AB Series
Automated Filter Wheels

**AB300-T**
Plug-in and Go with Digikröm DK240/242/480.
6 positions - 1" filters.

**AB302-T**
Stand-alone, 2" filters.
5 positions.

**AB303-T**
Stand-alone, 1½" filters.
12 positions.

**AB304-T**
Stand-alone, 1" filters.
14 positions.

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Versatile Computer Controlled Filter Wheels

- **AB300-T** A six position wheel that integrates with CVI's popular Digikröm ¼ and ½ meter monochromators. Plugging directly into the Digikröm, resident software commands allow easy manipulation to filter higher order energy. It can also be controlled by your hand-held controller. The AB300 uses 1" diameter filters.

- **AB301-T** A stand-alone, six position 1" filter wheel that is stepper motor controlled via RS232 and can be used with CVI's 1/8 meter compact monochromators for order sorting purposes.

- **AB302-T** A stand-alone, five position 2" filter wheel that is ideal for LIDAR applications. Stepper motor controlled, it can be combined with AB301-T’s, AB302-T’s, or AB303-T’s in multiple filter wheel systems.

- **AB303-T** A stand-alone, twelve position 1½" filter wheel that is stepper motor controlled. Ideal for multiple monochromatic illumination applications.

- **AB304-T** A stand-alone, fourteen position 1" filter wheel that is stepper motor controlled. Ideal for multiple monochromatic illumination applications.

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**Inexpensive Monochromators** When used with narrowband interference filters, you can select up to twelve specific bandpasses for monochromatic illumination. This provides maximum throughput with excellent stray light rejection.

**Applications** Not only are these filter wheels ideal for use with monochromators, spectrographs and spectrophotometers, but they can be easily integrated with microscopes, flow cytometers, fluorimeters, and fluorescence photometers. Neutral density filters will allow for photometric linearity and dynamic range studies. Modern communication multiplexing capabilities provide the capability of combining any number of these filter wheels together in an integrated system. Call with your custom or OEM requirements.

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• Low cost!

• High performance!

• RS232 controlled (GPIB optional).

• Multiple Filter Wheel systems available.

• Threaded capture rings allow easy change of filters.

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Specifications:

Accuracy:
AB300-T/AB301-T/AB303-T/AB304-T
± 0.004" from center of optical axis
AB302-T
± 0.030" from center of optical axis

Filter Change Speed:
AB300-T 0.5 second per position
AB301-T 0.5 second per position
AB302-T 1.1 second per position
AB303-T 0.25 second per position
AB304-T 0.50 second per position

Drive:
Stepper Motor

Capacity:
AB300-T Six 1.0" diameter filters
AB301-T Six 1.0" diameter filters
AB302-T Five 2.0" diameter filters
AB303-T Twelve 0.5" diameter filters
AB304-T Twelve 1.0" diameter filters

Clear Aperture/Maximum Filter Thickness:
AB300-T Slot 1.0" x 0.44" / 0.25" thick
AB301-T 0.875" Ø / 0.25" thick
AB302-T 1.825" Ø / 0.50" thick
AB303-T 0.400" Ø / 0.25" thick
AB304-T 0.875" Ø / 0.25" thick

Control:
DCE, 8 bits protocol, no parity,
1 stop bit, RS232 (GPIB optional),
baud rates programmable.

Software:
Demo program and LabView® driver
provided.

Manual Control:
Pushbutton switch with
1 position advance

Ordering Information: Please indicate product
number plus description when ordering.

AB300-T
Six position, 1" diameter Automatic
Filter Wheel Assembly, for use with
DigikrömDK240/242/480 monochromators.
Power and Control supplied through
monochromator.

AB301-T
Six position, 1" diameter Automatic
Filter Wheel Assembly, for use with
Digikröm CM110/112 monochromators,
stand-alone, or in multiple systems.

AB302-T
Five position, 2" diameter Automatic
Filter Wheel Assembly, for use
as stand-alone or in multiple Filter
Wheel systems.

AB303-T
Twelve position, 1/2" diameter
Automatic Filter Wheel Assembly, for
use as stand-alone or in multiple Filter
Wheel systems.

AB304-T
Twelve position, 1" diameter
Automatic Filter Wheel Assembly, for
use as stand-alone or in multiple Filter
Wheel systems.

(All Filter Wheels come with appropriate cabling,
power supply, and mounting flanges for turn-key
operation. Cable to computer supplied by customer
or selected separately from Price List.)

Options
AB Series Filters
SP Filters
Blocking plugs - Call for Quote.
Multiple Systems - Call with Requirements.