Blackmagic Design Pocket Cinema Camera

Overview

Sensor Size: 12.48mm x 7.02mm Super 16mm

Dynamic Range: 13 Stops

Shooting Resolution:
     Lossless CinemaDNG RAW
     Apple ProRes HQ (1920 x 1080)
     Apple ProRes Proxy, LT, 422

Effective Resolution: 1920 x 1080

Recording Media: SD Card

Frame Rates: 23.98p, 24p, 25,p, 29.97p, 30p

Kit Contents

Total Kit = $3480.68

Kit Contents

Shape Camera Cage
Top Handle
Rod Bloc 15mm
6" Rods x 2

Kit Contents

Ikan BMPCC DV power kit
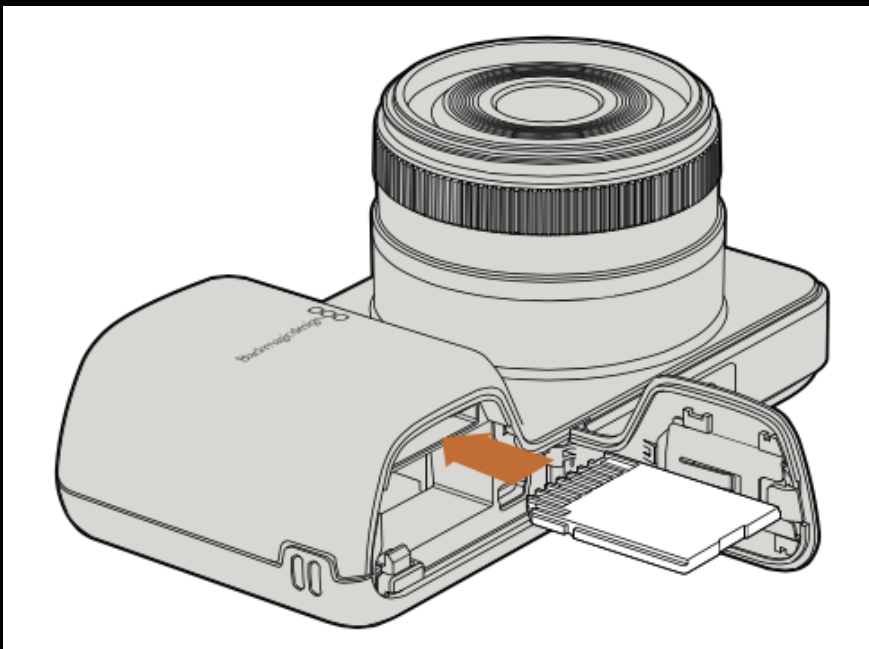2.1mm – 0.7mm DC
Adapter

6600 mAh
7.4V
Lithium Ion

Panasonic H-FS 12060 Lumix G Vario Zoom Lens

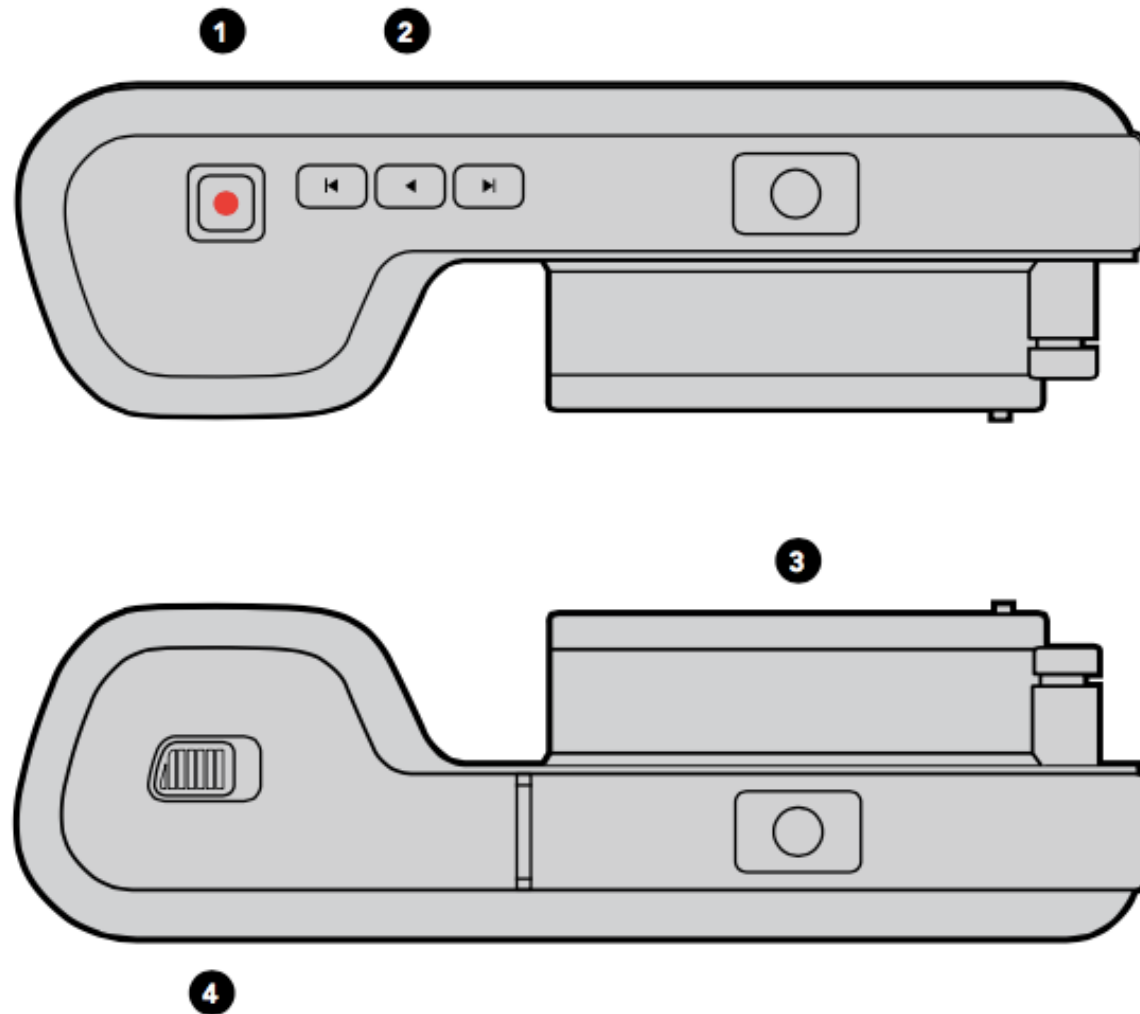Micro Four Thirds
12-60mm
F3.5 – 5.6 ASPH
Power I.O.S

The following SD cards are recommended for compressed video:

- Delkin Devices 16GB Elite SDHC UHS-I
- Delkin Devices 32GB Elite SDHC UHS-I
- SanDisk 8GB 45 MB/sec Extreme SDHC UHS-I
- SanDisk 16GB 45 MB/sec Extreme SDHC UHS-I
- SanDisk 32GB 45 MB/sec Extreme SDHC UHS-I
- SanDisk 64GB 45 MB/sec Extreme SDXC UHS-I
- SanDisk 128GB 45 MB/sec Extreme SDXC UHS-I
- SanDisk 8GB Extreme Plus 80 MB/sec SDHC UHS-I
- SanDisk 16GB Extreme Plus 80 MB/sec SDHC UHS-I
- SanDisk 32GB Extreme Plus 80 MB/sec SDHC UHS-I
- SanDisk 64GB Extreme Plus 80 MB/sec SDXC UHS-I
- SanDisk 128GB Extreme Plus 80 MB/sec SDXC UHS-I
- SanDisk 32GB Extreme Pro 95 MB/sec SDHC UHS-I
- SanDisk 64GB Extreme Pro 95 MB/sec SDXC UHS-I
- SanDisk 128GB Extreme Pro 95 MB/sec SDXC UHS-I
- SanDisk 256GB Extreme Pro 95 MB/sec SDXC UHS-I
- SanDisk 512GB Extreme Pro 95 MB/sec SDXC UHS-I

The following SD cards are recommended for CinemaDNG RAW recording:

- SanDisk 32GB Extreme Pro 95 MB/sec SDHC UHS-I
- SanDisk 64GB Extreme Pro 95 MB/sec SDXC UHS-I
- SanDisk 128GB Extreme Pro 95 MB/sec SDXC UHS-I
- SanDisk 256GB Extreme Pro 95 MB/sec SDXC UHS-I
- SanDisk 512GB Extreme Pro 95 MB/sec SDXC UHS-I

Camera Body

1. Record Button

2. Transport Control
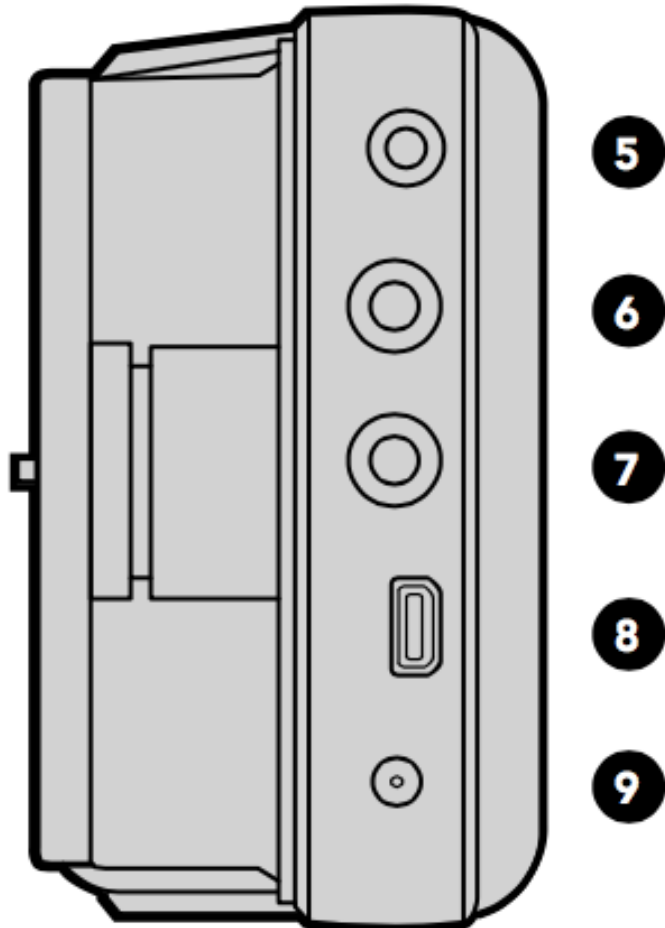
3. Lens Mount

   Micro Four Thirds

4. Battery Cover

   Lithium Ion Battery
   SDH or SDXC Card
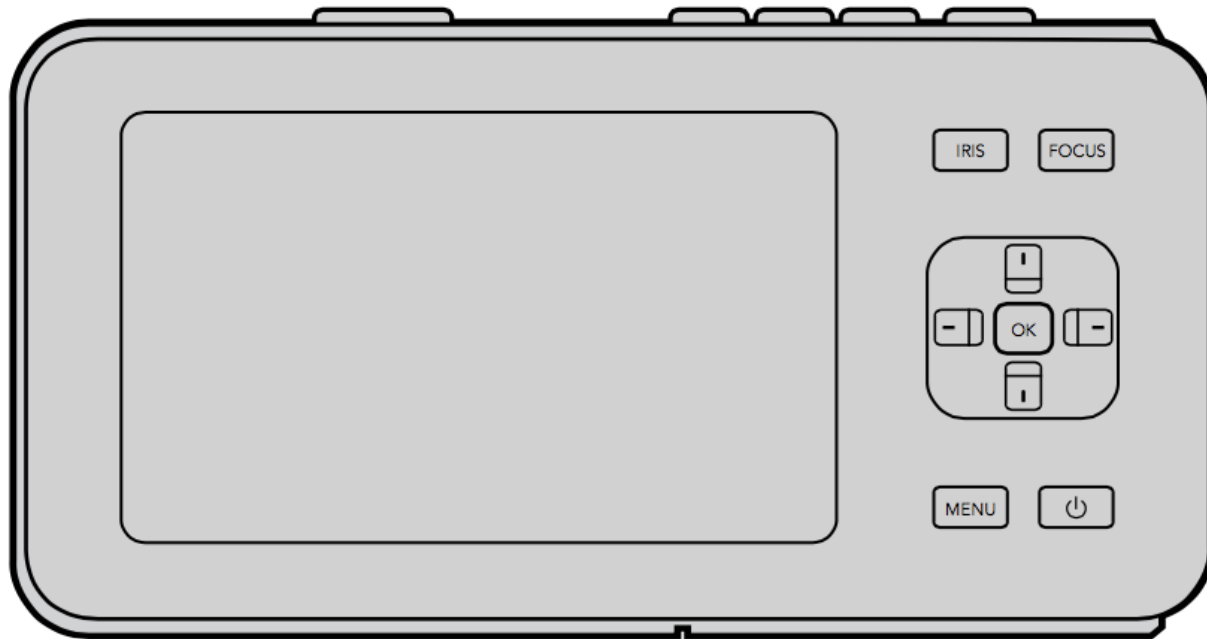   USB Mini-B Port

5. LANC Remote

6. Headphones

7. Audio In

8. HDMI Out

Micro HDMI

9. Power

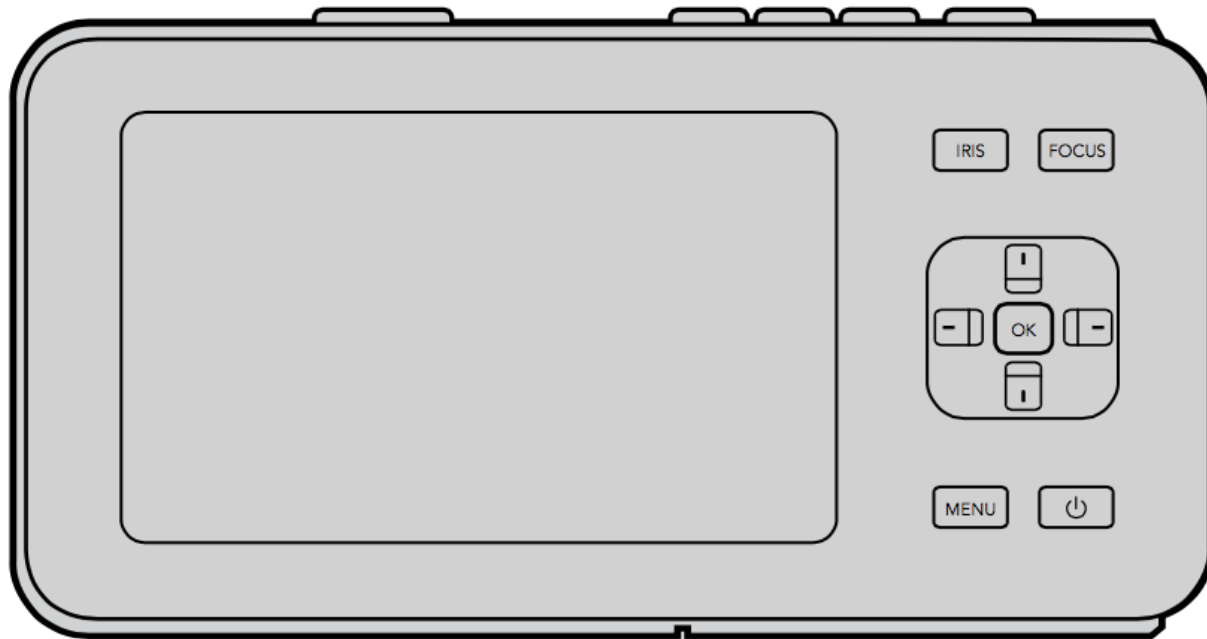0.7mm 12-20V input
AC or external DC

10. LCD Screen

3.5" Integrated LCD
(800 x 480 resolution)

Not a touchscreen!

Do not use cleaning products.

Use provided Microfiber cloth for cleaning.
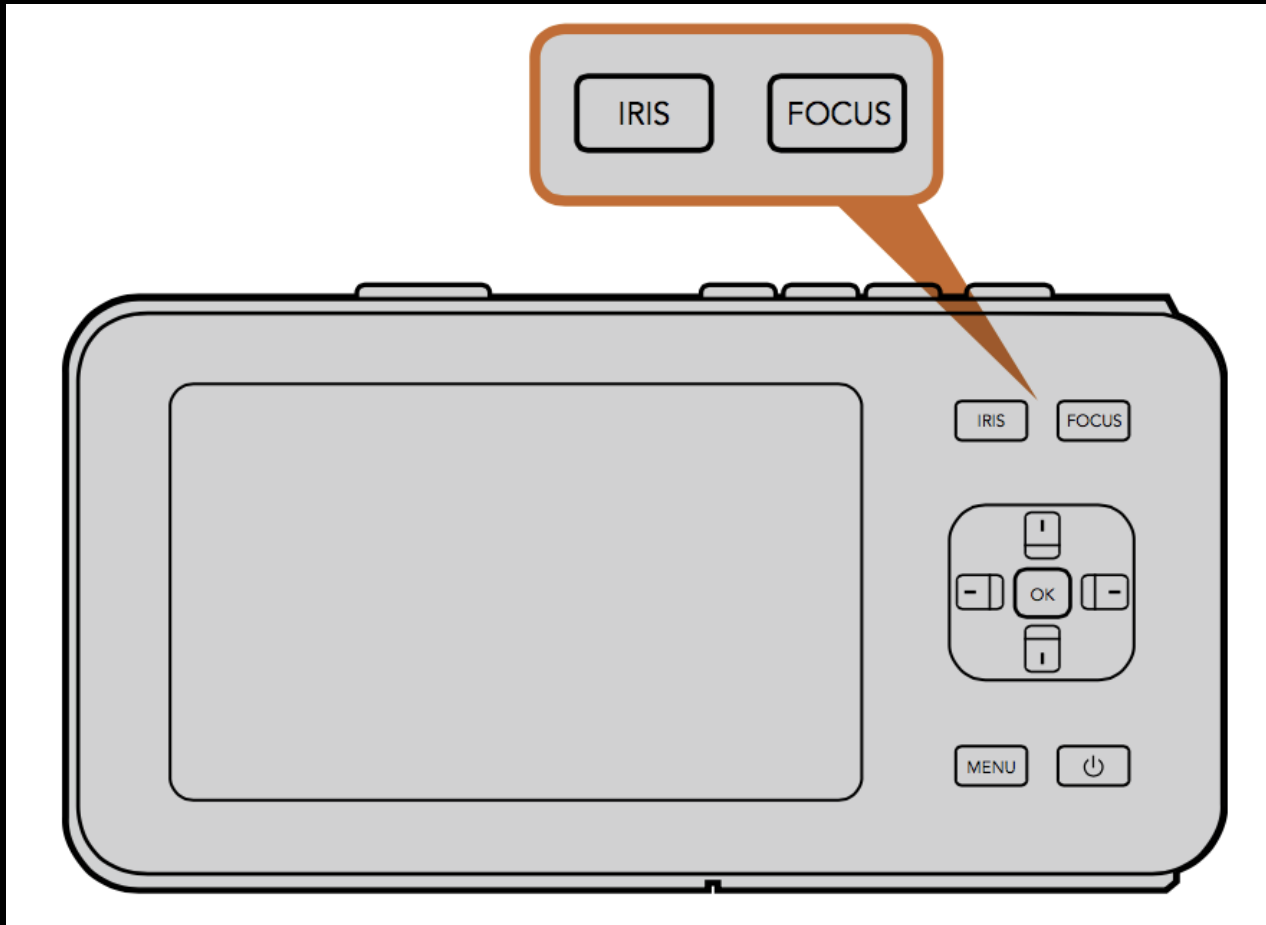
11. Control Buttons

Iris control

Focus Peaking

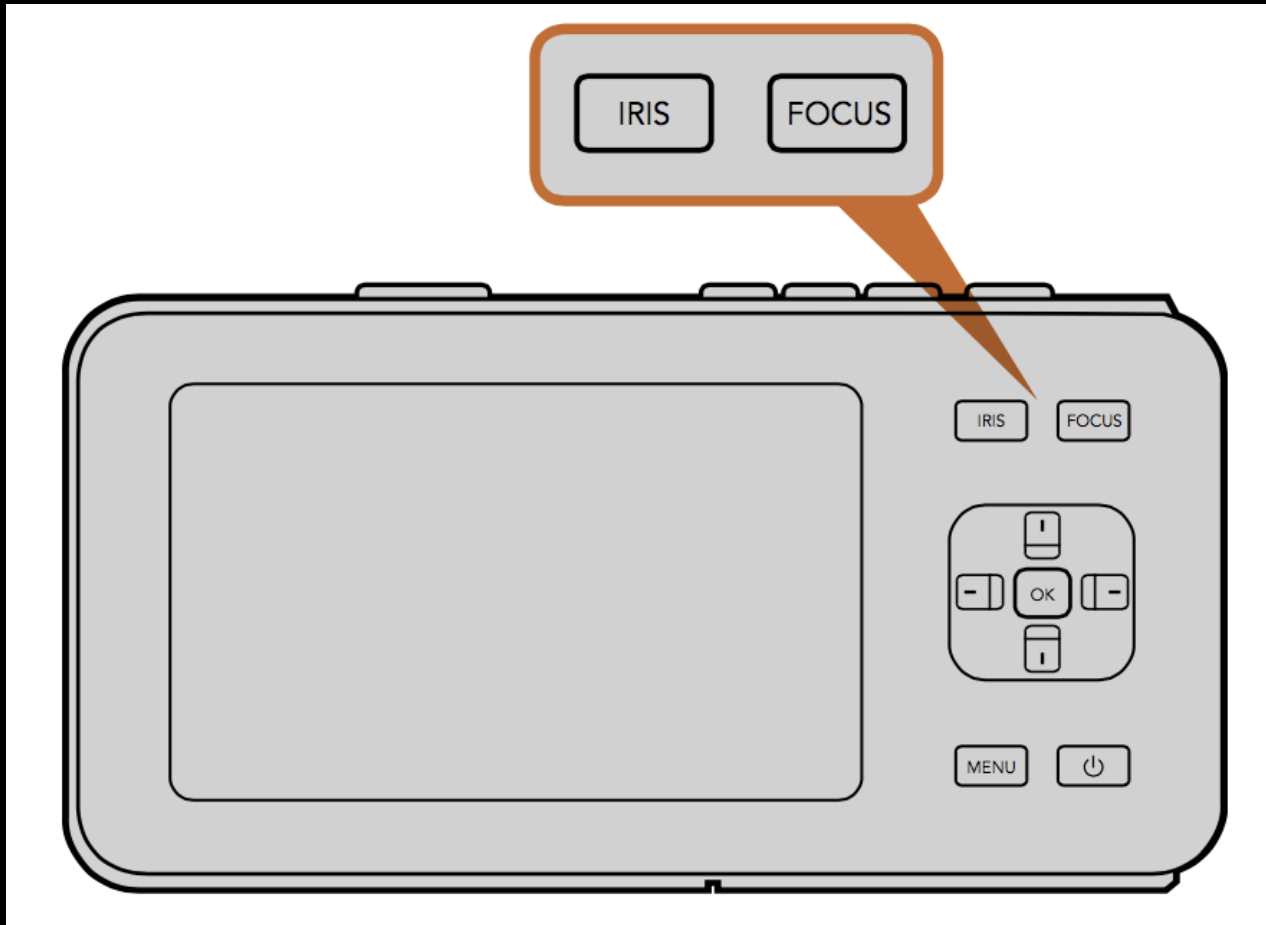Auto Focus

LCD Zoom

Menu + Navigation

Power On/Off

IRIS Button

When using **Video** dyamic range settings
Single press – sets an average exposure based on highlights and shadows in your shot.

When using **Film** dynamic range settings
Sets exposure to the brightest highlight in your shot.

Set aperture manually by pressing the left and right directional buttons.

FOCUS Button

When using a compatible auto focus lens, press the FOCUS button once to auto focus. A quick double press of the FOCUS button activates focus peaking.
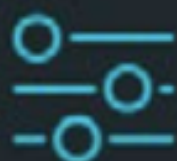
FOCUS Zoom

Double press OK to zoom in for adjusting focus at 1:1 pixel scale. Double press OK again to zoom out.

Menu Settings

Metadata

Settings

Format Disk

Focus Peaking

Meters

Frame Guides

Dashboard

Press MENU button to open

Format Disk:

HFS+ is also known as Mac OS Extended. It is the recommended format as it supports "journaling". Data on journaled media is more recoverable and less likely to be corrupted.

exFAT does not support journaling which means data is less protected against the rare event your media card or SSD is corrupted.

Settings
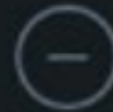
Bypass dashboard by holding down MENU button.

Camera

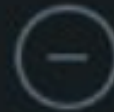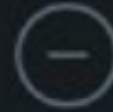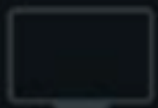|		
Camera ID		Blackmagic Cinema Camera 4
Date	⊖ 19 DAY ⊕	⊖ 06 MONTH ⊕ ⊖ 2014 YEAR ⊕
Time	⊖ 11 HOUR ⊕	⊖ 50 MINUTE ⊕
ISO		◀ 800ASA ▶
White Balance		◀ 5600K ▶
Shutter Angle		◀ 180.0° ▶

Camera ID: If using more than one Blackmagic Camera, it's helpful to set each camera's ID which will be included with any metadata recorded with your clips.

Camera

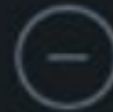|		
Camera ID		Blackmagic Cinema Camera 4

Date   ⊖ 19 DAY ⊕   ⊖ 06 MONTH ⊕   ⊖ 2014 YEAR ⊕
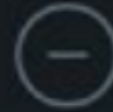
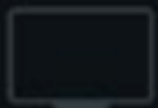Time   ⊖ 11 HOUR ⊕   ⊖ 50 MINUTE ⊕

ISO   ◀ 800ASA ▶

White Balance   ◀ 5600K ▶

Shutter Angle   ◀ 180.0° ▶

Date and Time
24 hour format

ISO
The optimum ISO setting for the Pocket Cinema Camera and Cinema Camera is 800ASA with a maximum ISO of 1600ASA.

White Balance
- 2500, 2800, 3000, 3200, 3400, 3600, 4000, 4500 and 4800K for various conditions under tungsten, incandescent or fluorescent light, or under dull natural light including candle light, sunrise/sunset, morning, and after noon light.
- 5000, 5200, 5400 and 5600K for outdoors on a clear, sunny day.
- 6000, 6500, 7000, 7500 and 8000K for a variety of daylight conditions.

Shutter Angle
180 degrees is the optimum shutter angle. 360 degrees is considered 'wide open' and allows maximum light onto the sensor.

Audio

Microphone Input   50% ———————————————⊙—————

Ch 1 and Ch 2 Input Levels   ◀   Line   ▶

Ch 1 Input   50% ———————————————⊙—————

Ch 2 uses Ch 1 Input   ◀   Yes   ▶

Ch 2 Input   50% ———————————————⊙—————
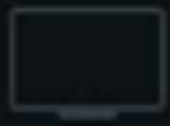
Speaker Volume   50% ———————————————⊙—————

Microphone Input

The built in microphones record to audio channels 1 and 2 when no external audio source is connected.

Ch 1 and Ch 2 Input Levels

To prevent damage, the camera will automatically switch to line level input if the input levels are over the limit for a sustained period of time.

Headphone and speaker Volume

Speakers will only work in playback.

Recording

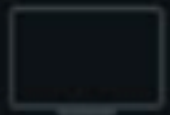|		
Recording Format	◀ 2.5K RAW ▶	
Dynamic Range	◀ Film ▶	
Frame Rate	◀ 24 fps ▶	
Time Lapse Interval	◀ Off ▶	

Recording Format
ProRes HQ, ProRes 422, ProRes LT, ProRes Proxy or RAW recording formats.

Dynamic Range
       Film: 13 Stops dynamic range

       Video: The video setting uses the REC709 standard for high definition video

Frame Rates
       23.98 fps, 24 fps, 25 fps, 29.97 fps, 30 fps.

Time Lapse
       This setting allows you to record a still frame at the following intervals:
       Frames: 2 - 10
       Seconds: 1 - 10, 20, 30, 40, 50
       Minutes: 1 - 10

Display

Dynamic Range	◀	Video	▶
Brightness	50%	———◯———	
Zebra	◀	75%	▶
Frame Guides	◀	2.39:1	▶
Guide Opacity	◀	75%	▶
LCD Overlay	◀	On	▶
SDI Overlays	◀	All	▶

Dynamic Range

The dynamic range setting of the LCD is independent to the dynamic range set in the recorder settings.

After Zebra there is Language options: Japanese and Chinese.

*Return language to English before returning camera to Media Resources!

Frame Guides

HDTV: 1.78:1 aspect ratio compatible with 16:9 HD television and computer screens.

4:3: 4:3 aspect ratio compatible with SD television screens.

2.35:1, 2.39:1 and 2.40:1: Widescreen aspect ratio compatible with anamorphic or flat widescreen cinema presentation. 2.39:1 is one of the most prominent standards.

1.85:1: This ratio is slightly wider than HDTV 1.78:1 but not as wide as 2.39:1.

Thirds

LCD Overlay

Frame guides on or off for the LCD independently of the SDI/HDMI output.

SDI/HDMI Overlays

All: displays both frame guides and recording information.

Status: displays only the recording information, such as f-stop number, frame rate, battery life etc.

Guides: displays only the frame guides.

Off: gives you a clean feed.

You can also view guides on the camera LCD by opening the dashboard and selecting the Frame Guides icon.

MetaData/Slate
Press OK once to make the slate appear, or press the Menu button to open the dashboard and select Metadata.

Onscreen Meters

Histogram
The histogram display shows the distribution of the luminance in your video. Pure black is on the far left side of the display and pure white is on the far right of the display.

Recoding Time Remaining
Indicator shows the remaining recording time for your SSD or SD card. The time is shown in hours and minutes and will vary according to your selected frame rate and codec.

When there is approximately 5 minutes remaining on your SSD or SD card, the indicator will turn RED, and will BLINK intermittently when there is only 2 minutes remaining.

Peak Audio
For optimum audio quality, adjust your audio levels until the peak averages at -12dB, but does not peak beyond 0dB.

1. Media and Recording Status
2. Timecode
3. Recording Format
4. Video Format/Frame Rate
5. F-Stop
6. ISO Setting
7. Shutter Angle
8. White Balance
9. Battery Life Indicator

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Refer to FMSA equipment list