

*Higher efficiency through PC control.  
Motorized illuminator with  
power focusing capability.*



**The BXFM-A offers the ideal compact module of automated optical microscopic inspection and high power motorized focusing for the integration into various optical inspection systems.**

Every system manufacturer wants the best possible optical system — one whose quality and flexibility provide superior performance in a wide variety of applications. To answer that need in a way that meets the highly specific requirements of system manufacturer in such

diverse fields as inspection and production, Olympus presents today's most effective solution:

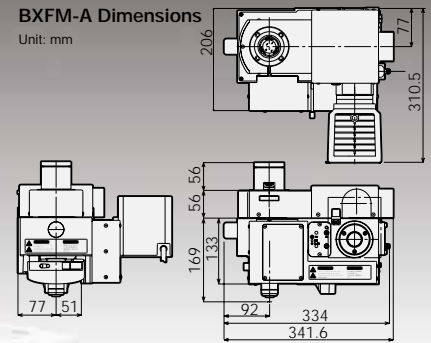
The BXFM-A motorized illuminator with power focus & the UIS Infinity-corrected Optical System



Setting example 1:  
Bx FM-A-F+U-D6REMC+  
objective lens+U-LH100-3 +  
U-TR30-2+eyepieces



Setting example 2:  
Bx FM-A-F+U-AFA1M+U-LH100-3+  
U-D6REMC+objective lens+U-TLU+  
U-TV0.5XC+video camera



## Features

- Compact unit which integrates a power focus function into the motorized reflected light illuminator.
- PC control of focusing, exchanges between brightfield and darkfield observation, aperture, and light intensity control. Allows appropriate observation setting for individual applications.
- Provides auto focus unit as an option. PC control programs are easy to make, using Olympus modules such as motorized filter wheels.
- Employs UIS optical system, renowned for providing high resolution and contrast in semiconductor inspections.
- Integrated motorized mechanism for the revolving nosepieces which comply with clean class 10< can be selected.
- Binocular, trinocular and single port tubes can be selected.
- Various adapters available, to comply with different types of video cameras and digital recording systems.

- Beside the standard halogen light source, it is possible to select optional high-intensity light source\* or long life metal halide light source.\*
- Semi-auto motorized microscope controls (via hand switch and focus dial adjustment knob unit\*\*) are provided close to operator's hand.
- Mounting surfaces are provided on the left side and bottom side of the unit.

\* In these cases, light intensity cannot be controlled.

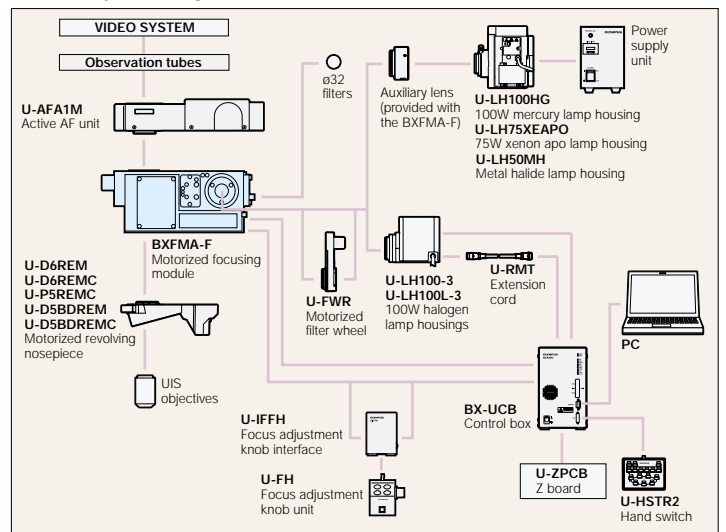
\*\* According to user preference: These modules are not required when a PC is used to control all operations.

## Specifications

Focusing part	Stroke	Full stroke range (incl. retract range) : 7mm, Active stroke : 5mm
	Resolution	0.01µm
	Max. speed	5mm/sec (default 3mm/sec)
Illumination part	Observation Mode	Visible light reflected brightfield(BF)/darkfield(DF)
	Change mode	Motorized dedicated BF/DF cube switchover
	Motorized Aperture iris	Opening/closing with four shutter blades Motorized control using a stepping motor Centering and locking possible
	Field iris	Manual knob opening/closing Centering possible
	Filter cassette	Up to two filters, manual knob IN/OUT Filter size: 32mm diameter
Attachable unit	Light source	12V100W Halogen (standard) High intensity light source is optional
	Nosepiece	U-D6REM/D6REMC/P5REM (for BF) U-D5BDREM/D5BDREMC (for BF/DF)
	Controller	BX-UCB (Control box) U-ZPCB2* (Focus control board)
	Auto focus	U-AFA1M: Active laser method Applicable objective magnification 5X - 150X
	Observation tube	Observation/tube lens for UIS optics
	Objective lens	Reflected UIS objective lens
	Filter turret	U-FWR: Sextuple filter turret (Light source side) Filter size: 25mm diameter or 32mm diameter
	Controller	PC control via RS232C Command or Stand-alone control via Hand Switch and focus adjustment knob unit (U-HSTR2 & U-FH)
	Mounting surface	Six-screw fixation on left side and/or bottom of the body Screw hole 6-M8 10mm Depth
	Dimensions/Weight	206mm(W) X 133mm(H) X 334(D)mm/7.6Kg (Bx FM-A-F only)

\*Only for motorized focusing method (BX-UCB is needed)

## Bx FM-A System Diagram



Specifications are subject to change without any obligation on the part of the manufacturer.

**OLYMPUS**

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