ATOMOS

Release Notes

AtomOS 10.42
SONY PXW-FX9 – SDI RAW

SHOGUN 7

Important Note:

With the installation of this new update ALL users will be required to activate ProRes RAW, as a codec (as they would have done for DNx activation).

Following the Firmware update, if in ProRes RAW mode the Shogun 7 will default back to ProRes HQ. When a RAW source is plugged in, or a user selects ProRes RAW Codec, a UI popup will ask for activation code to continue.

Even if the user has already been shooting with ProRes RAW, they must activate it in this update by visiting Atomos website **atomos.com/activation** and follow the online instructions to generate a code.

New features:

RAW Recording

- **4k DCI (17:9)**
    - Resolution: 4096 x2160
    - Sensor Format: FF 6K
        - · Frame rates: 29.97, 25, 24, 23.98
        - · Slow and Quick frame rates: 1-30
    - Sensor Format: FF Crop 5K
        - · Frame rates: 59.94, 50, 29.97, 25, 24, 23.98
        - · Slow and Quick frame rates: 1-60
    - Sensor Format: S35 Crop 4K
        - · Frame rates: 59.94, 50, 29.97, 25, 24, 23.98
        - · Slow and Quick frame rates: 1-60
- **2k DCI (17:9)**
    - Resolution: 2048x1080
    - Sensor Format: FF 2K
        - · Frame rates: 59.94, 50, 29.97, 25, 24, 23.98
        - · Slow and Quick frame rates: 1-60, 100, 120, 150, 180*
    - Sensor Format: S35 2K
        - · Frame rates: 59.94, 50, 29.97, 25, 24, 23.98
        - · Slow and Quick frame rates: 1-60, 100, 120, 150, 180*

        *180 frames not available at p50 and p25 rates

ProRes and DNx Recording:

- **Recording video output of the camera HDMI 2.0 and SDI 12G, 6G, and 3G**

  - 4kDCI (4096x2160) at 59.94, 50, 29.97, 25, 24, 23.98

  - 4kUHD (3840x2160) at 59.94, 50, 29.97, 25, 23.98

  - HD (1920x1080) 59.94, 50, 24, 23.98
  - HD interlaced (1920x1080) at 50i, 59.94i

AtomOS Monitoring Settings:

- Native – Linear to Slog3 or use with 3D LUTs – can use any existing Slog3 LOOK LUTs

- Rec709 – to view RAW input in SDR up to 6.7 stops of dynamic range

- HLG – to view RAW in HLG with up 10.5 stops of dynamic range

- PQ – to view RAW in PQ/HDR10 with up to 10.5 stops of dynamic range,
  for scenes with extended spectral highlights.

Requirements:

- Requires XDCA-FX9 expansion pack for the PXW-FX9 camera

- Shogun 7 CANNOT be powered directly via the D-Tap or the 12v Hirose on the XDCA-FX9.
  It needs to be powered via D-Tap on the battery itself.

Known limitations:

- RAW recording is only available in ProRes RAW mode. If you are in either ProRes, DNx or CDNG you will see an incorrect and distorted image on the screen.

- Screen tearing may be observed when using certain 2KDCI VFR modes from the Panasonic Varicam LT in ProRes RAW mode. The tearing is observed ONLY on the Atomos Shogun display and the recorded footage is ok and correct. Therefore, Varicam LT users are advised not to update to this firmware version.

- Luma parade graticules for recorded HLG and PQ footage may be incorrect when reviewing ProRes RAW footage from the FX-9.