

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://touptek.nt-rt.ru/> || tuo@nt-rt.ru

ZM0756WU1080PA All-in-one Zoom Monocular WiFi/USB Digital Microscope



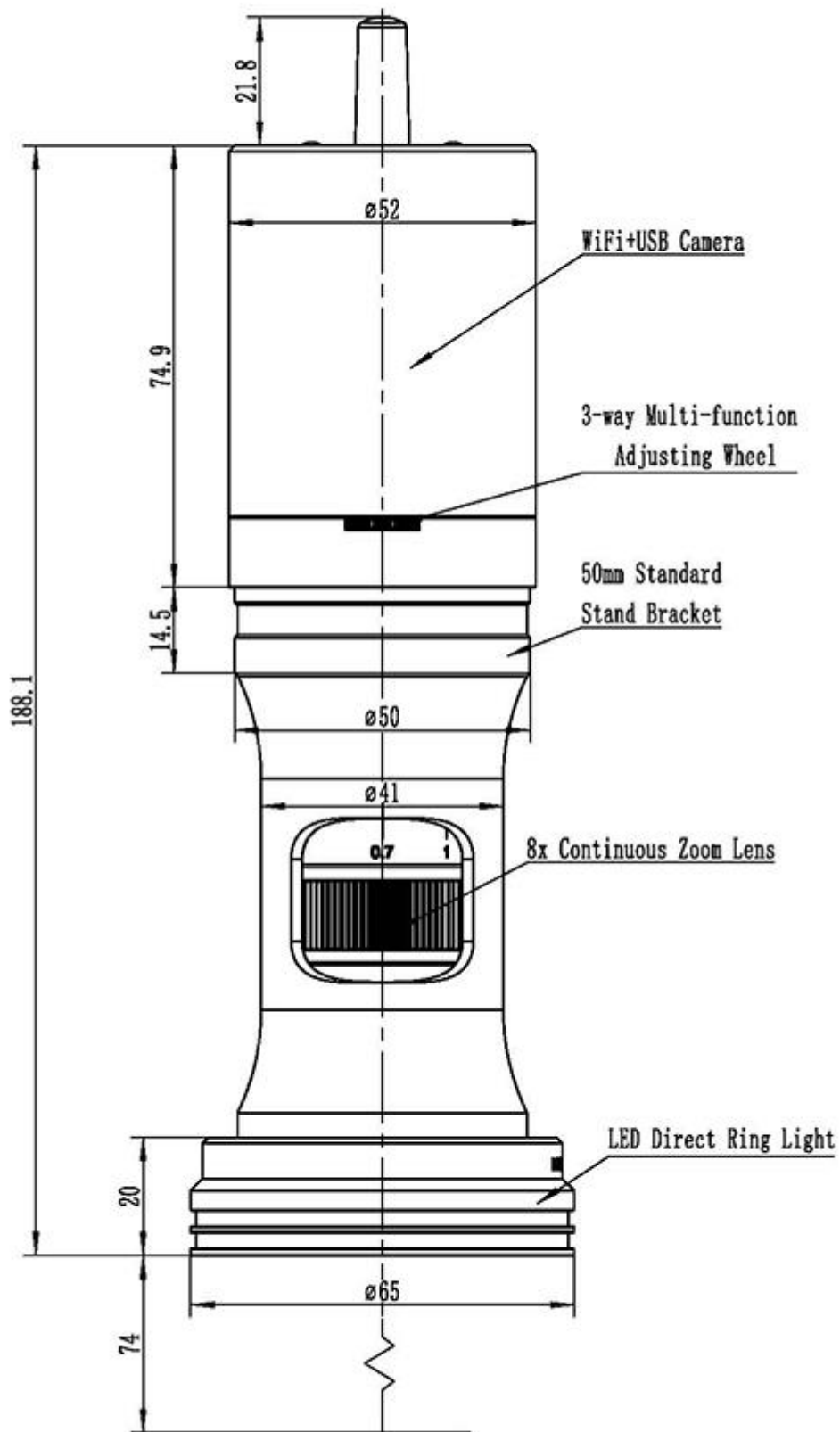
- ☐ Lens, camera and light source all in one
- ☐ 0.7X-5.6X continuous zoom lens
- ☐ Multiple objectives available
- ☐ Magnetic adjustable wireless light source
- ☐ Sony back-illuminated high-sensitivity sensor
- ☐ Real-time 50@1920*1080(WiFi/USB), output
- ☐ ToupView/ToupLite software for easy control and measurement

ZM0756WU1080PA All-in-one Zoom Monocular WiFi/USB Digital Microscope

ZM0756WU1080PA All-in-one Zoom Monocular WiFi/USB Digital Microscope is shown in Figure 1. It has 8x continuous zoom lens ZM0756-W100-TV050, 1080P CMOS sensor WiFi or USB2.0 camera WU1080PA and LED ring light source TZM0756DRL-NPC.

The WU1080PA module can directly complete the video and image acquisition with a computer, and the LED ring light source module is directly connected to the WU1080PA module through the main body of the optical continuous zoom lens with no need of the external power supply.

ZM0756WU1080PA meets the digital imaging observation, inspection and measurement in the fields of modern electronic equipment, semiconductor, laser, led, LCD, industrial on-line detection and biology





The Main Zoom Body TZM0756-W100-TV050's Characteristics

Optical Parameters

Zoom Lens	TZM0756-W100-TV050 zoom lens, 0.7X-5.6X zoom range
Working Distance	37.5mm-160mm (Determined by the auxiliary objective)
NA	0.018-0.092 (With W100, 1x auxiliary objective)
Resolution	18.6um-3.65um (With W100, 1x auxiliary objective)
Field	0.99mm-34.28mm
Optional Objective	0.50x, 0.75x, 1.00x, 1.50x, 2.00x (Optional)
Other Optional Objective	Infinite microscope objective (Both biological microscope objective and metallographic microscope objective can be used)
Dimensions	188mm x 52mm
Bracket Interface	Standard 50mm

The Optional Objective Wxxx for TZM0756-Wxxx-TV50

Auxiliary Objective	Specification	TV Lens TV050 for 1/3" Sensor	
		Low	High
W100, 1.0X(80mm WD)	PMAG	0.35X~2.80X	
	FOV	17.14mm	2.14mm
	NA	0.018	0.092
W050, 0.5X(160mm WD)	PMAG	0.18X~1.40X	
	FOV	34.28mm	4.28mm
	NA	0.009	0.046
W075, 0.75X(105mm WD)	PMAG	0.26X~2.10X	
	FOV	20.81mm	2.86mm
	NA	0.013	0.069
W150, 1.5X(51.5mm WD)	PMAG	0.53X~4.20X	
	FOV	11.43mm	1.43mm
	NA	0.026	0.138
W200, 2.0X(37.5mm WD)	PMAG	0.70X~5.60X	
	FOV	8.57mm	1.07mm
	NA	0.035	0.182
Remarks	When using coaxial lighting, low magnification may produce vignetting. When using infinity objectives as Auxiliary Lens Module (adapter available), the PMAG、FOV and NA of the TZM0756 depends on the parameters of the objectives.		

WD: Working Distance ;

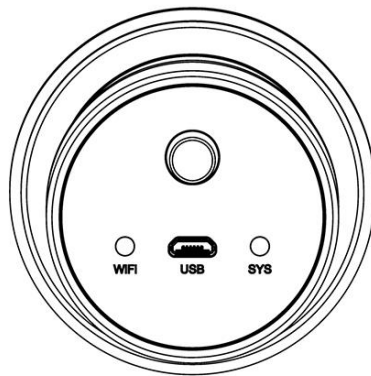
NA: Numerical Aperture ;

PMAG: Primary Magnification;

FOV: Field of View in the object side;

Note: Infinity corrected objectives limit system's usable zoom range due to uneven illumination.
The maximum sensor format is 2/3".

ZM0756WU1080PA's WU1080PA Specification



Interface and Button	Function Description
LED	LED status indicator;
Micro USB	Connect Micro USB 5V power supply to power the camera, Camera provides WiFi AP connection mode; Connecting USB port of PC for video transfer;
Camera Hardware	Function Description
WU1080PA Camera	Attach to the ZM0756 main zoom body
Sensor	Sony IMX307(C), 2M,1/2.8"(5.57x3.13), pixel size 2.9um x 2.9um
G Sensitivity /Dark Signal/ Dynamic Range /SNR	1300mv with 1/30s
FPS/Resolution	50@1920*1080(USB), 50@1920*1080(WiFi)
Exposure	0.01~1000ms
Hardware Configurations	
USB Video Interface	Connecting USB port of PC for video transfer; MJPEG format video, supported 50fps@1080P;
WiFi Interface	Support 802.11b/g/n protocols in AP mode; 50fps@1920*1080 H264 encoded video and Jpeg image capture;
Color Technique	Ultra-Fine Color Engine;
ISP Function	Exposure(Automatic / Manual Exposure) , Gain, White Balance(Automatic / Manual / ROI Mode), Sharpening, 3D Denoise, Saturation Adjustment, Contrast Adjustment, Brightness Adjustment, Gamma Adjustment, Color to Gray, 50HZ/60HZ Anti-flicker Function, Anti-flicker, Mirror/Flip.
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK; DirectShow, Twain
Operating Environment	
Operating Temperature(in Centidegree)	-10~ 50
Storage Temperature(in Centidegree)	-20~ 60
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	USB DC 5V/1A Adapter
Software Environment	
Operating System	Microsoft® Windows® XP / Vista / 7 / 8 /10 (32 & 64 bit) OSx(Mac OS X) Linux
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher Memory:2GB or More WiFi Adaptor: Support 802.11 b/g/n Display:17" or Larger CD-ROM
Lighting Module	
LED Ring Light	LED direct ring light with adjustable brightness(No power cable) (TzM0756DRL-NPC)
LED Ring Polarization Light	LED direct ring polarization light with adjustable brightness(No power cable), (TzM0756DRPL-NPC)
Coaxial Light Module	LED Coaxial Light Module with adjustable brightness(No power cable), (TzM0756CL_NPC)
Power Supply	Integrated power supply, no power cable winding trouble, sample observation more freely
Installation Method	Express second-level suction type installation, convenient and simple
Brightness Control	Through the 3-way multi-function adjusting wheel or software GUI, both the hardware and software can adjust the light intensity synchronously with no hassle

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://toup tek.nt-rt.ru/> || tuo@nt-rt.ru