



## Rohs OPTO EDU A17.1091 Manual Microscope Research Laboratory 10 People

### Our Product Introduction

#### Basic Information

- Place of Origin: China
- Brand Name: CNOEC, OPTO-EDU
- Certification: CE, Rohs
- Model Number: A17.1091-10
- Minimum Order Quantity: 1 pc
- Price: FOB \$1~1000, Depend on Order Quantity
- 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

- Main Body: Manual Body + Halogen Illumination
- Head: Seidentopf Trinocular Head, Inclined 30°
- Eyepiece: SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm
- Nosepiece: Manual Nosepiece, Sextuple, Backward
- Objective: NIS60 N-PLN Infinity Plan Objective
- Working Stage: Double Layer Mechanical Stage Full Size 302x152mm
- Highlight: **opto edu multi viewing microscope, opto edu manual microscope, 25mm eyepiece manual microscope**



#### More Images



## Product Description

### A17.1091 Multi Viewing Research Laboratory Microscope

#### Auto Light Intensity Management

The Management system can automatically adjust to the suitable light intensity according to the different setup of objectives from the low to high magnifications, and reduce the eye fatigue at the same time.

The long-life LED lamp can keep the light intensity and easy for maintenance.



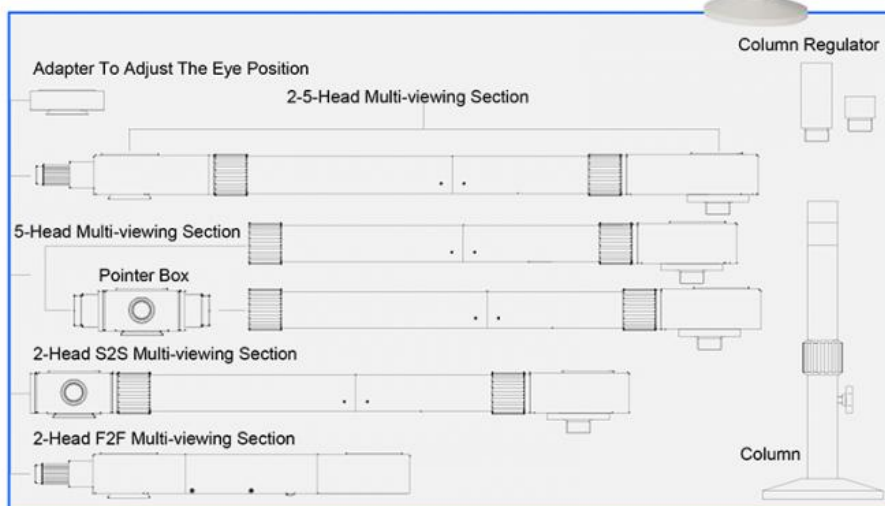
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## A17.1091

### Multi Viewing Research Laboratory Microscope



## A17.1091 Series Microscope



**A17.1091-2** Multi Viewing Research Laboratory Microscope, 2 Heads Opsite, Trinocular



**A17.1091-10** Multi Viewing Research Laboratory Microscope, 10 People, Manual, Deca Heads, Trinocular



**A17.1091-3** Multi Viewing Research Laboratory Microscope, 3 Heads, Trinocular



**A17.1091-2L** Multi Viewing Research Laboratory Microscope, 2 Heads Left Side, Trinocular



**A17.1091-5** Multi Viewing Research Laboratory Microscope, 5 Heads, Trinocular



**A17.1091-2R** Multi Viewing Research Laboratory Microscope, 2 Heads Right Side, Trinocular

## A17.1091-10 Multi Viewing Microscope



**A17.1091-10** Multi Viewing Research Laboratory Microscope, 10 People, Manual, Deca Heads, Trinocular



#### ECO Function

The transmitted light would be off automatically after 30 minutes from operators leave. It will not only save energy, but also extend the lamp's life

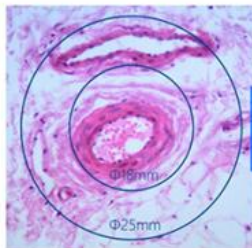
#### Low-position Control Knobs

The height of the stage control knobs can be adjusted up or down by 18mm to ensure a comfortable hand position, and with adjustable tension control



#### Adapter To Lower Stage Position

To lower the stage by 1", by adding a block up the nosepiece, so that operators can change the slides position easily and comfortably



#### Large Field Eyepiece

SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm



## A17.1091-2,2R,2L,3,5 Multi Viewing Microscope





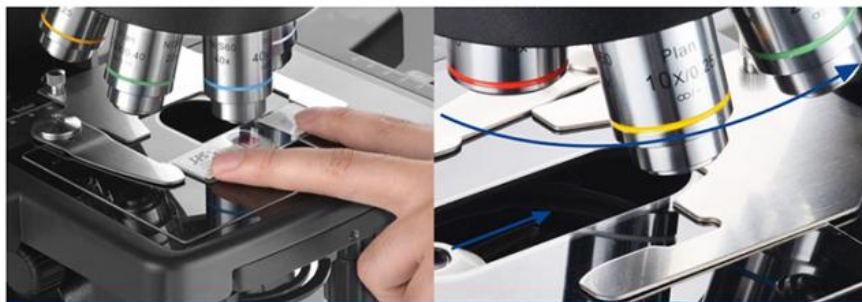
#### Ergo Tilting Trinocular Head

Eye tube can be adjustable from  $0^{\circ}$  to  $35^{\circ}$ . Trinocular tube can be connected to SLR camera and digital camera, having a 3-position beam splitter (0:100, 100:0, 80:20), the splitter bar can be assembled on the either side according to user's requirement.



#### Adapter To Lower Stage Position

To lower the stage by 1", by adding a block up the nosepiece, so that operators can change the slides position easily and comfortably



#### Put Slides By One Hand

It is easy for operators to put slides by one hand due to the convex point guide mechanism.

#### Sapphire Glass Stage Insert

Mechanical stage with a gorilla glass insert is durable and allows operators to easily clear the stage. We have sapphire glass for your optional choice.

#### Auto Coded Nosepiece & Auto Condenser

Automatically swing-out and swing-in the top-lens element according to the objective lens that is selected via the intelligent linking.



#### Focusing System

Coaxial focusing system with low-position X-Y coaxial control knobs. The ergonomic design provides operators comfortable experience.

#### Nosepiece Rotating Buttons

This microscope has the function of automatically rotating nosepieces and adjusting the light intensity.

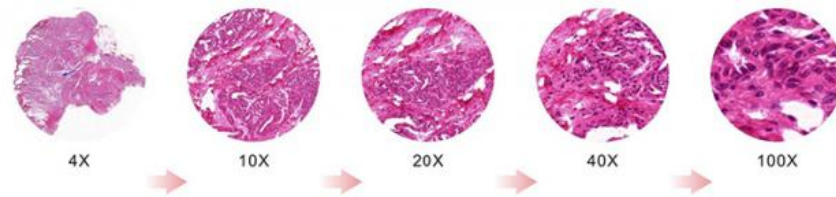
#### Low-position Control Knobs

The height of the stage control knobs can be adjusted up or down by 18mm to ensure a comfortable hand position, and with adjustable tension control





**Left/Right Focusing Wheel Interchangeable**  
In order to better adapt to users with different operating habits, the focus and stage can be easily adjusted to the left or right hand position for operation



**Image Capture Button**  
The digital camera could capture images just by pressing the black 'capture' button at the side of base



**Remote Control Pad**  
Objectives could be switched by simply pressing the rotating buttons. User can also self-define two of the most commonly used objectives, and switch between these two objectives by pressing the green button.

A17.1091 Multi Viewing Research Laboratory Microscope		2	2R	2L	3	5	10	Cata.No.
Optical System	NIS60 Infinity Optical System	●	●	●	●	●	●	
Observation Method	Bright Field	●	●	●	●	●	●	
	Dark Field	○	○	○	○	○	○	
	Polarizing	○	○	○	○	○	○	
	Phase Contrast	○	○	○	○	○	○	
	Flourescent	○	○	○	○	○	○	
Main Body	DIC	○	○	○	○	○	○	
	Manual Body + Halogen Illumination(LED Illumination Optional).						●	A54.1090-BH
Head	ATH Semi-Auto Body + Halogen Illumination(LED Illumination Optional). Auto Nosepiece + Auto Condenser + Auto Brightness Adjust	●	●	●	●	●		A54.1090-ATH
	Seidentopf Trinocular Head, Inclined 30°, Interpupillary Distance 47-78mm, 3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100						●	A53.1090-T
Multi Viewing	Ergo Tilting Trinocular Head, Inclination 0°~35°, Interpupillary Distance 47-78mm, 3 Level Ligth Split Switch E100:P0/E20:P80/E0:P100	●	●	●	●	●		A53.1090-TT
	2 Heads Opsite	●						
	2 Heads Right Side		●					
	2 Heads Left Side			●				
	3 Heads, Trinocular				●			

Head	5 Heads, Trinocular					●		
	Deca Heads, Trinocular						●	
Eyepiece	SW10x/25mm, High Eyepoint, Diopter Adjustable, Dia.30mm	●●	●●	●●	●●	●●	●●	A51.1090-1025
	SW10x/22mm, High Eyepoint, Diopter Adjustable, Dia.30mm	○	○	○	○	○	○	A51.1090-1022
	EW12.5x/16mm, High Eyepoint	○	○	○	○	○	○	A51.1090-12516
	WF15x/16mm, High Eyepoint, Diopter Adjustable, Dia.30mm	○	○	○	○	○	○	A51.1090-1516
	WF20x/12mm, High Eyepoint, Diopter Adjustable, Dia.30mm	○	○	○	○	○	○	A51.1090-2012
Nosepiece	Manual Nosepiece, Quintuple, Backward, Center Adjustable							A54.1091-5M
	Manual Nosepiece, Sextuple, Backward						●	A54.1091-6M
	Coded Nosepiece, Sextuple, Backward, For Auto Brightness Adjust						○	A54.1091-6C
	Auto Coded Nosepiece, Sextuple, Backward, Motorized Switch Objectives, Controlled By: 1. Shortcut Button On Right Side Of Base, Can Switch 2 Preseted Objectives Quickly 2. Remote Control Pad In Front Of Base, Press Each Button To Switch Objectives And Adjust The Light Intensity Automatically. 2 Buttons Can Be Self-Defined For Most Commonly Used Objectives, Press Green Button Can Swap Between Them	●	●	●	●	●	○	A54.1091-6A
	With Slot For Polarizing Compensator Slider Or DIC Slider	●	●	●	●	●	●	
	Protect Cover For Nosepiece Holes	●	●	●	●	●	●	
NIS60 N-PLN Infinity Plan Objective	2x/0.06, W.D.7.5mm, Cover Glass 0.17mm	○	○	○	○	○	○	A52.1090-2
	4x/0.10, W.D.30mm, Cover Glass 0.17mm	●	●	●	●	●	●	A52.1090-4
	10x/0.25, W.D.10.2mm, Cover Glass 0.17mm	●	●	●	●	●	●	A52.1090-10
	20x/0.40, W.D.12mm, Cover Glass 0.17mm	●	●	●	●	●	●	A52.1090-20
	40x/0.65, W.D.0.7mm, Cover Glass 0.17mm	●	●	●	●	●	●	A52.1090-40
	50x/0.95(Oil), W.D.0.19mm, Cover Glass 0.17mm	○	○	○	○	○	○	A52.1090-50
	60x/0.8, W.D.0.3mm, Cover Glass 0.17mm	○	○	○	○	○	○	A52.1090-60
	100x/1.25(Oil), W.D.0.2mm, Cover Glass 0.17mm	●	●	●	●	●	●	A52.1090-100
NIS60 APO Infinity Plan	20x/0.75, W.D.1.1mm, Cover Glass 0.17mm	○	○	○	○	○	○	A52.1091-20
	100x/1.45(Oil), W.D.0.13mm, Cover Glass 0.17mm	○	○	○	○	○	○	A52.1091-100
Working Stage	Double Layer Mechanical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Gorilla Glass Insert, Left Handle						○	A54.1092-GL
	Double Layer Mechanical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Gorilla Glass Insert, Right Handle						●	A54.1092-GR
	Double Layer Mechanical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Left Handle	○	○	○	○	○		A54.1092-SL
	Double Layer Mechanical Stage Full Size 302x152mm, Stage Table Size 190x152mm, Moving Range 78x32mm, Double Slide Holder, With Sapphire Glass Insert, Right Handle	●	●	●	●	●		A54.1092-SR
	Low Position Control Knob, Height Adjustable Up/Down 18mm, Convex Point Guide Mechanism For Easily Put Slide By One Hand, With Tension Adjustable Ring, With Safety Stop Screw	●	●	●	●	●	●	
Condenser	Swing-Out Condenser NA0.9/0.25						●	A56.1091-S
	Auto Swing-Out Condenser NA0.9/0.25	●	●	●	●	●		A56.1091-A
Focusing	Coaxial Coarse & Fine Focusing, Fine Division 0.001mm, Focusing Range 35mm, Coarse Stroke 37.7mm, Fine Stroke 0.1mm, Can Exchange Hand Wheel Between Left/Right	●	●	●	●	●	●	



Light Source	Transmit Kohler Illumination, Brightness Adjustable, 12V100W Halogen, External Lamp House	●	●	●	●		●	A56.1090-12V100W
	Transmit Kohler Illumination, Brightness Adjustable, 3W S-LED, Built-in Main Body					●		A56.1090-3WLED
	ECO Function Support Auto Power Off After 30 Mins From Operator Leave To Save Energy	●	●	●	●	●	●	A56.1090-ECO
	Auto Brightness Adjust, Brightness For Each Objective Can Be Memorized And Restored When Objective Is Selected	●	●	●	●	●	○	A56.1090-AB
	A12.1091 Upgradeable To Auto Brightness Adjust, Must Upgrade To A54.1091-6C Coded Nosepiece At Same Time							
Filter For Transmit Light	Filter Holder On Base, Can Hold 3 Filters	●	●	●	●	●	●	A56.1092-H
	Filter LBD	●	●	●	●	●	●	A56.1092-LBD
	Filter Green	●	●	●	●	●	●	A56.1092-G
	Filter Yellow	●	●	●	●	●	●	A56.1092-Y
	Filter ND6	●	●	●	●	●	●	A56.1092-ND6
	Filter ND25	●	●	●	●	●	●	A56.1092-ND25
Adapter	Eyepiece Adapter Dia.23.2mm	○	○	○	○	○	○	A55.1090-E
	C-Mount 1.0x	○	○	○	○	○	○	A55.1090-1.0x
	C-Mount 0.5x	○	○	○	○	○	○	A55.1090-0.5x
Software	NOMIS Basic Image Processing Software	○	○	○	○	○	○	A30.1090
Full-Auto Motorized Control Unit	Including Control Stick, Controller Box, Z Axis Moto Control Part, Motorized X/Y Mechanical Stage --Travel Range X:125mm, Y:75mmmm, --Minimum Step 0.1um --Re-Position Accurate +/-1.5um --Max Speed 25mm/s --Size: 275x239x44.5mm --Soft Stop, Mechanical Stop, Opto-Electro Switch Stop --Z Axis Re-Position Accurate: Average +/-1.5um, Near Focus +/-0.1um --Z Axis Max Speed 10r/s --3D Control Stick, 4 Speeds --Connection By USB2.0 & RS232 --Communication Speed 9600 bits	○	○	○	○	○		A54.1095-A
	Upgrade To Z Axis With Optical Grating Ruler	○	○	○	○	○		A54.1095-B
Dark Field	Dark Field Condenser, N.A. 0.7~0.9, Dry	○	○	○	○	○	○	A5D.1090-D
	Dark Field Condenser, N.A. 1.25~1.36, Immersion	○	○	○	○	○	○	A5D.1090-I
	Dark Field Objective, Infinity Plan 100X, For Immersion Dark Field Observation	○	○	○	○	○	○	A5D.1030-3
	Dark Field Objective, Infinity Plan 100X, With Iris Diaphragm, For Immersion Dark Field Observation	○	○	○	○	○	○	A5D.1030-4
Polarizing	Polarizer For Transmit Light Source	○	○	○	○	○	○	A5P.1091-P
	Analyzer Slide For Transmit Light Source	○	○	○	○	○	○	A5P.1091-A
Phase Contrast	Turret Phase Contrast Condenser, Center Adjustable	○	○	○	○	○	○	A5C.1090
	Centering Telescope 10x	○	○	○	○	○	○	A5C.1092
	Infinity Plan Phase Contrast Objective N-PLN PH 10x/0.25	○	○	○	○	○	○	A5C.1091-10
	Infinity Plan Phase Contrast Objective N-PLN PH 20x/0.40	○	○	○	○	○	○	A5C.1091-20
	Infinity Plan Phase Contrast Objective N-PLN PH 40x/0.65	○	○	○	○	○	○	A5C.1091-40
	Infinity Plan Phase Contrast Objective N-PLN PH 100x/1.25(Oil)	○	○	○	○	○	○	A5C.1091-100
DIC	Polarizer For Transmit Light Source	○	○	○	○	○	○	A5P.1090-TP
	Turret DIC Condenser	○	○	○	○	○	○	A5C.1095
	DIC Slide 10x, Used With Semi-APO Fluorescent Objective	○	○	○	○	○	○	A5C.1095-10
	DIC Slide 20x/40x, Used With Semi-APO Fluorescent Objective	○	○	○	○	○	○	A5C.1095-2040

	DIC Slide 100x, Used With Semi-APO Fluorescent Objective	○	○	○	○	○	○	A5C.1095-10
	DIC Slide With Analyzer 10x-20x	○	○	○	○	○	○	A5C.1095-1020P
	DIC Slide With Analyzer 40x-100x	○	○	○	○	○	○	A5C.1095-40100P
NIS60 N-PLFN Semi-APO Fluorescent Objective For DIC	10x/0.3, W.D.8.1, Cover Glass 0.17mm	○	○	○	○	○	○	A5F.1091-10
	20x/0.5, W.D.2.1, Cover Glass 0.17mm	○	○	○	○	○	○	A5F.1091-20
	40x/0.75, W.D.0.7, Cover Glass 0.17mm	○	○	○	○	○	○	A5F.1091-40
	100x/1.3, W.D.0.15, Cover Glass 0.17mm	○	○	○	○	○	○	A5F.1091-100
Other Accessories	Working Stage Holder Bracket	●	●	●	●	●	●	A54.1096
	Adapter To Adjust Eye Position	○	○	○	○	○	○	A54.1096-A1
	Adapter To Lower The Stage Position 1"	○	○	○	○	○	○	A54.1096-A2
	Immersion Oil	●	●	●	●	●	●	A50.1090-01
	Allen Wrench	●	●	●	●	●	●	A50.1090-02
	Power Cord	●	●	●	●	●	●	A50.1090-03
	Short Eye Cover, For Eyepiece	○	○	○	○	○	○	A50.1090-04
	Long Eye Cover, For Eyepiece	○	○	○	○	○	○	A50.1090-05
	Eyepiece Micrometer, Cross	○	○	○	○	○	○	A50.1090-06
	Adapter Ring To Install Eyepiece Micrometer	○	○	○	○	○	○	A50.1090-07
	USB Cable	○	○	○	○	○	○	A50.1090-08
Note: "●" In Table Is Standard Outfits, "○" Is Optional Accessories "-" Is Unavailable								

## Product Accessories

### N-PLN Series Plan Objectives

These plan objectives can provide flat image through the light from visible light to NIRS. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast image result

### N-PLFN Series Plan Fluorescent Objectives

Owe to the multilayer coating technology, these S-APO objective can compensate the spherical aberration and the chromatic aberration from ultraviolet to infrared light. High-sensitive fluorescence ensure the acuity, articulation and color reduction of image, to provide the digital image of high-quality and high-function.

### N-PLM Series Plan PH Objectives

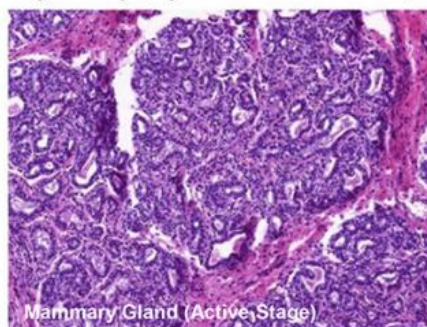
They are the good choice for clinic and scientific research. These high-quality plan objective can provide advanced plan image of 25mm FOV under bright field & transmitted light. NIS60 series plan phase contrast objectives are specially designed for phase contrast viewing.

### N-PLPN Series APO Plan Objectives

The newly-launched advanced **Apochromatic** objective lens has a high level of chromatic aberration correction capability, high resolution, and ensures a high level of wave phase aberration correction function in the full field of view. It is an ideal choice for routine laboratory observation work and digital imaging objectives.

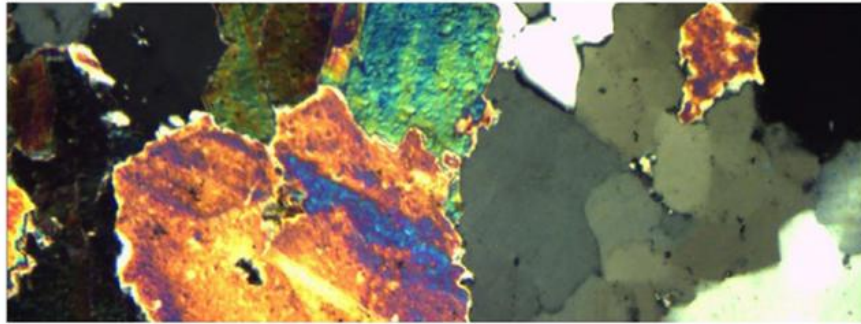
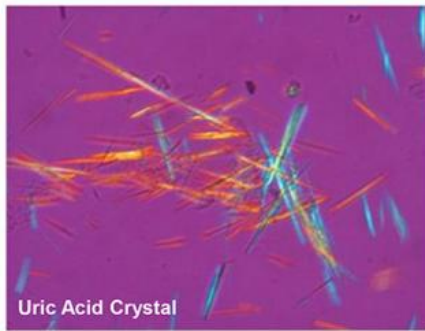
### ◆ Bright-field Viewing

Brighter image, high resolution and flatness, suitable for all the magnifications



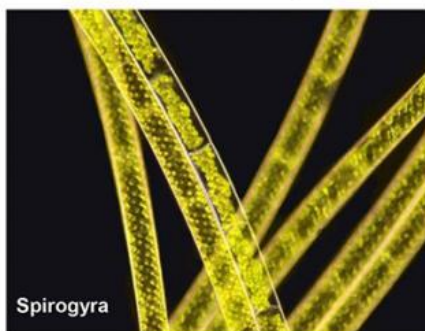
#### ◆ Polarizing Viewing

It is quite suitable for viewing collagen, amyloid and crystal etc. double refracting specimen.



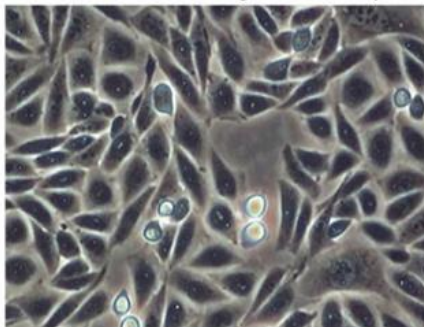
#### ◆ Dark-field Viewing

It can be used for clearly viewing of blood or flagellum etc. fine structure.



#### ◆ Phase Contrast Viewing

Operators can get high contrast image of neutral background color whatever the magnifications are. It is suitable for viewing non-stained specimen.



#### ◆ DIC Phase Contrast Viewing

DIC increases the contrast of the sample, and enables the nucleus and larger organelles such as mitochondria to have a strong three-dimensional effect, which is more suitable for micromanipulation. At present, it is mostly used for micromanipulation of gene injection, nuclear transfer, genetically modified animals and other bioengineering



Red Blood Cells & White Blood Cells



Saccharomyces Cerevisiae



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