

# spectrocam

*The breakthrough  
in color control*

## **Scanning spectrophotometer**

Measures over 100 color patches per minute, making it the ideal tool for color management...



## **Spectro Colorimeter and Densitometer**

Measures colors and densities of printed materials with the accuracy of a high end spectrophotometer...



**ALEPHGRAPHICS**





# AVANTES spectrocam

## SPECIFICATIONS SPECTROCAM 75 RE

### SPECTROPHOTOMETER MODULE

Aperture:	1.5 x 2 mm
ISO standard geometry:	0° (±5°)
Spectral range:	380-750 nm
Optical resolution:	5 nm (75 bands)
Bandwidth:	20 nm
Wavelength calibration:	< 2 nm
Spectral reporting:	5 nm interval
Analog-to-Digital converter:	12 bits

### REFLECTION ILLUMINATOR MODULE

Illuminated aperture:	2 options: 3.5x4mm and 5.5x6mm
ISO standard geometry:	Annular 45°
Illumination source:	Pulsed Xenon gas discharge tube
Maximum pulse frequency:	35 Hz
Reference measuring:	Light output, Voltage, Temperature

### SOFTWARE FUNCTIONS

Color spaces:	CIE XYZ, xyY, Luv, Lab, LCH, correlated color temperature, whiteness index, HSB, RGB
Color difference values:	$\Delta E$ , $\Delta E(94)$ , $\Delta E(CMC)$ .
Observers:	CIE 2° and 10° human observer
Illuminants:	A, C, E, D50, D55, D65, D75
Density functions:	Status A, T, E, I and DIN 16536-2

### DIMENSIONS AND ACCESSORIES

Spectrocam:	130(l) x 70(w) x 50(h) mm
Available colors:	Arctic Blue and Mauve
Weight excluding accessories:	180 grams
Scan plate:	335(l) x 240(w) x 6(h) mm
Scan plate surface:	ISO standard black backing material
Scan ruler:	250 mm scan length
Serial connection plugs:	Apple Mac modem port; IBM PC RS 232 sub-D9
AC adapter:	90-260 VAC, 50/60 Hz to 12 VDC, 0.5 A.

### SPECTRO COLORIMETER

Reflectance range:	0 to 160%
Typical measuring time:	0.4 sec (based upon 12 readings)
Short-term repeatability on white:	Typ. 0.1 $\Delta E$ (Max. 0.3 $\Delta E$ )
Interinstrument accuracy:	Typ. 0.4 $\Delta E$ (Max. 0.8 $\Delta E$ )
White calibration traceable to:	Average of 12 BCRA tiles European Community Bureau of Reference

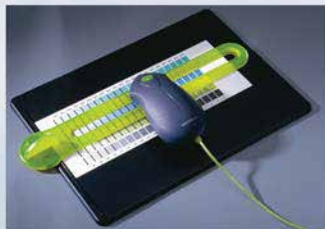
### SPECTRO DENSITOMETER

Density range:	-0.200 to + 3.00
Measuring time:	Typ. 0.4 sec (based upon 12 readings)
Short-term repeatability on white:	Typ. 0.002 (max. 0.004)
Linearity:	Typ. 0.003 (max. 0.005) at D=0.500

## PERFORMANCE

### SCAN FUNCTION

Number of readings per patch:	Averages 4 to 16 readings
Average scan time per patch:	0.4 sec. For screen frequencies $\geq$ 85 lines/inch
Minimum screen frequency:	45 lines/inch (=1.8 lines/mm)
Target dimensions:	Scantime 2 sec Recommended 10x10 mm Minimum 7x8 mm



## ALEPHGRAPHICS

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