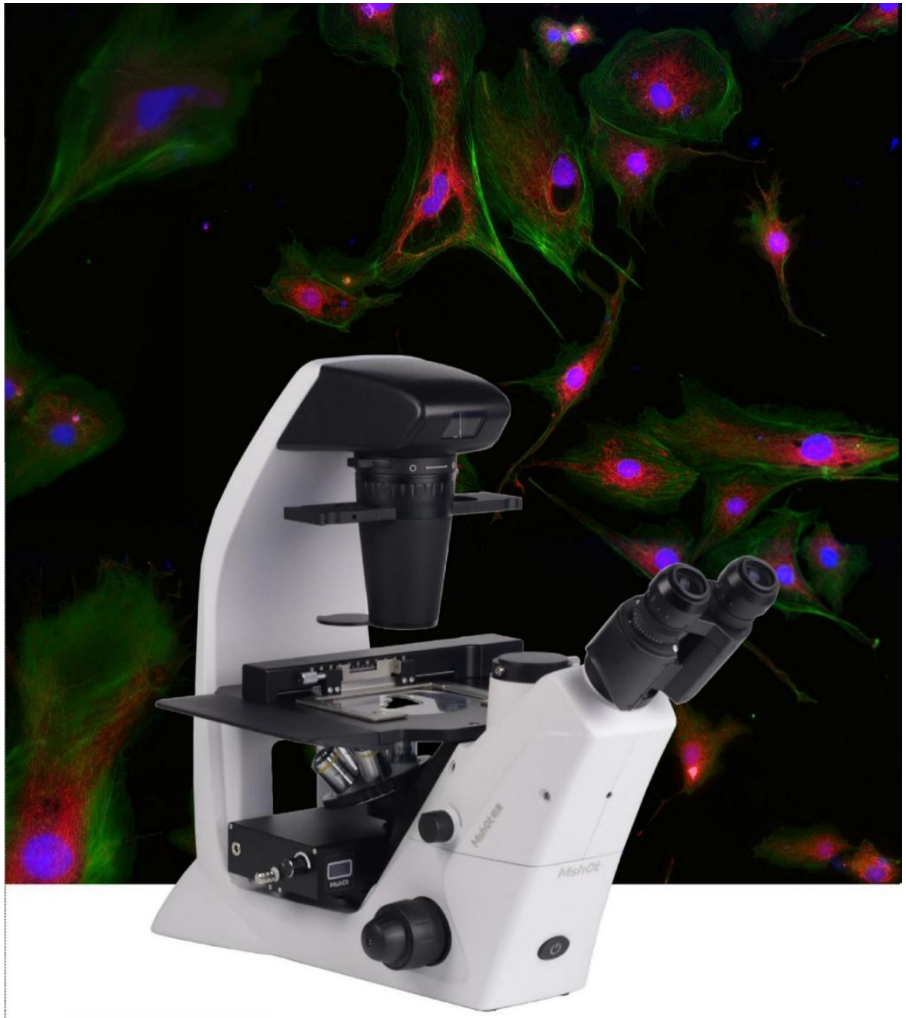


Inverted microscope

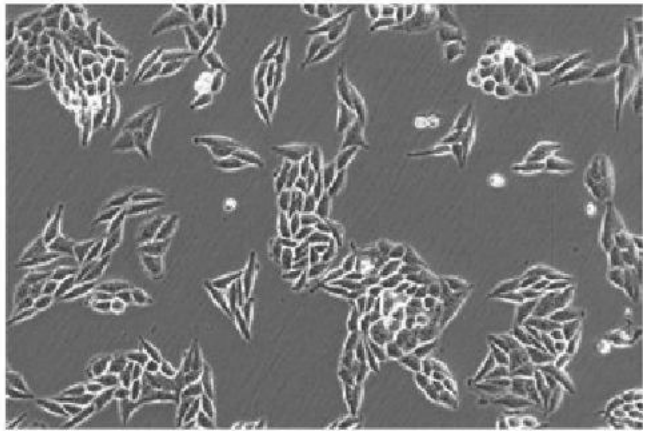
AST60/AST60-FL

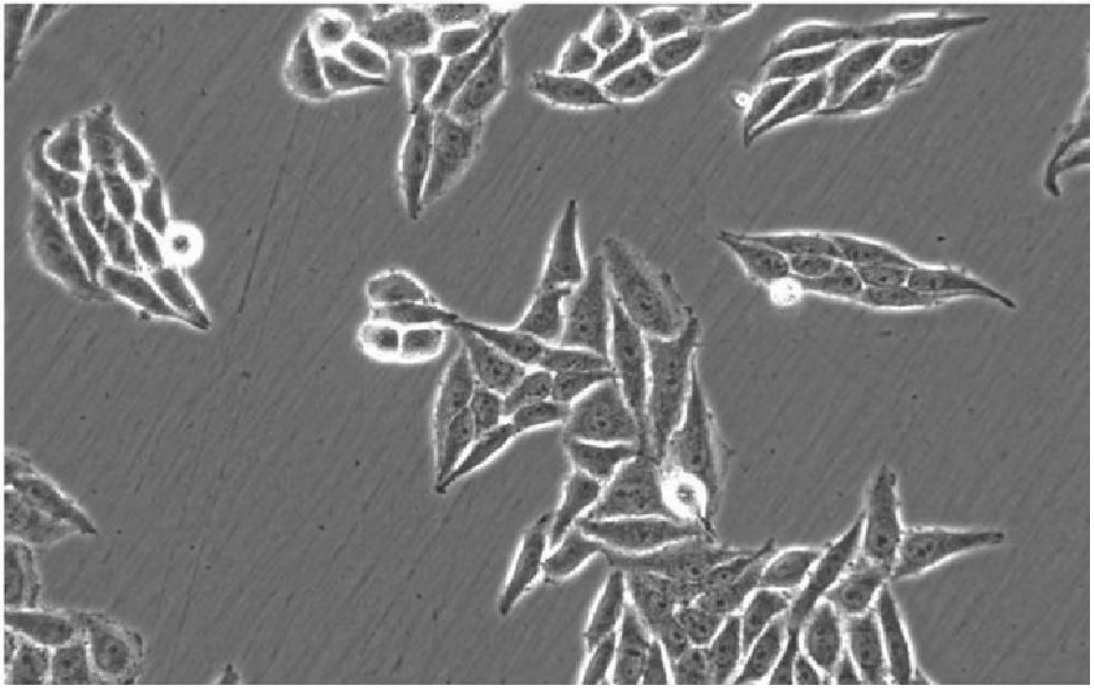
Intelligent and high-performance cell observation

Professional cell culture solutions with targeted optimization

Support multiple magnification phase contrast observation

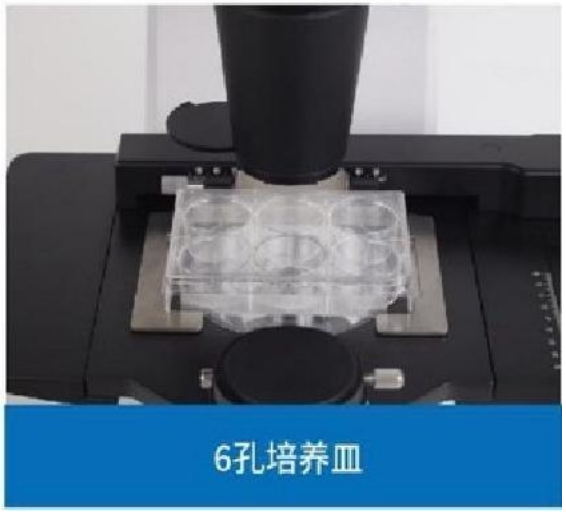
The condenser is equipped with a push-pull type phase contrast insert plate, which can be combined with multiple phase contrast objective lenses to achieve phase contrast observation at different magnifications, presenting the clear morphology and details of living cell samples.

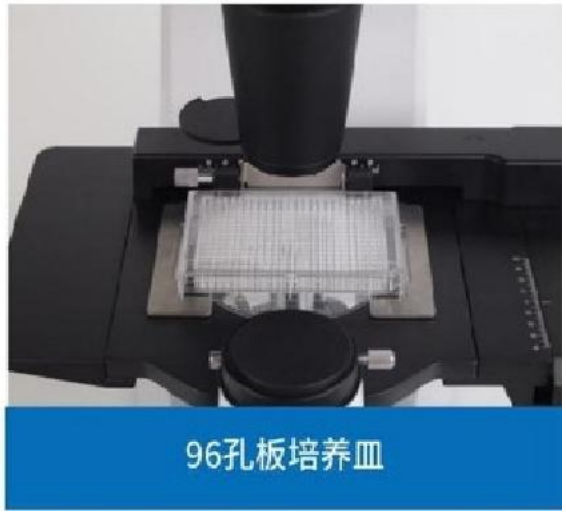




Flexible and adaptable to different culture vessels

The universal sample holder can be used with common culture containers such as microplates and petri dishes. The workbench can be extended to 351mm x 251mm, and it is equipped with a flip design to accommodate large-sized culture containers like petri dishes.



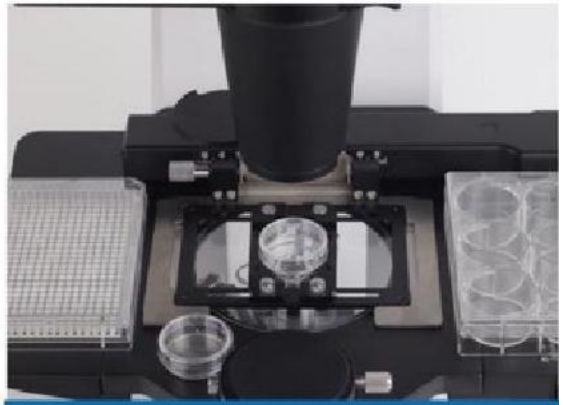


Support multi-layer cell factory observation

72mm long working distance condenser, with a larger working area, allowing for tool-free disassembly.

When paired with a large-sized sample stage, it enables observation of "cell factories" with up to 10 layers.

大尺寸培养瓶



皮氏培养皿

ECO's Light-off Function When Leaving

An embedded new sensor is used, which can automatically turn off the light after a certain period of time when no one is using it. This enables the light to turn off when no one is present and turn on when someone arrives, saving electricity and extending the lifespan of the light source. It is more convenient to use.

More Intuitive Digital LED Screen

The body is equipped with an OLED digital screen that directly displays the current objective magnification, light intensity index, as well as the status of the light intensity manager and the light-off function when leaving. This makes it easier to grasp the instrument's status.

Voice Broadcasting Interaction Function

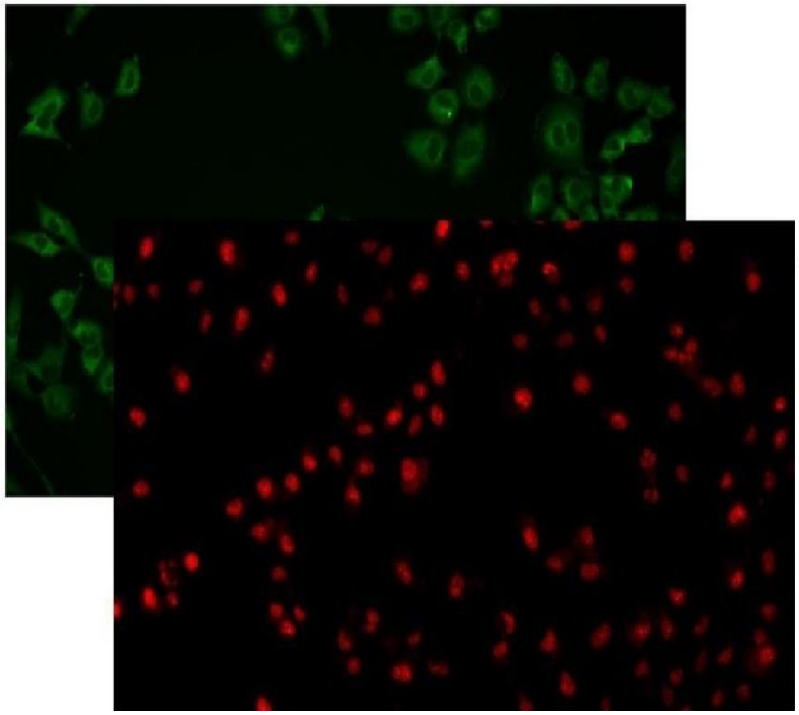
The microscope comes with a voice broadcasting function. When switching objective lenses, it automatically broadcasts the type and magnification of the objective lens. Switching objective lenses becomes more convenient.


Mshot
FL PH
RIM
ECO 15m
100X
50%
Mshot

Inverted fluorescence microscope AST60-FL

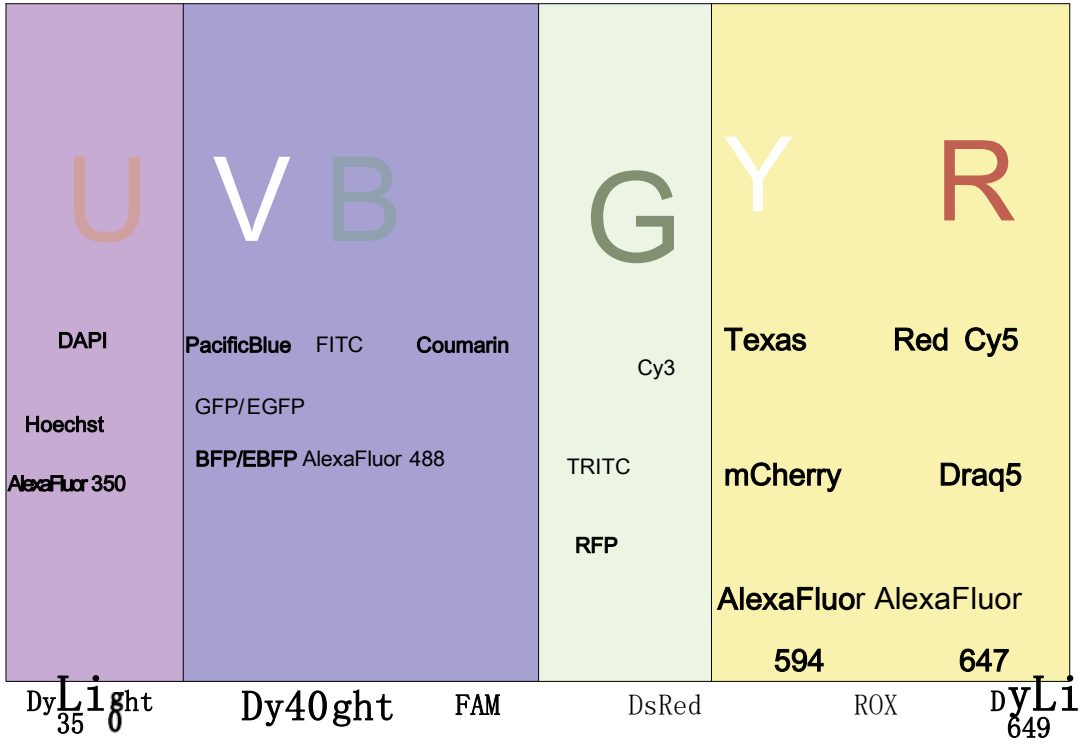
Precise and repeatable fluorescence intensity

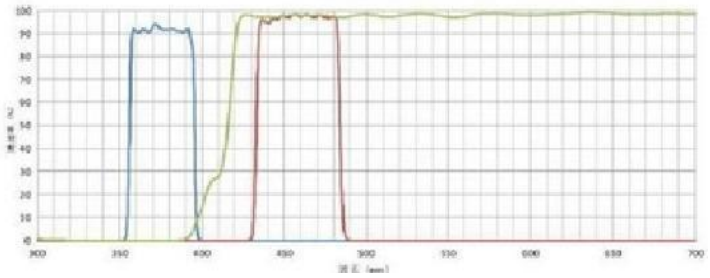
The inverted fluorescence microscope AST60-FL adopts a modular design concept. The digital LED fluorescence module can achieve three-color fluorescence observation, and comes with an OLED digital screen, which intuitively presents the current channel and light intensity. The light intensity of each channel is independently stored, and switching between channels can be done without repeated adjustments. The fluorescence intensity is more precisely controllable.



Support multiple fluorescence labeling observations

The digital LED fluorescence module is equipped with three excitation blocks: DAPI(U), FITC(B), and TRITC(G), which meet the excitation requirements of mainstream fluorescent dyes. Optional configurations such as YRV can also be selected, as well as different parameters including long-pass and narrow-band, to reduce the problem of fluorescence crosstalk.

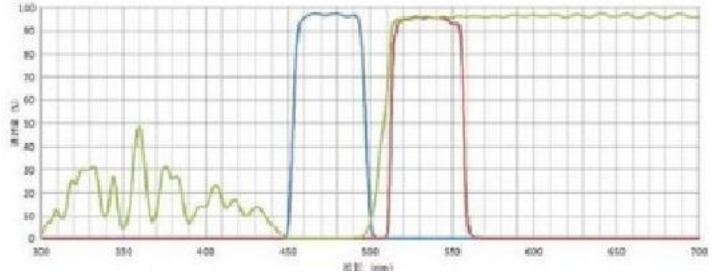

U
V
B
G
Y
R
DAPI
Hoechst
AlexaFluor 350
PacificBlue
FITC
Coumarin
GFP/EGFP
BFP/EBFP
AlexaFluor 488
Cy3
TRITC
RFP
Texas
Red
Cy5
mCherry
Draq5
AlexaFluor 594
AlexaFluor 647
DyLight 350
Dy40ght
FAM
DsRed
ROX
DyLight 649



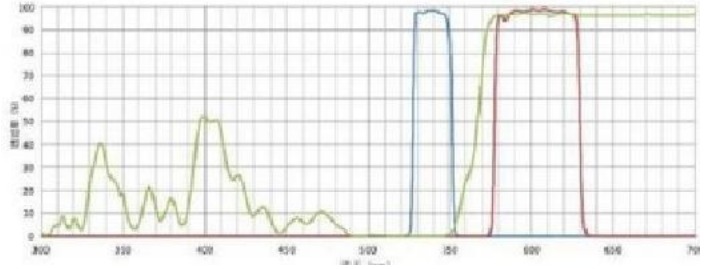
DAPI

BP360-390

DM415



BA510-550



TRITC

BA578-633

Multiple objective lens configurations are available for selection.

· Flat-field achromatic objective lens

· Flat-field achromatic phase contrast objective lens

· Semi-compensated chromatic aberration-free fluorescence objective lens

· Semi-compensated chromatic aberration-free fluorescence phase contrast objective lens

AST60 specification

Project	Specification	AST60	AST60-FL
Mirror	• Wide-angle WF10X/22mm, high eye point, adjustable refractive power	●	●
	• Wide-angle WF10X/23mm, high eye point, adjustable refractive power	O	O
	• Centering telescope	●	●
Eyepiece tube	• 45° tilt, interpupillary distance adjustment 50-75mm, body split ratio 100:0 or 0:100	●	●
Objective lens	• Long working distance flat-field achromatic objective 4X/10X/20X/40X	O	O
	• Long working distance flat-field achromatic phase contrast objective 4X/10X/20X/40X PH	O	O
	• Long working distance flat-field semi-compensated achromatic fluorescence objective 4X/10X/20X/40X	O	O
	• Long working distance flat-field semi-compensated achromatic fluorescence phase contrast objective 10X/20X/40X	O	O
Focus adjustment mechanism	• Coaxial coarse and fine adjustment, equipped with limit devices and locking devices, low hand position coaxial focusing handwheel, fine adjustment handwheel with 2 μm scale value	●	●
Objective lens converter	• Five-hole encoded internal positioning converter, ball bearing internal positioning, anti-mold device, brightness memory function	●	●
Workbench	• Fixed stage size: 267.4mm × 271.4mm, mechanical movement, movement range: 110mm × 75mm, circular brightening drip plate: ϕ118mm	●	●
Petri dish tray	• Universal sample holder, compatible with slides, different petri dish sizes	●	●

Transmitted lighting system	• Push-pull plate phase condenser, NA0.3, working distance 72mm, 10X phase ring 1, 20X/40X phase ring shared 1	●	●
	• 3W full-spectrum white light LED, brightness continuously adjustable	●	●
	• Rotating fluorescence extinction plate		●
Digital display screen	• Display current working status, including ECO, voice function, objective magnification and brightness size, etc.	●	●
Fluorescent accessory	• Multi-color digital LED fluorescence accessory (up to four colors, UV/B/G/Y/R etc. bands selectable, also customizable)		●

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