Blackmagic Pocket Cinema Camera

Overview

The Blackmagic Pocket Cinema Camera (BMPCC) is capable of capturing video with a 13-stop dynamic range. It shoots natively to two codecs:

- **Apple ProRes 422 (.mov)** - A video codec in a .mov container. These files can be imported into any NLE (Non-Linear Editor) and edited without the necessity of transcoding. This also includes Proxy, LT, and HQ
- **CinemaDNG RAW (Folder with .dng frames)** - A file format designed to store high-resolution video streams in lossless Camera RAW. Each video frame is independently encoded using the DNG (Digital Negative) image format. The video stream is stored as a sequence of individual frame files inside a folder.

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Frame Rates</th>
<th>Codecs (Max Storage Rates*)</th>
<th>Audio</th>
</tr>
</thead>
</table>
| 1080p (1920 x 1080) | 23.98, 24, 25, 29.97, 30 | Apple ProRes 422 Proxy (5.6 MB/s)  
Apple ProRes 422 LT (12.75 MB/s)  
Apple ProRes 422 (18.4 MB/s)  
Apple ProRes 422 HQ (27.5 MB/s)  
CinemaDNG RAW (60 MB/s) | PCM Uncompressed .wav  
48kHz 24bit Stereo |

*Storage rates based on 30 fps

<table>
<thead>
<tr>
<th>Sensor Size</th>
<th>Native ISO</th>
<th>Lens Mount</th>
<th>Audio Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.5 x 7mm (2.88x Crop)</td>
<td>800</td>
<td>Active Micro Four Thirds (MFT)</td>
<td>(1) 3.5mm (1/8 inch) Stereo</td>
</tr>
</tbody>
</table>

The Blackmagic Pocket Cinema Camera features a built-in SD card recorder that captures to High Speed SDXC cards. (Secure Disk Extended Capacity)

Blackmagic Design recommends **SanDisk Extreme Pro** cards with a 95 MB/s transfer speed.
Dashboard Menu

**Metadata**
Input data information to be stored within the clips, like Title, Date, Scene, Take, etc.

**Settings**
Input camera, audio, recording, and display settings. See next page...

**Format Disk**
Erase and Conform the SD Card inserted into the camera to prepare for recording.

**Focus Peaking**
Activate green edges around the sharpest parts of the image to assist in focusing.

**Meters**
Activate histogram, peak audio, and recording time remaining.

**Frame Guides**
Activate markers to assist in composing various aspect ratios.
Recommended Cinema Camera Settings:

Menu > Settings

**Camera**
- ISO - 800
- Shutter Angle - **180 Degrees**

*This setup is based on the camera’s “Native” settings. Adjust as needed*

**Audio**
- Ch 1 and Ch 2 Input Levels: **Mic**
- Ch 2 uses Ch 1 Input: **Yes**

This device is recommended only for reference audio.

**Recording**
- Recording Format: **ProRes (422 or 422 HQ), RAW***
- Dynamic Range: **Film***
- Frame Rate: **23.98 fps**

*Requires Color Grading*

**Display**
- Refers to Rear Display Screen
- Settings Based on User Preference