

Bib /rank display / Address 1/ 2400 Baud

SE E 2

The bib /rank display places colon and period. The display puts the data up correctly, it just doesn't look good. The Running time display should be on SE h 2 (min,sec,100, Address 2)

Program them away using the SE extended mode.

1 = 13 = 100s of bib

1:= 00= blank

2 = 14 =10s of bib

2: = 00 = blank

3 = 16 = 1s of bib

3: =00= blank



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4= 17= 100s of rank
4: =00 = blank
5= 19 = 10s of rank
5: = 00 = blank
6= 20 = 1s o f rank

6 DIGIT DLINE FOR PHOENIX A

TIME BOARD

AD 01 FOR RED/ YELLOW/ ORANGE
AD 02 FOR BLUE /GREEN

SE E 2

1= 16 = medal
1:= 00= blank
2= 00
2: = 00
3 = 17 = 10s of seconds
3: =00= blank
4= 19 = 1 s of seconds
4: = 18 = . period
5= 20 = 10ths
5: = 00 = blank
6= 21 = 100th

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Preferred adapter

<https://www.sabrent.com/product/CB-FTDI/usb-2-0-serial-9-pin-db-9-rs-232-adapter-cable-6ft-cable/>



Or this one still works



SAME PRODUCT

IOGEAR CD LABELED 2014 AND WORKED 100% WITH WINDOWS 10

**IOGEAR GUC232A
ATEN UC-232A**

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Settings for default use with SST "ALGE" or TIMY/TDC 8001



Brightness 1-9 1 is faint , 9 IS BRIGHT , 0 is FADE OFF, 1 is FADE ON



Serial setting h for 100ths, 2 for 2400 baud



Upside down F for "time of day" 00 is OFF

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Address setting default 00



Zeros ready to go



Time displayed MIN SEC 100ths

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FTDI USB- PC TO D LINE DISPLAY CABLE to WTN Transmitter

- You select "SERIAL" in the software with a COM port number , NOT USB
- The USB is an FTDI chipset device
- Windows 10 should install automatically
- Otherwise download and install drivers
- <http://www.ftdichip.com/FTDrivers.htm>
- Plug Yellow>Yellow, Black> Black into WTN Yellow Box transmitter
- Make sure both WTN and WTN-DB receiver are on the same TEAM
- WTN DB will show 18.21 or similar until data arrives

Support

- Fred Patton's global mobile 610.972.5385
- <http://www.ftdichip.com>
- www.Timingguys.com

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Support

- 1) THE Phoenix Sports Technology discussion forum is a great place to start:
- 2) <http://www.timingguys.com/6/ubb.x> OR www.timingguys.com
- 3) Fred Patton can be reached on his worldwide cell phone at 610-972-5385
- 4) The ALGE factory site has a great deal of information as well. You can download the latest manuals and brochures.

<https://alge-timing.com/downloads/userGuides/D-LINE-BE.pdf>

