

## SI-2K V2.0

### Key Feature Enhancements

#### **12-Bit CineformRAW Quicktime Codec**

The SI-2K can now record 12-bit Log data for maintaining maximum image data dynamic range. This is a significant image quality improvement over the original 10-bit codec.

#### **Uncompressed and Visually Lossless recording**

Users can select to record 12-bit Uncompressed data, at rates up to 100MB/sec, or use Cineform Visually Lossless codec at 3.5:1 (FilmScan 2) for the most efficient capture and data management.

#### **Adaptive Encoding**

The adaptive encoder increases data rates under high system loads to maintain uncompressed quality, rather than reducing bit rates which can lead to compression artifacts.

#### **Increased 2K Sensitivity with 360-Degree Modes**

New 2K acquisition modes add 1-full stop of sensitivity using full frame time 360-degree shutter. It is even possible to set you shutter in either Speed or Angle.

#### **72 & 85FPS Slow-Mo Improved Recording Performance**

At high data rates it can become challenging for a system to keep up with capture and recording. The new data flow architecture allows longer sustained recording times using modern high-speed SSD drives.

#### **Auto File Recovery & Repair with Audio**

Battery operated system can run out of power during recording. On next startup, the SI-2K will automatically detect unclosed files and automatically repair and recover the files with both Image and Audio data. A repair tool is also included in the player.

#### **Project Metadata Management, File Naming & Digital Slate**

Projects can now be managed with Scene, Shot, Take numbering and Production data all which can be burned into a Digital Slate for recording at the start of each clip. File naming can be done with Project-tame data, as previous, or new modes for Scene-shot or Reel-take methods. Insert a new drive and continue the project; the metadata with continue and Reel # will auto increment.

#### **11-Zone Hot Spots**

The image viewing area is now split into zones to enable direct access to 11 power visualization and control tools including the new Focus Check and Peaking mode and External display view cycling.

#### **Improve Histogram & False Color Metering**

New histogram scaling and color coding of the false color view enable fast and accurate feedback to overexposure and clipping conditions.

#### **Full-Screen Smooth Preview and Record**

A new full screen user interface, smooth display rendering and improved external Monitoring with independent Histogram, False Color, Edge, focus check and Guides are just a few of the viewing and monitoring improvements.

#### **3D-Lut Look and Green/Blue Keyer Control Panel**

It is now faster than ever to try out new 3D LUT views on-set with dedicated LOOK panel buttons. A new KEYER button enables quick access to GREEN and BLUE screen compositing to a Frame Store Image or Matte background.

### **Timecode and Conform Tools**

Improved timecode controls now allow LTC syncing from Ambient ALL-601 on each recording. Set system time or Preset timecode for Record Run or Free Run operation. For off speed shooting use the new conform to timebase tool, which sets the edit or playback speed (eg 24P) while recording at a different speed (eg. 72P)

### **Audio Metering & Input Level Controls**

Improved level indicators for audio input are provided with added Volume input controls. Simply click on the top and bottom of the meters to adjust the levels.

### **SI-2K DVR Silent Fan**

Request silent fan mode fan during preview for quick on-set sound check

### **Drive Storage Remaining Time/Size**

Get instant feedback on the amount of storage in GB or Time Remaining. Just click on the meter to switch modes. The time available is based on the current encoding method and format you are shooting. Indicators go red when the Drive is almost full and stops recording automatically before drive hits 100% capacity.

### **Dual White Balance Presets & User Adjust**

In addition to the standard 3200K and 5600K white balance, two WB user preset can be applied. The WB can be automatically extracted using a white card, pointing to white with the Spot meter or the USER Adjust function that allows setting using a full color wheel.

### **Black Level Calibration**

An improved calibration process helps to create more uniform black clamping and extraction of greater number of deviant or sparkle pixels. If the camera is not sufficiently covered during the process a warning message will appear, requesting the used to Calibrate again; just another quality control check.

### **DPX Render and Export Tools**

Convert CineformRAW directly into a sequence of DPX frame using as-shot White Balance and 3D LUT metadata. Select single file or convert all the files in the folder.

### **ALE File Creation for AVID Workflows**

Each new project will create a new ALE with a log of each take including project metadata, and timecode. The ALE can be used to selectively import into AVID with Metafuse.

### **Final Cut and Cineform NEO Integration**

The new quicktime codec file includes .mov data structures and metadata to enable real-time Final-Cut editing using Cineform NEO tools.

### **Stereo-3D Dual-System System**

Use the SI-2K in a stereo dual system recording environment or upgrade to SI-3D for unified stereo capture, control and playback.

## SI-2K Version Comparison Chart

Capture & Viewing Modes	SI-2K V1.1	SI-2K V2.0	SI-3D	Project & Metadata Management	SI-2K V1.1	SI-2K V2.0	SI-3D
False Color Metering	✓	✓	✓	Metadata (WB, Look and FPS)	✓	✓	✓
Digital Zoom (2x/4x)	✓	✓	✓	As-Shot and Conformed FPS		✓	✓
Look On/Off	✓	✓	✓	File Naming - Scene_Shot_Take		✓	✓
Histogram	✓	✓	✓	Scene_Shot_Take Auto Numbering		✓	✓
Guide Selection	✓	✓	✓	ALE Log File Generation		✓	✓
Display Flip (H/V)	✓	✓	✓	Clip/Project Data Entry in Preview		✓	✓
Spot Meter/Focus Aid	✓	✓	✓	Edit Metadata in Player		✓	✓
Spot Meter in Flip		✓	✓	Digital Slate Display and Burn-In		✓	✓
Focus and Edge Tool		✓	✓				
Auto Loss Detect		✓	✓	<b>Look (3D LUT) Management</b>	SI-2K V1.1	SI-2K V2.0	SI-3D
White Balance Presets (3200/5600/User)		✓	✓	Iridas Speedgrade Embedded	✓	✓	✓
Dual User Program White Balance		✓	✓	On-Set Look Grading	✓	✓	✓
Custom WB with Color Wheel		✓	✓	Look Buttons Presets (Look A ~ D)		✓	✓
Guides (2.39:1, 16:9, 1.85:1, 4:3)	✓	✓	✓	Live Keyer Visualization (Blue/Green)	✓	✓	✓
Crosshair Guides On/Off		✓	✓	Look (3D LUT) Editing in Player		✓	✓
2K Smooth-Display		✓	✓	Keyer (Blue/Green) Control Panel		✓	✓
External Monitor view controls		✓	✓				
				<b>Player &amp; Export Tools</b>	SI-2K V1.1	SI-2K V2.0	SI-3D
<b>Capture &amp; Recording Modes</b>	SI-2K V1.1	SI-2K V2.0	SI-3D	Frame Store (Save/Grab/Recall)	✓	✓	✓
12-Bit Quicktime CineformRAW Codec		✓	✓	Shot Metadata Info Screen		✓	✓
Quicktime Uncompressed		✓	✓	Metadata Editing (Look, WB & Clip Info)		✓	✓
10 & 12 Bit SIV Uncompressed	✓	✓	✓	Batch Export Engine		✓	✓

Shutter Speed / Angle Control		✓	✓
Time Lapse recording	✓	✓	✓
Single Frame Sequence Recording		✓	✓
<b>TimeCode</b>	SI-2K V1.1	SI-2K V2.0	SI-3D
Slave to USB Timecode	✓	✓	✓
Ambient ALL-601 & Adrienne USB-TC	✓	✓	✓
Record-Run Timecode Persistence		✓	✓
Conform to Project Timebase		✓	✓

Export: SIV to Cineform QT		✓	✓
Export: Direct Copy		✓	✓
QT/SIV Repair Tool		✓	✓
<b>Stereo 3D Support</b>	SI-2K V1.1	SI-2K V2.0	SI-3D
Master/Slave	✓	✓	✓
Flip Metadata (H/V)		✓	✓
Spot/Focus Meter in Flip		✓	✓
Single-Platform 3D (** Use SI-3D)			✓