

PortKeys

BM51V

2000NITS 5.5" Wide Color Gamut Camera Control Monitor



Three-color Gamut Calibration



Wired Camera Control



New Peaking



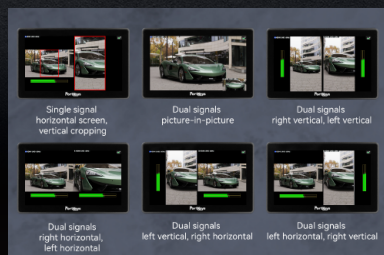
2000nits High-brightness Screen



Anamorphic



Recording Synchronized Silent Fan



Dual-screen Monitoring

Two screens can log the same 3D LUT file, supporting single signal horizontal screen, vertical cropping/dual signals picture-in-picture/dual horizontal/dual vertical/left horizontal right vertical/left vertical right horizontal
Note: Left and right screens can be flipped individually and mirrored.



Freeze Frame Overlay

Arbitrarily capture any frame of an image and do a semi-transparent overlay comparison with real-time video.

Image format: Only 16:9, 1920x1080 with the size not exceeding 1M; otherwise, the image cannot be overlaid



Custom False Color

77 selectable colors, 15 selectable segments, Satisfying diverse visual needs.

Manual Selection of Log Mode 3D LUT Loading and Output

REC.709, P3-D65, P3-DCI
User-mode customizable calibration

Auto-recognize Camera Wired Connection

Support auto connection of SONY, Canon, Panasonic, Z CAM, BMD

Output and Input Support Cross-transmit

Support HDMI and SDI signal output Simul

User Calibration

Generate a LUT with the X-Rite calibrator and import it into the monitor, no need for reverse calibration

User Config Store and Loading

Monitor settings can be saved to a USB drive and imported into the same model monitor

Custom Pages

Support 7 custom pages with one-click switching and different functions



PRODUCT INTRODUCTION

Basic Parameters

Screen Size	5.5"	Weight	350g
Color Gamut	85% DCI-P3	Material	Aluminum Alloy
Resolution	1920x1080	Input Voltage	DC 7~24V
Dimension	145.4x91.4x39.6mm	Maximum Power	16W
Viewing Angle	178°H/178°V	Fan	Yes
Brightness	2000nits	Power Input	4-pin Aviation
Contrast Ratio	1000:1	Operating System	CINENORM OS
Color Depth	10bit(8+2 FRC)		
Video Input	3G SDI, 4K60p HDMI		
Video Output	3G SDI, 4K60p HDMI		
Signal Conversion	HDMI and SDI Conversion		
Audio Output	3.5mm Headphone Jack		
USB-A	Upgrade Firmware / Load LUT		
Camera Control Interface	REMOTE		
TILTA Nucleus Control Interface	UART		
Support Battery Model	SONY NP-F970/F960/F750/F550		
Menu Language	English / Japanese / Russian / French / Spanish / Simplified Chinese / Traditional Chinese		

Software Function

3D LUT	Dual Screen	Peaking
Full-Featured Waveform	Vectorscope	Luma Histogram
Luma Waveform	RGB Histogram	RGB Waveform
Guides	Time Code	Cross Hair
ARRI False Color	Zebra	False Color
Image Capture	Audio Meters	Rectangle Crop
Anamorphic	Image Overlay	HDR(HLG)
Brightness	Grids	Check Field
Chroma	Camera Recording	Sharpness
Color Temperature	Contrast	Tint
Hardware Color Calibration	Custom RGB	Display Flip
1080p to 1080i	Battery (Level) Display	SDI TALLY
3D LUT HDMI Output	3D LUT SDI Output	
Full-Featured Waveform	Camera Dummy Battery Power	
Wired Camera Control	TILTA Nucleus Control and Focus Scale	
Optional Waveform Detection before/after Loading 3D LUT		

* Monitor does not have 3D LUT storage, 3D LUT must be stored and loaded via USB stick

HDMI Signal

4096×2160p@23.97Hz,24Hz,25Hz,29.97Hz,30Hz,50Hz,59.94Hz,60Hz
3840×2160p@23.97Hz,24Hz,25Hz,29.97Hz,30Hz,50Hz,59.94Hz,60Hz
1920×1080p@23.97Hz,24Hz,25Hz,29.97Hz,30Hz,50Hz,59.94Hz,60Hz
1920×1080psf@23.97Hz,24Hz,25Hz,29.97Hz,30Hz
1920×1080i@50Hz,59.94Hz,60Hz
1280×720p@50Hz,59.94Hz,60Hz
720×576p&720×576i@50Hz
720×480p&720×480i@50Hz,59.94Hz,60Hz

SDI Signal

1920×1080p@50fps,59.94fps,60fps
1920×1080p@50Hz,59.94Hz,60Hz YUV422
1920×1080p@23.98Hz,24Hz,25Hz,29.94Hz,30Hz YUV444/YUV422
1920×1080psf@23.98Hz,24Hz,25Hz,29.97Hz,30Hz YUV444/YUV422
1920×1080i@50Hz,59.94Hz,60Hz YUV444/YUV422
1280×720p@50Hz,59.94Hz,60Hz YUV444/YUV422

RED

RCP2	KOMODO KOMODO-X V-RAPTOR V-RAPTOR XL	REC FOCUS IRIS SHUTTER ISO FPS CT EV AUTO FOCUS TOUCH FOCUS AF/MF
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5 pins to 4 pins Cable	DSMC2	REC FOCUS IRIS SHUTTER ISO MENU PLAYBACK F1/F2/F3/F4/A/B
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SONY

LANC Control Cable	F55 F57 FX6 FX9	REC IRIS ZOOM FOCUS MAG DISPLAY FUNCTION JOYSTICK WHEEL PLAYBACK MENU
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MULTI Control Cable	A9 I A9 II A7M II A7R II A7S II A7M III A7R III A7S III A7R IV A7M IV A6000 A6300 A6400 A6500 RX100 RX02 FX3 FX30	ZOOM REC IRIS ISO SHUTTER SINGLE FOCUS TAKE PHOTOS
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TYPE-C(USB-C) Control Cable	A1 A7C ZV-E10 ZV-1 A9 II A7M III A7R III A7S III A7R IV A7M IV FX3 FX30	
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Blackmagic

LANC Control Cable	BLACKMAGIC URSA MINI 4K BLACKMAGIC URSA MINI 4.6K BLACKMAGIC URSA MINI PRO 4.6K G2 BLACKMAGIC URSA BROADCAST BLACKMAGIC CINEMA CAMERA 2.7K BLACKMAGIC CINEMA CAMERA 4K BLACKMAGIC MICRO STUDIO CAMERA 4K	REC IRIS AUTO IRIS FOCUS AUTO FOCUS
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Canon

LANC Control Cable	C70 C700 PL C700 GSPL C300 MARK II C300 MARK II PL C300 MARK III C200 C200 B C100 C100 MARK II	REC IRIS FOCUS MAG DISPLAY MENU FUNCTION JOYSTICK PLAYBACK
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TYPE-C(USB-C) Control Cable	EOS R EOS R5 (TOUCH FOCUS) EOS R6 (TOUCH FOCUS) EOS R6 Mark II (TOUCH FOCUS)	REC IRIS ISO SHUTTER FOCUS AUTO FOCUS TAKE PHOTOS REAL-TIME PREVIEW
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MICRO USB Control Cable	1DX 1DX MARK II 5DS 5DS R 5D MARK IV	
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MINI USB Control Cable	5D MARK III 5D MARK II 6D 6D MARK II 80D	
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Panasonic

TYPE-C(USB-C) Control Cable	S1 G9	TAKE PHOTOS	REC ISO IRIS WB AUTO FOCUS FOCUS CT SHUTTER
	GH6 S1H S1R GH5 II (AF/MF)	EV TAKE PHOTOS TOUCH FOCUS	
	S5 S5M2 S5M2X	EV SS/GAIN CONTROL THE NATIVE MENU AF/MF TOUCH FOCUS	

TILTA Nucleus N/M Control Cable	NUCLEUS - N NUCLEUS - M	CAL RUN AB LIMIT
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TILTA

Z CAM

LANC Control Cable	E2	REC IRIS ISO ZOOM TOUCH FOCUS SHUTTER(ANGLE/SPEED) FRAME AF/MF RESOLUTION MANUAL FRAME PLAYBACK COLOR TEMPERATURE FN F1/F2/F3 MENU OK BUTTON UP/DOWN BUTTON FOCUS
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REC Key

LANC Control Cable	WIRELESS RECORDING EXPANSION CAMERA RECORDING
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Packing List



BM5IV Monitor



Safety Box



Micro USB
Flash Drive



Customer
Feedback Card



4 pin Aviation to D-Tap
Power Cable