

Checking Camera Frame Rates:

The *CineSpeedMeter2* can also check camera frame rates, thereby giving a visual indication of the steadiness and accuracy of the camera motor.

- 1) Either remove the lens - or - leave the lens in place and fully open the aperture
- 2) Close all doors and other openings which would allow external stray light to enter the camera port.
- 3) Shine a suitable light source (Maglight, etc...) into the eyepiece.
- 4) Align the red dot on the *CineSpeedMeter2* with the center of the camera port or the front of the lens.
- 5) Brace the *CineSpeedMeter2* against the lens mount or the lens front to steady it.
- 6) Keeping it as steady as possible, press and hold the *Camera* button.
- 7) The camera speed will be displayed to .01FPS accuracy.

(6)

Monitoring Generator Frequency:

The *CineSpeedMeter2* monitors generator frequency by reading the output of most any type of AC light source. It will display the measured frequency to .01Hz accuracy.

- 1) Point the *CineSpeedMeter2* directly at the light source or read the reflected light from a bounce.
- 2) Press and hold the *Lights* button. Hold steady for greatest accuracy.

Checking for Light Flicker:

The *CineSpeedMeter2* can check for a flickering light source, indicating possible generator, ballast or bulb problems.

- 1) If the light source is an HMI, make sure it is not set on "flicker free".
- 2) Read the light source as indicated above.
- 3) A flickering source will give an erratic, inconsistent display. Often the reading will be 1/2 of what is expected.
- 4) Due to the output characteristics of an HMI while in "flicker free" mode, the *CineSpeed Meter2* will not give an accurate reading.

(3)

Battery Installation



Slide battery cover to left as indicated

Specifications:

Accuracy and Input Frequency:

<i>Lights</i>	± .01Hz/ 5Hz to 240Hz
<i>Screens</i>	± .001Hz/ 5Hz to 240Hz
<i>Camera</i>	± .01FPS/ 5FPS to 240FPS
<i>Battery:</i>	6.0V, L544 or PX28L
<i>Size:</i>	2.2" x 2.75" x .7"

Lightline Electronics
Visit us at www.lightlineelectronics.com

CineSpeedMeter2

Operating Instructions

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Operation:

The *CineSpeedMeter2* uses a very tight tolerance, quartz crystal controlled micro-processor to ensure accurate, intelligent measurements. It incorporates the newest in surface mount technology to guarantee reliability. By using the intelligence of a micro-processor, the *CineSpeedMeter2* is able to let you know when the conditions are correct to give an accurate, repeatable reading.

Note:

Always verify measurements with a camera test where applicable.

Error Readings:

HSIG: High Signal - Pull away from the source or read from a bounce.

LSIG: Low Signal - Not enough light for a proper reading.

FAST: High frequency - Input signal above 240Hz or 240FPS.

SLO: Low frequency - Input signal below 5Hz or 5FPS.

bAtt: Battery voltage low - Replace battery.

(2)

Incorrect
Away from camera



Holding the *CineSpeedMeter2* away from the camera port allows stray ambient light to reach the sensor located in the faceplate of the meter, thereby influencing the measurement.

Correct
Centered against mount or lens front



Brace the *CineSpeedMeter2* against one edge of the lens mount. Align the red dot with the center of the port. If measuring with the lens in place, align the red dot with the center of the lens. Hold steady.

(7)

Reading Screen Scan Rates:

The *CineSpeedMeter2* can read monitor scan rates to .001Hz accuracy. Once the scan rate is determined, the user can then apply that value to a camera speed control unit, thereby locking the video roll bar in place during filming.

- 1) If possible, use a white screen for greatest accuracy.
- 2) Temporarily turn up the brightness of the screen to it's maximum.
- 3) Shield the screen from any external light sources as they will influence the reading.
- 4) The screen must have a static, non-moving image.
- 5) Place the *CineSpeedMeter2* squarely against the screen so the full face is in contact with the glass as to shield the sensor from external light sources.
- 6) Align the red dot on the *CineSpeedMeter2* with the brightest area of the screen. Best results are obtained by reading between the center and the top of the screen.
- 7) Press and hold the *Screens* button. Hold steady for greatest accuracy.

(4)

Incorrect
Away from monitor



Holding the *CineSpeedMeter2* away from the glass allows stray ambient light to reach the sensor located in the faceplate of the meter, thereby influencing the measurement.

Correct
Against monitor



By placing the face of the meter flush against the monitor glass and aligning the red dot with the brightest part of the screen, the sensor is assured of receiving the amount of light that's required for a reliable reading. Be sure to shield screen from any external light sources during measurement.

(5)