

## X-FCR06C Datasheet



- Holds up to 6 Zeiss push & click type filter cubes
- Motorized turret with built-in controller allows filter cube changes in 350 ms
- Daisy-chains with other Zaber devices for control through a single USB connection
- $\mu$ Manager support allows seamless integration of X-FCR and X-LCA4 LED controller, synchronizing cube changes and LED channel switching
- Allows direct connection of Zaber MTC camera tubes, X-LDA-AE focus stage and AB170 objective bracket



## X-FCR Series Overview

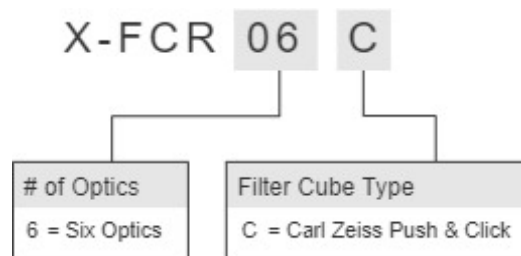
Zaber's X-FCR motorized filter cube turrets are part of Zaber's modular microscope system. They provide fast, reliable filter cube changes and easy setup and control through the use of built-in controllers.

Serving as the core of Zaber's modular microscope system, X-FCR devices include features allowing the precise alignment and robust connection of other microscope modules such as Zaber's MTC camera tubes, MLR epi-illuminators, and X-LDA-AE focus stages. Other features allow easy mounting in upright or inverted orientations with plenty of options to facilitate custom system assembly.

X-FCR devices can be operated as stand-alone units, requiring only a 48 V power supply and USB connection. They can also be daisy-chained with any other Zaber products and controlled through a single USB connection. The daisy-chain also shares power, making it possible for multiple X-Series products to share a single power supply. X-FCR devices are easily set up and can be controlled using our free Zaber Launcher software,  $\mu$ Manager open source microscopy software, or custom programs through the use of Zaber Motion Library API.

For more information visit: <https://www.zaber.com/products/microscopes/X-FCR>

## X-FCR Series Part Numbering





## X-FCR06C Bundle Options

*This device may be purchased stand-alone or bundled with one of the following accessory kits:*

Products	Description
X-FCR06C	Motorized filter cube turret, 6 optics
with KX14A accessory kit Power supply: North America, 48 V. Powers multiple X-Series devices	<ul style="list-style-type: none"><li>• 1 x PS14S-48V37: Power Supply, 48 V 3.75 A, Compatible with X-Series Products</li><li>• 1 x X-DC02: Data Cable, 2 ft (0.6 m), for Use with all X-Series Products</li><li>• 1 x X-USBDC: USB to Serial Converter Cable with M8 Female Plug for X-Series Products</li></ul>
with KX13A accessory kit Power supply: North America, 48 V. Powers one axis	<ul style="list-style-type: none"><li>• 1 x PS13S-48V12: Power Supply, 48 V 1.25 A, Compatible with X-Series Products</li><li>• 1 x X-DC02: Data Cable, 2 ft (0.6 m), for Use with all X-Series Products</li><li>• 1 x X-USBDC: USB to Serial Converter Cable with M8 Female Plug for X-Series Products</li></ul>
with PTB2 accessory Power Supply Not Included	<ul style="list-style-type: none"><li>• 1 x PTB2: Power Terminal Block, 2 Pin, 5 mm Pitch, for Use with X-Series Devices with Custom Power Supply</li></ul>

## X-FCR06C Drawings

## X-FCR06C Specifications

Specification	Value	Alternate Unit
Communication Interface	RS-232	
Communication Protocol	Zaber ASCII	
Compatible Optic Diameter	25	
Number of Optics	6	
Adjacent Optic Change Time	350 ms	
Maximum Current Draw	300 mA	
Power Supply	24-48 VDC	
Power Plug	Screw Terminal	
Data Cable Connection	Locking 4-pin M8	
Manual Control	Indexed knob with push switch	
LED Indicators	No	
Operating Temperature Range	0 to 40 °C	
Vacuum Compatible	No	
RoHS Compliant	Yes	
CE Compliant	Yes	
Weight	2 kg	4.409 lb