E ditware
GRASS VALLEY, CALIFORNIA

Fastrack Tech Note - V3.0

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Chyron INFINIT!

CHYRON SET-UP

Note: Before any connection is made from the Fastrack to the Chyron, assure that the following two items are completed.

1. At the Chyron, the 9 Pin Serial **Port 4** needs to be set to RS-422. To do this, remove the CPU Transition Board from the rear of the Chyron chassis. Adjust the jumpers **JP17 through JP21** to be across pins **2-3**. If the board does not show which pins are 1, 2 and 3, a diagram is available in the Chyron manual. For additional instructions, refer to page 3-7 of the Chyron operations manual. **Do not connect to the Fastrack yet!** Continue with item #2 below.

2. The Chyron needs a special male-to-male cable for RS-422 communication. This cable will need to be built before connecting the Chyron to the Fastrack.

Note: The Chyron manual warns that it is possible to destroy their port if the cable is not wired correctly.

Fastrack Pins **1 and 9**:	to Chyron Pins **1 and 9** (Ground)
Fastrack Pin **2**:	to Chyron Pin **3**
Fastrack Pin **3**:	to Chyron Pin **8**
Fastrack Pin **4**:	to Chyron Pin **4**
Fastrack Pin **5**:	**NOT CONNECTED**
NOT CONNECTED	to Chyron Pin **5**
Fastrack Pin **6**:	to Chyron Pin **6**
Fastrack Pin **7**:	to Chyron Pin **2**
Fastrack Pin **8**:	to Chyron Pin **7**

3. You may now attach the special RS-422 cable between the Chyron Port 4 and a port on the Fastrack Serial Port Panel.

4. From the **Program loader page** on the INFINIT!
    A. Press "**Setup**" on the Chyron keyboard
    B. Press "**C**" for Set Com (Serial Communications Setup)
    C. If necessary modify Port 4 to be:
        a. Baud Rate: **19200**
        b. Data Bits: **8**
        c. Parity: **None**
        d. Stop Bits: **1**
    D. Press "**Q**" to Quit

FASTRACK SETUP

5.   Press **[SHIFT][ASSIGN]** to access the Fastrack Assignment page.

6.   In the **Media / Name** field of the Track you will use for the Chyron, enter a device name. Example: Chyron

7.   Under the **Class** pull-down menu, select: **CHYRON**.

8.   Under the **Device** pull-down menu, select: **any**.

9.   Under the **Port** pull-down menu, select the Port, **P1 through P24**, which matches the input from the Chyron. Do not use Com1 or Com2.

10. In the **Pool** field, enter a pool name. Example: **CG**

11. In the **Video** field, enter the video **cross point** for the Chyron.

12. Check **ON**.

RECALL A CHYRON PAGE

On the Chyron, assure that the directory you wish to have the Fastrack work with is called up.

13. At the Fastrack, select the Chyron Track. Press **[MARK IN]** to create a Chyron Event.

14. Press **[EVENT]**. The Chyron Dialog will open.

Comment	Bridge
Reel ID:	Directory

☑ Selected ☐ No Out Effect
☑ In Group ☐ No Overlap

Placement Timeline
Start at: 50:00:00
End at: 50:25:03
Duration: 25:03

Chyron command settings
⦿ Call Page   ID: 23
○ Call Command
prepare sending: V\5\3\1\1\0019\1\\
run sending:

15. To call up a recorded page on the Chyron, check to see that the "**Call Page**" radio button is selected under the "**Chyron command settings**" in the Chyron dialog.

16. In the "**ID:**" field, enter the number of the page you wish to recall. *Example: 23*. It is not necessary to enter leading zeros.

Note 1: The Fastrack will call up only valid pages that are in the selected Chyron directory.

Note 2: If you wish the Chyron to be a full page rather than a key, turn OFF the Keys(s) in the Effects dialog.

Note 3: It is recommended that the Fastrack not be assigned to the Chyron while the Chyron operator is building material, as communications interference from the Fastrack may cause errors on the Chyron.

SEND A CHYRON COMMAND

To send a Command string to the Chyron, check to see that the "**Call Command**" radio button is selected under the "**Chyron command settings**" in the Chyron dialog.

17. If you wish to send the command to the Chyron at the Fastrack "cue" point, place a command in the "**prepare sending**" field.

18. If you wish to send the command to the Chyron at the Fastrack "edit" point, place a command in the "**run sending**" field.

Example: A typical Chyron command to call up page **2011** looks like: **V\5\3\1\1\2011\1**.

There are a large number of commands that can be sent to Chyron from these lines, and they can be found in the Chyron Intelligent Interface Option Handbook.

ENGINEERING COMMUNICATIONS TEST

If you are unsure if the Fastrack and the Chyron are communicating properly, check the following:

19. Attach the special RS-422 cable from the Chyron to an available "P1 through P24" port on the Fastrack.

20. With the Fastrack application <u>CLOSED</u>, start **HyperTerminal**, found under Start / Programs / Accessories / Communications / HyperTerminal.

21. A window called **Connection Description** will open. Enter the **Name: Chyron**. Select the red "**telephone**" icon. Press **OK**.

22. A window called **Connect To** will open. At the **Connect Using:** prompt, enter the Com Port corresponding to the connected P1-P24 port on the Fastrack. Note that to other applications, the Fastrack, "P" ports are extensions of the two Comm ports on the rear of the Fastrack chassis. So P1 is Comm 3, P2 is Comm 4, P3 is Comm 5, and so forth. Press **OK**.

23. A window called **Comm Properties** will open. Set the following:

    Bits per second: **19200**
    Data bits: **8**
    Parity: **None**
    Stop bits: **1**
    Flow control: **None**

    Press **OK**.

24. A window called **Chyron - HyperTerminal** will open. Press **[Enter]** on the FT keyboard. The error code: **00004190** will appear if the communications are set properly between the Fastrack and the Chyron.

Note: Using HyperTerminal, it is possible to send commands directly to the Chyron. See the Chyron Intelligent Interface Handbook for a description of these commands.