

XDS-3PMC



Description



XDS-3PMC inverted polarizing modulation contrast microscope is a new type of multi-functional optical instrument. It is designed with good-looking shape and convenience operation. The phase contrast device can be attached to the light path to perform transmitted phase contrast microscopic observation, such as phase contrast, modulation contrast and etc.. This unit is suitable for the microscopic observation of cells, tissues and clear liquid tissues, and the dynamic microscopic observation of tissues cultured in a culture dish, and is applicable to scientific research institutions, colleges and universities, medical and health, inspection and quarantine agencies, agricultural, animal husbandry and dairy industries.



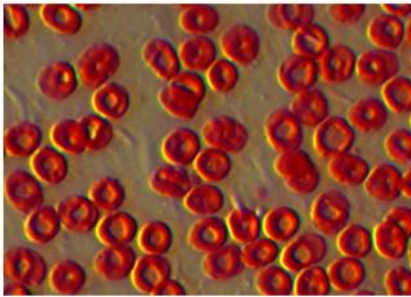
Turntable Modulation Contrast

Modulation Contrast Objective

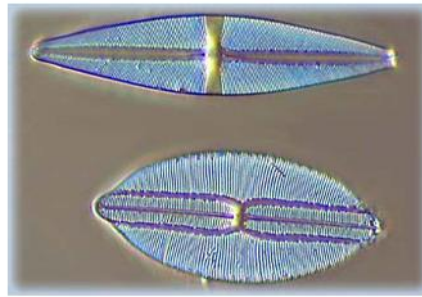
Puller Modulation Contrast

The principle of Polarizing Modulation contrast is that it can convert phase gradients into intensity variations, thereby making transparent specimens clear with vivid detail. The PMC system is a cost-effective upgrade for 3D-appearing imaging, as a feature which appears to cast a shadow may not necessarily have distinct physical geometry.

Equip high quality modulation contrast plan objective (10X, 20X, 40X) and modulation contrast condenser. There are two mode modulation contrast, turntable type and puller type.



Modulation contrast observe



Modulation contrast observe



Observation system

The gemel mode binocular is inclined 45 degree. The operator cervix and shoulder are released from tired in period of time keeping bow or head-up. The eyepiece field of view number is $\Phi 22\text{mm}$ and eyepatch can be added.

Transmitted Glass Stage Plate

It is possible for process visualization in turning nosepiece. Overcome the deficiencies of the stage thermal deformation effectively.





No Rock and Gear Mechanical Stage

The mechanical stage driver is adopted coaxial high-strength steel wire. This is a ideal design for stable mobile. The automatic protection in the limited position is effective on the accuracy of stage.

There are three mode culture dish holder for selection.

Illumination System

Integrated illumination can make up the difference of halogens by adjusting the spacial position.

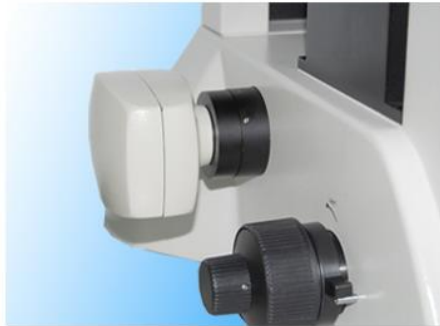
Fully taken into account the cooling effect of illumination system so that the surface temperature of lamp house is lower, the operation is safer.



The enable turning out or into condenser system is suited for tissue observation in a high culture dish.

Photography Unit

The photographic observation output is setting up on the back of main body frame, so that the accessories of camera don't cause interference to eyepiece observation. Microphotography in 100% light flux, suits for low illuminance microphotography.



Specification

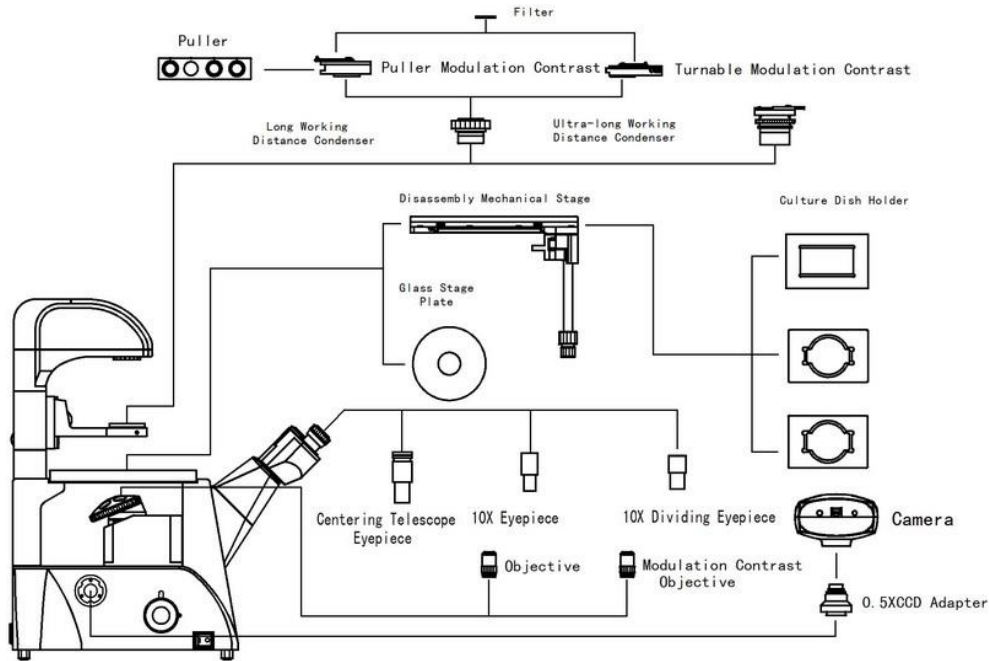
Main parameters	Total magnification	100X~400X			
	Mechanical tube length	∞			
	Conjugate distance of objective	∞			
Eyepiece	Wide-field plan eyepiece	WF 10X	field of view number Φ22mm	Eyepiece interface Φ30mm	Parfocal distance 10mm

Trinocular	Hinged binocular tube, with an observation angle of 45°, and a pupil distance of 53-75mm				
modulation contrast objective	Magnification	Numerical aperture	Working distance (mm)	Thickness of cover glass (mm)	Note For modulation contrast view, The modulator of objective should be adapted with slot in the condenser
	10X	0.25	4.3	1.2	
	20X	0.40	8.0	1.2	
	40X	0.60	3.5	1.2	
Bright field objective	10X	0.25	4.3	1.2	For bright field view
	20X (option)	0.40	8.0	1.2	
	40X (option)	0.60	3.5	1.2	
Phase-contrast objective	10X (option)	0.25	4.3	1.2	For phase contrast view, the objective phase shutter should be adapted with the cirque shutter in the connser
	20X (option)	0.40	8.0	1.2	
	40X (option)	0.60	3.5	1.2	
Nosepiece	Quintuple				
Condenser	Working distance 55mm, adapted for turntable type modulation contrast view				
	Working distance 55mm, adapted for puller type modulation contrast view (option)				
	Working distance 55mm, with phase-contrast device (option)				
	Working distance 55mm with aperture diaphragm, adapted for bright field view (option)				
Stage	Mechanical Stage, moving range 77mm (longitudinal)X134.5mm (transverse), detachable stage moving device				
Focus system	Coaxial coarse/fine focus with tension adjustable and up stop, minum division of fine focusing is 2 um				
Culture dish holder	Holder 1	86mm (W)X129.5mm (L), optional with a circular culture dish Φ87.5mm			
	Holder 2	34mm (W)X77.5mm (L), optional with a circular culture dish Φ68.5mm			
	Holder 3	57mm (W)X82mm (L)			

Light source

6V/30W halogen lamp, adjustable in brightness

Diagram



Dimensions

