

For the Sony TRV70 camera supplied with ROMDAS systems from 2002 to 2005 we recommend the following changes to the default camera settings.

1. PROGRESSIVE RECORDING

Put the camera into Progressive Recording Mode. To set the camera for Progressive Recording Mode please follow these steps:

1. Set the Power Switch on the camera to **CAMERA**
2. Using the LCD Touch Panel press **FN** and select **PAGE3**
3. Using the LCD Touch Panel press **PROGE REC**
4. Using the LCD Touch Panel press **EXIT**



When the camera is turned on, the LCD display panel should now display **PROGR.REC** if not, please repeat the above steps.

2. AUTOMATIC EXPOSURE

The next change is to select an **Automatic Exposure** setting. The setting you choose depends on the general lighting conditions and the direction the camera is pointed. Select one of the following exposure settings depending on conditions.

2.1 Bright Sky Conditions

For general video logging applications where you have bright skies with little cloud cover, you should select the **BEACH&SKI** setting. To make this setting please follow these steps

1. Set the Power switch to **CAMERA**
2. Using the LCD Touch Panel press **FN** to display **PAGE1**
3. Using the LCD Touch Panel press **MENU**

4. Select **PROGRAME AE**, and press **EXEC EXEC**
5. Select **BEACH&SKI** (using arrow keys) and press **EXEC**
6. Press **EXIT**



When the camera is turned on, the LCD panel should now display a small **palm tree** icon in the lower left corner. If not, please repeat the above steps.

2.2 Overcast Sky Conditions

For general video logger applications where you have dark or heavily overcast skies, you should select the **LANDSCAPE** setting. To make this setting please follow these steps

- 1 Set the Power Switch to **CAMERA**
- 2 Using the LCD Touch Panel press **FN** to display **PAGE1**
- 3 Using the LCD Touch Panel press **MENU**
- 4 Select **PROGRAME AE**, and press **EXEC EXEC**
- 5 Select **LANDSCAPE** and press **EXEC**
- 6 Press **EXIT**

When the camera is turned on, the LCD panel should now display a small **mountain** icon in the lower left corner. If not, please repeat the above steps.

2.3 Pavement Video

If you are more interested in focusing the camera on the pavement, and have very little or no bright sky appearing in the video image, then you should change the Automatic Exposure setting to **SPORTS**. To make this setting please follow these steps

- 1 Set the Power Switch to **CAMERA**
- 2 Using the LCD Touch Panel press **FN** to display **PAGE1**
- 3 Using the LCD Touch Panel press **MENU**
- 4 Select **PROGRAME AE**, and press **EXEC EXEC**
- 5 Select **SPORTS** and press **EXEC**
- 6 Press **EXIT**

When the camera is turned on, the LCD panel should now display a small **golfer** icon in the lower left corner. If not, please repeat the above steps.

3. Back Lighting

You should always try to avoid capturing video while driving into the sun. This is because the camera will tend to under expose images when facing into the sun. This is just the same as when taking pictures with any still camera. In conditions where you have no alternative but to drive into the sun, you can reduce the under exposure effect by using a special setting called **Back Light**. The Back Light setting operates independently of the Auto Exposure settings. To make this setting, please follow these steps

- 1 Set the Power Switch to **CAMERA**
- 2 Press the **BACK LIGHT** button located on the front-left lens section of the camera

When the camera is turned on, the LCD panel should now display a small sun icon in the lower left corner. If not, please repeat the above steps.

The Back Light feature can be turned off by pressing the BACK LIGHT button a second time.

4. FOCUS

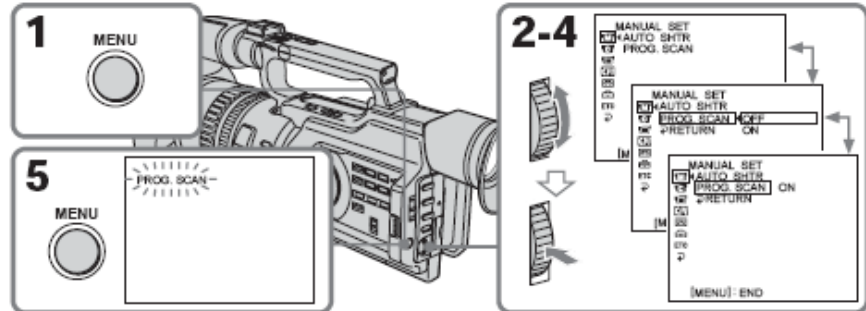
By default, the camera is in Auto Focus mode and will continually attempt to adjust the lens focus so that the central part of the frame is in focus. In video logging applications, this could result in the focus shifting when approaching another vehicle or other objects in the centre of view. If you do not want the focus to behave this way, you can turn off the auto focus feature by pressing the **FOCUS** button on the front-left lens section of the camera. When auto focus has been turned off, you can then turn the lens focus ring to select a fixed focus distance. When you are manually focusing the camera, the focus distance is displayed in the bottom left corner of the LCD display.

Auto focus can be turned back on by pressing **FOCUS** button a second time.

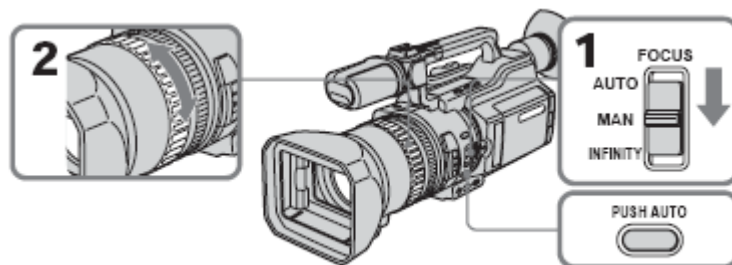
Sony VX2100E

The following features need to be enabled on the VX2100E camera for best use with ROMDAS.

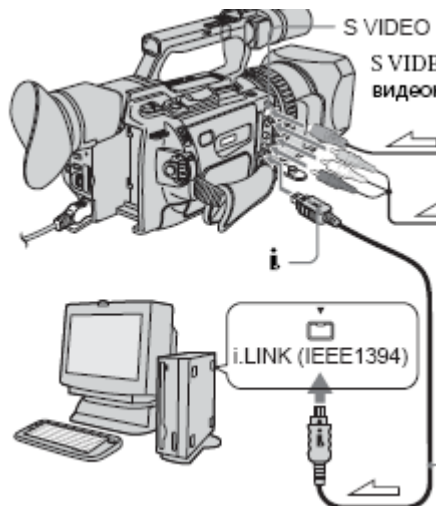
Progressive Scan¹ is set as follows:



Manual Focus² is set by



The Firewire cable 4 pin plug is connected to the i.LINK port under the cover on the right hand side of the camera.

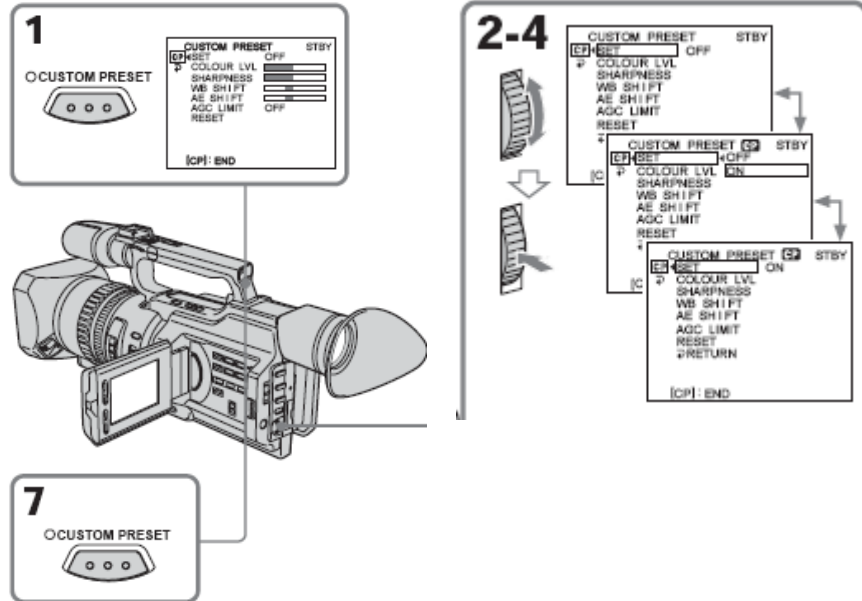


The Custom Preset³ menu can be used to alter the Automatic Exposure

¹ Progressive Scan setting on Page 51 of Sony [VZ2100E Manual](#)

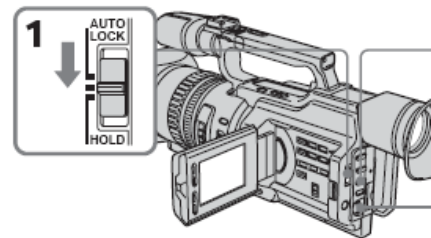
² Manual Focus setting on Page 83 of Sony [VZ2100E Manual](#)

settings using the AE shift menu option.



Set the Auto Lock selector to the middle position (auto lock release)

- White Balance should be set to Outdoors
- Auto Exposure should be set to Aperture Priority Mode
- Shutter Speed should be set to 300



Configuring Analog Cameras

The key configurations required for the cameras generally consist of:

- ❑ **Auto Focus:** This is **DISABLED** otherwise the image from the moving vehicle will fade in and out of focus as it tries to focus on passing objects.
- ❑ **Shutter Speed:** The shutter speed should be set to a high rate

The following gives the settings for some commonly supplied cameras:

Sony TRV-120E

| | |
|--|--|
| Date or time showing on video (pg 71, 94, 101 and 102) | Turn this off using the menu setting |
| Steady Shot (pg 88 and 89) | The Steady Shot should be turned ON to compensate for camera-shake. |
| Manual Focus (pg 58 and 59) | It is recommended that the camera be set to manual focus either on the road at a fixed distance in front of the vehicle or to infinity. You do this by setting the Focus button to manual and turning the focus dial on the front of the camera. If using autofocus, ensure that the image is set on INFINITEY. This will see the following image displayed: |



Shutter Speed (pg 57)

You cannot control the shutter speed on this camera. It is recommended that the Auto Exposure function be set to 'Sports lesson mode' since this minimises shake on fast-moving subjects. When this is done the camera will show this image:



Sony TRV-110E

| | |
|--|--|
| Date or time showing on video (pg 35 and 79) | Turn this off using the menu setting |
| Steady Shot (pg 80) | The Steady Shot should be turned ON to compensate for camera-shake. |
| Manual Focus (pg 58) | It is recommended that the camera be set to manual focus either on the road at a fixed distance in front of the vehicle or to infinity. You do this by setting the Focus button to manual and turning the focus dial on the front of the camera. If using autofocus, ensure that the image is set on INFINITEY. This will see the following image displayed: |



Shutter Speed (pg 54)

You cannot control the shutter speed on this camera. It is recommended that the Auto Exposure function be set to 'Sports lesson mode' since this minimises shake on fast-moving subjects. When this is done the camera will show this image:



Sony TRV-3400E

Date or time showing on video (pg 35)

Turn this off by pressing the Date and/or Time buttons on the side of the camera.

Steady Shot (pg 59)

The Steady Shot should be turned ON to compensate for camera-shake.

Manual Focus (pg 62)

Under some circumstances you may like to set the focus to manual and focus either on the road at a fixed distance in front of the vehicle or to infinity. You do this by setting the Focus button to manual and turning the focus dial on the front of the camera.

Shutter Speed (pg 66)

The shutter speed should usually be set to around 1/300. If the power is completely disconnected from the camera the shutter speed will need to be reset.