



PXW-Z90, HXR-NX80

Compact 4K palm camcorder

HXR-NX80



PXW-Z90V / PXW-Z90T



HANDYCAM



FDR-AX700

PXCAM



HXR-NX80

XDCAM



PXW-Z90V / PXW-Z90T

4K & HD

What a fast AF!

New! “3” Palm Models coming soon

3 new PALM models

from November 2017

HANDYCAM



FDR-AX700
€1,600*

- Target User
- Experienced amateur
 - Videographer

PXCAM



HXR-NX80
€2,000*

- Target User
- Corporate / Events
 - Government
 - Film school

XDCAM



PXW-Z90V / PXW-Z90T
€2,400*

- Target User
- Journalists
 - Director camera (TV & Production)
 - On-board shooting

If you remember anything about the new PALM....

Fast Hybrid AF

4K HDR Shooting

Super Slow / S&Q motion

Basic Key Features

1-type 20M
Exmor RS CMOS

Clear Image Zoom 18x

Wi-Fi & Streaming

REMOTE Plug

XAVC QFHD &
XAVC HD(4:2:2 10bit)

Main features

HANDYCAM

FDR-AX700

4K

PXCAM

HXR-NX80

4K

XDCAM

PXW-Z90V / PXW-Z90T

Fast, Hybrid & Easy to set Auto FOCUS (AF)

Lens Wide-angle 29mm **ZEISS** Vario-Sonnar T* **12x** optical zoom lens

High-speed readout with **Exmor RS™ CMOS Sensor**

Slow & quick motion (120fps w/o stop), Super Slow

HDR(HLG), S-Log2, S-Log3

Dual Slot for SD cards

0.39-type 2,359k **OLED EVF**

3.5-type 1,555k T/P **LCD**

Simple Live solution

Main differences: Codec, output

HANDYCAM

FDR-AX700
1,600 €

4K HDMI type A
with TC embedded & Rec
Trigger

AVCHD
1920*1080 : 60i FX , FH
1440*1080 : 60i LP

XAVC-S

Photo

NXCAM

HXR-NX80
2,000 €

4K HDMI type A
with TC embedded & Rec
Trigger

AVCHD
1920*1080 : 60p PS /
60i FX , FH / 30p FX / 24p FX
1440*1080 : 60i LP
1280*720 : 60p HQ

XAVC-S

XLR handle

XDCAM

PXW-Z90V / PXW-Z90T
2,400 €

3G SDI with Rec trigger & TC

4K HDMI type A
with TC embedded & Rec
Trigger

MPEG HD 422 licence
*Paid License CBKZ-SLMP

AVCHD
1920*1080 : 60p PS /
60i FX , FH / 30p FX / 24p FX
1440*1080 : 60i LP
1280*720 : 60p HQ

XAVC QFHD

XLR handle

Main differences: Network

HANDYCAM

FDR-AX700
1,600 €



* Tentative prices

PIXCAM

HXR-NX80
2,000 €



XDCAM

PXW-Z90V / PXW-Z90T
2,400 €



- QoS streaming to XDCAM AIR
- FTP transfer to servers
- Wireless TC Link
*Paid License CBKZ-WTCL
- Streaming to Network servers
- Streaming to Ustream
- Remote & Wi-Fi monitoring
- 2.4GHz & 5 GHz
- Content Browser (PC/MAC)
- CBM – Content Browser Mobile (for Mobile)

- Remote & Wi-Fi monitoring
- 2.4GHz
- Play Memories (PC/MAC)
- Play Memories (for Mobile)

- Wireless TC Link
*Paid License CBKZ-WTCL
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- CBM – Content Browser Mobile (for Mobile)

PXW-Z90

app. **65** min with 64

GB SDXC

XAVC QFHD 100 mode

1.39 kg camera body



app. **120** min with

64 GB SDXC

XAVC HD 50 mode

app. **285** min.
with NP-FV100A battery

PXW-NX80

app. **75** min with 64
GB SDXC

XAVC S 4K 100 mode

1.32 kg camera body



app. **120** min with
64 GB SDXC

XAVC S HD 50 mode

app. **285** min.
with NP-FV100A battery



PXW-Z90, HXR-NX80

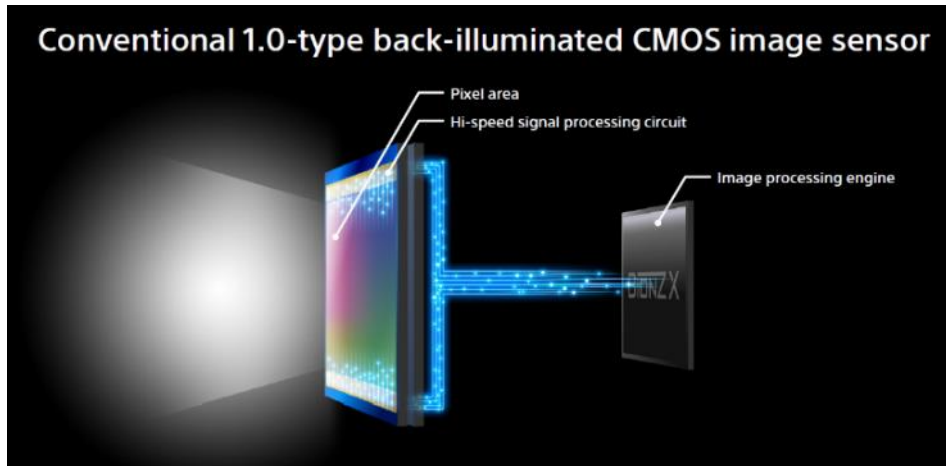
Sensor

Sensor

The World's First Professional Camcorder adopted Stacked CMOS Image Sensor “Exmor RS”

This structure layers the pixel section, containing formations of back-illuminated pixels over the chip affixed with mounted circuits for signal processing, in place of conventional supporting substrates used for back-illuminated CMOS image sensors

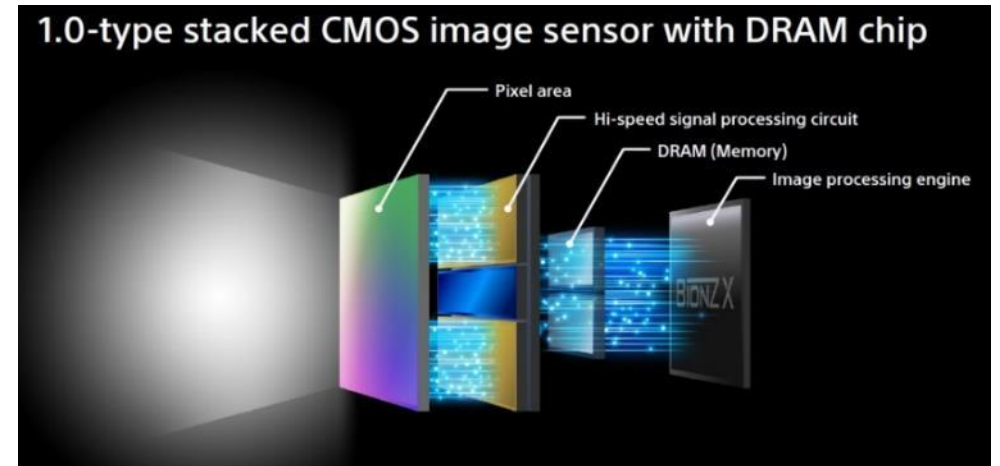
Exmor RS
PXW-X70



▶
**over
5x
faster*
readout**

Exmor RS

FDR-AX700, PXW-Z90, HXR-NX80



* According to a simulation of the same electronic shutter of up to 1/32000 sec. combined with the Exmor R CMOS sensor employed with RX10 or RX100 III.

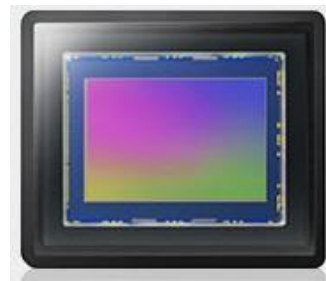
Sensor

Spectacular 4K quality
without binning

4K

High sensitivity in low-light
environment

Bright with high resolution




Less Rolling Shutter Effect

High readout speed
makes possible 120fps
HFR

Exmor RS
CMOS Sensor

Offers more bokeh
with a shallow depth
of field



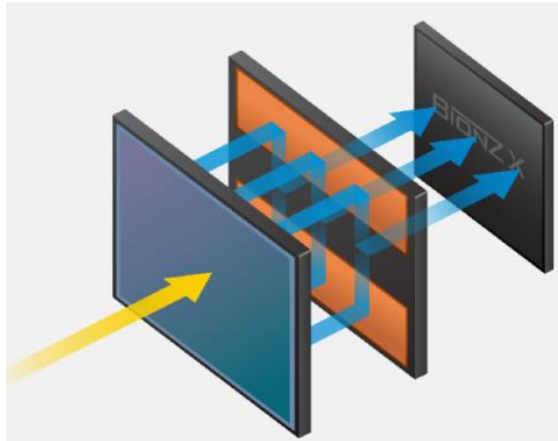
PXW-Z90, HXR-NX80
Fast Hybrid AF System

Fast Hybrid AF System

Combining α 's fast/accurate phase-detection AF technology with newly developed algorithm for movie, the siblings achieved fast AF response, high subject tracking performance and detailed AF setting

High-speed readout with
Exmor RS™ CMOS Sensor
covered with phase-detection AF sensor

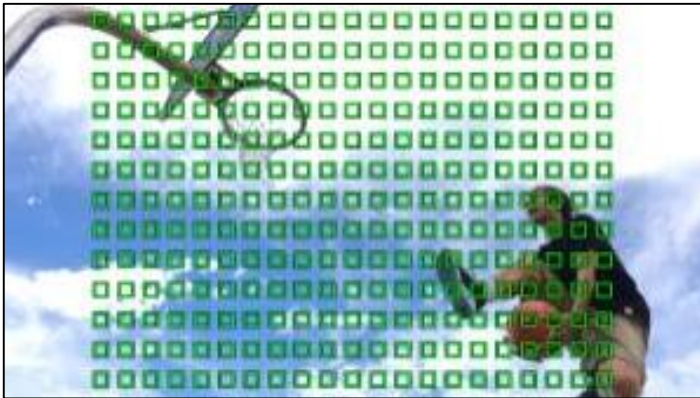
The circuit layer is separated from the pixel layer so that the scale and capabilities of the integrated high-speed signal processing circuitry can be significantly enhanced



Enhanced BIONZ X
for high-speed processing
performance same as a9

Newly developed **AF algorithm** for movie,
optimizes lens driving method

Fast Hybrid AF



273 / 84%
AF points coverage



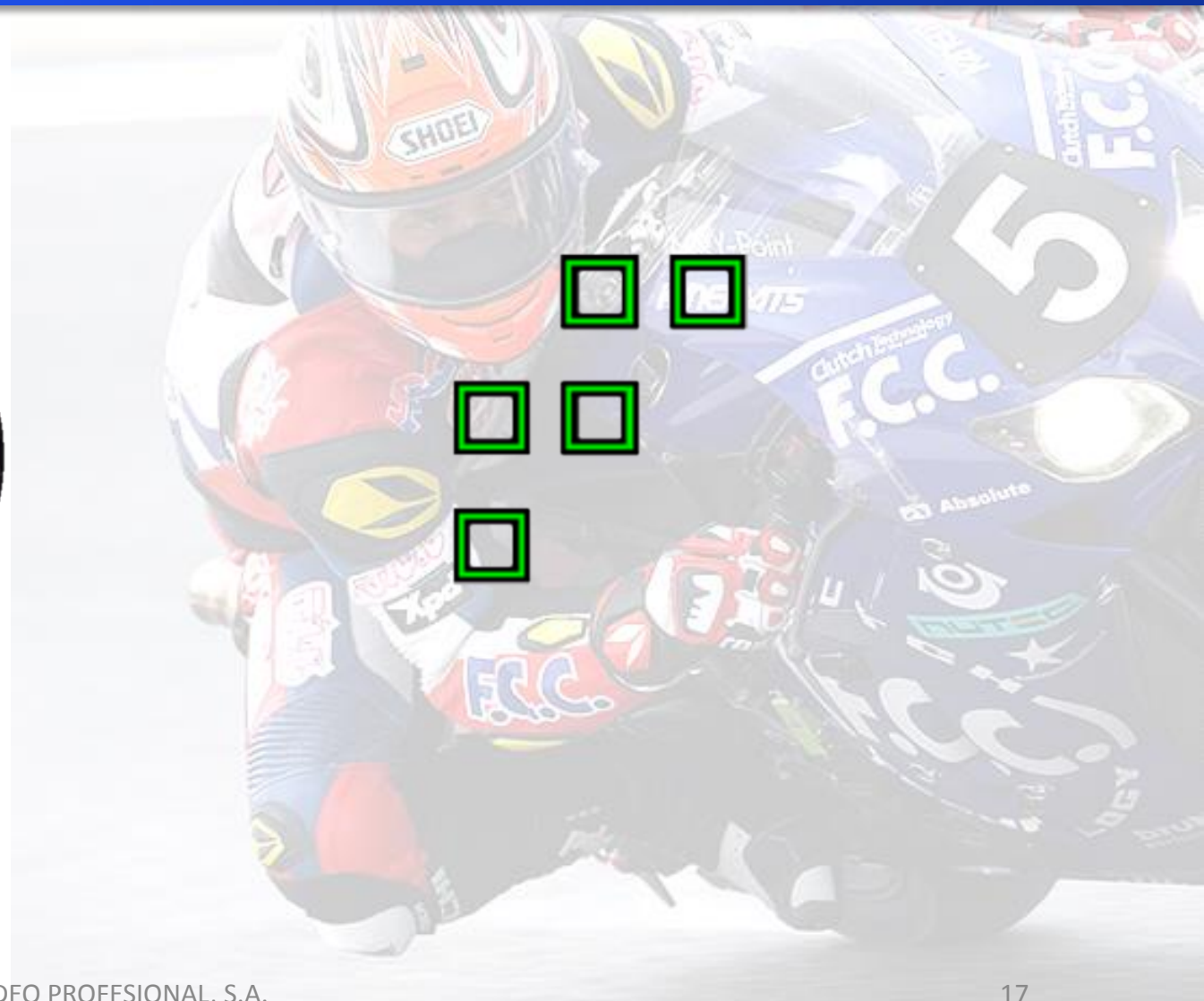
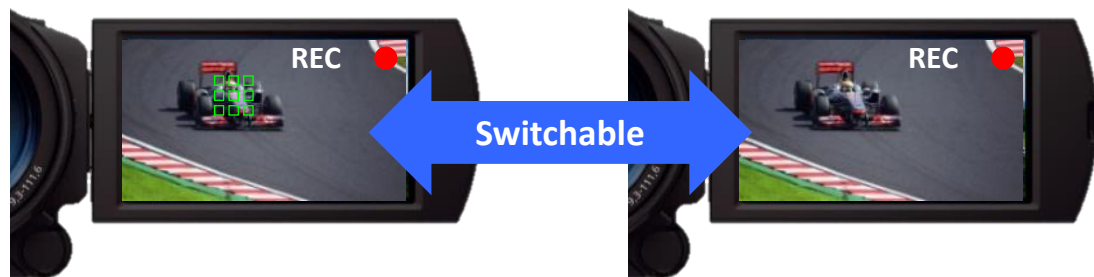
TOUCH
operation



Customize
AF setting combinations

Fast Hybrid AF

Tracking focus point
will appear during movie mode
(can select Disp ON / OFF)

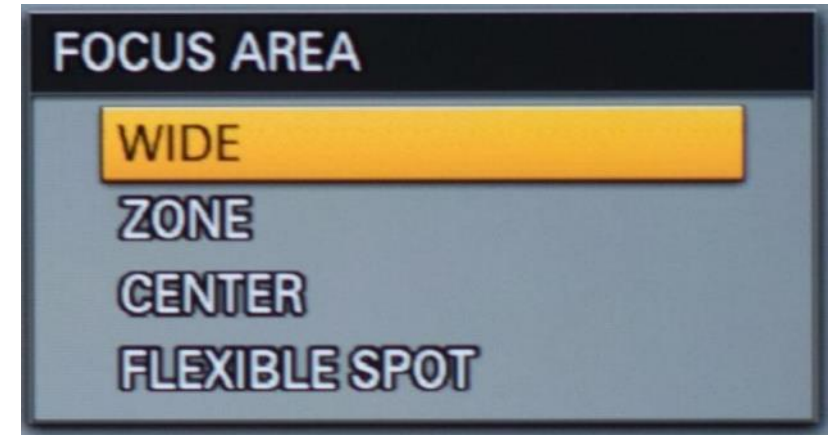
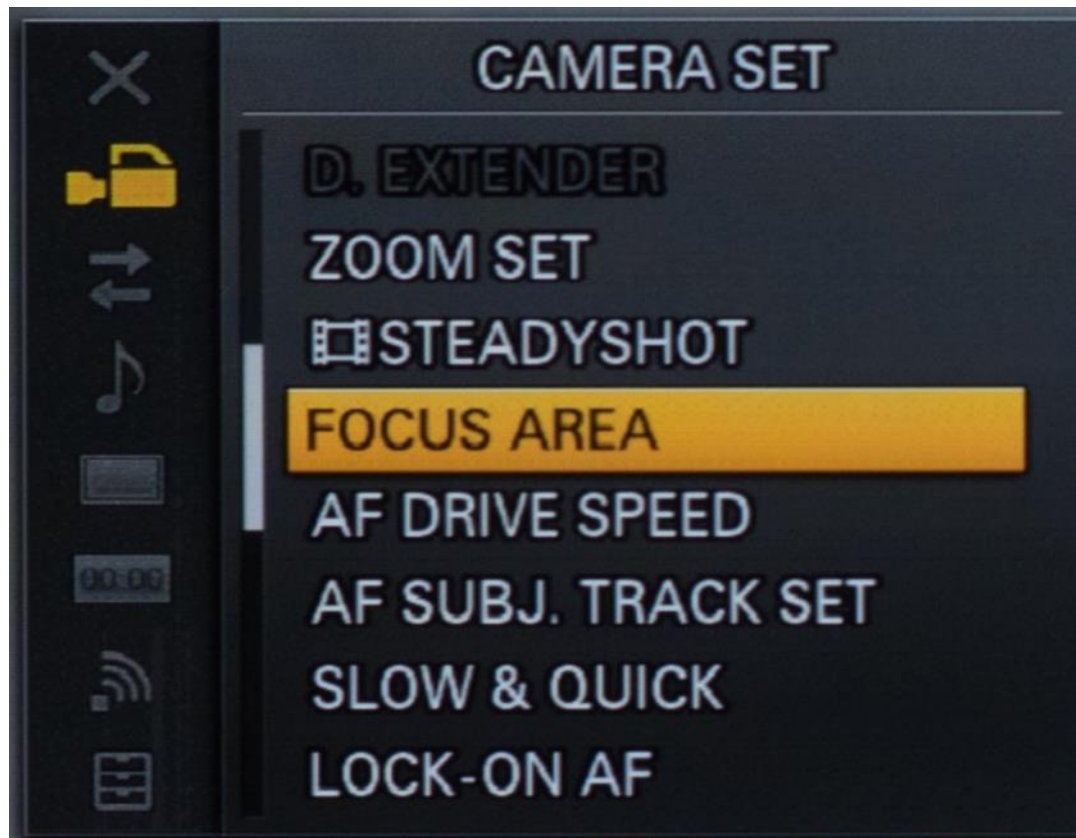


N.B. LCD Protect Sheet **PCK-LS35W**



Fast Hybrid AF

FOCUS AREA Setting



4 AREA Settings

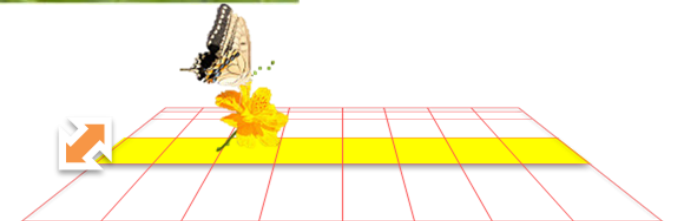
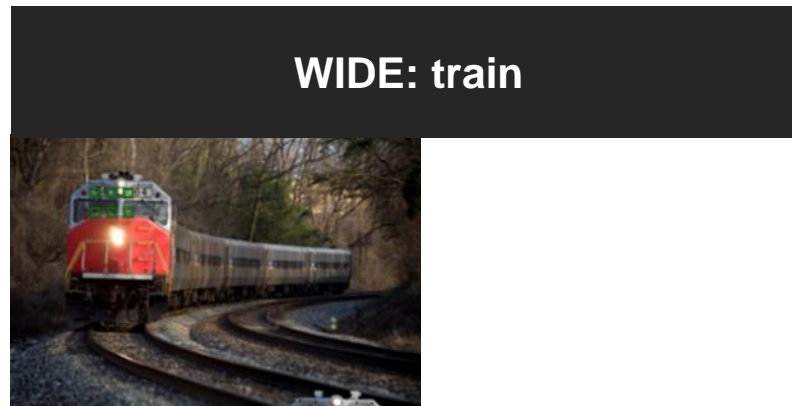
Fast Hybrid AF

AF Subject Tracking Setting

Set [WIDE 5] for largely moving subject, and set [NARROW 1] for fixed position or narrowly moving subject towards depth direction.



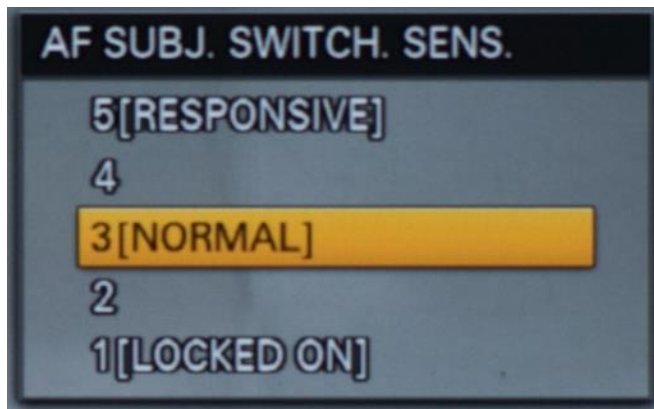
CAM Menu



Fast Hybrid AF

AF Subject Switching Sensitivity

Set [RESPONSIVE 5] for shifting focus subject from one to another, and set [LOCKED ON 1] for tracking single subject.



CAM Menu



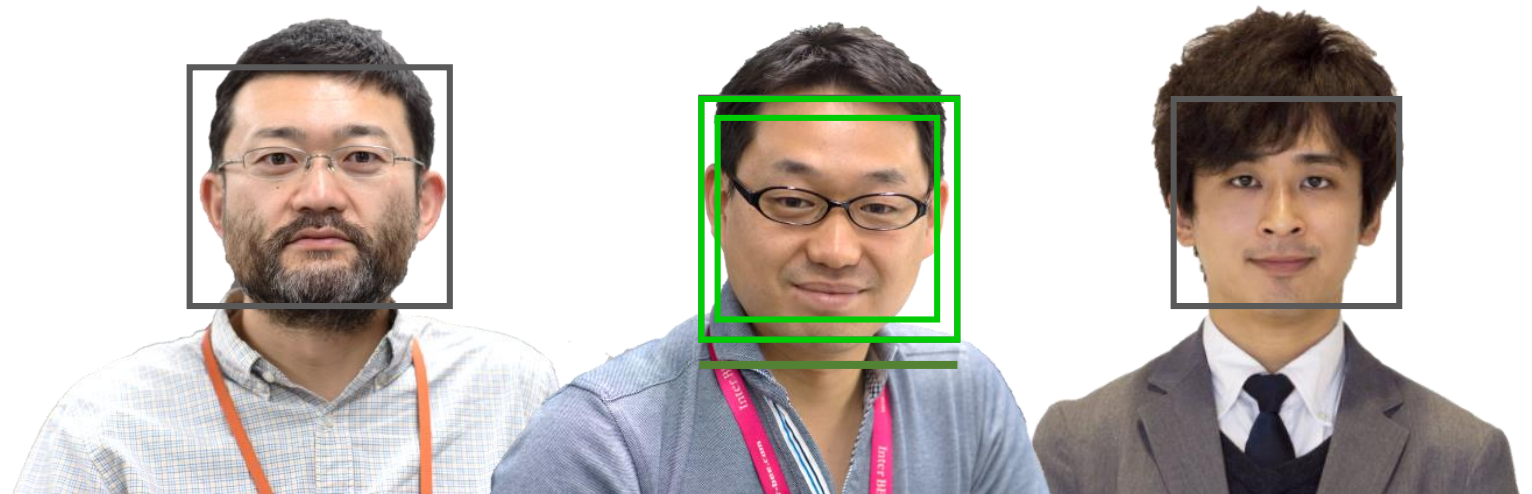
Face Detection AF

Tracking the target face



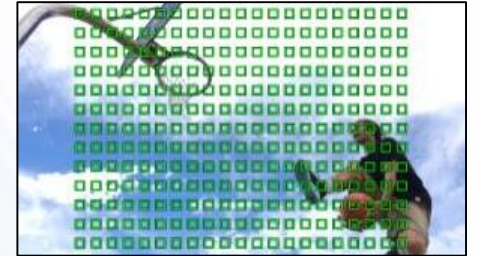
CAM Menu


Joystick Operation only



Fast Hybrid AF Recap:

- Amazing AutoFocus speed – the tracking focus point is visible during shooting
- 273 AF Points / 84% coverage
- Touch operation and customisable AF settings
- AF subject tracking setting – Wide or Narrow
- AF subject switching sensitivity – Responsive or Locked On
- Face Detection to track targets
- Lock-On AF – track the target subject





PXW-Z90, HXR-NX80
4K HDR Shooting

Recording video formats

PXW-Z90	HXR-NX80
XAVC QFHD : MPEG-4 AVC/H.264 4:2:0 Long profile	XAVC S 4K : MPEG-4 AVC/ H.264 4:2:0 Long profile
XAVC HD : MPEG-4 AVC/H.264 4:2:2 Long profile	XAVC S HD : MPEG-4 AVC/ H.264 4:2:0 Long profile
XAVC Proxy : MPEG-4 AVC/H.264 4:2:0 Long profile	XAVC S Proxy: MPEG-4 AVC/H.264 4:2:0 Long profile
MPEG HD422 (CBKZ-SLMP required) : MPEG-2 422P@HL 4:2:2 Long profile	AVCHD : MPEG-4 AVC/H.264 AVCHD 2.0 format compatible
MPEG HD420 (CBKZ-SLMP required) : MPEG-2 MP@HL 4:2:0 Long profile	
MPEG HD Proxy (CBKZ-SLMP required) : MPEG-4 AVC/H.264 4:2:0 Long profile	
AVCHD : MPEG-4 AVC/H.264 AVCHD 2.0 format compatible	

Recording audio formats

PXW-Z90	HXR-NX80
XAVC QFHD : Linear PCM 2ch, 24bit, 48kHz	XAVC S 4K : Linear PCM 2ch, 16bit, 48kHz
XAVC HD : Linear PCM 2ch, 24bit, 48kHz	XAVC S HD : Linear PCM 2ch, 16bit, 48kHz
XAVC Proxy : AAC-LC 2ch, 16bit, 48kHz	XAVC S Proxy : Linear PCM 2ch, 16bit, 48kHz
MPEG HD422 (CBKZ-SLMP required) : Linear PCM 2ch, 24bit, 48kHz	AVCHD : Linear PCM 2ch, 16bit, 48kHz / Dolby Digital 2ch, 16bit, 48kHz
MPEG HD420 (CBKZ-SLMP required) : Linear PCM 2ch, 16bit, 48kHz	
MPEG HD Proxy (CBKZ-SLMP required) : AAC-LC 2ch, 16bit, 48kHz	
AVCHD : Linear PCM 2ch, 16bit, 48kHz / Dolby Digital 2ch, 16bit, 48kHz	

4K HDR Shooting

High Dynamic Range technology can record Hybrid Log-Gamma
& output wide color area & contrast range
HXR-NX80 & PXW-Z90 will be a part of Instant HDR Workflow.



SDR

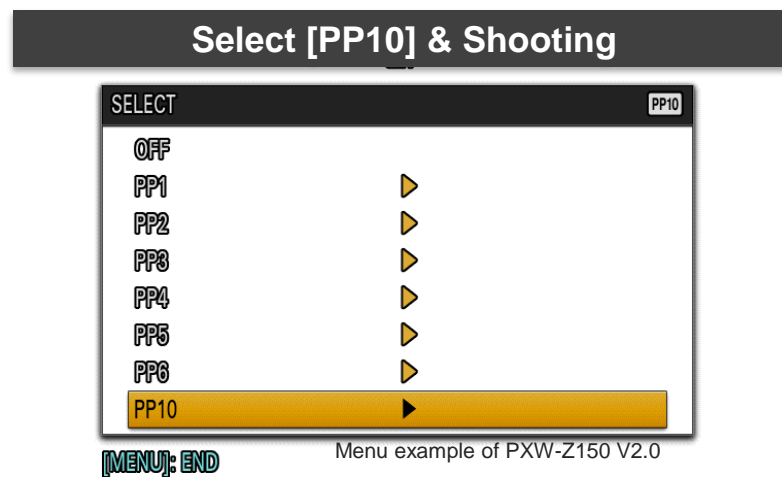


HDR



4K HDR Shooting

1. Setting in Picture Profile PP 10

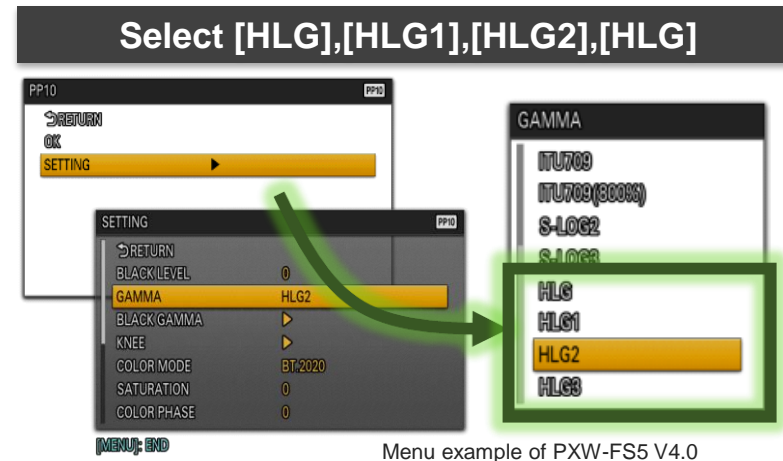


Picture Profile/PP Pre-Settings

	Usage	Gamma	Color Mode
PP1	Example settings of a color tone with [STANDARD] gamma	PP1	Example settings of a color tone with [STANDARD] gamma
PP2	Example settings with color tone like an interchangeable-lens still camera movie with [STILL] gamma	PP2	Example settings with color tone like an interchangeable-lens still camera movie with [STILL] gamma
PP3	[Example settings of natural color tone with [ITU709] gamma	PP3	[Example settings of natural color tone with [ITU709] gamma
PP4	Example settings of a color tone with [ITU709 MATRIX] color mode	PP4	Example settings of a color tone with [ITU709 MATRIX] color mode
PP5	Example settings of a color tone with [CINE1] gamma	PP5	Example settings of a color tone with [CINE1] gamma
PP6	Example settings of a color tone with [CINE2] gamma	PP6	Example settings of a color tone with [CINE2] gamma
PP7	Recommended setting when shooting using [S-LOG2] gamma and [S-GAMUT] color mode	PP7	Recommended setting when shooting using [S-LOG2] gamma and [S-GAMUT] color mode
PP8	Recommended setting when shooting using [S-LOG3] gamma and [S-GAMUT3.CINE] color mode	PP8	Recommended setting when shooting using [S-LOG3] gamma and [S-GAMUT3.CINE] color mode
PP9	Recommended setting when shooting using [S-LOG3] gamma and [S-GAMUT3] color mode	PP9	Recommended setting when shooting using [S-LOG3] gamma and [S-GAMUT3] color mode
PP10	Setting example of shooting using [HLG2] gamma and [BT.2020] color mode	PP10	Setting example of shooting using [HLG2] gamma and [BT.2020] color mode

4K HDR Shooting

2. Select Hyper Log Gamma (HLG) in GAMMA Setting of Picture Profile



Variety of HLG settings

Three types of HLG(HLG1, HLG2, and HLG3) can be selectively used based on shooting senses

HLG : HDR system ITU-R BT.2100 gamma curve that corresponds to Hybrid Log-Gamma.

Type	Difference
HLG1	Prioritize noise reduction. Narrower dynamic range than that of [HLG2]. Video output level is up to 87%.
HLG2 (default)	Considered setting between dynamic range and noise reduction. Video output level is up to 95%.
HLG3	Dynamic range is wider, also noise level is higher than that of [HLG2]. Same dynamic range as [HLG]. Video output level is up to 100%.

4K HDR Shooting

Support Function

❑ Gamma Display Assist Function


It adjusts the brightness and contrast to display an appropriate image for the dynamic range on the camcorder viewfinder and LCD screen. Furthermore it corrects color saturation to display an image to reproduce color

❑ Histogram and Zebra on display

When shooting HDR, it is recommended to capture high level luminance as much as possible with minimal white clip area on the screen. The Histogram helps you to find the proper exposure along with the yellow vertical line Zebra indicator



(simulated image)

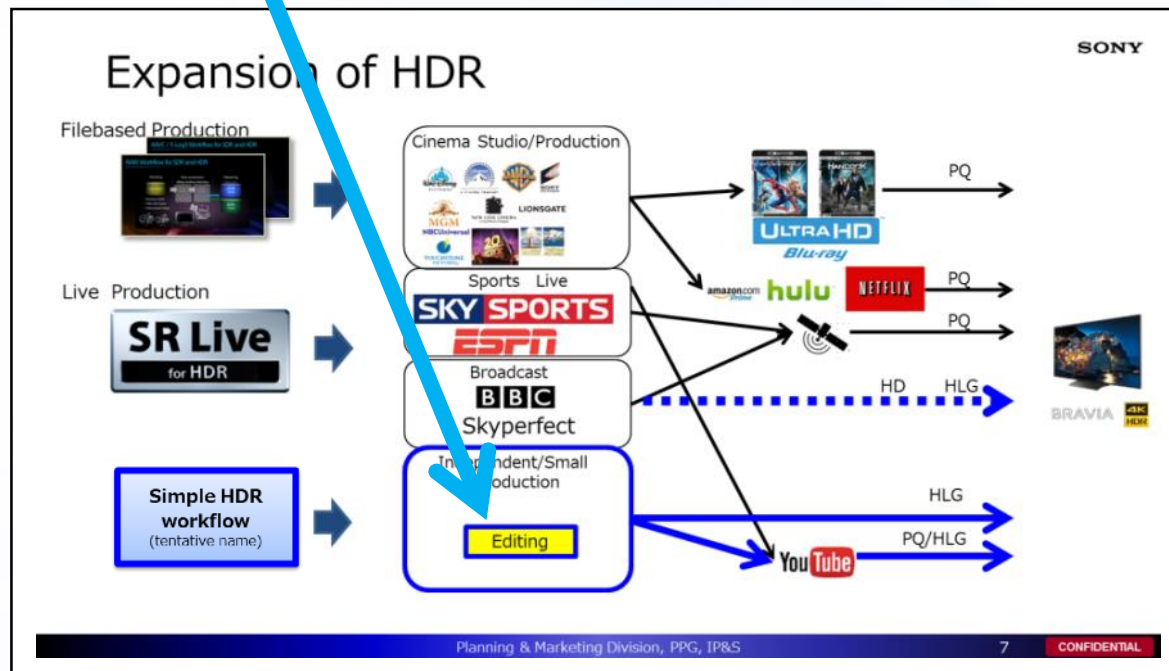


Benefits HDR (HLG) Shooting

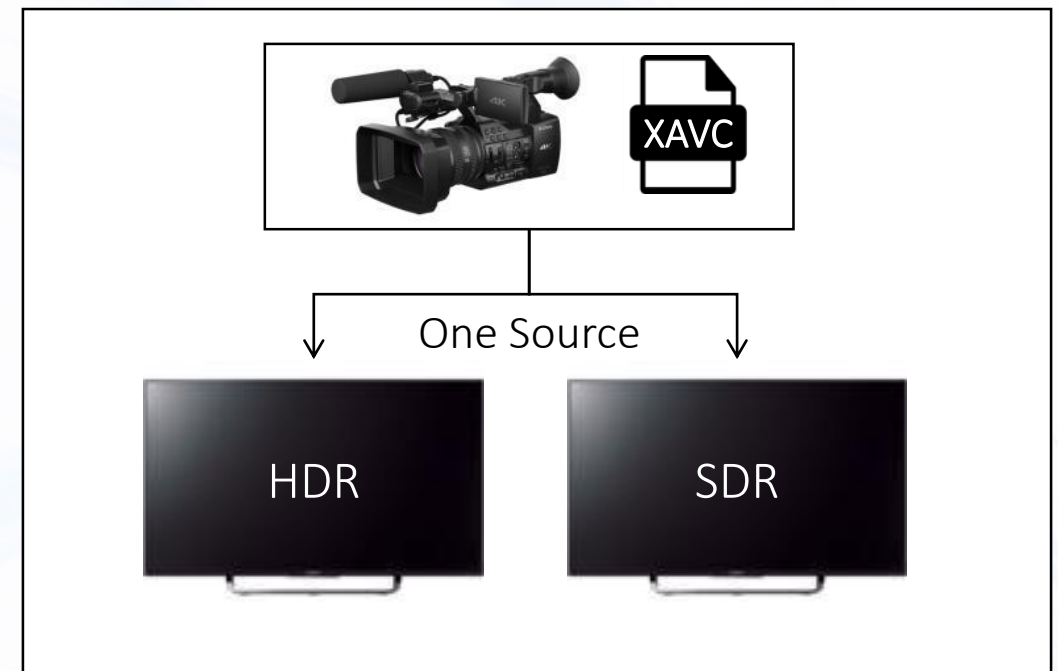
What is HLG?

Hybrid Log-Gamma(HLG) is one of the Gamma for HDR, as defined in BT.2100. HDR source with HLG is compatible with SDR monitor.

Cut & Edit



Compatibility with SDR monitor



What's HDR

Record HDR(High Dynamic Range) images as you see

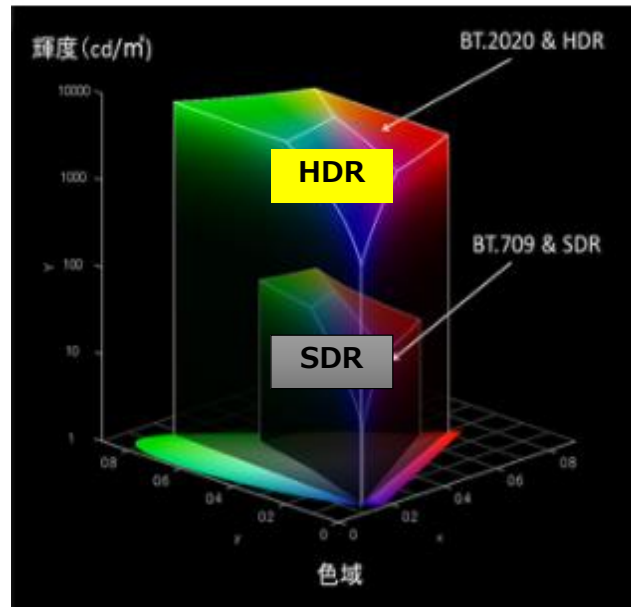
Actual scene



Human eyes can recognize a wide range of color and contrast, from bright to dark part in detail.

The color and contrast range that camera can record

[Color Space]



HDR



Deliver true-to-life images with less black crush and blown out highlights



SDR

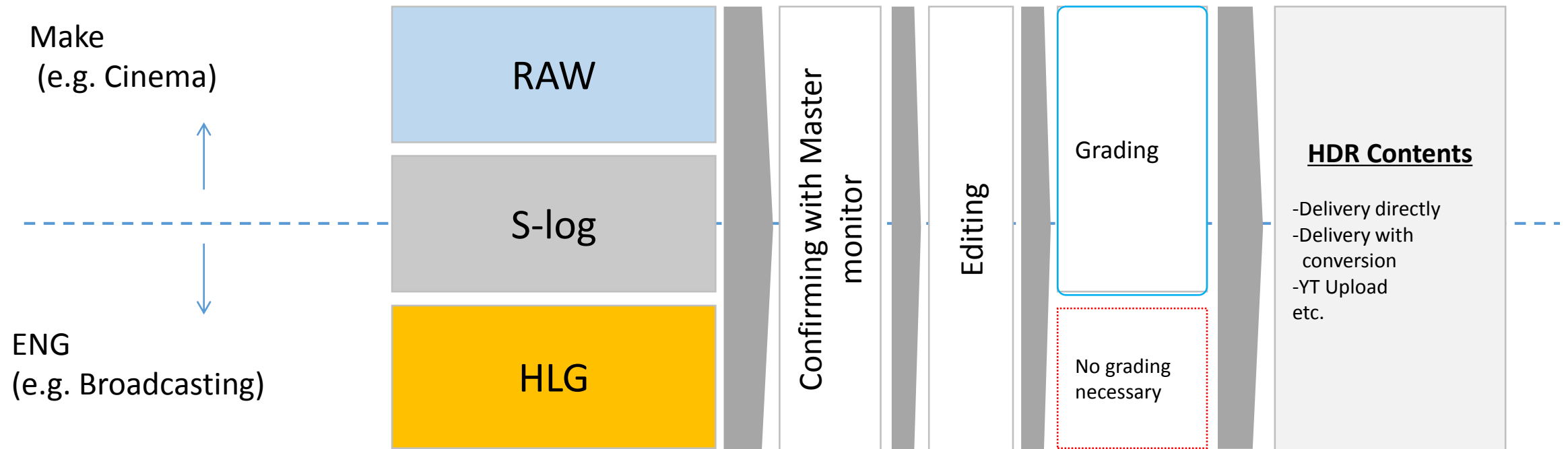
Delivers images with black crush and Halation



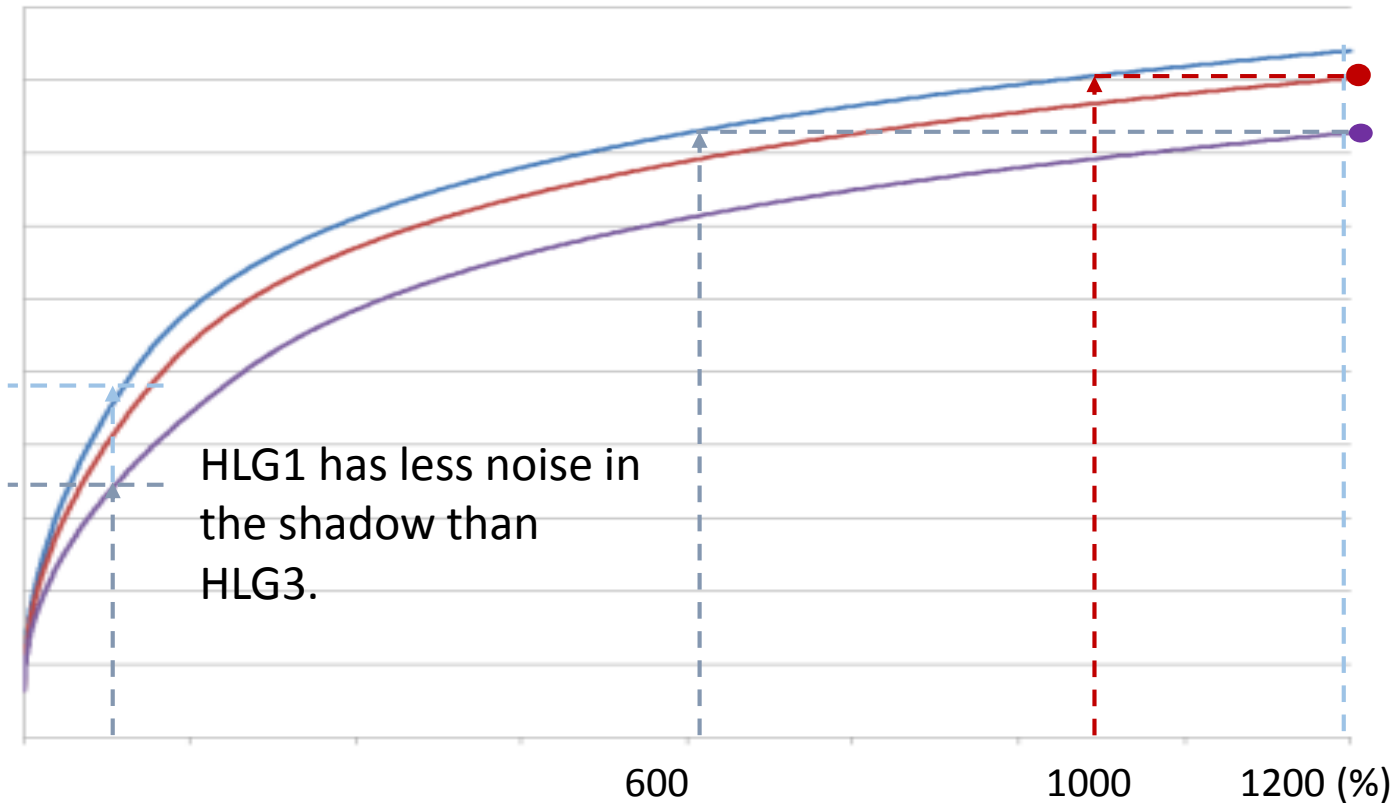
*Connect this product to a HDR compatible Sony TV via a USB cable when displaying HDR movies.

Traditional Workflow of HDR

From shooting to generating program, it will take a lot of procedure to adjust acquiring movie expression



Three type of curves HLG



HLG3(100%) = HLG standard
HLG2(95%)
HLG1(87%)

[GAMMA] items

(Default setting in bold)

Item	Description
[HLG]	Setting equivalent to ITU-R BT.2100.
[HLG1]	Setting that provides greater noise suppression than [HLG2]. However, the dynamic range that can be shot is narrower.
[HLG2]	Setting with balance between dynamic range and noise suppression.
[HLG3]	Setting that provides wider dynamic range than [HLG2]. However, the noise level rises.

[HLG1], [HLG2], and [HLG3] all use the same gamma curve characteristic. Only the dynamic range and noise suppression characteristics differ.

Discover more about HDR/HLG

<https://www.pro.sony.eu/pro/article/broadcast-products-camcorder-hdr-hybrid-log-gamma>

The Knowledge Portal

www.training.sony-europe.com

The screenshot shows the top navigation bar of the Sony Knowledge Portal. It features the Sony logo on the left, a search bar, and a notification that says "You are currently using guest access (Login)". Below the navigation bar are several menu items: "E-learning", "Find a Course", "ICE Programme", "Glossary", and "Login/Register". The main content area is divided into two columns. The left column has a vertical title "The Knowledge Portal" and a large heading "Welcome to The Knowledge Portal". Below this heading is a paragraph: "This learning platform is designed to increase your knowledge about Broadcast, Professional and Business Solutions from Sony. Complete e-Learning, find out about face-to-face training courses and learn about our ICE Programme." The right column contains a vertical list of menu items: "My Learning Activities", "Find a Course", "ICE Programme", and "Glossary". The background of the main content area is a photograph of a group of people sitting around a table, looking at a laptop screen.

Two featured content cards are shown. The top card is titled "IP Live" and features a background image of a cityscape with a film strip overlay. The text below the image reads: "Learn about the emerging technology of IP Live and the network technologies being used to change the face of live production broadcast production." The bottom card is titled "Craft and Technology" and features a background image of a professional video camera. The text below the image reads: "Learn about the creative side of using professional AV Media products and solutions with these E-learning modules. Featured here is video, audio and broadcast principles, methodologies, broadcast and television essentials, camera craft and digital cinematography workflows."



PXW-Z90, HXR-NX80

Slow, Super slow & Quick motion

Super Slow / S&Q motion

120fps S&Q Motion is no time limit

Up to 960fps Super-Slow-Motion (cash REC)



	240-960fps Super Slow*			Super Slow Motion		Slow & Quick Motion						No time limit S&Q 120fps	
NTSC	960fps	480fps	240fps	120fps	60fps	30fps	15fps	8fps	4fps	2fps	1fps		
PAL	(1000fps)	(500fps)	(250fps)	(100fps)	(50fps)	(25fps)	(12fps)	(6fps)	(3fps)				

*240-480fps :the resolution decreases
960fps:resolution decrease & Crop

S&Q motion

NTSC				PAL		
FRAME RATE	24p	30p	60p	FRAME RATE	25p	50p
120	20% Slow	25% Slow	50% Slow	100	25% Slow	50% Slow
60	40% Slow	50% Slow	100% Standard	50	50% Slow	100% Standard
30	80% Slow	100% Standard	200% Quick	25	100% Standard	200% Quick
15	160% Quick	200% Quick	400% Quick	12	208% Quick	417% Quick
8	300% Quick	375% Quick	750% Quick	6	417% Quick	833% Quick
4	600% Quick	750% Quick	1500% Quick	3	833% Quick	1667% Quick
2	1200% Quick	1500% Quick	3000% Quick	2	1250% Quick	2500% Quick
1	2400% Quick	3000% Quick	6000% Quick	1	2500% Quick	5000% Quick

IMPORTANT

-In order to go into the “S&Q Motion” mode, the camera needs to be in manual mode

-For AVCHD S&Q Motion, please use SD Card Class 10 or higher
XAVC format needs SDXC UHS-I U3 cards.

-“S&Q Motion” is only available for 1920x1080 progressive framerates.
Cannot use the functions below during S&Q

- NO audio recording,
- “SIMULTANEOUS REC” nor “RELAY REC”

TIPS

Frame rate can be easily changed by using one of the Assign Buttons for S&Q and then press this button longer after S&Q is activated.

Super Slow motion

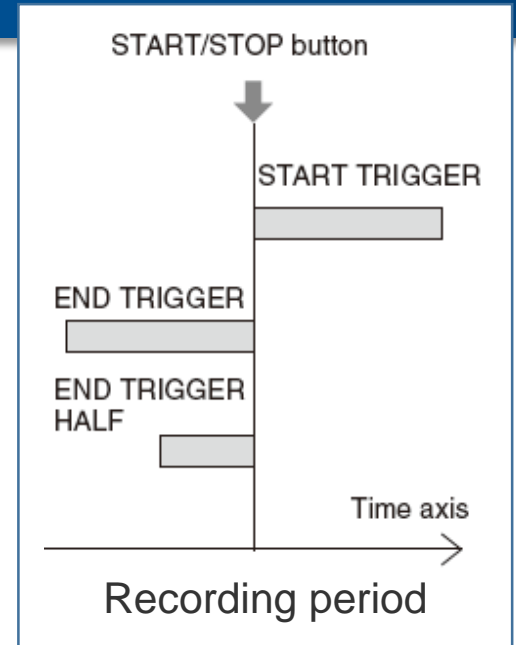
Start, End and End Half trigger

PXW-Z90V / PXW-Z90T has 3 trigger modes.

Recording can be stopped anytime when START TRIGGER is selected.

Recording time limitation table

During Super Slow Motion shooting, the readout from the image sensor is temporarily stored in the internal high speed cache memory. Then the data is processed into recording format and is written to the MS/SD memory. Thus the shooting clip length is limited by the internal cache memory capacity.

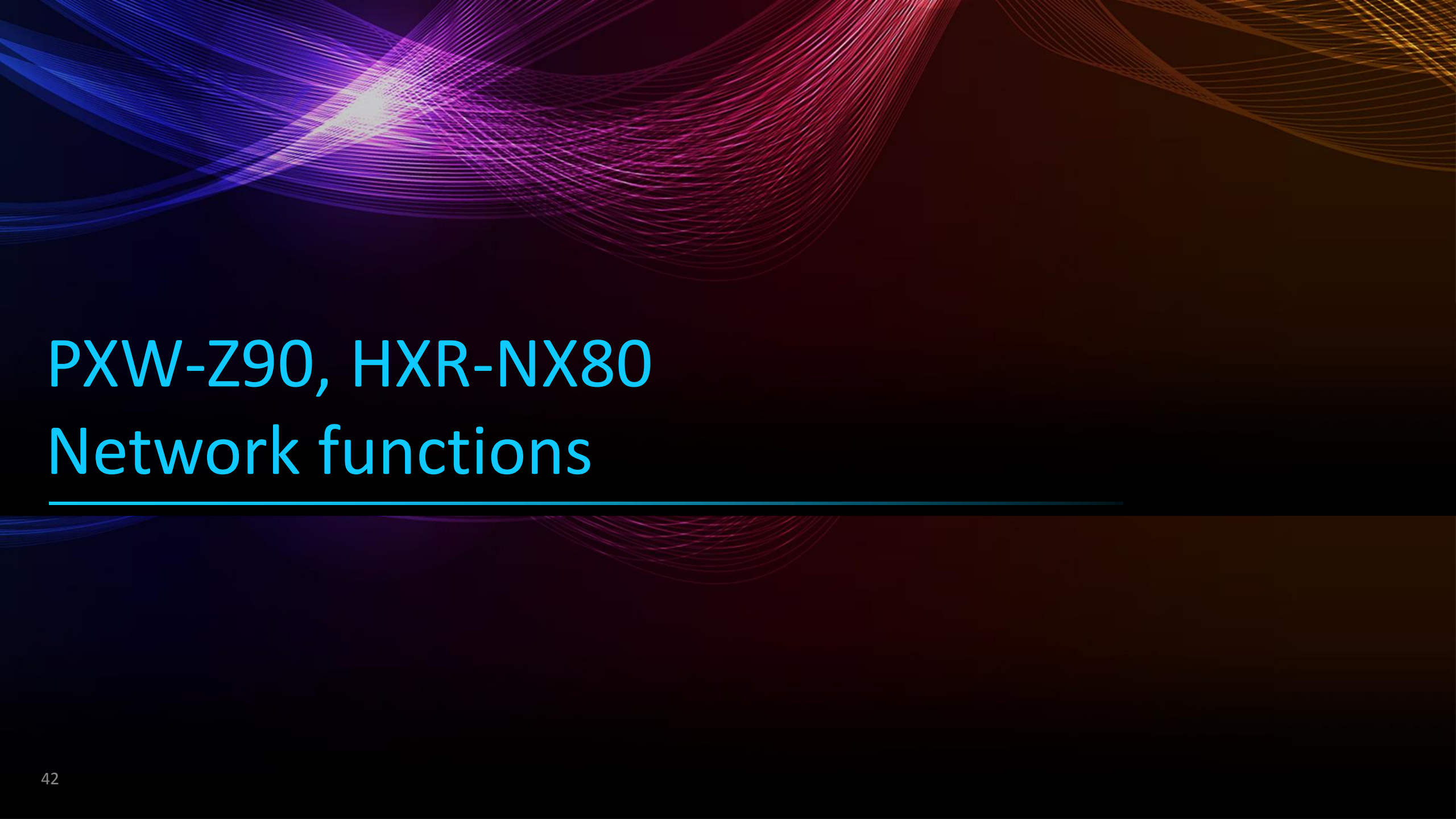


<60i>

fps	240fps	480fps	960fps
STAR TRIGGER (max)	approx. 5sec	approx. 4sec	approx. 3sec
END TRIGGER	approx. 5sec	approx. 4sec	approx. 3sec
END TRIGGER HALF	approx. 2sec	approx. 2sec	approx. 1sec

<50i>

fps	250fps	500fps	1000ps
START TRIGGER(max)	approx. 5sec	approx. 4sec	approx. 3sec
END TRIGGER	approx. 5sec	approx. 4sec	approx. 3sec
END TRIGGER HALF	approx. 2sec	approx. 2sec	approx. 1sec



PXW-Z90, HXR-NX80

Network functions

Main differences: Network

HANDYCAM

FDR-AX700
1,600 €



* Tentative prices

NXCAM

HXR-NX80
2,000 €



XDCAM

PXW-Z90V / PXW-Z90T
2,400 €



Remote & Wi-Fi monitoring

2.4GHz

Play Memories (PC/MAC)

Play Memories (for Mobile)

Wireless TC Link
*Paid License CBKZ-WTCL

Streaming to Network servers

Streaming to Ustream

Remote & Wi-Fi monitoring

2.4GHz

Content Browser (PC/MAC)

CBM – Content Browser Mobile (for Mobile)

QoS streaming to XDCAM AIR

FTP transfer to servers

Wireless TC Link
*Paid License CBKZ-WTCL

Streaming to Network servers

Streaming to Ustream

Remote & Wi-Fi monitoring

2.4GHz & 5 GHz

Content Browser (PC/MAC)

CBM – Content Browser Mobile (for Mobile)

Network Related Features HXR-NX80

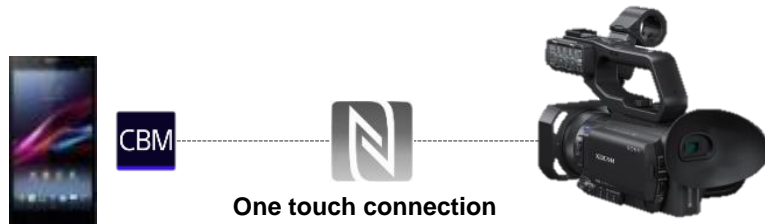
Rich functions for Professional shooting



Built in 2.4GHz

Remote

- ❑ Wi-Fi monitoring (Tablet/Smartphone for viewing)
- ❑ Camcorder Remote Control
- ❑ Wireless TC Link *Paid License



Streaming

- ❑ Streaming to USTREAM
- ❑ Streaming to Network servers



Network Related Features PXW-Z90

Rich functions for Professional shooting



Built in 5GHz & 2.4GHz

FTP

5GHz WiFi
Low radio interference

- File Transfer to any servers



Remote

5GHz WiFi
Low radio interference

- Wi-Fi monitoring (Tablet/Smartphone for viewing)
- Camcorder Remote Control
- Wireless TC Link *Paid License



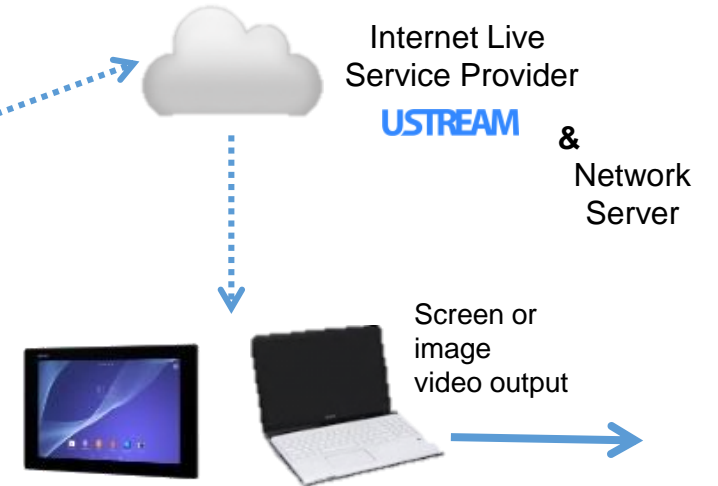
One touch connection



Streaming

5GHz WiFi
Low radio interference

- Streaming to USTREAM
- Streaming to Network servers



XDCAM air

5GHz WiFi
Low radio interference

- QoS Streaming to XDCAM air



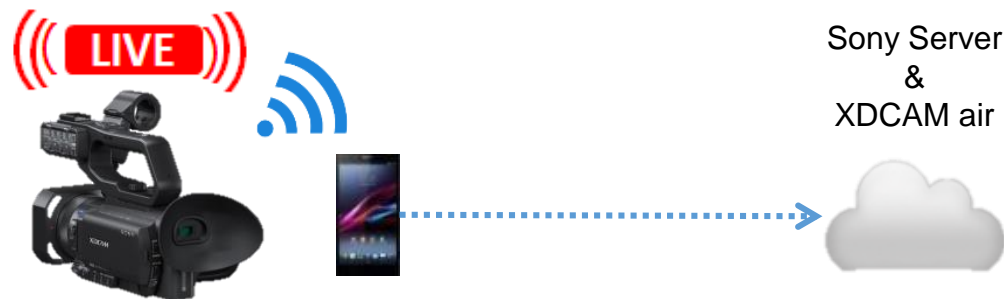
Network Related Features PXW-Z90

Rich functions for Professional shooting



QoS Streaming

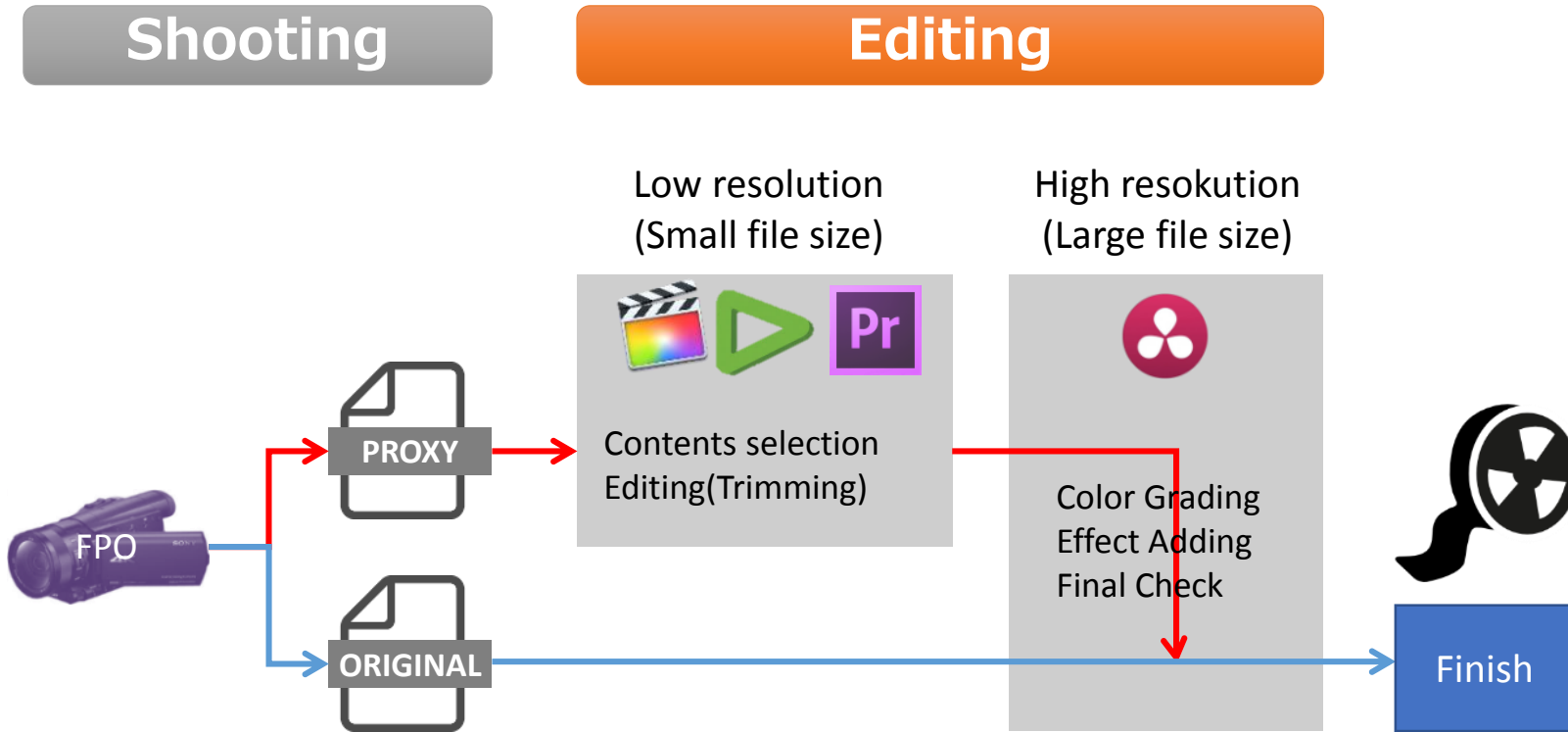
5GHz WiFi
Low radio interference



	1280x720	960x540	640x360	480x270
PXW-X70	✓	-	✓	-
PXW-Z90	✓	-	✓	✓
CBK-WA100	✓	✓	✓	✓

XAVC Proxy Recording

Simultaneously records 4K and low resolution Proxy file for effective footage checking and post-editing work flow.



Use Case



Wedding Video



Newsflash(FTP transfer)

XAVC Proxy Recording

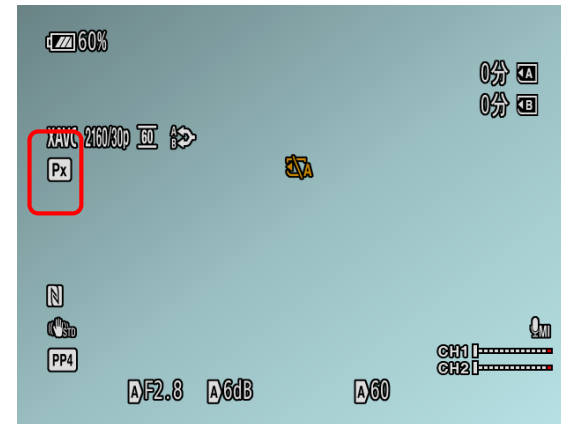
Simultaneously records 4K and low resolution Proxy file for effective footage checking and post-editing work flow.

File format

Original File (XAVC S)		Proxy File (XAVC S)					
Resolution		1280x720 (9Mbps)			640x360 (3Mbps)		
	Frame Rate	60/50p	30/25p	24p	60/50p	30/25p	24p
3840x2160 (100/60Mbps)	30/25p		Yes			Yes	
	24p			Yes			Yes
1920x1080 (50Mbps)	60/50p	Yes			Yes		
	30/25p		Yes			Yes	
	24P			Yes			Yes

Proxy icon

REC

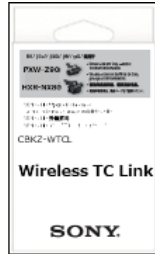


Playback



* Proxy files cannot playback on the camcorder.

**Paid
License**



CBKZ-WTCL

Release Start: Nov, 2017 / Price: TBD



Free camera angle & Easy Way for multi camera operation

Paid license about “Wireless TC Link” function.
This function is synchronization Timecode using wireless.



Main Feature

A) Using timecode of one camcorder which customer chose




B) Set any timecode from CBM (using current time or any value)



Simple Live Solution

Now it's easy for small team to produce broadcast-quality live events with Tally.
A red PGM and green NEXT indicates on a screen.





PXW-Z90, HXR-NX80

Other features

OLED True Finder and Wide LCD

Higher resolution OLED True finder and wide LCD screen for high contrast, colorful images make easy to set angles and check focus.

OLED
Tru-Finder

OLED Tru-Finder
(0.39-type 2,350k dot)



1.6x higher
resolution
than AX100

Wide LCD
(3.5t-type 1,555k dot)

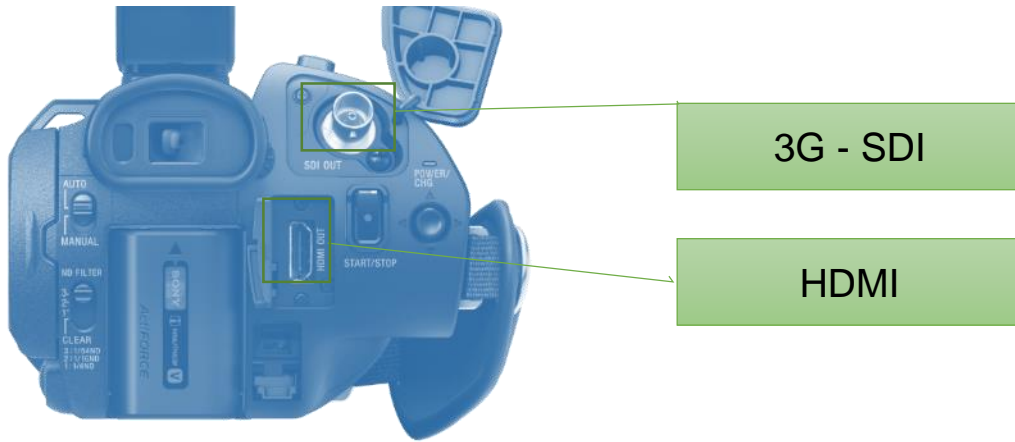


1.7x higher
resolution
than AX100

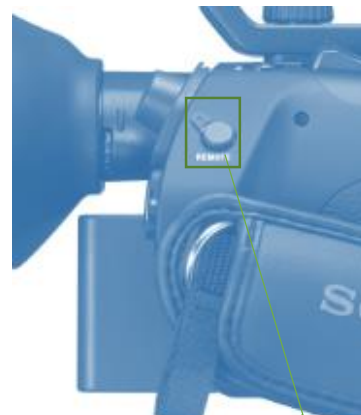
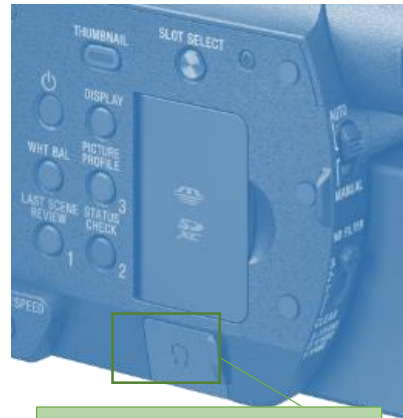
Output Connectors PXW-Z90

PXW-Z90

Variety of external input / output terminals to help professional video production



1. HDMI out **with** TC embedded & Rec Trigger
2. 3G-SDI with Rec trigger & TC



IMPORTANT
HDMI and SDI CANNOT output simultaneously

Built-in Multi Interface Shoe

The MI Shoe on top has several possibilities to be used for:

- 1) To attach the supplied XLR handle unit → will allow Rec Start/Stop, Zoom & Audio Control
- 2) To attach the new UWP-D Receiver → No need to use batteries. The Receiver will be powered by the camera.



MI Shoe

- SMAD-P3 / P3D needed



IMPORTANT

When the XLR handle unit is attached to the MI Shoe it is no longer possible to use the MI Shoe features for the UWP-D Receiver. The handle itself only comes with a standard cold shoe.

VERY IMPORTANT

The battery video light "HVL-LBPC" CANNOT be recommended. This is due to the battery regulation (over weight)

Battery Operation Time

	Continuous Rec. Time	Actual Rec. Time	Playback Time
NP-FV70A	155min	75min	255min
NP-FV100A	285min	140min	455min

All numbers are approx.

















NP-FV70A



NP-FV100A








Included Accessories

Item		Item	
AC Adaptor (AC-L200D)		XLR handle unit	
Power code		USB cable	
RMT-845 (Remote)		NP-FV70A (Battery)	
Large eyecup		Manual CDROM	
Lens hood		Manual (Paper)	
Lens cap		Warranty	
Accessory shoe kit		Catalyst Browse S/N	

Accessoary Chart

★ Available from Sony authorized professional dealers

Power

<p>Rechargeable Battery Pack NP-FV50A</p> 	<p>Rechargeable Battery Pack NP-FV70A</p> 	<p>Rechargeable Battery Pack NP-FV100A</p> 	
<p>Battery Charger BC-TRV</p> 	<p>Battery Charger BC-QM1</p> 	<p>AC Adaptor AC-L200</p> 	<p>AC Adaptor AC-VQV10</p> 



Microphone

<p>Stereo Microphone ECM-XYST1M</p> 	<p>Gunzoom Microphone ECM-GZ1M</p> 	<p>Shotgun Microphone ECM-CG60</p> 	<p>Shotgun Microphone ECM-MS2 ★</p> 	<p>Shotgun Microphone ECM-VG1 ★</p> 
<p>Wireless Microphone ECM-W1M</p> 	<p>Mi-Shoe Adaptor For wireless mic SMAD-P3D</p> 	<p>Wireless Microphone UWP-D★</p> 	<p>XLR Adaptor Kit XLR-K2M</p> 	<p>XLR Adaptor Kit XLR-K1M</p> 

Light

<p>Battery Video IR Light HVL-LEIR1</p> 	<p>Battery Video Light HVL-LE1</p> 
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Licences

<p>MPEG 422 licence For PXW-Z90 only CBKZ-SLMP</p> 	<p>Wireless TC link PXW-Z90/HXR-NX80 CBKZ-WTCL</p> 
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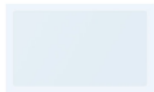



Tripod/Remote

<p>Remote Control Tripod VCT-VPR1</p> 	<p>Remote Control Tripod VCT-VPR10</p> 	<p>Remote Commander & IR Receiver Kit RMT-VP1K</p> 
<p>Remote Commander RM-VPR1</p> 	<p>Remote Commander RM-1BP ★</p> 	<p>Remote Commander RM-30BP ★</p> 

Case

<p>Soft Carrying Case LCS-U30</p> 	<p>Soft Carrying Case LCS-VCC</p> 	<p>Soft Carrying Case LCS-G1BP ★</p> 
<p>Soft Carrying Case LCS-SL20</p> 	<p>Soft Carrying Case LCS-PSC7</p> 	<p>Carrying Backpack LCS-BP1BP ★</p> 

Others

<p>MC Protector VF-62MPAM</p> 	<p>Circular PL Filters VF-62CPAM</p> 	<p>LCD Protect Sheet PCK-LS35W</p> 
<p>Mi-Shoe Adaptor SMAD-P3D</p> 	<p>Camcorder Support VCT-SP2BP ★</p> 	<p>HDMI Cable (Type A) DLC-HJ10/20</p> 

*5GHz have the effect of radio frequency interference

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PXW-Z90, HXR-NX80 Recording Media



XDCAM

PXW-Z90

Supported Media

XAVC

MPEG HD422

AVCHD
Progressive



Card
SDXC
UHS-I
U3
exFAT
240Mbps



NXCAM

HXR-NX80

Supported Media

XAVC S

AVCHD
Progressive

Recording Time

XAVC QFHD Recording Time [min]

		100Mbps	60Mbps
64GB	3840x2160	65	100

XAVC HD Recording Time [min]

		50Mbps	35Mbps	25Mbps
64GB	1920x1080	120	170	220
	1280x720	120	--	--

AVCHD Recording Time [min]

		PS	FX	FH	HQ
16GB	LPCM	70	80	110	185
	AC3	75	90	120	215
32GB	LPCM	145	170	225	375
	AC3	150	180	245	440
64GB	LPCM	290	340	450	750
	AC3	305	360	495	880