

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

TZM0745B 0.7-4.5X MZO



- With 0.7X~4.5X zoom range, 6.5X zoom ratio
- Larger NA: 0.02-0.07 (When using 1x Auxiliary Lens)
- Higher resolution: 17um-3.9um (When using 1.00x Auxiliary Lens)
- Larger field of view: 2.67mm-22.85mm (Object plane)
- Larger sensor size: 1/1.8" (When using 0.75x TV Lens)
- Working distance range: 95mm-127mm
- Compact size: 136 mm (length) × 38mm (diameter)
- Parfocal in zoom range
- Intensity adjustable LED Direct Ring Light (Optional)
- LED Transmissive Light (Optional)

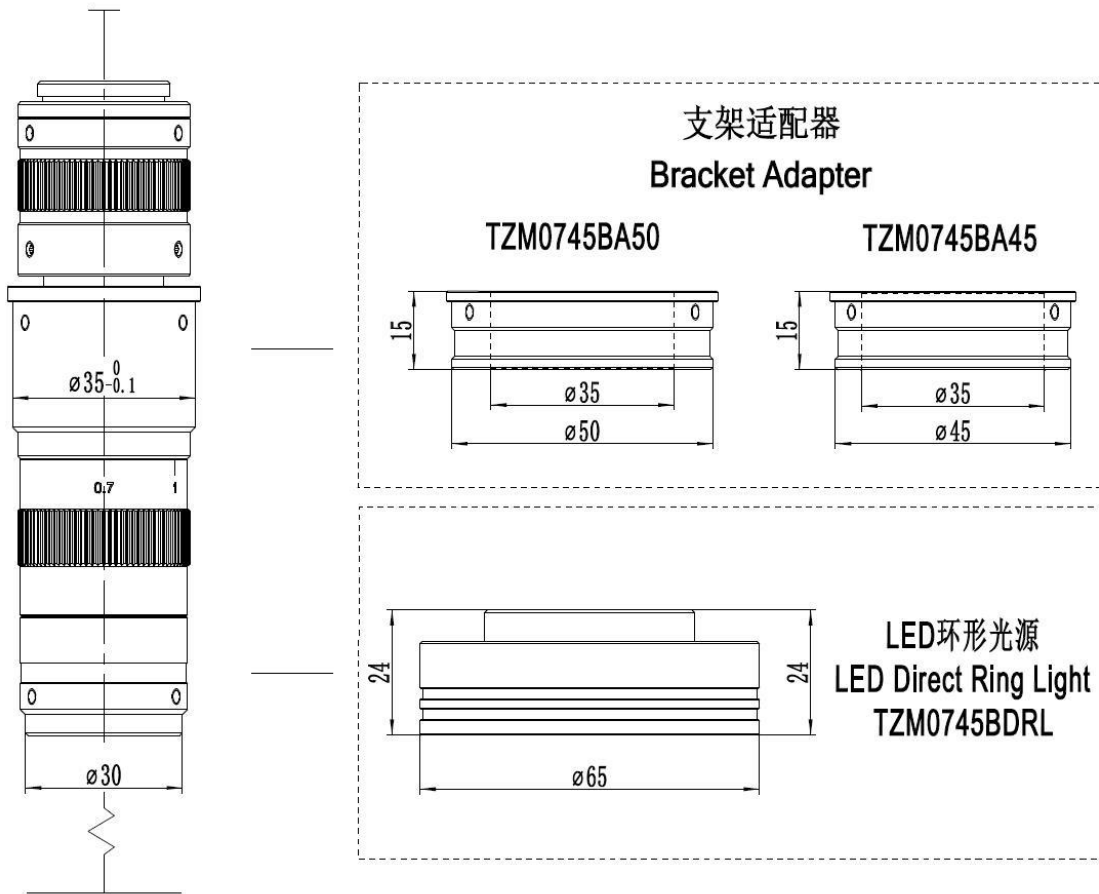
TZM0745B series MZO is an ideal choice for most applications that requires multiple magnifications or for those that prohibits continual manual refocusing. The applications of TZM0745B series MZO are:

- Machine vision
- Small details inspection
- Industrial inspection especially electronic components
- Scientific research
- Medical industry
- Education industry

The Structure and Characteristic of TZM0745B Series MZO

The modular design of TZM0745B series MZO is showed below. The design is based on the finite optical system path principle and consists of five basic modules. The five basic modules are: The Main Body including Middle Zoom Module, Auxiliary Lens Module, TV Lens Module, Bracket Adapter Module and Optional Module.

TZM0745B



In order to configure TZM0745B series MZO, we name TZM0745B series products with a series module code, which is a combination of code of different modules and connected with crossbar “-” as shown in the following example:

TZM0745Baa-Wbbb-TVccc-Add

In the above expression, aa represents the main body type, bbb represents the magnification of the auxiliary objective lens, ccc represents the magnification of the TV lens, and dd represents the diameter of the adapter. With this paradigm, user can understand the meaning and function at a glance. For example, if a MZO is composed of Middle Zoom Module TZM0745B, Auxiliary Lens W100(1.00x), TV Lens TV050(0.5x) and 50mm Bracket Adapter A50, the final MZO can be expressed as:

TZM0745B-W100-TV050-A50

Currently available TZM0745Baa: TZM0745B;

Currently available Wbbb: W075 and W100;

Currently available TVccc: TV050 and TV075;

Currently available Add: A50 and A45;

Current available Optional Module: TZM0745BDRL and TZM0745BTL.

Module of TZM0745B Series MZO

There are four models for TZM0745B, they are

- TZM0745B-W100-TV075
- TZM0745B-W100-TV050
- TZM0745B-W075-TV075
- TZM0745B-W075-TV050

Which are the combination of TZM0745B main body, auxiliary lenes and TV lenes with different magnification. For example: model TZM0745B-W100-TV050, it represents the magnification of main body is between 0.7X and 4.5X, the magnification of the objective is 1.0X and the magnification of TV Lens is 0.5X.

User can choose different model according to the sensor size and working distance. they are shown in the table below:

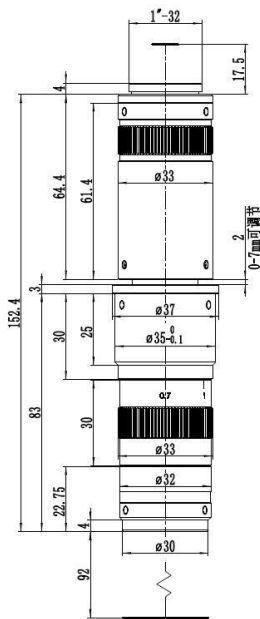
Specifications of TZM0745B with Different Auxiliary and TV Lens

Order Number	Magnification of main body	Magnification of system	NA	Working distance	DFOV (mm)	The maximum compatible sensor size
TZM0745B-W100-TV050	0.7X-4.5X	0.35X-2.25X	0.016-0.07	95mm	17.14-2.67	1/3inch
TZM0745B-W100-TV075	0.7X-4.5X	0.53X-3.38X	0.016-0.07	95mm	17.14-2.67	1/1.8inch
TZM0745B-W075-TV050	0.7X-4.5X	0.26X-1.69X	0.012-0.053	127mm	22.86-3.56	1/3inch
TZM0745B-W075-TV075	0.7X-4.5X	0.39X-2.53X	0.012-0.053	127mm	22.86-3.56	1/1.8inch

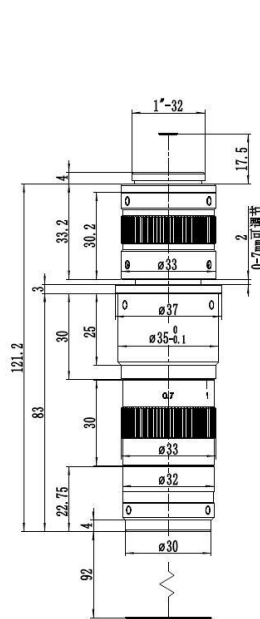
The Optional Modules of TZM0745B Series MZO

Module	Order Number	Description
LED Direct Ring Light Module	TZM0745BDRL	LED Direct Ring Light
Transmissive Light Module	TZM0745BTL	LED Transmissive Light
Power of light source	40600014	US:POWER-U-12V1A(Power Adapter American Standard)
	40600015	DE: POWER-E-12V1A(Power Adapter European standard)

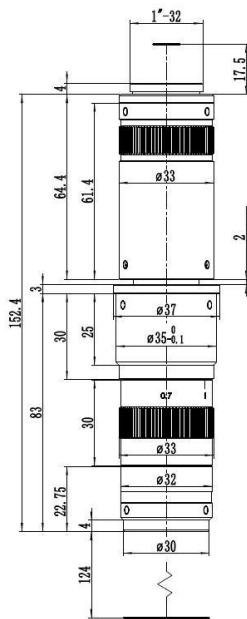
The Dimension of TZM0745B Series MZO



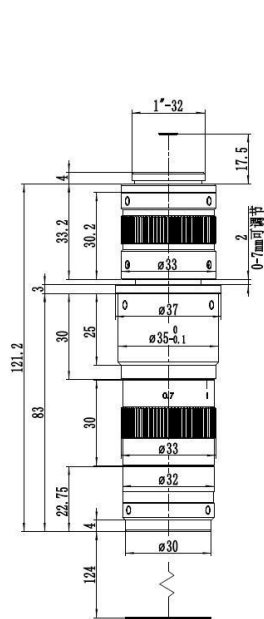
TZM0745B-W100-TV075



TZM0745B-W100-TV050



TZM0745B-W075-TV075



TZM0745B-W075-TV050

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)312-96-47

Россия (495)268-04-70

Казахстан (772)734-952-31

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