



ShadeBar

Online Color Control System for Fabrics



ShadeBar can detect longitudinal, edges, and middle color differences as an online operation.

ShadeBar can be mounted in dye house processes or apparel fabric inspection stations.

ShadeBar calculates ΔE differences by instantly measuring the L, a, and b values on the fly.

ShadeBar uses a full sun spectrum of light to detect colors.

ShadeBar uses patented multidirectional illumination to eliminate the effects of reflection of fiber direction, weaving direction, and knitting direction. It detects the same color values even if it measures the back of the fabric.

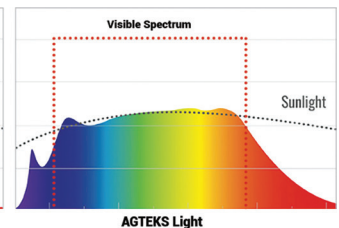
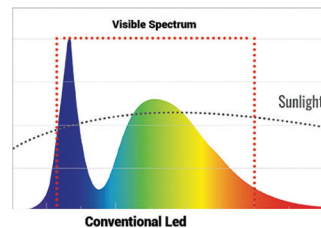
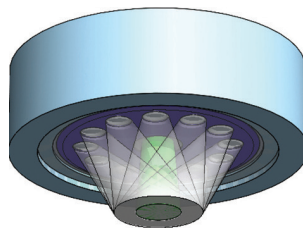
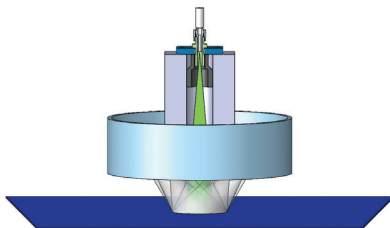
ShadeBar provides continuous color controls by measuring the optical reflectance values of the fabric with international standards. It is not a colorimeter; it is a high-precision spectrometer.

ShadeBar automatically calibrates itself at any time with a special color reference plate, which allows precise measurement of very dark colors.

ShadeBar automatically cleans itself during calibration which provides a long time run without manual cleaning.

ShadeBar operation fully complies with the directives of the International Commission on Illumination (CIE).

ShadeBar provides all online present and past data with full Industry 4.0 standards by ethernet or wireless communication.



All the specifications are subject to change without prior notice.

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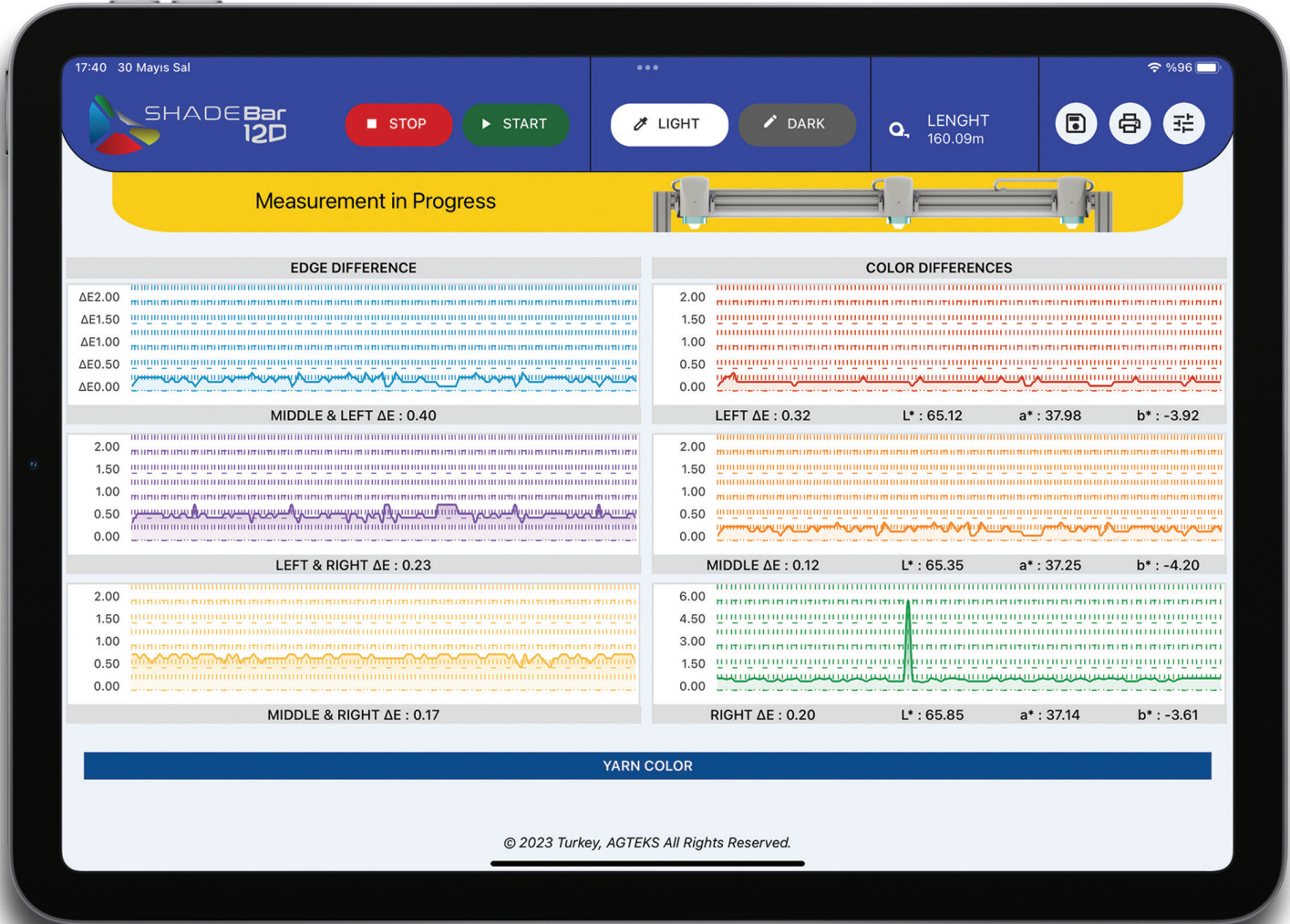
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Technology	Monolithic Structured High Sensitivity Microspectrometer
Spectral Sensitivity	≤ 3 nm
Scanning Speed	100 measurement / second
Measurement Accuracy (Delta E)	$\leq 0,05$
Measurement Spectrum Range	380-780 nm
Measurement Area	25 mm
Defect Detection	Graphical
Light Source	12 Axis Sunspecrum
Defect Catching	Edge Difference, Color Filtering
Communication	Ethernet, Web Service, Cloud Data Base, Wifi or TCP/IP
Output	PNP, 1 pc dry contact role output, Alarm, Marking Device
Recording	Defect time, Machine number, Defect location, Defect size, Edge-Middle-Edge tone difference, Head-End tone difference, etc.

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