

## Betacam

### Requirements

- Video Server Control software option
- If you are using multiple video channels on the Betacam video server, each channel should be assigned to a separate **Remote Port**, or a **Port Expander** should be used.
- Serial Interface Cable (DB9 to DB9)
- Control DeviceMaster or Sealevel SeaLINK
- Ethernet Cable

### Port Connections

| Serial Communication                   |   |                                      |
|----------------------------------------|---|--------------------------------------|
| Video Server<br>RS-422                 | > | DeviceMaster or<br>SeaLINK<br>RS-422 |
| DeviceMaster or<br>SeaLINK<br>Ethernet | > | Local Area Network<br>Ethernet       |

| Ethernet Communication   |   |                                |
|--------------------------|---|--------------------------------|
| Video Server<br>Ethernet | > | Local Area Network<br>Ethernet |

| Video                 |   |                               |
|-----------------------|---|-------------------------------|
| Switcher<br>Input BNC | > | Video Server<br>Video Out BNC |

### For More Information on...

- configuring switcher inputs, refer to the *Caprica User Guide*.

### Network Connections

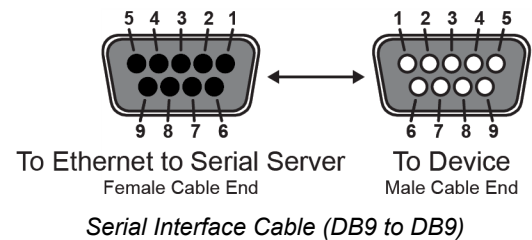
#### Serial

Betacam video servers that use a serial connection to communicate require an Ethernet to serial server to connect to the Caprica Server. When configuring a serial connected Betacam video server, start with section “**Serial Interface Cable Pinouts**” on page 4–1.

#### Ethernet

Betacam Video servers that use an Ethernet connection can directly connect to the Caprica Server. When configuring an Ethernet connected video server, start with section “**Remote Device Port Configuration Settings**” on page 4–3.

#### Serial Interface Cable Pinouts



#### DeviceMaster

| DeviceMaster |           |
|--------------|-----------|
| Pin          | Signal    |
| 2            | RxA (Rx-) |
| 7            | TxB (Tx+) |
| 8            | RxB (Rx+) |
| 3            | TxA (Tx-) |

#### SeaLINK

| SeaLINK |           |
|---------|-----------|
| Pin     | Signal    |
| 2       | RxA (Rx-) |
| 4       | TxB (Tx+) |
| 1       | RxB (Rx+) |
| 3       | TxA (Tx-) |

- ★ When using a SeaLINK Ethernet to serial server in your OverDrive system, terminate any control signals that are not going to be used. The most common way to do this is connect RTS to CTS, connect positive to positive and negative to negative.

## Configuring the Ethernet to Serial Server

The Ethernet to serial server in an OverDrive system handles the communication between your Betacam video server and Caprica Server. OverDrive systems can contain a DeviceMaster or SeaLINK Ethernet to serial server. Use one of the following sections to configure the Ethernet to serial server in your OverDrive System:

- “**DeviceMaster**” on page 4–2
- “**SeaLINK**” on page 4–2

### DeviceMaster

The Betacam video server connects to a serial port on the DeviceMaster. Use the following procedure to configure the DeviceMaster for your Betacam video server:

1. Use a web browser to open the **Server Status** web page for your DeviceMaster. The default IP address for a DeviceMaster is 192.168.250.250.  
The **Server Status** web page opens in the web browser.
2. Click **Port #** link, where # is the port number on the DeviceMaster to which you connect your Betacam.  
The **Edit Port # Configuration** web page opens for the selected port.
3. In the **Port Name** box, enter *Betacam*.
4. In the **Serial Configuration** section, use the **Mode** list to select **RS-422**.
5. Use the **Baud** list to select **38400**.
6. Use the **Parity** list to select **odd**.
7. Use the **Data Bits** list to select **8**.
8. Use the **Stop Bits** list to select **1**.
9. Use the **DTR** list to select **off**.
10. Use the **EOL** list to select **disabled**.
11. In the **TCP Connection Configuration** section, select the **Enable** check box.
12. Select the **Listen** check box.
13. In the **Port** box, enter the port number that the DeviceMaster uses to listen for communication from the Betacam.
14. Click **Save**.  
The **Port Configuration Updated** web page opens.
15. Click **OK**.  
The **Server Status** web page opens.
16. Click **Reboot**.  
The DeviceMaster reboots with the new configuration.

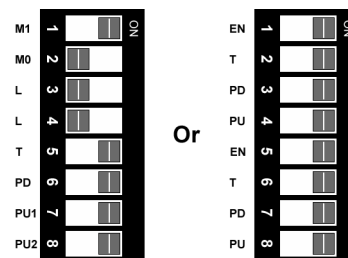
## SeaLINK

The Betacam video server connects to a serial port on the SeaLINK. You must configure the connected SeaLINK serial port to communicate with the Betacam video server.

### Hardware Configuration

The SeaLINK Ethernet to serial server is primarily configured using the web interface. Before using the web interface, the SeaLINK DB9 port that connects the Betacam video server to your OverDrive system requires DIP Switch configuration.

Inside the SeaLINK each DB9 serial port has a set of eight DIP Switches. To communicate with the Betacam video server the RS Mode of the DB 9 serial port that connects the Betacam video server must be set to RS-422. Set the DIP Switches associated with the connected port as follows:



DB9 DIP Switch Settings for RS-422

### For More Information on...

- configuring the DIP Switches for SeaLINK DB9 ports, refer to the **Hardware Configuration** section in the *SeaLINK User Manual | Ethernet Serial Server Family*.

### Web Interface Configuration

After setting the DIP Switches associated with the DB9 port on the SeaLINK used to connect the Betacam video server, you can use the SeaLINK web interface to complete the SeaLINK configuration.

Use the following procedure to configure the SeaLINK for your Betacam video server:

1. Use a web browser to open the **Summary** web page for your SeaLINK. The URL of the Summary web page is the IP address of the SeaLINK.  
The **Summary** web page opens in the web browser.
2. Click the **Port Settings** tab.  
The **Port Settings** web page opens.
3. In the **Port # Defaults Section** section, where # is the port number on the SeaLINK to which you connect your Betacam video server, enter 38400 in the **Baud Rate** box.
4. Use the **Data Bits** list to select **8**.
5. Use the **Stop Bits** list to select **1**.

6. Use the **Parity** list to select **None**.
7. Use the **Flow Control** list to select **None**.
8. Use the **RS Mode** list to select **RS 422/488**.
9. Use the **Protocol** list to select **Ignored**.
10. Click **Submit**.
11. Click the **Administration** tab.  
The **Administration** web page opens.

★ Values set for settings on the **Administration** web page are set for all SeaLINK serial ports.

12. In the **General Settings** section, enter a name to identify the SeaLINK in the **Name** box.
13. Use the **Connection Protocol** list to select **Raw Data**.
14. At the bottom of the **Administration** web page, select the **Reboot** check box.
15. Click **Submit**.  
The SeaLINK reboots with the new configuration.

## Remote Device Port Configuration Settings

Use the following procedure to configure a remote device for your Betacam video server on the Caprica Server:

1. Use the current version of **DashBoard** software to connect to your **Caprica Server**.
2. In the **DashBoard Tree View**, double-click the **Port Configuration** node of your Caprica Server.
3. In the **Port Configuration Summary** table, double-click a **REMOTE#** port in the **Port** column.
4. In the **Configure REMOTE#** panel, click **Server/VTR**.
5. Click **Betacam**.
6. Click **Network Settings**.
7. Use the following settings to configure the network settings for your Betacam:
  - **Ethernet Role** — Client
  - **Remote IP Address** — IP address of the Ethernet to serial server in your OverDrive system
  - **Remote Port** — Port number on the Ethernet to serial server to which you connect your Betacam video server.

When using a SeaLINK Ethernet to serial server in your OverDrive system the Remote Port number is associated with the SeaLINK serial port number to which you connected your Betacam video server. The

SeaLINK serial port to Remote Port associations are as follows:

| SeaLINK Serial Port | Remote Port |
|---------------------|-------------|
| 1                   | 4680        |
| 2                   | 4681        |
| 3                   | 4682        |
| 4                   | 4683        |

- **Local IP Address** — 0.0.0.0
  - **Local Port** — 0
  - **Protocol** — TCP
8. Click **Apply Changes** to save the network settings.

## Device Settings

Use the following procedure to configure the device settings for your Betacam video server on the Caprica Server:

1. Click **Device Settings**.
2. Use the following settings to configure the device settings for your Betacam:
  - **TargetMachine** — click to select the model of video server to configure.
  - **Wait nFields** — enter or select the amount of time to wait before assuming that a Play command failed or was not received by the video server, 0 to 5 fields.
  - **Request TC** — click **Yes** to request timecode information from the video server. Click **No** to not request timecode information from the video server.
  - **Decode NAKs** — click **Yes** to decode negative acknowledgements (NAKs) sent from the video server to the Caprica Server. Click **No** to not decode NAKs sent to from the video server to the Caprica Server.
  - **NPlayRetries** — enter or select the number of times to attempt sending a Play command to the video server, 1 to 4.
3. Click **Apply Changes** to save the device settings.
4. Click **Done** to close the Configure REMOTE# panel.

## For More Information on...

- configuring remote devices for OverDrive systems that contain a Caprica Server, refer to the *Caprica User Guide*.

## Device Setup

If the device is communicating properly, but you cannot gain control from the switcher, try cycling through different values for the SubAddress, and then the Channel. The most common settings are as follows:

- Channel set to the video channel number and SubAddress set to 0.
- Channel set to the video channel number and SubAddress set to the serial communications port on the video server.

## Compatibility

| Video Server | Version |
|--------------|---------|
| Betacam      | -       |

| Automation     | Version        |
|----------------|----------------|
| OverDrive      | 17.1 or higher |
| Caprica Server | 4.1a or higher |

| Port Expanders       | Support |
|----------------------|---------|
| Control DeviceMaster | Yes     |
| Sealevel SeaLINK     | Yes     |

## Contacting Technical Support

Technical Support is staffed by a team of experienced specialists ready to assist you with any question or technical issue.

Ross Video has technical support specialists strategically located around the globe to ensure a prompt response to technical inquiries. Our primary technical support center is located in Ottawa, Ontario, Canada. In addition, we have offices in The United Kingdom (London), Australia (Sydney), and Singapore with satellite locations in New York City, The Netherlands, and China. As we expand our presence globally, we are constantly evaluating other key locations to have a local technical support specialist in order to better service our customers.

### North America

Our North America center located in Ottawa, Ontario, Canada and is open Monday to Friday 8:30 a.m. to 6:00 p.m. EST, with 24/7/365 on-call service after hours.

Our telephone number is: +1-613-686-1557

Toll free within North America: +1 833-859-0499

### EMEA

Our EMEA center is open Monday to Friday 8:30 a.m. to 5:00 p.m. GMT. After hours support is provided by our North America location.

Our telephone number is: +44 (0)1189502446

International toll free: +800 3540 3545

If the local support specialist is not available, your call will be transferred automatically to our North America center.

### Australia

Our Sydney, Australia office is located in Alexandria, NSW.

Our local support telephone number is: 1300 007 677

If the local support specialist is not available, your call will be transferred automatically to our North America center.

### Online

E-mail: [techsupport@rossvideo.com](mailto:techsupport@rossvideo.com)

Website: open a support request using the link <https://support.rossvideo.com/> to open a support request.

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