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**ZDC-101 ABA**

**CMOS COOLED DIGITAL  
CAMERA**



## Specifications

## ZDC-101 ABA

Model	20MPA
Sensor & Size(mm)	20M/IMX183(C) 1"(13.06x8.76)
Pixel( $\mu\text{m}$ )	2.4x2.4
G Sensitivity	462mv with 1/30s
Dark Signal	0.21mv with 1/30s
FPS/Resolution	5@5440x3648 10@4096x2160 15@2736x1824
Binning	1x1, 2x2, 3x3
Exposure	0.1ms~3600s
Standard Packing List	Carton L:50cm W:30cm H:30cm (20pcs, 12~17Kg/ carton) 3-A safety equipment case: L:28cm W:23cm H:15cm (1pcs, 2.8Kg/ box); Carton size:L:28.2cm W:25.2cm H:16.7cm(TBD) ZDC-101 ABA camera Drying tube and desiccant Power adapter: input: AC 100-240V, 50Hz/60Hz, output:DC12V 3A USB3.0 Wireless Network Card Adapter CD (Driver & utilities software, $\varnothing$ 12cm)

# Other Hardware Configuration

## Specifications

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Spectral Range	380-650nm (with IR-filter), for Monochromatic Camera, AR Is Used
White Balance	ROI White Balance/ Manual Temp-Tint Adjustment
Color Rendering Technique	Ultra Fine Color Engine
Capture/Control API	Native C/C++, C#, Directshow, Twain, Labview
Recording System	Still Picture and Movie
Cooling System*	Two-stage TE-cooling System -45 °C below Camera Body Temperature

## Operating Environment

### Specifications

#### ZDC-101 ABA

Operating Temperature	-10°C~ 50°C
Storage Temperature	-20°C~ 60°C
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port External Power Adapter for Cooling System, DC12V,3A

## Software Environment

### Specifications

#### ZDC-101 ABA

Operating System	Support Microsoft Windows XP / Vista / 7 / 8 / 10(32 & 64 bit) OS X (Mac OS X), Linux
PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher Memory: 2GB or More USB port: USB2.0 High-speed Port Display: 17" or Larger CD-ROM

# Optional Accessories

## Specifications

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Adjustable Lens Adapter	C-Mount to Dia.23.2mm Eyepiece Tube (Please choose 1 of them for your microscope) C-Mount to Dia.31.75mm Eyepiece Tube (Please choose 1 of them for your telescope)
Fixed Lens Adaptor	C-Mount to Dia.23.2mm Eyepiece Tube (Please choose 1 of them for your microscope) C-Mount to Dia.31.75mm Eyepiece Tube (Please choose 1 of them for your telescope)
Calibration Kit	106011/TS-M1(X=0.01mm/100Div.); 106012/TS-M2(X,Y=0.01mm/100Div.); 106013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)
Ring Adaptor	Dia.23.2mm to 30.0mm Ring Adaptor for 30mm eyepiece tube Dia.23.2mm to 30.5mm Ring Adaptor for 30.5mm eyepiece tube