



4K V-RAW High End Camera Recorder

VariCam Pure

VariCam Pure is a camera system that has been designed by both Panasonic and Codex to capture the highest quality images in 4K RAW at up to 120fps with an industry-standard workflow via Codex's Production Suite

Key Features

Uncompressed 4K/120p V-RAW Recording with Codex

Super 35mm Native 4K sensor that provides true 4K images with a dynamic range of 14+ stops for HDR image capture

Modular Design of VariCam 35 camera module and the Codex's "V-RAW2.0" recorder

Industry-standard workflow via Codex Production Suite

Support with Apple ProRes and Avid DNxHR



codex®



VariCam Pure

<https://eu.connect.panasonic.com/file/products/broadcast-proav/varicam-pure>

General

Power	24 V
Power Consumption	91 W
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	10% to 85% (relative humidity)
Weight	5kg (11.0 lb)
Dimensions (W x H x D)	144 mm x 165 mm x 262 mm (5-11/16 inches x 6-1/2 inches x 10-11/32 inches)

Camera Section

Pickup Devices	Super 35 mm, MOS sensor
Number of Pixels	Total pixels: Approx.10.3 million pixels
Effective Pixels	Approx. 8.9 million pixels
Lens Mount	PL mount
Optical Filter	ND filter1: CLEAR, 2: 0.6 ND, 3: 1.2 ND, 4: 1.8 ND
Latitude	14+ Stops
ISO Setting	Native ISO: 800, 5000

800 Base: 200 to 4000

5000 Base: 1250 to 12800

Shutter Speed [deg] mode: 1.0 deg to 358 deg (0.1 deg step)

[sec] mode: 1/24 sec. to 1/250 sec. (for 24p)

Recorder Section

Recording Media	CODEX Capture Drive
Recording Resolution	4096 x 2160 (4K), 3840 x 2160 (UHD)
Recording Frame Rate Maximum	120 fps or 100 fps
System Frequency	59.94p, 50p, 29.97p, 25p, 24p, 23.98p
Recording Format	VRAW 4K 12 bit / 4K 10 bit / UHD 12 bit / UHD 10 bit
Recording Video Signal	4096 x 2160/59.94p, 50p, 29.97p, 25p, 24p, 23.98p

3840 x 2160/59.94p, 50p, 29.97p, 25p, 23.98p

Recording Time (with 2TB Capture Drive) 4K 12 bit / 23.98 fps: 100 min.

4K 10 bit / 23.98 fps: 112 min.

4K 10 bit / 120 fps: 22 min.

UHD 12 bit / 23.98 fps: 106 min.

UHD 10 bit / 23.98 fps: 119 min.

UHD 10 bit / 120 fps: 23 min.

Digital Video Process

Quantization	12 bit / 10 bit
Video Data Process	Uncompressed RAW
Digital Audio Process	

Recording Audio Signal	48 kHz / 24 bit, 2Ch
Head Room	18 dB / 20 dB MENU switching

Signal Input/Output

Video Output SDI Out 1-4	HD (1.5G) / 3G-SDI : 0.8 V [p-p], 75 ohm
Video Output MON Out 1/2	HD (1.5G) / 3G-SDI : 0.8 V [p-p], 75 ohm
Video Output VF Out	HD (1.5G) / 3G-SDI : 0.8 V [p-p], 75 ohm
Audio In/Out Input 1/2	XLR x 1 5pin
Audio In/Out Phones	Stereo mini jack
Audio In/Out Speaker	20 mm diameter, round x 1

Other Input/Output

Genlock In	HD (1.5 G) / 3G-SDI, 0.8 V[p-p], 75 ohm
TC In/Out	BNC x 1, Input / Output switching

Input: 0.5 V [p-p] to 8 V [p-p], 10 k ohm

Output: 2.0 V [p-p] ± 0.5 V[p-p], low impedance

DC In 24 V (10.5 V to 34 V) 2-Pin Fisher

DC Out/RS 24 V x3

DC Out 12 V x1

Lens 12-pin

LAN 100BASE-TX/10BASE-T LEMO

USB (Host) USB2.0 host : Type A connector, 4-pin

Control Panel 20-pin, control panel contact terminals

SD Card Slot	x1
	for Version Up
	3D LUT/ CDL file Upload and Save
	Set Up File Upload and Save
Control Panel LCD	3.5-type QHD color monitor, approx. 1.56 million dots
Features	HDR Ready
	In Camera Grading
	Meta Data Recording
Offload Formats From CODEX Production Suite	
ProRes 422 HQ	1920x1080 10-bit to 120 fps
	2048x1080 10-bit to 120 fps
	4096x2160 10-bit to 120 fps
	3840x2160 10-bit to 120 fps
ProRes 4444	1920x1080 12-bit to 120 fps
	2048x1080 12-bit to 120 fps
	4096x2160 12-bit to 120 fps
	3840x2160 12-bit to 120 fps
ProRes 4444 XQ	1920x1080 12-bit to 120 fps
	2048x1080 12-bit to 120 fps
	4096x2160 12-bit to 120 fps
	3840x2160 12-bit XQ to 120 fps
DN x HR 444	2048x1080 10-bit
	3840x2160 10-bit
	4096x2160 10-bit
DN x HR HQX	2048x1080 10-bit
	3840x2160 10-bit
	4096x2160 10-bit
DN x HR HQ	2048x1080
	3840x2160 10-bit
	4096x2160 10-bit