# OPTO EDU A16.1063 LED Inverted Fluorescence Microscope

#### **Basic Information**

• Place of Origin: China

• Brand Name: CNOEC, OPTO-EDU

Certification: CE, Rohs
Model Number: A16.1063
Minimum Order Quantity: 1 pc
Price: Negotiation

Packaging Details: Carton Packing, For Export Transportation

• Delivery Time: 5~20 Days

Payment Terms: T/T, West Union, Paypal

Supply Ability: 5000 pcs/ Month



#### **Product Specification**

Head: Seidentopf Viewing Head, Inclined At 45°

• Eyepiece / F.O.V: EW10x/22mm, Diopter Adjustable,

Dia.30mm

Nosepiece: Quintuple Nosepiece, Dovetail Interface
 Objective: LWD Infinity Plan Semi-APO Fluorescent

Objective

• Working Stage: Plain Working Stage 170(X) X 250(Y)mm,

Condenser: Long Working Distance Detachable

Condenser NA 0.3

• Highlight: led opto edu microscope,

LED Inverted Fluorescence Microscope,
OPTO EDU Inverted Fluorescence Microscope



Brand New Design 2019 High Level Inverted Fluorescent Microscope

Epi-Fluorescence Attachment, Turret With 3 Holes For Filter Cubes B,G,U Bands

Super Long Working Distance Upto 187mm Condenser

ECO Auto Power Off Function + LCD Screen Optional

Phase Contrast, Hoffman Contrast, Emboss Contrast (DIC) Optional

#### OPTO-EDU (BEIJING) CO., LTD.





## A16.1063 Inverted LED Fluorescent Microscope



#### **Professional Cell Observation**

	A16.1063	A16.1064
Observation	Hoffman DIC Em	l, Phase Contrast, Phase Contrast, aboss Contrast Fluorescent
Nosepiece	Quintuple	Coded Quintuple
Illumination	3W LED	3W LED Kohler
LCD	-	Yes
ECO		Yes, 15 Mins Auto Off



#### **Ergonomic Design, Comfortable Operation**

#### 45° Inclined Viewing Head Inclined

Viewing Head Makes The User To Operate Microscope In A Comfortable Position. Minimize Muscle Tension And Discomfort Caused By Long Working Hours.

#### Long-handle Mechanical Stage

The User Can Make Comfortable And Smooth Movement During The Operation, Thereby Improving Work Efficiency And Comfort.



#### High Brightness, Long Lifetime LED Illumination

LED Illuminator, Suitable For Various Observation, With A High Brightness And Long Lifetime Led Illumination System For Both Transmission And Fluorescent Lighting, Proving Even Brightness And Cool Lighting.

#### Intelligent Operating System

#### Objective Coding Converter

It Can Memorize The Illumination Brightness When Using Each Objective. When Different Objectives Are Converted To Each Other, The Light Intensity Is Automatically Adjusted To Reduce Visual Fatigue And Improve Work Efficiency.



#### Use A Dimming Knob To Achieve Multiple Functions

Click: Enter Standby Status, Press + Up-spin: Switch To The Upper Light Source; Double Click: Light Lock Or Unlock, Press + Down-spin: Switch To The Under Light Source; Rotation: Adjust Brightness, Press 3 Seconds: Set The Time Of Turning Off The Light After Leaving.



#### **Fluorescent Observation**

#### **LED Light Makes Fluorescent Observation Easier**

#### Uniform Brightness

Matching With Kohler Illumination, The Flyeye Lens Delivers Uniform Brightness To The Entire Filed Of View, Whether Through The Eyepiece Or Through CCD Camera.

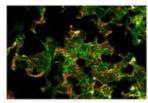
#### · LED Easy To Use

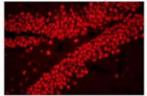
Compared With The Traditional Mercury Bulb, The Led Eliminate Frequent Bulb Replacements, Saving Time And Money. Also The Problems Of Preheating, Cooling And High Temperature Is Solved.

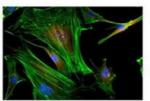


#### Suitable For A Variety Of Fluorescent Dyes

Equipped With 3 Fluorescent Filter Blocks, It Provides A Wide Range Of Choice Of Dyes And Capture Clear High Contrast Fluorescence Images.







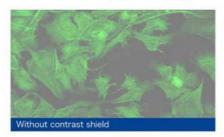
**Breast Cance** 

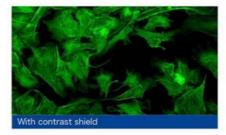
Hippocampus

HC3T3 Mouse Brain Nerve Cells

#### Contrast Shield

The Contrast Shield Can Effectively Block The Interference Of The External Light, Increase The Contrast Of The Fluorescent Image, And Provide A High Signal-to-noise Ratio Fluorescent Image. When Need Phase Contrast Observation, The Contrast Shield Is Very Convenient To Be Removed From The Light Path, Avoiding Influence On The Quality Of Phase Contrast.





#### Convenient For Cell Sampling And Aseptic Manipulation

## The Microscope Control Mechanism Is Reasonable In Layout And Easy To Operate

The Frequently Used Control Mechanisms Are Close To The User And In Low-hand Position. This Kind Of Design Makes Operation More Quickly And Conveniently, And Reduce The Fatigue Caused By The Long Observation. On The Other Hand, It Reduces The Airflow And Dust Caused By Large Amplitude Operation, And It Is Very Effective To Reduce The Probability Of Sample Pollution. It Is A Strong Guarantee For The Accuracy And Repeatability Of The Experimental Results.



#### The Body Is Compact, Stable And Suitable For Clean Bench

#### Can Be Sterilized In The Clean Bench

On The Premise Of Ensuring The Effect Of Imaging, A16.1063 Is With Relative Compact Design. The Volume And Weight Of The Body Is Reduced As Much As Possible In Principle Of Stability. The Compact Body Is With Anti-UV Coating And Can Be Placed Into The Clean Bench For Sterilization Under UV Lamp.



#### Cell Sampling And Operation Can Be Performed In Clean Bench

The Distance Between The Eye Point To The Operation Button And The Focusing Knob Of The A16.1063 Is Relatively Short, And The Distance From The Stage Is Far Away. It Is Available To Make The Viewing Head And Operating Mechanism Outside, And Stage, Objectives And Sample Inside. So Realize Cell Sampling And Operation Inside And Observing Comfortably Outside.

#### Various Holders For Different Culture Containers

Various Holders Are Available For Different Culture Containers, Such As Petri Dishes, Well Plates, And Culture Flasks. As Well As Available For Different Size Petri Dishes.







Terasaki



0

Petri Dish Peteri Dish



#### **Detachable Condenser**

When Culture Flask Is Used, The Condenser Can Be Removed To Increase Working Distance. It Is Also Suitable For Multilayer Culture Flask.



#### **Transmission**

#### **Phase Contrast**

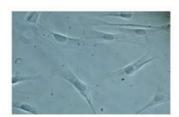
By Using Changes In The Refractive Index, High Contrast Microscopic Images Of Transparent Samples Can Be Obtained With Phase Contrast Observation Technique. The Advantage Is That The Details Of Live Cell Imaging Can Be Obtained Without Staining And Fluorescent Dyes.

Application Range: Living Cells In Culture, Microorganism, Tissue Slide, Subcellular Graims (including Cell Nuclei And Organelles).





With Slant Light, Changing Phase Gradient Into Light Intensity Variety, It Can Be Used To Observe Unstained Cells And Living Cells.









#### **DIC 3D Emboss Contrast**

Even Without Extra Optical Components, No Glare 3D Image Can Be Obtained Just Through Adding Adjustment Slider. Both Glass And Plastic Petri Dishes Are Available.



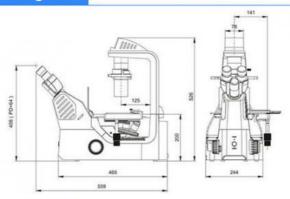
	Inverted Biological Microscope, Inverted LED Fluorescent Microscope	A14.1 063	A14.1 064	A16.1 063	A16.1 064	Cata. No.
Optical System	NIS60 Infinite Optical System (F200)	•	•	•	•	
	Bright Field,	•	•	•	•	
	Phase Contrast	•	•	0	0	

Observation Method	Epi i ladiocolice	0	0	•	•	1
	DIC 3D Emboss Contrast	0	0	0	0	
	Hoffman Phase Contrast	0	0	0	0	
	Seidentopf Viewing Head, Inclined At 45°, Interpupillary					
Head	Distance 48-75mm, Eyepiece Tube Dia.30mm	•	•	•	•	
	EW10x/22mm, Diopter Adjustable, Dia.30mm	•	•	•	•	A51.1030-1022
Eyepiece / F.O.V	EW15x/16mm, Diopter Adjustable, Dia.30mm	0	0	0	0	A51.1030-1516
Eyepiece / F.O.V			0	0	0	1
	EW20x/12mm, Diopter Adjustable, Dia.30mm	0	-			A51.1030-2012
losepiece	Quintuple Nosepiece, Dovetail Interface	•	-	•	-	
<u> </u>	Coded Quintuple Nosepiece, Dovetail Interface	-	•	-	•	
	4x/0.10, W.D.30.0mm	•	•	0	0	A5M.1032-4
.WD Infinity Plan	10x/0.25, W.D.10.2mm	0	0	0	0	A5M.1032-10
Objective	20x/0.40, W.D.12.0mm	0	0	0	0	A5M.1032-20
	40x/0.60, W.D.2.20mm	0	0	0	0	A5M.1032-40
	4x/0.10, W.D.30.0mm	0	0	0	0	A5C.1038-4
.WD Infinity Plan	10x/0.25, W.D.10.2mm	•	•	0	0	A5C.1038-10
Phase Contrast	· ·		-	0	0	+
Objective	20x/0.40, W.D.12.0mm	•	•			A5C.1038-20
	40x/0.60, W.D.2.20mm	•	•	0	0	A5C.1038-40
	4x/0.13, W.D.17.0mm	0	0	0	0	A5C.1039-4
	10x/0.3, W.D.7.4mm	0	0	0	0	A5C.1039-10
WD Infinity Plan	20x/0.45, W.D.8.0mm	0	0	0	0	A5C.1039-20
Semi-APO	40x/0.60, W.D.3.6mm	0	0	0	0	A5C.1039-40
hase Contrast	20x/0.45, W.D.7.5-8.8mm With Iris Adjustable	0	0	0	0	A5C.1040-20
Objective			-			
	40x/0.60, W.D.3.0-4.4mm With Iris Adjustable	0	0	0	0	A5C.1040-40
	60x/0.70, W.D.1.8-2.6mm With Iris Adjustable	0	0	0	0	A5C.1040-60
WD Infinity Plan	4x/0.13, W.D.17.0mm, Cover Glass -	-	-	•	•	A5F.1032-4
Semi-APO	10x/0.30, W.D.7.4mm, Cover Glass1.2mm		_	•	•	A5F.1032-10
	20x/0.45, W.D.8.0mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-20
luorescent	40x/0.60, W.D.3.3mm, Cover Glass1.2mm	-	-	•	•	A5F.1032-40
Objective	60x/0.70, W.D.1.8-2.6mm, Cover Glass1.2mm	0	0	0	0	A5F.1032-60
	Coaxial Coarse & Fine Adjustment, Tension Adjustable (At					7.01.11002.00
	Right Hand), Fine Division 0.002mm, Coarse Focusing					
ocusing System		•	•	•	•	
	Range Up 7mm, Down 1.5mm, Max Up To 18.5mm After					
	Removing Focusing Limit.					
	Plain Working Stage 170(X) x 250(Y)mm,	•	•	•	•	
	Attachable Mechanical Moving Stage, X-Y Coaxial Moving					A54.1063-XY
	128x80mm	,				7.0 11 1000 7.1
	Stage Clip	•	•	•	•	A54.1063-SC
	Well Clamper For Well Plate	•	•	•	•	A54.1063-WC
	Glass Stage Plate	•	•	•	•	A54.1063-G
		_	_	_	_	
Morking Stage	Metal Stage Plate For Culture Bottle	0	0	0	0	A54.1063-M
vorking Stage	Auxilliary Plate 2 Pieces (1 Piece Each Side)	•	•	•	•	A54.1063-A
	Universal Holder		-		-	A54.1063-U
		•	•	•	•	+
	Terasaki Holder	0	0	0	0	A54.1063-T
	Dia.35mm Petri Dish Holder	0	0	0	0	A54.1063-35
	Dia.54mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-54
	Dia.65mm Slide & Petri Dish Holder	0	0	0	0	A54.1063-65
	Dia.90mm Petri Dish Holder	0	0	0	0	A54.1063-90
	Long Working Distance Detachable Condenser NA					
Condenser	0.3, W.D.75mm, Without Condenser W.D.187mm	•	•	•	•	
	Transmitted Illumination 3W S-LED Critical Illumination					
		•	-	•	-	
llumination	Transmitted Illumination 3W S-LED Kohler Illumination	-	•	-	•	
	Reflected Illumination 3W LED, For Epi-Fluorescence	0	0	•	•	
<b>.</b>	Centering Telescope 10x, Tube Dia. 30mm	•	•	0	0	A5C.1063-T
	Phase Slider For 4x//10x-20x-40x	•	•	0	0	A5C.1063-S
hase Contrast	Phase Slider For 10x-20x,40x APO Objectives	0	0	0	0	A5C.1063-APOS
	Phase Slider For 4x,60x APO Objectives	0	0	0	0	A5C.1063-APOS
Emboss Contrast	Emboss Contrast Slider For 10x-20x-40x	_	_		_	7.00.1000 7.11 00.1
DIC		0	0	0	0	A5C.1063-DIC
710	Universal Emboss Contrast Plate For 10x-20x-40x					
	Hoffman Phase Contrast Set:					
loffman Phase	Hoffman Phase Contrast Condenser, With Polarizer,		_			450 4004
Contrast	Hoffman Phase Contrast Objective 10x, 20x, 40x	0	0	0	0	A5C.1064
	Hoffman Phase Slider For 10x, 20x, 40x					
	Centering Telescope 10x, Tube Dia. 30mm					
	Epi-Fluorescence Attachment, Turret With 3 Holes For Filter					
	Cubes, With Noise Terminator Mechanism, With Attachable	0	0	•	•	
	UV Shield				L	
	Filter Cube B + LED Unit, 365nm	0	0	•	•	A5F.1063-B
	Filter Cube G + LED Unit, 405nm	0	0	•	•	A5F.1063-G
-: Fl.				•	•	A5F.1063-U
•	· · · · · · · · · · · · · · · · · · ·	0				
•	Filter Cube U + LED Unit, 485nm	0	0			1
pi-Fluorescence	Filter Cube U + LED Unit, 485nm Filter Cube V + LED Unit, 525nm	0	0	0	0	A5F.1063-V
•	Filter Cube U + LED Unit, 485nm		-			1

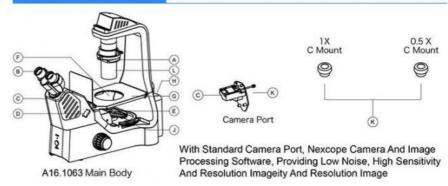
	Filter Cube TRITC					A5F.1063-TRITC
Photo Port	Head Side Camera Port Switchable 100/0:0/100	•	•	•	•	
Photo Adapter	1.0x C-Mount	•	•	•	•	A55.1063-1.0
	0.5x C-Mount	0	0	0	0	A55.1063-0.5
	0.7x C-Mount	0	0	0	0	A55.1063-0.7
Power Supply	AC 100-240V,50/60Hz	•	•	•	•	
ECO Function	Auto Power Off 15 Minutes After No Operator Working	0	-	0	-	
LCD Screen	LCD Screen On Front Of Body, Display Using State Of Microscope, Including Magnification, Light Intensity, Standby Status, <b>ECO</b> Set Power Off Timer 5 Mins to 8 Hours, And So On.	-	•	-	•	
Dimensions	244(W)x543(D)x526(H) mm	•	•	•	•	

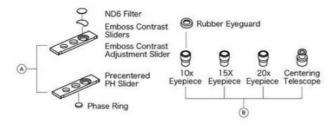
Note:"•"In Table Is Standard Outfits,">" Is Optional Accessories "-" Is Unavailable

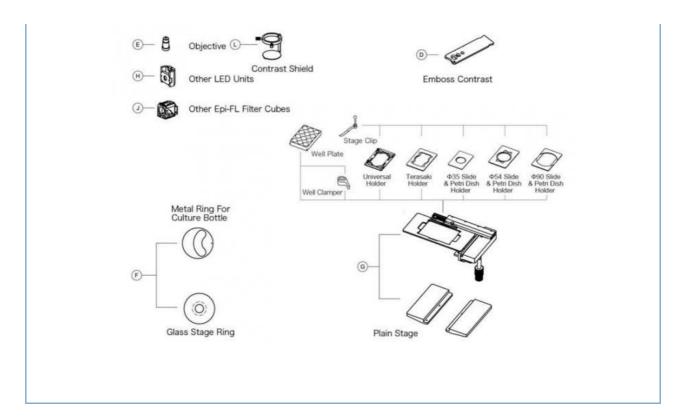
## **Dimension Figure**



## **System Diagram**







### Opto-Edu (Beijing) Co., Ltd.







cnoec.com

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