

## Sony BRC-300/300P Robotic Camera

### Requirements

- Robotic Camera Control software option
- Serial Interface Cable (DB9 to VISCA)

### Port Connections

	Switcher		Robotic Camera
Communications	REMOTE Port (female)	⇒	VISCA RS-422 Port (male)
Video	Input BNC	⇒	Output BNC

### Cable Connectors

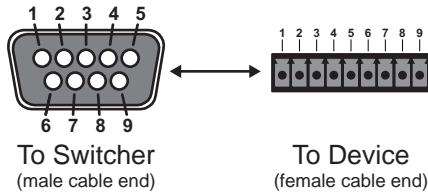


Figure 1 DB9 to VISCA Cable

### Pinouts

Switcher	BRC-300/300P
2 (Rx-)	9 (Tx-)
3 (Tx+)	6 (Rx+)
7 (Rx+)	8 (Tx+)
8 (Tx-)	7 (Rx-)

**Note:** These pinouts do not match the Sony documentation but have been tested and verified by Ross Video.

### Switcher Setup

#### To Set Up Communications

1. Press **HOME** ⇒ **Setup** ⇒ **Installation** ⇒ **Com Setup** ⇒ **Type**.
  - Use the **Com Port** knob to select the **REMOTE X** port that you connected the BRC-300/300P to.
  - Use the **Device** knob to select **Robotic Cam**.
2. Press **Select Device**.
  - Use the **Device** knob to select **Sony**.

3. Press **Com Type**.
  - Use the **Type** knob to select **RS-422**.
4. Press **Com Settings**.
  - Use the **Baud** knob to select **9600**.
  - Use the **Parity** knob to select **NONE**.
5. Press **HOME** ⇒ **Confirm**.

#### To Set Up Video Inputs

1. Press **HOME** ⇒ **Setup** ⇒ **Installation** ⇒ **BNC** ⇒ **BNC Type**.
  - Use the **BNC** knob to select the input BNC that the Video output of the BRC-300/300P is connected to.
  - Use the **Type** knob to select **Robotic Cam**.
  - Use the **Video Format** knob to select the video format of the video output of the camera.
2. Press **More** ⇒ **Camera Setup**.
  - Use the **Controller** knob to select the port that the BRC-300/300P is connected to.
  - Use the **Port** knob to select the port on the BRC-300/300P that the camera is connected to.
3. Press **Camera Options** and use the knobs to set the options.

Option	Description
<b>Pan Invert</b>	Use the <b>Value</b> knob to invert the direction that the camera moves when using the positioner ( <b>Yes</b> ), or not ( <b>No</b> ).
<b>Tilt Invert</b>	Use the <b>Value</b> knob to invert the direction that the camera moves when using the positioner ( <b>Yes</b> ), or not ( <b>No</b> ).
<b>Zoom Invert</b>	Use the <b>Value</b> knob to invert the direction that the camera zooms when using the positioner ( <b>Yes</b> ), or not ( <b>No</b> ).
<b>Focus Invert</b>	Use the <b>Value</b> knob to invert the focus direction when using the positioner ( <b>Yes</b> ), or not ( <b>No</b> ).
<b>Iris Invert</b>	Use the <b>Value</b> knob to invert the iris direction when using the positioner ( <b>Yes</b> ), or not ( <b>No</b> ).
<b>X Invert</b>	Use the <b>Value</b> knob to invert the direction that the camera moves in the X-axis when using the positioner ( <b>Yes</b> ), or not ( <b>No</b> ).
<b>Y Invert</b>	Use the <b>Value</b> knob to invert the direction that the camera moves in the Y-axis when using the positioner ( <b>Yes</b> ), or not ( <b>No</b> ).



Option	Description
<b>Z Invert</b>	Use the <b>Value</b> knob to invert the direction that the camera moves in the Z-axis when using the positioner ( <b>Yes</b> ), or not ( <b>No</b> ).

4. Press **HOME** ⇒ **Confirm**.

## Device Setup

The jumpers on the BRC-300/300P that is connected to the switcher must be set as follows:

Jumper	Value
1	No connection
2	Set to <b>ON</b> for RS-422 communication
3	Set to <b>OFF</b> for 9600 baud rate
4	Infra-red signal control ( <b>OFF</b> ) disables the control
Jumper	Value
1	<b>ON</b> only for first camera in chain.
2	<b>ON</b> only for second camera in chain
3	<b>ON</b> only for third camera in chain
4	No connection

If you are daisy chaining multiple Sony BRC-300/300Ps together, use the following pinouts to connect the one camera to the next.

VISCA Out	VISCA In
1 (Rx-)	8 (Tx -)
2 (Rx+)	9 (Tx+)
3 (Tx-)	6 (Rx-)
4 (Tx+)	7 (Rx+)
5 (Gnd)	5 (Gnd)

## Compatibility

Robotic Camera	Version
Sony BRC-300/300P	--
Switchers	
Synergy 1 SD	--
Synergy Series SD	--

Switchers	
Synergy MD/X	--
Vision MD/X	--
Vision QMD/X	16.0
Vision MultiPanel Support	--
Automation	
OverDrive	12.0
Port Expanders	
BSS4	✓
Control DeviceMaster	✓

