

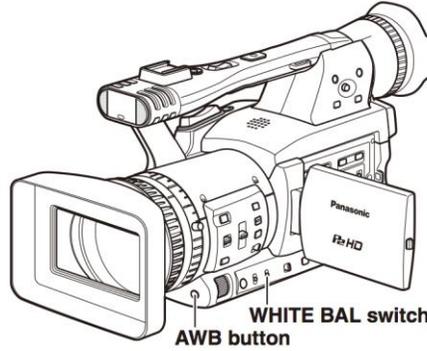
FORMAT

DVCPRO - 40 - 100 MBps - 4:2:2 Colour Rectangular Pixels
 RECOMMENDED FORMATS = 1080i/24P & 720P/24PN
 Transcode to Prores422 (FCP) or DNxHD (AVID) before editing

FORMAT YOUR CARDS BEFORE SHOOTING!
 MENU > OPERATION > FORMAT > SLOT1 (Repeat for Slot2)

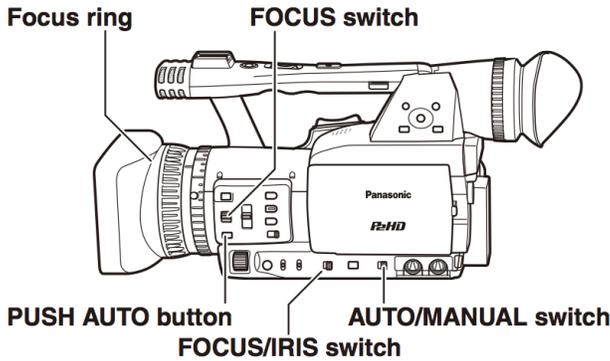
CAMERA COMES WITH two 32GB P2 Cards that hold 32 minutes of footage at HD resolution.

WHITE BALANCE



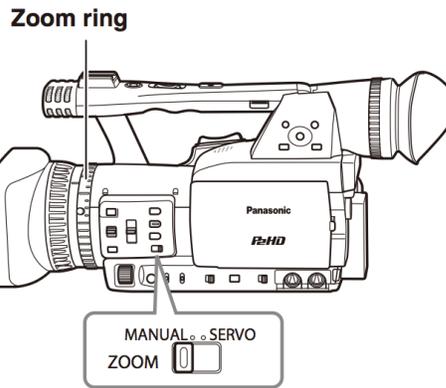
WHITE BAL = A or B or PRST
 A or B = you can store a WB setting
 PRESET = you can toggle between 3200k & 5600k by pushing AWB

FOCUS



Focus Assist: Digital Zoom for viewing manual focus.
 Focus Bar: Indicates when image is in focus when bar is longest.

FOCAL LENGTH (ZOOM)



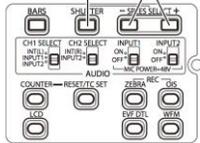
Switch to MANUAL Zoom before moving Zoom Ring

SHUTTER SPEED

SHUTTER button

SPEED SELECT button

Before shooting in areas with artificial lighting or adjusting the white balance, set the shutter speed as follows.

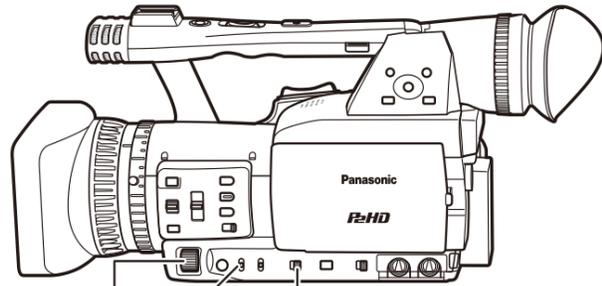


Progressive mode	Shutter speed	
	50 Hz	60 Hz
OFF (60i)	1/100	OFF (1/60)
30P	OFF (1/50)	1/60
24P/24PA/24PN	OFF (1/50)	1/60

With the 1080i/60i, 720P/60P and 480i/60i formats	
Standard (Off) 1/60	SYNCRO SCAN ↔ 1/15 ↔ 1/30 ↔ 1/100 ↓ 1/2000 ↔ 1/1000 ↔ 1/500 ↔ 1/250 ↔ 1/120
With the 1080i/30P, 720P/30P, 480i/30P and 720P/30PN formats	
Standard (Off) 1/50	SYNCRO SCAN ↔ 1/15 ↔ 1/30 ↔ 1/60 ↓ 1/1000 ↔ 1/500 ↔ 1/250 ↔ 1/120
With the 1080i/24P, 480i/24P, 1080i/24PA and 480i/24PA formats	
Standard (Off) 1/50	SYNCRO SCAN ↔ 1/24 ↔ 1/60 ↓ 1/1000 ↔ 1/500 ↔ 1/250 ↔ 1/120
With the 720P/24P and 720P/24PN formats	
Standard (Off) 1/50	SYNCRO SCAN ↔ 1/12 ↔ 1/24 ↔ 1/60 ↓ 1/1000 ↔ 1/500 ↔ 1/250 ↔ 1/120

Set the shutter speed of the synchro scan (used when shooting a television or computer monitor) in the setup menus, SCENE FILE screen, SYNCRO SCAN. (Page 98)

APERTURE (F-STOP)

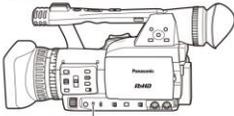


IRIS dial **FOCUS RING (FOCUS/IRIS) switch**
IRIS button

GAIN

Adjusting the gain

When the display is dark, increase the gain to brighten the display.



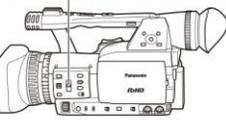
GAIN switch

- If the camera is in auto mode, use the **AUTO/MANUAL** switch to switch to manual mode. (Page 35)
- Switch the gain with the **GAIN** switch.
 - L: Set here under normal conditions. (0 dB)
 - M: Increase the gain of the image amplifier. (The default value is 6 dB.)
 - H: Increase the gain of the image amplifier. (The default value is 12 dB.)

Light intensity adjustments

Use the **ND FILTER** Switch to change the ND Filter used (filter to change light intensity).

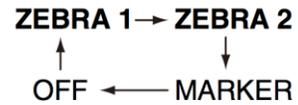
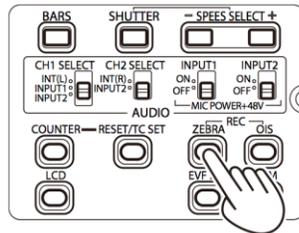
- OFF:** ND filter is not used.
- 1/4:** Cuts light intensity by up to about 1/4.
- 1/16:** Cuts light intensity by up to about 1/16.
- 1/64:** Cuts light intensity by up to about 1/64.



ND FILTER switch

Always set Gain to 0dB before adjusting exposure.

ZEBRA STRIPES



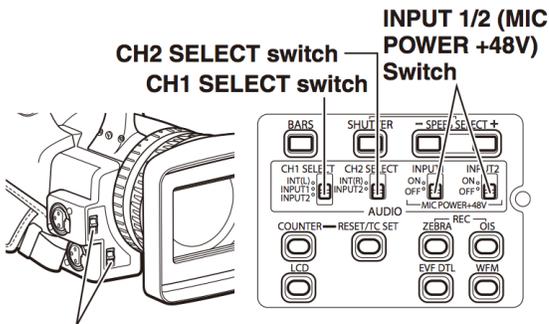
DISPLAY SETUP screen

Item	Display mode	Description of settings
ZEBRA DETECT 1	(Camera)	Selects the brightness level of the left-leaning zebra patterns on the screen. 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 100%, 105%
ZEBRA DETECT 2	(Camera)	Selects the brightness level of the right-leaning zebra patterns on the screen. 50%, 55%, 60%, 65%, 70%, 75%, 80%, 85%, 90%, 95%, 100%, 105%, OFF <Note> The zebra patterns do not appear if you select OFF.
MARKER	(Camera)	Select ON to display the marker. (Page 40) ON, OFF To display the marker, press the ZEBRA button.

Before using Zebra Stripes, make sure you know what they are set to (70? 100?).

Marker: a spot light meter that shows values 0%-99% and 99%†

SOUND



INPUT 1/2 switches

Read Manual Pg 51-52 for info on 4 Channel Audio Recording Use +48V (phantom for mics that don't have onboard batteries)

CONNECTING TO A COMPUTER

Make sure the computer you are using has the Panasonic P2 drivers installed.

Make sure the camcorder is turned off.

Connect Camera and Computer using provided USB cable (USB JACK LOCATED ABOVE POWER BUTTON)

Power on Camcorder and push the **MODE** button once to enter the player (MCR) mode. Hold down the **MODE** button to recognize the camcorder ("USB DEVICE" will appear on the LCD viewer and you may see icons representing the two P2 cards as new disks called NONAME or Drives O: and P: etc).

When you are done using the disks, **EJECT** them from your computer, unplug the USB cable and turn off the camcorder.

If you have a portable HD it's a good idea to make backups of your original P2 media before you wipe the cards. Make a new folder and make sure you don't alter the original folder structure of the card. You can reread your video footage in case of emergency in the original DVCPROHD format.

FINAL CUT PRO 6 or 7

Make a new Project using similar settings as the footage you shot. (i.e. footage = 1080i/24P | Sequence Preset = Apple ProRes 422 1920x1080 24p 48 kHz)

Set your scratchdisk to your own partition (File > System Settings > Set)

Choose File > Log and Transfer

Click on the Gear in the upper right corner > Preferences and check the transcode format for P2 media (Prores422 is fine) > OK.

Drag any clips you want from the P2 disks to the area that says Drag Media Here. They will show up as clips in your Browser and be stored in your scratch disk.

If you don't need a whole clip you can set in/out points in the right hand viewer or name your clips in field underneath named "Name."

Occasionally a window pops up that says "For Best Performance your sequence and External Video should be set to the format of the clips you are editing..." Usually answering yes to this is the best option.

You can now eject the p2 disks.

AVID

Make a new Project with similar settings as the footage you shot. (i.e. footage = 1080i/24P | format = 1080p/24 Raster = 1920x1080)

Choose Tools > Media Creation > Import : set the Video Drive to the YourName: partition click both "apply all" buttons.

Video resolution should be set to DNxHD 115 MXF (the 115 bitrate is just slightly higher than the highest bitrate of the camera) > OK.

You will see that AVID opens up two new bins named Volume O and P (etc). All clips in the bins are coloured yellow. That means they are only references to the file.

Highlight all the clips you want to import.

Right Click > Consolidate/Transcode.

Choose Transcode.

Choose YourName: partition under Video /Data.

Target Resolution: DNxHD 115 MXF.

Target Audio: PCM MXF.

Click Transcode.

Occasionally you will get a window that says "Song Clips do not match the edit rate of the current project" – Usually answering "Convert" is the best option.

All newly transcoded clips will have the word new.number added to them and they will no longer be reference files (yellow) drag them to a new bin in your project. You can now eject the p2 disks.