

## Issue 1 Film-like Shooting in Full HD ①

### — HQ 1080/24P Mode

#### Overview

The PMW-EX1 is the first professional handheld camcorder from Sony to feature three 1/2-inch type full-HD (1920 × 1080 effective pixels) CMOS sensors, for image quality comparable to high-grade camcorders such as the XDCAM HD series. It utilizes the same MPEG-2 Long GOP codec as XDCAM HD series of camcorders, and can record up to approximately 70 minutes of HD video on a single 16-GB SxS memory card. With its outstanding mobility, high-definition image quality, and rich array of functions, the PMW-EX1 is a revolutionary camcorder - a versatile video production tool that will deliver a new level of quality in a wide range of shooting situations.

When you use the 1080/60i mode to shoot a scene typical in a documentary or drama production such as shown in Clip A, the trees, clothes and expression of the model will be depicted accurately with crisp detail and overall high quality.



Clip A  
HQ 1080/60i mode

#### Shooting in 24P(23.98P) Mode

In addition to the HQ 1080/60i mode shown in Clip A, the PMW-EX1 offers a number of other shooting options. For example, the HQ 1080/24P mode provides recording at a native 23.98P frame rate, which is a capability available for the first time in a Sony professional handheld camcorder. It enables recording of full-HD video with film-like motion, which is ideal for creative works such as short films and music videos. You can use the HQ 1080/24P mode to shoot a scene such as shown in Clip B. You will note the expressiveness of the model's movements and the swaying of her skirt, helping to transform a well-shot scene into a memorable experience.

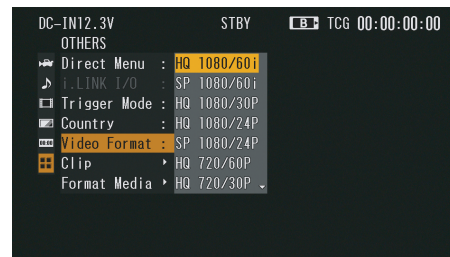


Clip B  
HQ 1080/24P mode

#### Setting Procedures

The PMW-EX1 has a factory default setting of HQ 1080/60i. To shoot in 24P mode, set the video format to HQ 1080/24P.

- 1 Put the PMW-EX1 into camera mode, and then press the MENU button.
- 2 Use the jog dial or joystick to select OTHERS, and then select HQ 1080/24P from the Video Format menu.



#### Other settings used to shoot clips A and B:

SHT (OFF), TLCS (STD), Full MF, ND1, color temperature (5800K), PPOFF, and Steady Shot (ON).

- The settings shown here are for reference only. Depending on the shooting environment and state of the equipment, results may be different from those shown here.
- Refer to the PMW-EX1 Operating Instructions and brochures for more information about procedures and specifications.

#### What is 24P mode?

When still images appear before us at the rate of one image second, we perceive them as a sequence of still images. But when twenty or thirty images are played in one second, we perceive a single moving picture. In the world of video, individual images are called "frames". Frames are recorded and played at different rates and in different ways for television and film.

For television, the 60i and 30P formats are often used. In the 60i format, frames are composed of 2 fields each, one for even and one for odd scanning lines. Every second 60 fields (30 frames) are recorded or played back alternately for even and odd scanning

lines. This is an "interlaced" system, hence the name "60i". In the 30P format, frames are not divided into fields, but rather recorded and played in sequential scanning line order from top to bottom at a rate of 30 frames per second. This is a "progressive" system, hence the name "30P".

For film, the standard frame rate is 24 frames per second. To achieve this system in digital video, 24 frames must be recorded and played back progressively each second. In digital video, this system is called "24P". The PMW-EX1 supports 60i, 30P, 60P, 24P, 50i, 25P, and 50P, for the versatility to support a wide range of applications.