FEATURES

- Compact size
- Solid-state light source
- Fast scan cycle
- Dedicated holder for filters/beam splitters
- USB Interface

APPLICATIONS

- Microscopy

PRODUCT DESCRIPTION

Ever wondered what's in your filter cube? FilterReader spectrophotometer will give you the answer in a few seconds.

Identifying and confirming transmission characteristics of filters and beam splitters used in fluorescence microscopy is often critical especially when troubleshooting a system or an experiment. To address this need Mightex has developed the FilterReader, a unique mini spectrophotometer specifically designed for measuring spectral transmission of excitation filters, dichroic beam splitters, and emission filters. A high-resolution CCD spectrograph coupled with a solid-state light source provides high dynamic range measurements in a compact package. A sample cart holds excitation filters and emission filters at vertical position, and beam splitters at a 45-degree angle.

FilterReader is a fully integrated spectrophotometer with a footprint of a book. All one needs is a PC to run the control software, which communicates with the FilterReader via a USB interface. FilterReader software guides users through an intuitive work flow which leads to the measurement results after a few clicks. Results can be displayed in spectral transmission or optical density. Measurements of filters and beam splitters can be overlaid on a single chart. Various data saving and chart printing functions are supported.

Unlike traditional spectrophotometers, FilterReader spectrophotometers are small enough to be easily stored when not in use. The solid-state light source in the FilterReader also ensures a trouble-free use for years without the need to change the light source.
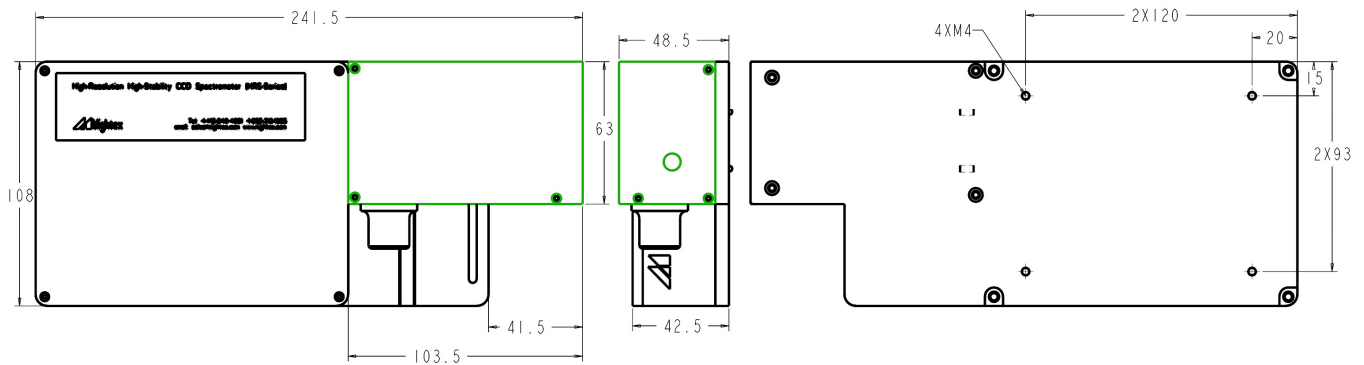

PERFORMANCE SPECIFICATIONS

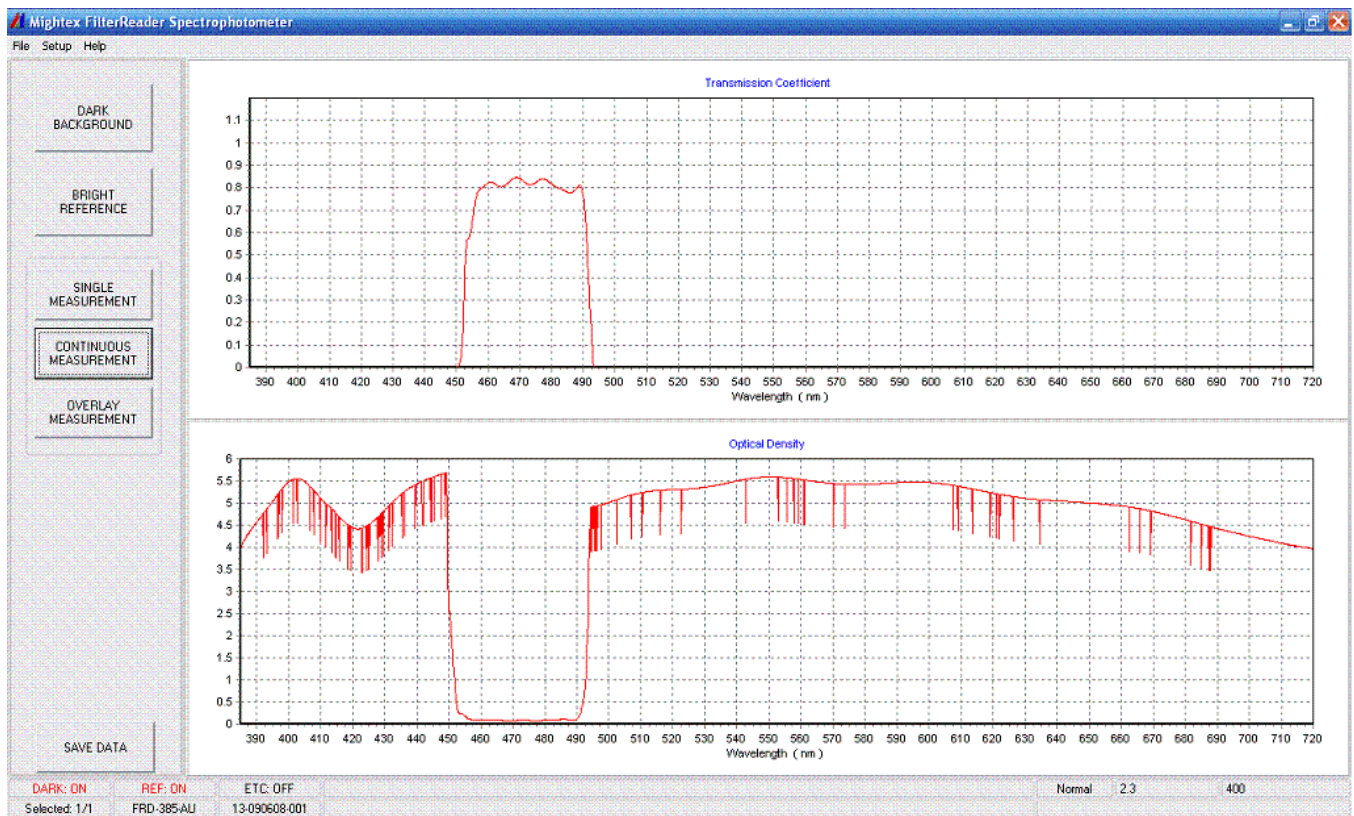|	
Wavelength Range:	350nm - 720nm for model FRD-350-AU
	385nm - 720nm for model FRD-385-AU
Dynamic Range:	>1000:1 (OD3)
Filter Size:	f25.4mm or smaller
Beam splitter Size:	up to 27mm x 36mm
PC Interface:	USB2.0
DC Power Supply:	12V/1A (included)
Dimensions: 2	41.5 x 108 x 48.5 mm
Weight:	1,275g

OPERATION CONDITIONS

Operating Temperature Range:	-10°C ~ +50°C
Storage Temperature Range:	-25°C ~ 85°C
Relative Humidity, Non-condensing:	5% ~ 95%

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INSTALATION DRAWINGS

SOFTWARE USER INTERFACE

PART NUMBER AND ORDERING INFORMATION

FRD - ☐ ☐ ☐ - AU

Starting Wavelenght

Distributor

amsTECHNOLOGIES
where technologies meet solutions

info@amstechnologies.com
www.amstechnologies-webshop.com

Contact us 👆

For example, FRD-385-AU is a FilterReader spectrophotometer with a wavelength range of 385nm to 720nm.

With a world-class OEM design team, Mightex offers a broad range of customized solutions in order to meet individual customer's unique requirements. Please call 1-416-840 4991 or email sales@mightex.com for details.

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