EVS XT2

Requirements

- Video Server Control software option
- If you are using multiple video channels on the EVS XT2 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)
- Comtrol DeviceMaster or Sealevel SeaLINK
- Ethernet Cable

Port Connections

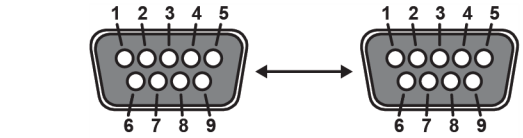
Communications		
Video Server RS-422	>	**DeviceMaster** or **SeaLINK** RS-422
DeviceMaster or **SeaLINK** Ethernet	>	**Local Area Network** Ethernet

Video		
Switcher Input BNC	>	**Router** Video Out BNC

For More Information on...

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

Serial Interface Cable Pinouts



Serial Interface Cable (DB9 to DB9)

DeviceMaster

DeviceMaster			EVS XT2	
Pin	**Signal**		**Pin**	**Signal**
2	RxA (Rx-)	>	2	TxA (Tx-)
7	TxB (Tx+)	>	3	RxB (Rx+)
8	RxB (Rx+)	>	7	TxB (Tx+)
3	TxA (Tx-)	>	8	RxA (Rx-)

SeaLINK

SeaLINK			EVS XT2	
Pin	**Signal**		**Pin**	**Signal**
2	RxA (Rx-)	>	2	TxA (Tx-)
4	TxB (Tx+)	>	3	RxB (Rx+)
1	RxB (Rx+)	>	7	TxB (Tx+)
3	TxA (Tx-)	>	8	RxA (Rx-)

✶ 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 EVS XT2 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 EVS XT2 video server connects to a serial port on the DeviceMaster. Use the following procedure to configure the DeviceMaster for your EVS XT2 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 EVS XT2.
   The **Edit Port # Configuration** web page opens for the selected port.
3. In the **Port Name** box, enter `EVS XT2`.
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 EVS XT2.
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.

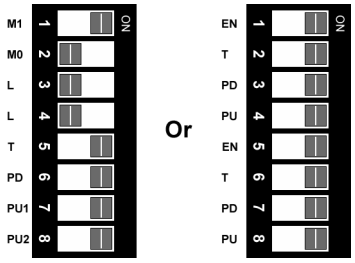
SeaLINK

The EVS XT2 video server connects to a serial port on the SeaLINK. You must configure the connected SeaLINK serial port to communicate with the EVS XT2 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 EVS XT2 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 EVS XT2 video server the RS Mode of the DB 9 serial port that connects the EVS XT2 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 EVS XT2 video server, you can use the SeaLINK web interface to complete the SeaLINK configuration.

Use the following procedure to configure the SeaLINK for your EVS XT2 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 EVS XT2 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 EVS XT2 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 **VDCP**.
6. Click **Network Settings**.
7. Use the following settings to configure the **Network Settings** for your EVS XT2:
   - **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 EVS XT2 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 EVS XT2 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 EVS XT2 on the Caprica Server:

1. Click **Device Settings**.
2. Click the **TargetMachine** button.
3. In the **Select TargetMachine** dialog box, click **Abekas Mira**.
4. Use the **MedialDLength** setting to select the maximum character length of the Clip IDs displayed by Caprica. The available options are as follows:
   - **Short IDs** — click this button for devices that use ID lengths of up to 8 characters.
   - **Long IDs** — click this button for devices that use ID lengths of up to 32 characters.
5. Use the **Timeout** setting to enter or select the time, in fields, that the Caprica will wait for a reply from the video server before trying to resend a command.
6. Use the **Send Tries** setting to enter or select the number of times that Caprica will try to send the same command to the video server if it does not receive a confirmation response.
7. Use the **Cmd Queuing** setting to select whether Caprica requires a replies for each command sent to the video server. The available options are as follows:
   - **Strict** — click this button to resend a command, as defined by the Send Tries setting, until Caprica receives a confirmation message from the video server.
   - **Relaxed** — click this button to not require a confirmation message from the video server for each command that Caprica sends to the video server.
8. Use the **Record Time** setting to enter or select the maximum number of minutes for which the video server will record when it receives a Record transport command from a custom control.

9. Use the **Playback Mode** setting to select the playback mode that the video server uses. The available options are as follows:
   - **PB** — click this button for video servers that do not go to EE (Electronic-to-Electronic) mode.
   - **PB/EE** — click this button for video servers that do go to EE mode. When the video server receives a Pause command it stays in PB (Playback) mode. When the video server receives a Stop command it goes to EE mode.
10. Use the **Port Cmds** setting to select whether the video server supports the Open Port, Select Port, and Close Port commands. The available options are as follows:
    - **No** — click this button for video servers that do not support the Open Port, Select Port, and Close Port commands.
    - **Yes** — click this button to use the Open Port, Select Port, and Close Port commands when entering or exiting VDCP menus.
11. Use the **ExtendedChar** setting to select whether Caprica uses the extended character set for ClipIDs. The available options are as follows:
    - **No** — click this button to replace non-printing characters in ClipIDs with spaces.
    - **Yes** — click this button to use the extended character set for ClipIDs instead of replacing non-printing characters with spaces.
12. Use the **LoopRecueTime** setting to enter or select the amount of time, in frames, before the end of the clip that Caprica sends a loop command to the video server.
13. Use the **ExtendedChar** setting to select the clip list with which to associate the video server. The available options are:
    - **Clip List A** — cached clip list for fast access.
    - **Clip List B** — cached clip list for fast access.
    - **Floating list**

    Each clip list can only be associated with one physical video server.
14. Use the **LoopMinLength** setting to enter or select the minimum length of a clip, in seconds, that can be looped. The minimum length is 3 seconds, and the maximum is 30 seconds.
15. Use the **Play w/Alpha** setting to select whether Caprica plays the alpha channel with the video channel. The available options are as follows:
    - **No** — click this button to only play the video channel from the video server.
    - **Yes** — click this button to play both the video and alpha channels from the video server. With this option, the switcher does not check the status of the video server channels before sending the play command.

    Both the video and alpha input BNCs must have the video server assigned to them, and must be set up as an auto key to associate the video with the alpha.
16. Use the **Cue & Pause** setting to select whether Caprica sends a Pause command to the video server immediately after a Cue command. The available options are as follows:
    - **No** — click this button to not send a Pause command to the video server immediately after a Cue command.
    - **Yes** — click this button to send a Pause command to the video server immediately after a Cue command. This option enables the video server cue a clip and advance it so that you can preview the first frame of the clip.
17. Use the **Eject Clip** setting to select whether Caprica instructs the video server to eject the current clip before cueing the next clip. The available options are as follows:
    - **No** — click this button to not eject the current clip before cueing the next clip.
    - **Yes** — click this button to eject the current clip before cueing the next clip.
18. Use the **StatusInterval** setting to enter or select the amount of time that Caprica waits between status check requests of the video server.
19. Use the **Status Tries** setting to enter or select the number of times that Caprica will send a status check request to the video server without receiving a ready response.
20. Use the **Preroll** setting to enter or select the amount of time, in frames, to delay before transitioning to the video server.
21. In a MultiPanel system, use the **Panel** setting to select the control panel to which the video server is connected.

22. Use the **Play Skip Q** setting to select whether Caprica allows the Play command to skip the commands queued for a channel on the video server. The available options are as follows:
    - **No** — click this button to add the Play command to the end of the command queue for the channel to play, then execute commands from the queue in order.
    - **Yes** — click this button to execute the Play command as soon as possible, skipping the commands in the command queue for the channel to play.
23. Click **Apply Changes** to save the device settings.
24. 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

- Configure the EVS XT2 to record clips using the **VDCP 2R+2P** application.
- Set the configuration for **VDCP 2R+2P** to **Louth slave**.
- Set the **communication parameter** to **channel 1** when using the switcher.
- The **Remote Reset Jumper 1** on the **PC&CTRL** board must not have a jumper cap on it. Ensure that the jumper cap is on a port other than 1. Refer to your EVS XT2 documentation for more information on locating and setting this jumper.

Troubleshooting

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
EVS XT2	-

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

Port Expanders	Support
Comtrol 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

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

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