SONY

VENICE 2



Presentation V2.0 with Rialto 2

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Trusted Creative Partner

Remarkable Image

Simple and Intuitive

Shot on VENICE

WINTERSO MANTINEAU HARRESON MA RAINEY'S Uncle Frank 30 COINS **BIG SKY** Pretend It's a City CLICKBAIT - HBOMOX -----CODA -----JUPITERS LEGACY SMALLOAXE LIFE ANNETTE STREET SULT 9 ANAZON ORIGINAL SILENCE OF THE TIDES ROWN CHERRY BRIDGERTON MAN BMC+ 6.13

Shot On Sony | Sony Cine

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Digital Motion Picture Camera VENICE 2 Since February 2022

Outline of New Digital Motion Picture Cameras



VENICE 2

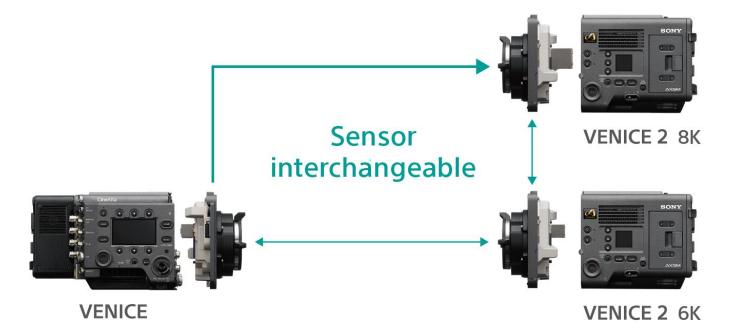
- Since February 2022
- Supporting 8.6K and 6K image sensor
- Compact and X-OCN internal Recording
- 4K ProRes internal Rec
- An evolved product design based on VENICE
- Almost same I/O and screw holes for accessories

 \mathbf{SO}

- Lots of updates based on VENICE users' voices
- High speed 6.6Gbps AXS card for 8K 60p recording
- Image sensor interchangeable
- Version 2 January 2023

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Sensor interchangeable between other models



Powerful image sensor



- Two 36x24mm Full-Frame image sensors
- Newly developed 8,640x5,760 pixels in 8K model
- VENICE's 6K sensor is kept in 6K model
- Color Reproductions are synced between two
 models for intuitive post workflow

Full-Frame width 36mm 8K





• 8K high resolution

- Recording directly in X-OCN
- Enough size of one pixel for getting light from lenses

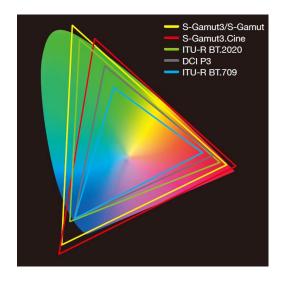
• Extra shallow depth of field

 images have the equivalent of 1-2 stops shallower depth of field compared to Super 35

Super wide shooting

- Larger sensor captures wider images
- 8K to 4K over sampling recording to 4K ProRes
 - 4K ProRes can be captured onto AXS card while still sampling from the 8K sensor

More Colors for More Expression



• Wider color gamut

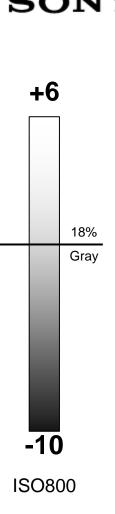
– Exceeding BT.2020 color space.

Same specification between both, and VENICE

- Two image sensors has same specification about color reproduction.
- In one project, combined image sensors operation is possible
- Uses S-Gamut3 color space as same as F65 and F55.
- Easy color control by established workflow of Sony S-Log3 gamma encoding, and S-Gamut3 Ultra-wide color space.

Phenomenal latitude in 8K image sensor

- Creative freedom in Grading by 16 stop Latitude
 - Exceptional 16 stops of latitude, with low noise for extraordinary performance in delivering phenomenal images
 - Capture 6 stops in higher from 18% gray and 10 stops in darker from 18% gray in ISO800 as native sensitivity
 - Also Supporting HDR production

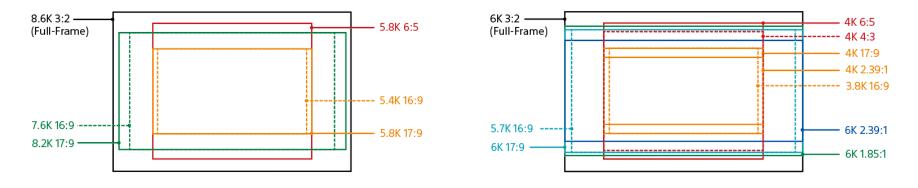


Dual Base ISO

- Switchable Dual Base ISO Sensitivity
 - In night and inside dark scene, they need to push Exposure Index (EI) but it is noisier. High Base ISO is effective
 - By using high ISO, lighting equipment is less
 - Additionally Anamorphic lens is basically "slow" lens (Open Iris is F2.8 or darker) so higher ISO sensitivity is required compared to spherical lens shooting



Full-Frame supports several imager size



Wide 36mm Large format with Spherical lens

Hight 24mm Large format with Anamorphic lens

Super35 4 perforation Anamorphic lens



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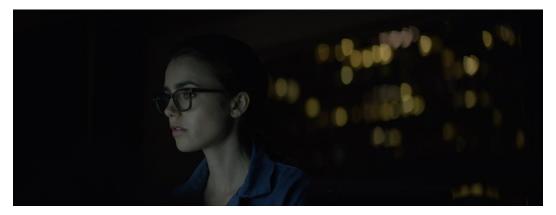






Super 35 3 perforation Spherical lens

5.8K and 4K in Super 35 Anamorphic



- High resolution anamorphic
 - Support for anamorphic lenses combined with horizontal resolution of 4K
- Anamorphic lens effect
 - Breathtakingly beautiful images with stunning lens flare, bokeh, Wide-shot and emotional impact

• Additional 6:5 imager mode

– Supports Super 35 6:5 larger scope for wider and higher resolution cinema scope production



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Supporting all major of motion picture lenses in the market



SONY Most popular lens mount and an additional



Screws for attaching lens adaptor

PL mount

- Compatible with all Super35 and Full Frame PL lenses, spherical and anamorphic
- Supports Cooke/i Technology and lens information is recorded as metadata frame by frame
- compatible with Cooke's /i third generation metadata technology (/i3) and ZEISS eXtended Data Technology for Lens distortion and shading metadata
- Sim for adjusting Flange back is available in E-PL lens adaptor



Lever lock for Emount lenses

E-mount (lever lock type)

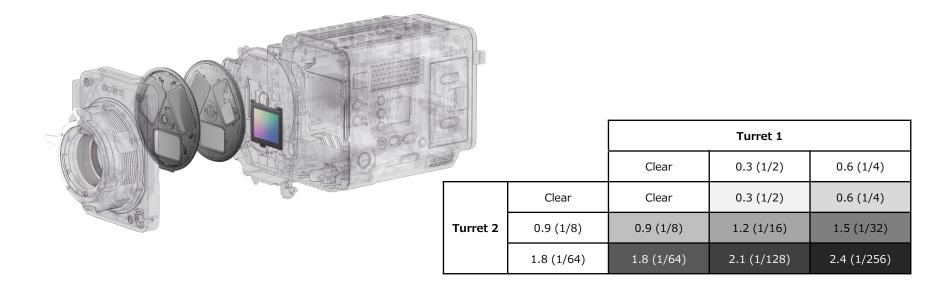
- first camera of its class to offer the choice of swapping out the default PL Mount adaptor by six screws for E-mount
- Allows unprecedented lens choice and creative freedom



Lens mount screws are updated for avoiding drop

8-step glass ND Filter system





- Two turrets with Servo has three glass filter in each
- Quick change Zero time changing glass ND Filters in Matt box -
- Avoiding dust issue and color shifting for changing ND filters
- Remotely control by Controllers or Wi-Fi in the crane, gimbal, underwater

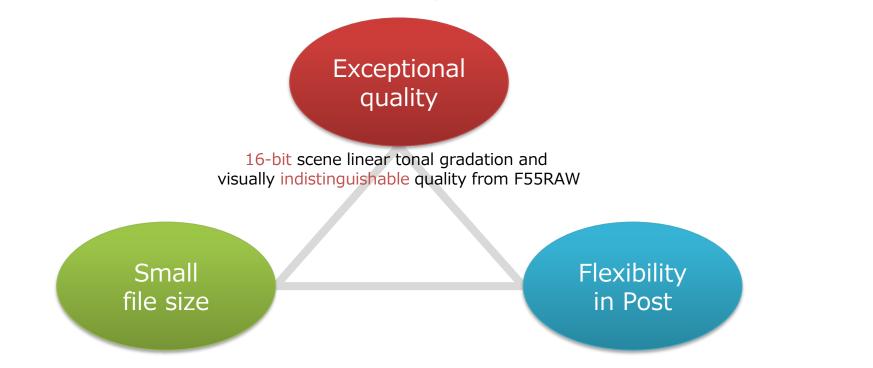
Internal X-OCN and 4K ProRes Recording

X-OCN ProRes 4K



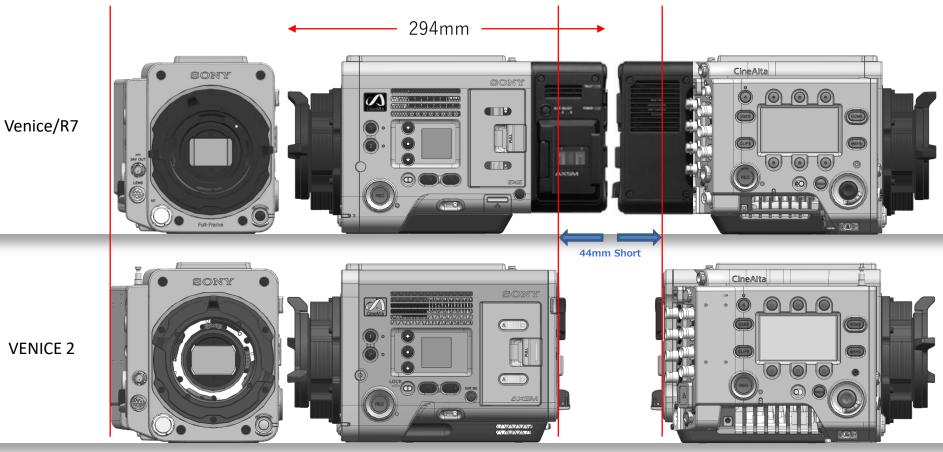
- Without RAW Recorder
- Two AXS slots inside
- Relay rec is supported
- Cache rec is supported
 - Cache rec memory is double compared to VENICE
- 4K ProRes is available in 17:9/16:9 and 6:5 de-squeezed mode

Most Suitable format for HDR production: X-OCN **SONY**

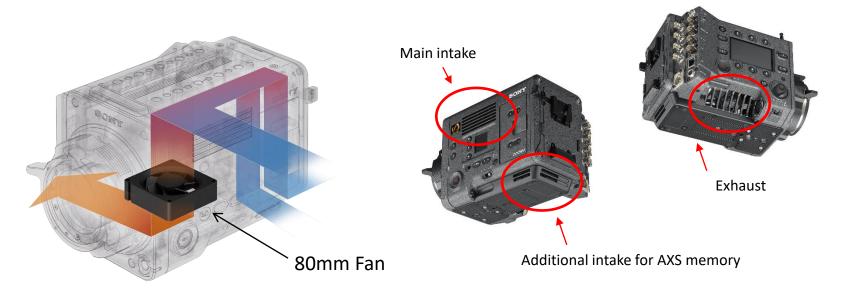


smaller file sizes than F55RAW longer recording times and faster transfer times non-destructive and full potential of the original sensor data far greater decision-making flexibility in Post Production

Comparison (vs VENICE with R7)



Engineered to Survive: Ventilation



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Ventilation system is completely separated from electric boards and parts

Improved useful Outputs and Inputs





Updated points from VENICE

- 12G-SDI from SDI1/2 and simultaneously 3G HD-out from SDI3/
- 3D LUT apply in 4K output
- All output can apply LUT simultaneously
- El Applied in SDI1/2 and ProRes Recording
- Lemo 12V output connector
- Ethernet connector to Camera Assistant side
- Internal noise mic

Other functions

- [Updated] Zoom to Fit
- [Updated] LUT/ART/CDL import via Ethernet/Wi-Fi
- [Updated] CDL control via Ethernet/Wi-Fi
- [Updated] improved LUT quality
- [Updated] 4K Output usability
- [Updated] SDI1/2 EI Applied
- [Updated] improved Grids of 3D LUT
- [Updated] Improved OSD
- [Updated] Rec Tally overlay
- [Updated] ACES RRT update
- [Updated] added Input color space ACEScct
- [Updated] False color chart

New function: Zoom to Fit in V1.0

Full-Frame 3:2 recording with 17:9 monitoring

Customer's request/pain

For post processing, Full Frame recording is required such as VFX and Re-Framing but Director and on-set people want to see larger area without black-pillars

X-OCN 3:2 imager mode All SDI/HDMI/VF output Cut top and bottom images



Monitoring in VENICE



Monitoring in VENICE 2 Zoom to Fit

New function: LUT/ART/CDL file import via Ethernet/Wi-Fi **SONY**

VENICE





Export and copy LUTs to SD Card

VENICE 2





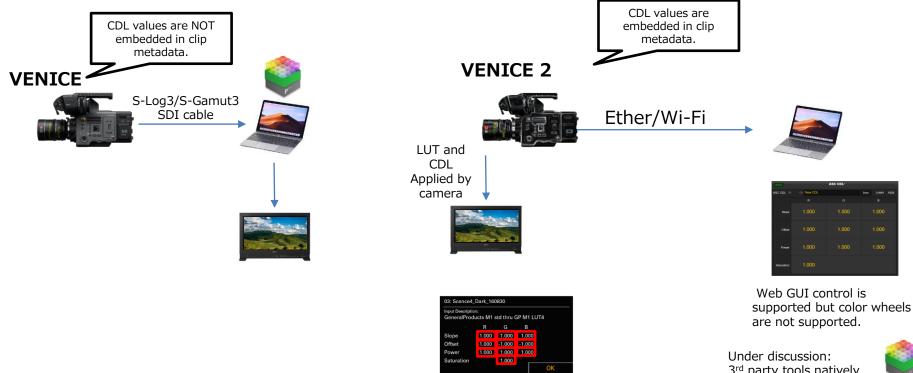
Sony VENICE control by Web GUI



Under discussion: 3rd party tools natively send LUT/CDL files from tool GUI.



SONY New function: ASC-CDL values control via Ethernet/Wi-Fi



Camera menu for control CDL by Rotary Encoder

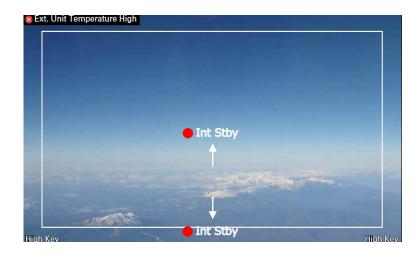
3rd party tools natively send LUT/CDL files from

tool GUI.



Update: Rec indicator overlay

- For small monitor Pinch&Zoom operation and who want to see larger images in VF/monitor, VENICE 2 has "Clean out with Rec tally only overlay"
- This info can be moved from bottom to center vertically







Recording media

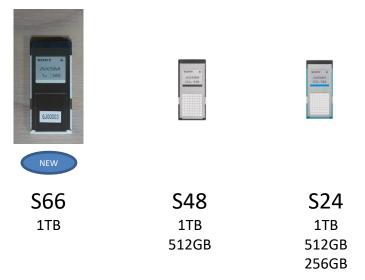
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VENICE image will be updated

High speed AXS Memory

- Maximum 6.6Gbps write speed
- Supporting 8.6K 3:2 X-OCN XT 30p recording
- Supporting 8.2K 17:9 X-OCN ST 60p recording
- Supporting 6K 3:2 X-OCN XT 60p recording
- Backward compatibility
 - AXS-R7 (even with F55/F5) is supported

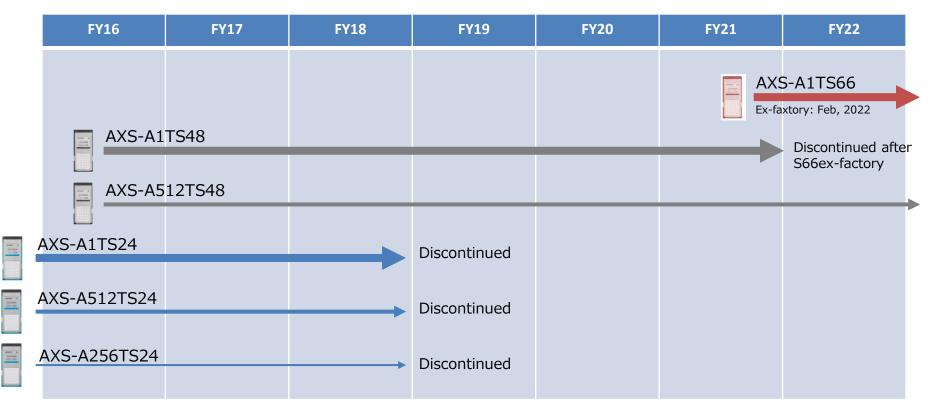




AXS Memory card reader AXS-AR3 Thunderbolt 3TM connection for Win and Mac

AXS Memory lineup

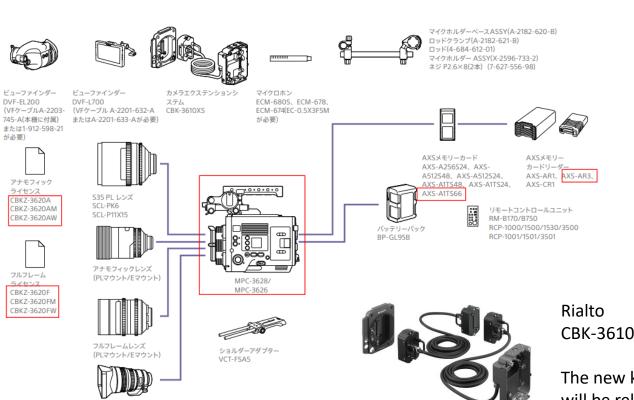




Accessories

DVF-EL200

が必要)



Eマウントレンズ SELP28135G、SEL1635GM、SEL2470GM、SEL70200GM、SEL100400GM SEL1224G、SEL35F14Z、SEL50F14Z、SEL85F14GM、SEL90M28G、SEL100F28GM CBK-3610XS supports 6K imager block.

The new kit supporting 8K imager block will be released in early 2023.

New 8K Digital Motion Picture Camera



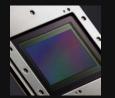
VENICE



8.6K Full-Frame in V1.0				
8.6K	3:2	30 FPS		
8.2K	17:9/16:9	60 FPS		
5.8K	6:5	48 FPS		
5.8K	17:9/16:9	90 FPS		

- X-OCN Internal Rec. (without R7)
- 4K ProRes Internal Rec.
- 4K LUT output and other improvements





Newly Developed 8.6K Full-Frame CMOS



Dual Base ISO 800/3200



Internal ND 8 Position



New AXS S66 For 8.6K 3:2 30p XT rec. 8.2K 17:9 60p ST rec.



Same Operation With VENCE UI, Modular, I/O



VENICE 2 with 8K image sensor Product Outline **SONY**

Next Generation 8K Digital Motion Picture Camera

<u>8.6K Full-Frame Image Sensor</u>

- Full-Frame 8.6Kx5.8K 3:2 up to 30FPS
- 8.2Kx4.3K 17:9 up to 60FPS
- Like VENICE, several imager modes will be installed for Super 35mm, Anamorphic and HFR shooting in firmware version up
- 16 Stop total Latitude and same color reproduction with VENICE
- 800 and 3200 dual base ISO

• X-OCN internal recording and ProRes 4K recording by small body

- Almost same body size with VENICE (w/o R7) and X-OCN internal Recording
- Newly support 4K ProRes recording from 8.6K sensor by oversampling
- Two AXS Memory media slots supporting Relay rec.
- XAVC 4K/HD is NOT supported, and Simultaneous Rec. is NOT supported

Improvements from VENICE based on Voice Of VENICE Users

- 4K LUT applied and higher grids cube file's picture quality than VENICE
- LUT/ACS-CDL control via Ethernet/Wi-Fi
- Zoom to Fit (Full-Frame recording and 17:9/16:9 monitoring) operation
- Ethernet connector position changed to Camera Assistant side
- Lemo 2pin 12V output connector from Hirose 4 pin
- Internal mic installed
- And others

• Sensor Interchangeable with VENICE 2 6K and VENICE OHB block

- Users can change to 6K OHB block (VENICE 2 6K and VENICE)
- Camera body recognizes changing OHB block and start-up automatically (no need firmware exchange or re-install)



Target Users

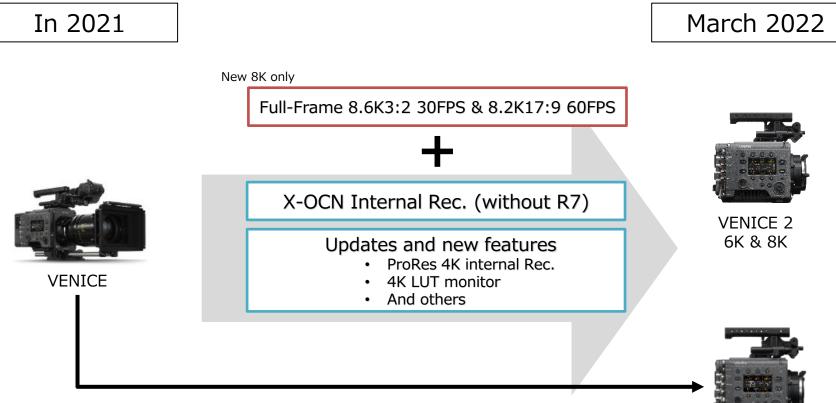




	VENICE 2 with 8K Sensor	VENICE 2 with 6K Sensor
High-end DMC (Drama, Movie, Commercial)	 Over sampling 8K to 4K high picture quality Trimming from 8K picture 	 Compact and light weight from VENICE ProRes 4K Internal Rec for ProRes user Lots of improvement from VENICE
VFX • VR	 Effective VFX post-production work by 8K 8K60p VR production 	Compact and light weight from VENICE
8K 50p/60p production	8K broadcast prod. mainly Asia courtiers	• -
Live production	 Over sampling 8K to 4K 700p and pain menu control like VENICE 	 Compact and light weight from VENICE 700p and pain menu control like VENICE
Documentary Archiving	 8K picture quality Compact and light weight from VENICE 	 Compact and light weight from VENICE ProRes 4K Internal Rec for ProRes user Lots of improvement from VENICE

VENICE series line up in 2022





Continuously keep line-up for XAVC Cinema Camera

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Rialto 2

Extension Sensor System

3m and 12m

One KIT, 2 cable lengths : 3m and 12m



Compatible with VENICE and VENICE2 with firmware update

- <u>VENICE V6.3</u>
- <u>VENICE2 V2.0</u>

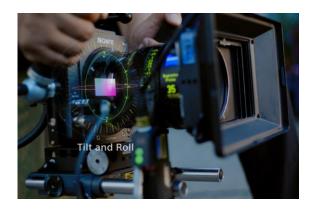
RIALTO 2 : New Features

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• 4 x ASSIGN BUTTONS (5 to 7).



• When the imager block is extended, spirit level, gauge information of the extension can be displayed.



VENICE V6.3

CBK-3620XS Camera Extension System support

- Connection with a CBK-3620XS Camera Extension
- System is supported.
- Supports configuration of CBK-3620XS
- assignable buttons (5 to 7).
- When the imager block is extended, spirit level
- gauge information of the extension can be
- displayed.

Firmware version display at startup

- When the camera is turned on, the firmware
- version is now displayed at the same time as the
- CineAlta mark.





Security

The security function has been enhanced.

VENICE 2 Firmware Version 2.0

New Extension system support •Supporting the mounting of RIALTO 2

•ProRes 4444 XQ

Additional imager modes

•8.6K 17:9 up to 48 FPS •8.2K 2.39:1 up to 72FPS •8.1K 16:9 up to 48FPS •5.8K 4:3 up to 60FPS •5.5K 2.39:1 up to 120FPS

Recording function

LUT and CDL are embedded in clips

Monitor Out function

Zoom to Fit for Anamorphic lens operation
Position change of recording status icon
Output the same image as viewfinder from Monitor out
Change brightness and transparency of Frame Line

Shooting assist function

The area for focus Magnifier can be selected
Playback function
Displaying the playback position in the clip
Frame-by-frame playback
Applying EI recorded in metadata when playback a clip
Sync function
Phase shifting of Genlock
Display of locked frequency when Genlock
In HFR shooting, Genlock is available when the frame rate (fps) is N-fold* of the Genlock frequency *N must be 2 or above. When N is 1, Genlock is not available

Boot-up

•When the power is turned on, the sensor (8K or 6K) and firmware version are displayed



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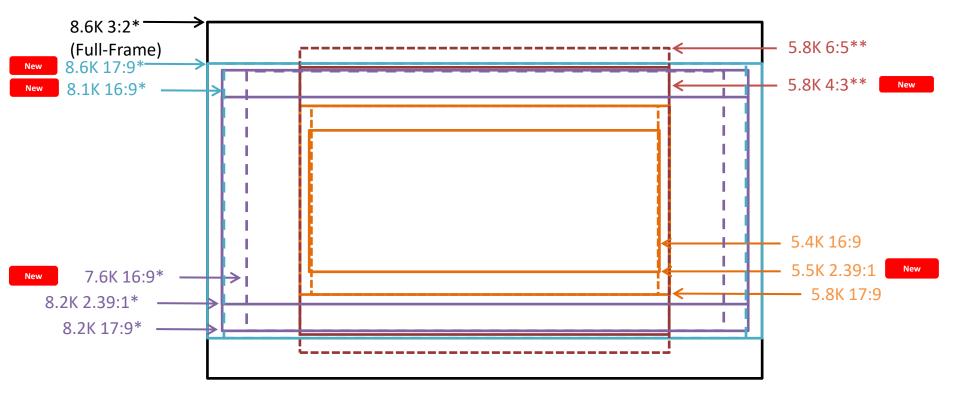
VENICE2 V2.0

CBK-3620XS Camera Extension System connection function

- Connection with a CBK-3620XS Camera Extension System is supported.
- Supports configuration of CBK-3620XS assignable buttons (5 to 7).
- When the imager block is extended, spirit level gauge information of the extension can be displayed.



Added imager modes for 8K sensor



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VENICE2 V2.0 : Recording format

Imager	Max	X-OCN			4K/QFHD ProRes		
mode	FPS	LT	ST	XT	422 HQ	4444	4444 XQ
5.4K 16:9	90	\checkmark	\checkmark	75	75	60	60
5.5K	120	~	~	110	75	60	60
2.39:1							
5.8K 17:9	90	\checkmark	\checkmark	75	75	60	60
5.8K 4:3	60	~	~	\checkmark	√ *	√ *	✓ *
5.8K 6:5	48	\checkmark	\checkmark	\checkmark	√ *	√ *	✓ *
7.6K 16:9	60	\checkmark	\checkmark	30	\checkmark	\checkmark	\checkmark
8.1K 16:9	48	\checkmark	>	30	\checkmark	\checkmark	\checkmark
8.2K 17:9	60	\checkmark	\checkmark	30	\checkmark	\checkmark	\checkmark
8.2K	72			50	\checkmark	60	60
2.39:1	12	~	`	50	`	60	60
8.6K 17:9	48	>	\checkmark	30	\checkmark	\checkmark	\checkmark
8.6K 3:2	30	\checkmark	\checkmark	\checkmark	✓ **	√ **	√ **

Imager	Max	X-OCN		4K/QFHD ProRes			
mode	FPS	LT	ST	XT	422 HQ	4444	4444 XQ
3.8K 16:9	110	\checkmark	\checkmark	\checkmark	90	60	60
3.8K 16:9 SV	48	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4K 2.39:1	120	\checkmark	\checkmark	\checkmark	90	60	60
4K 17:9	110	\checkmark	\checkmark	\checkmark	90	60	60
4K 17:9 SV	48	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4K 4:3	75	\checkmark	\checkmark	\checkmark	√ *	60*	60*
4K 4:3 SV	30	\checkmark	\checkmark	\checkmark	-	-	-
4K 6:5	72	\checkmark	\checkmark	\checkmark	√ *	60*	60*
5.7K 16:9	72	\checkmark	\checkmark	\checkmark	\checkmark	60	60
6K 2.39:1	90	\checkmark	\checkmark	\checkmark	75	60	60
6K 17:9	72	\checkmark	\checkmark	\checkmark	\checkmark	60	60
6K 1.85:1	72	\checkmark	\checkmark	\checkmark	-	-	-
6K 3:2	60	\checkmark	\checkmark	\checkmark	✓ **	✓ **	√ **

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* QFHD is also available when Zoom to Fit is 16:9.

** 4K : Available when Zoom to Fit is 17:9. QFHD: Available when Zoom to Fit is 16:9.

Max FPS of V2 recording format

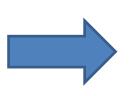
 \checkmark : Imager's Max FPS is available

NUMBER: Available lower Max FPS than Imagers'

LUT embeded in clips

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LUT is embeded in MXF

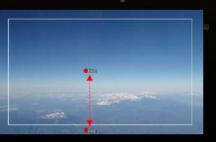
Quick applied on <u>RAW viewer 4.1</u>



A001C001_2205313F.mxf A001C001_2205313FL02.cub A001C001_2205313FD01.cdl

Monitor out function





Position change of recording status icon
Output the same image as viewfinder from Monitor out
Change brightness and transparency of Frame Line







With peaking





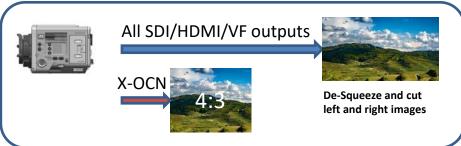
Zoom to Fit for Anamorphic lens operation **SONY**

V1.0:

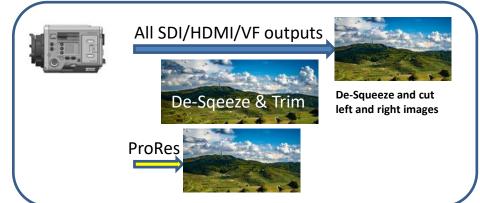


- Imager mode: 4:3
- De-squeeze: x2.0
- Monitoring: 16:9 monitor
- In 16:9 project, an effective area monitoring is very small

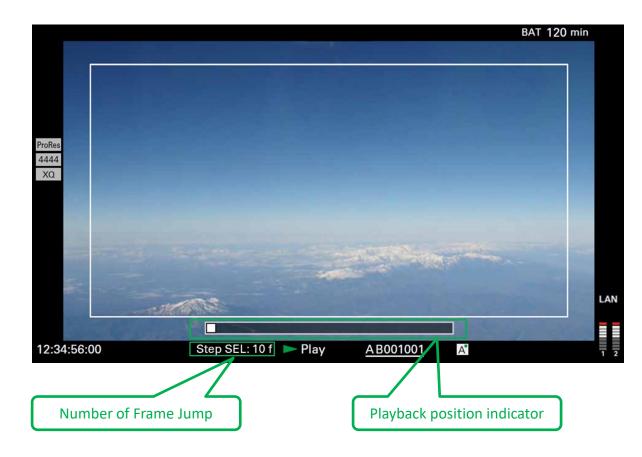
V2.0: X-OCN Anamorphic mode



V2.0: X-OCN Anamorphic mode



Playback function



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• Displaying the playback position in the clip

• Frame-by-frame playback

• Applying El recorded in metadata when playback a clip

Shooting assist functions

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The area for focus Magnifier can be selected

1. Upper Left	2. Upper Center	3. Upper Right
4. Center Left	5. Center	6. Center Right
and the second		
7. Lower Left	8. Lower Center	9. Lower Right
and the second		
	Rec	

Sync functions

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- Phase shifting of Genlock
- Display of locked frequency when Genlock
- In HFR shooting, Genlock is available when the frame rate (fps) is N-fold* of the Genlock, frequency *N must be 2 or above. When N is 1, Genlock is not available

Les sites Web VENICE à visiter:

- <u>VENICE</u>
- VENICE2
- Inside VENICE
 - Ressources
 - <u>Tools</u>
 - <u>Simulator</u>
 - LUT Downloads
 - <u>VENICE & VENICE 2 File size calculator</u>
 - <u>FAQ</u>
 - Logiciels
- <u>COMMUNITY</u>
- Logiciels utiles au WF