

Award winning Cinematographer



Spectra meters have been my choice for the last 30 years, the new Professional IV-A is the ultimate... Bert Dunk CSC, ASC.

SPECTRA

THE INDUSTRY STANDARD

PROFESSIONAL IV-A

ADVANCED DIGITAL EXPOSURE METER (ADEM)™



Spectra Professional IV-A offers a number of important advantages:

• Widest Sensitivity Range Ever!

Measures f/stop from f/0.35 to f/128, photographic illuminance from near total darkness- 0.1 footcandles to full 70,000 fc and 1 to 100,000 luxes.

• Contrast Ratio Measurements (Ratio mode)

The ratio of two readings from 1:1 to 999:1 can be instantly calculated and displayed thereby simplifying the set up of any lighting situation. And in f/stop mode the difference in f/stop between a new reading and the last memorized measurement is displayed in precise 1/10 -stop increments.

• Averaging

Average of two readings and or continuous averaging in f/stop and footcandle are made possible.

• True Digital Design

Multiple range linear circuit design controlled by a microcomputer (other photographic meters are designed with the old logarithmic method - a single range circuit).

Affix your address here

The only meter to have received three international awards.
www.spectracine.com

SPECTRA CINE, INC.

The Professionals Choice For Light Measurement

PROFESSIONAL IV-A

THE MOST ACCURATE METER EVER BUILT



The Spectra Professional IV-A is an Advanced and True Digital Exposure Meter. Compact and easy to use, it is the most comprehensive, technologically advanced and reliable exposure meter for cinematographers, lighting designers, videographers and professional still photographers.

The Spectra Professional IV-A measures incident and reflected light intensity directly in f/stops, footcandles or lux and instantly calculates f/stop difference, contrast ratio, and average of your particular lighting situation. This feature is a Spectra exclusive.

The Spectra Professional IV-A has a digital f/stop measuring range that extends from f/0.35 to f/128 in 1/10-stop increments and an Analog Bargraph range from f/0.7 to f/45 in 1/3-stop increments. Both are displayed simultaneously on a backlit liquid crystal display, along with film-speed, frames per second for cine use or exposure time for still photography.

The Spectra Professional IV-A is designed to measure highly accurate light intensity and covers illuminance levels from 0.1 to 70,000 footcandles and 1 to 100,000 luxes. The meter covers a sensitivity range of almost one million to one!

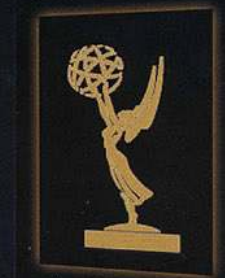
Winner of these prestigious awards



Outstanding achievement in Engineering development



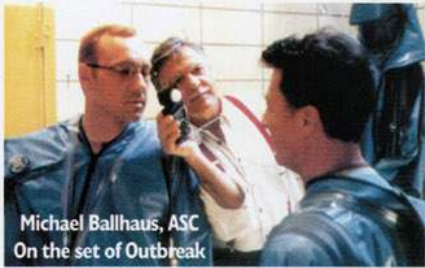
Technical Academy Award



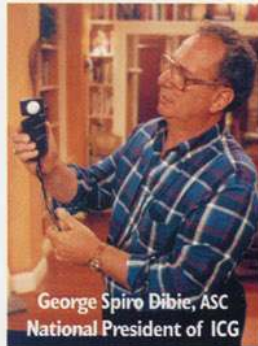
Primetime EMMY Award

Academy of Television Arts and Sciences/Emmy Plaque Engineering Award.

JUDGED BY THE COMPANY THEY KEEP... World Renowned Cinematographers



Michael Ballhaus, ASC
On the set of Outbreak



George Spiro Dibie, ASC
National President of ICG



Wayne Kennan, ASC
On the set of Seinfeld



Janusz Kaminski, ASC
Two time Oscar Winner
On the set of Saving Private Ryan

SPECIFICATIONS:

TYPE Spectra Professional IV-A Advanced Digital Exposure Meter (ADEM) for measuring both incident and reflected light. Reflected light acceptance angle is 42 degrees-square.

TECHNOLOGY For highest accuracy and reliability it utilizes advanced front end op amp, custom sealed hybrid electronic circuitry, multiple range linear circuit controlled by advanced micro-computer and custom liquid crystal display with aviation green backlit electro-luminescent lamp.

LIGHT SENSOR Silicon photovoltaic cell, computer selected glass filters tailored to spectral response of the film. Swivel head assembly turns 270 degrees.

MEASURING CAPABILITY Direct readout of photographic exposures. Measures contrast ratios and average in f-stop and illuminance modes. Measures illuminance level in footcandles (fc) and lux (lx).

MEASURING RANGE One million to one (20 f/stop) widest sensitivity range available. Digital f/stop: f/0.35 to f/128 in 1/10-stop increments. Analog f/stop f/0.7 to f/45 in 1/3-stop increments.

PHOTOGRAPHIC ILLUMINANCE Footcandles 0.1 to 70,000 and lux 1 to 100,000.

CONTRAST RATIOS Calculates ratio of two readings- key plus fill to fill light alone from 1:1 to 999:1. F/stop Difference: The difference in f/stop between a new reading and the last stored/memorized measurement is displayed in precise 1/10-stop increments up to plus or minus 12 f/stop.

AVERAGING Average of two readings and or continuous averaging in f/stop and footcandle modes are made possible.

DISPLAY RANGE

FILM SPEED: ISO 3 to ISO 8000 in 1/3-stop increments

FRAMES PER SECOND: 2 to 360 (for motion picture cameras).

EXPOSURE TIME: 1/8000 sec to 30 minutes.

RESOLUTION Digital 0.1-stop. Analog 0.2-stop.

ACCURACY Digital 0.05 f/stop. Calibration is traceable to National Institute of Standard Technology (NIST), Washington, D.C.

ADDITIONAL FUNCTIONS Memory Recall switch is to recall stored reading in memory (M1), second reading in memory (M2) and/or the ratio, average and f/stop difference of the two readings.

INSTANT RECALL OF ALL MEASUREMENT AND CALCULATIONS

By pressing the recall (RCL) switch, the first stored/memorized reading (M1), the second stored/memorized reading (M2), contrast ratio or brightness (f/stop) difference, average footcandle or average f/stop, can be recalled.

IMMEDIATE UPDATE OF ALL EXPOSURE CALCULATIONS

If the film speed (ISO), frames per second/Cine (FPS) or exposure time/Still (TIME) settings are changed, the f/stops are immediately recalculated and displayed in normal, f/stop difference, or average modes.

MEMORY ERASURE You can erase the stored/memorized readings in

memory (M1) and memory (M2) by pressing the store (STR) and recall (RCL) switch simultaneously.

CAMERA SHUTTER ANGLE Complete list of shutter angles and equivalent compensation table conveniently provided in the instructional material.

BRIGHT GREEN DISPLAY Electro-luminescent lamp for viewing displayed measurements at very low light levels.

POWER CONSUMPTION Operating 5mA/reading. Data Retention SuA.

POWER SOURCE One 6 volt battery No.'s A544, PX28L, PX28.

BATTERY LIFE Approximately one year with normal use.

DIMENSIONS 5-1/2" X 2-1/2" X 2".

WEIGHT Approximately 6 ounces.

ACCESSORIES SUPPLIED Spectra meters are supplied with Photosphere (for ambient light), Photodisc (for key or directional light), Leather carrying case, Neck-strap, 6-volt battery, instructional manual and warranty card.

Two-year limited warranty.

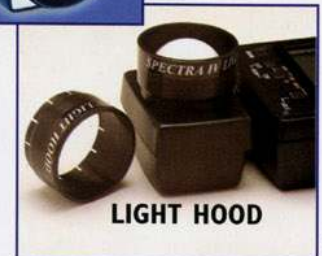
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

Photographs courtesy of:
International Photographer Magazine and American
Society of Cinematographers Magazine.

OPTIONAL ACCESSORIES:



1° PHOTOSPOT
ATTACHMENT



LIGHT HOOD



1- Flexi-Probe 2- PhotoReader 3- Spot-Reader
4- Microscope Adapter 5- Mini probe

