



ECLIPSE *Ti2*-U Inverted Microscope for ICSI



Shedding New Light
On **MICROSCOPY**

Superior optical performance and precision for ICSI

Nikon microscopes have played a significant role from the early days of Intracytoplasmic Sperm Injection (ICSI) and continue to contribute to the advancement of this field through superior optical performance and precision.

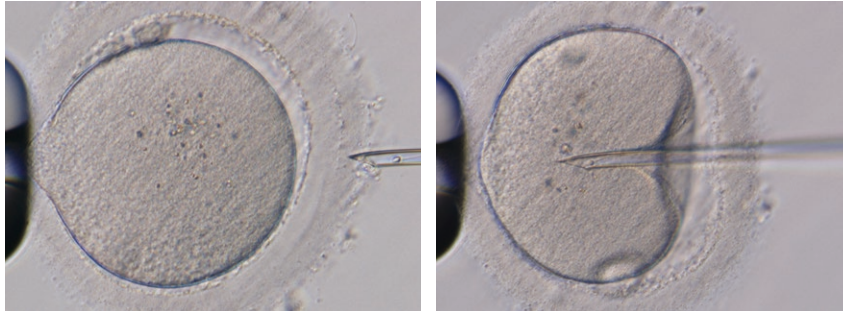
The ECLIPSE Ti2-U IVF EU/US provides an ultra-stable platform for performing precision manipulation procedures such as ICSI. The intermediate magnification switching function (1.5X) allows easy switching of observation magnification without changing objectives.



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Nikon Advanced Modulation Contrast (NAMC) observation

The Nikon Advanced Modulation Contrast (NAMC) technique enables high-contrast observation of colorless and transparent samples through plasticware. NAMC produces a pseudo-relief shading effect, ideal for ICSI. The direction of shading can be adjusted through 360 degrees by turning the modulator in a NAMC objective. CFI S Plan Fluor ELWD NAMC objectives are equipped with a modulator ring clamping mechanism to prevent accidental rotation of the modulator ring while rotating the correction collar.



A sperm cell can be clearly observed in the injection pipette
Images courtesy of: Derek Keating, B.A. and Gianpiero D. Palermo, MD, PhD., Andrology and Assisted Fertilization: Weill Cornell Medicine Ronald O. Perelman and Claudia Cohen Center for Reproductive Medicine.



CFI S Plan Fluor ELWD NAMC 20XC (left),
CFI S Plan Fluor ELWD NAMC 40XC (right)

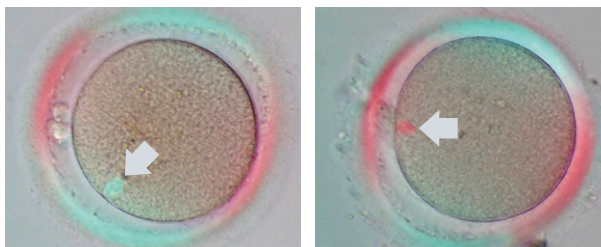


CFI Achromat NAMC 10XF (left),
CFI Achromat LWD NAMC 20XF (middle),
CFI Achromat LWD NAMC 40XC (right)

Spindle observation

This polarized light technique enables finely detailed observation of spindle bodies for oocyte assessment and the elimination of spindle damage during sperm injection. Switching between spindle observation and NAMC is fast and easy.

The following objectives are compatible with spindle observation: CFI S Plan Fluor ELWD NAMC 20XC and CFI S Plan Fluor ELWD NAMC 40XC.



Spindle bodies (indicated by arrows) observed in different colors depending on their orientation. The color can be changed from blue to red by rotating the condenser module 90 degrees.



T12-C-SO Spindle observation system



Specifications

Model name		ECLIPSE Ti2-U IVF EU	ECLIPSE Ti2-U IVF US
Main Body	Optical System	Infinity-corrected CFI60	
	Field Number	22 with C-mount, 25 with F-mount	
	Intermediate Magnification Switching	Manual switching of 1.0x/1.5x	
	Output Port	4 Manual positions Eyepiece 100%, left 100%, right 100%, eyepiece 20%/left 80%	
	Focusing Unit	Manual drive, Coarse/Fine focusing knob, Focusing stroke: 10 mm	
Tube	• TC-T-TS Binocular S tube (Field number 22)		
Eyepiece Tube Base	• TI2-T-B5 S Eyepiece Tube Base Unit		
Eyepiece	• CFI 10X Eyepiece (Field number 22)		
Transmitted Illumination	Pillar for transmitted illumination	• TI2-D-PDI Pillar I for Dia Illumination Condenser vertical stroke: 66 mm, Backward tilting up to 25 degrees, with field diagram and refocusing mechanism	
	LED Lamphouse for Dia Illumination	• TI2-D-LHLED LED Lamp House for Dia Illumination: High power LED	
Condenser	Condenser Turret	• TC-C-TC Condenser Turret: 7 manual positions	
	Condenser Lens	• TI-C NAMC Condenser Lens (O.D.=44 mm, NA=0.4)	
	Modules for Condenser Turret	• TC-C-MN-10X NAMC 10X Module • TC-C-MN-20X NAMC 20X Module • TC-C-MN-40X NAMC 40X Module	
	Polarizer for NAMC Observation	• TC-C-DICPNI NAMC/MSI Polarizer	
Stage	• TC-S-SRI Stage IVF Stroke X: ±57 mm, Stroke Y: ±36.5 mm • TI2-S-HL Long Handle	• TC-S-SR Stage Stroke X: ±57 mm, Stroke Y: ±36.5 mm • TI2-S-HL Long Handle	
Nosepiece	• TI2-N-ND DIC Sextuple Nosepiece: 6 manual positions, Simple waterproof structure • TI2-N-N Sextuple Nosepiece: 6 manual positions, Simple waterproof structure		
Spindle Observation System	• TI2-C-SO Spindle Observation System		
Adjustment Tool	• C-T Centering Telescope		
Objectives (NA/W.D.) W.D.=mm	<ul style="list-style-type: none"> • CFI Achromat 4X (0.10/30.0) • CFI Achromat NAMC 10XF (0.25/6.20) • CFI Achromat LWD NAMC 20XF (0.40/3.10) • CFI Achromat LWD NAMC 40XC (0.55/2.70-1.70) • CFI Plan Fluor 4X (0.13/17.20) • CFI S Plan Fluor ELWD NAMC 20XC (0.45/8.20-6.90) • CFI S Plan Fluor ELWD NAMC 40XC (0.60/3.60-2.80) 		
Power Cord and AC Adapter	• Power Cord Type BE,220-240V • I-AC AC Adapter I	• Power Cord Type BU,100-120V • 4-AC AC Adapter	
Operating Environment	Temperature: 0°C+40°C, Humidity: 60% RH max. (at +40°C, no condensation), Indoor use only		

June 2021 ©2021 NIKON CORPORATION



WARNING

TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.

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N.B. Export of the products* in this brochure is controlled under the Japanese Foreign Exchange and Foreign Trade Law.

Appropriate export procedure shall be required in case of export from Japan.

*Products: Hardware and its technical information (including software)



NIKON CORPORATION

Headoffice

Shinagawa Intercity Tower C, 2-15-3, Konan, Minato-ku, Tokyo 108-6290, Japan

phone: +81-3-6433-3705 fax: +81-3-6433-3785

<https://www.healthcare.nikon.com/en/>

Manufacturer

471, Nagaodai-cho, Sakae-ku, Yokohama, Kanagawa 244-8533 Japan

ISO 14001 Certified
for NIKON CORPORATION

Nikon Instruments Inc.

1300 Walt Whitman Road, Melville, N.Y. 11747-3064, U.S.A.

phone: +1-631-547-8500; +1-800-52-NIKON (within the U.S.A. only)

fax: +1-631-547-0299

<https://www.microscope.healthcare.nikon.com/>

Nikon Europe B.V. (headoffice)

Tripolis 100, Burgenweeshuispad 101, 1076 ER Amsterdam, Netherlands

phone: +31-20-7099-0000 fax: +31-20-7099-298

https://www.microscope.healthcare.nikon.com/en_EU/

Nikon Canada Inc.

CANADA phone: +1-905-625-9910 fax: +1-905-602-9953

Nikon France, Succursale de Nikon Europe B.V.

FRANCE phone: +33-1-4516-4516 fax: +33-1-4516-4505

Nikon Deutschland, Zweigniederlassung der Nikon Europe B.V.

GERMANY phone: +49-211-9414-888 fax: +49-211-9414-322

Nikon Italy, Branch of Nikon Europe B.V.

ITALY phone: +39-055-300-9601 fax: +39-055-300-993

Nikon Europe B.V., Amsterdam, Zweigniederlassung Schweiz (Egg/ZH)

SWITZERLAND phone: +41-43-277-2867 fax: +41-43-277-2861

Nikon UK, Branch of Nikon Europe B.V.

UNITED KINGDOM phone: +44-208-247-1717 fax: +44-208-541-4584

Nikon Österreich, Zweigniederlassung der Nikon Europe B.V.

AUSTRIA phone: +43-1-972-6111 fax: +43-1-972-6111-40