



## 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/nl/en/products/broadcast-proav/varicam-pure>

### General

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

### Camera Section

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

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

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

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

### Signal Input/Output

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

### Other Input/Output

<b>Genlock In</b>	HD (1.5 G) / 3G-SDI, 0.8 V[p-p], 75 ohm
<b>TC In/Out</b>	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

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