# DIGIWatch High Resolution Quality Cameras



#### IR Camera



#### DWC-99190-E











- ♦700TVL, 1 / 3" Sony 960H Super HAD II latest CCD image sensor
- ♦6~50mm Vari-focal Auto Iris IR lens:easy to focus,easy to zoom
- ◆Color changes to B/W while IR LED and ICR start working
- ◆Constant current circuit design to make sure the lifespan of IR LED
- ◆Cable management: cable through bracket
- ◆Removable IR cut filter(ICR)
- No color deflection under sunshine and halogen lamp
- ♦Aluminium Casing with IP66
- ♦Viewing angle:Horizontal:46°~6°
- ♦190 Pcs IR LED, avaliable IR distance: 75~80M



### DWC-9980-E











- ♦700TVL, 1/3"Sony 960H Super HAD II latest CCD image sensor
- ♦3.6~16mm Vari-focal Auto Iris IR lens: easy to focus, easy to zoom
- ◆Color changes to B/W while IR LED and ICR start working
- ◆Constant current circuit design to make sure the lifespan of IR LED
- ◆Cable management: cable through bracket
- ◆Removable IR cut filter(ICR)
- ♦No color deflection under sunshine and halogen lamp
- ♦Viewing angle: Horizontal 74.5°~20.8°
- ♦ Available IR Distance: 40~45M



#### DWC-9954-E











- ♦700 TVL, 1 / 3" Sony 960H Super HAD II latest CCD image sensor
- ♦2.8~11mm Vari-focal IR lens: easy to focus, easy to zoom
- ◆Color changes to B/W while IR LED starts working
- ◆Constant current circuit design to make sure the lifespan of IR LED
- ◆Cable management:cable through bracket
- ♦Aluminium Casing with IP66
- ♦Viewing angle:Horizontal:31° ~90°
- ♦54 Pcs IR LED, avaliable IR distance: 15~20M



#### DWC-8836w-E











- ♦2.8~11mm Vari-focal IR lens: easy to focus, easy to zoom
- ◆Color changes to B/W while IR LED starts working
- ◆Constant current circuit design to make sure the lifespan of IR LED
- ♦Aluminium Casing with IP65
- ♦Viewing angle:Horizontal:31° ~90°
- ♦36 Pcs IR LED, avaliable IR distance: 15~20M



#### DWC-8836b-E











- ♦2.8~11mm Vari-focal IR lens: easy to focus, easy to zoom
- ◆Color changes to B/W while IR LED starts working
- ◆Constant current circuit design to make sure the lifespan of IR LED
- Aluminium Casing with IP65
- ♦Viewing angle:Horizontal:31° ~90°
- ♦36 Pcs IR LED, avaliable IR distance: 15~20M

#### • IR Camera



#### DWC-88Sw-E









- ♦700 TVL, 1 / 3" Sony 960H Super HAD II latest CCD image sensor
- ♦3.6mm lens
- ◆Color changes to B/W while IR LED starts working
- ◆Constant current circuit design to make sure the lifespan of IR LED
- ◆Aluminium Casing with IP65
- ♦Viewing angle:Diagonal:93° /Horizontal:74° /Vertical:56°
- ♦24 Pcs IR LED, avaliable IR distance: 15M



#### DWC-88Sb-E









- ♦700 TVL, 1 / 3" Sony 960H Super HAD II latest CCD image sensor
- ♦3.6mm lens
- ◆Color changes to B/W while IR LED starts working
- ◆Constant current circuit design to make sure the lifespan of IR LED
- ◆Aluminium Casing with IP65
- ♦Viewing angle:Diagonal:93°/Horizontal:74°/Vertical:56°
- ♦24 Pcs IR LED, avaliable IR distance: 15M



### DWC-9980CAR



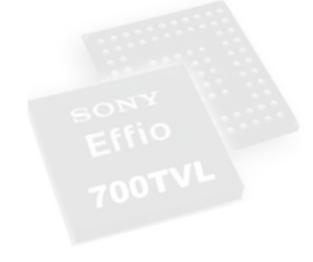


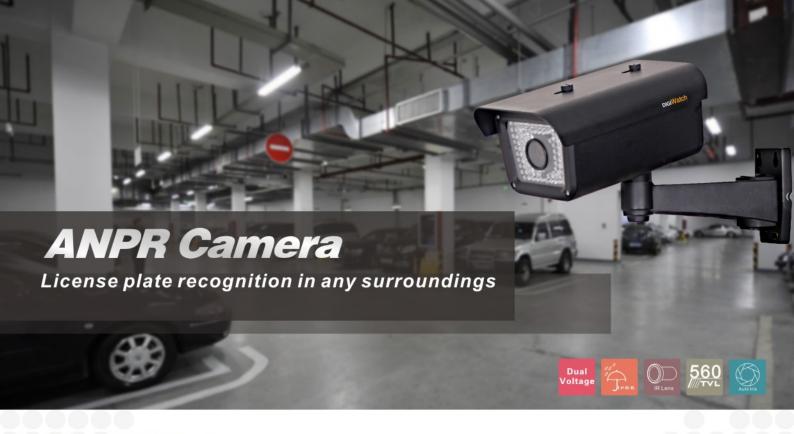






- ♦560 TVL, 1 / 3" Sony 760H CCD
- ♦9~22mm Vari-focal Auto Iris IR lens
- ◆Constant current circuit design to make sure the lifespan of IR LED
- ♦Aluminium Casing with IP66
- ♦Viewing angle:14° ~32°
- ♦80 PCs Special IR LED, avaliable IR distance: 2~15M
- ◆Designed for Toll Gate Parking Barrier
- ◆Clearly capture the number plates of vehicles travelling less than 45km/h(28MPH)





### DWC-9980CAR

- ♦560 TVL, 1/3" 760H CCD
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### TEST PICTURES IN CHINA & AUSTRALIA















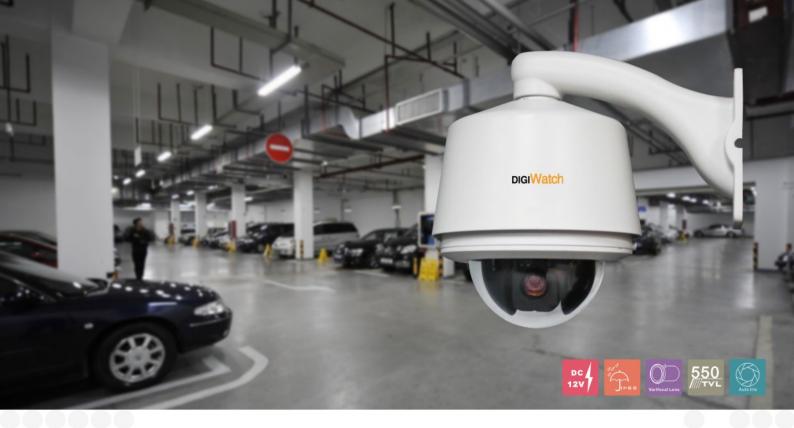
### DWC-9920HCAR

- ♦550TVL, 1/3" 760H CCD
- ♦10~40mm Vari-focal Auto Iris IR lens
- ◆Constant current circuit design to make sure the lifespan of IR LED
- ♦Viewing angle: Horizontal 27°~8°
- ♦ Available IR Distance: 5 ~ 30M
- ◆Clearly capture the number plates of vehicles travelling less than 180km/h(112MPH)

### TEST PICTURES IN CHINA & AUSTRALIA







### CDD-D75BA18

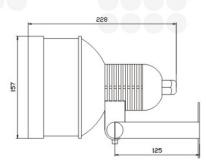
- ◆ Qualified motor offers stable and low noise performance
- ◆ Pelco-D/Pelco-P protocol
- ◆ Operation protection and auto heating under low temperature
- ◆ User-friendly interface, English/Chinese Optional
- ◆ Baud rate 2400/4800/9600bps set up by dip switch
- ◆Pan/Tilt Range, continuous 360 ° pan, 90° tilt auto flip
- ◆Max. manual Pan Tilt speed: Pan 300°/s, Tilt: 180°/s
- ♦127 preset, 360°/s speed, ±0.1° Accuracy
- ◆8 swing cruising (1°/s-90°/s adjustable)
- ◆8 group cruising (20 motions/group)
- ◆4 pattern cruising
- ◆ Privacy zone function
- ◆PTZ information: ON/OFF/AUTO
- ◆ Auto memory when power failure
- ◆Thunderproof and surge protection
- ◆Hot key for reserved action
- ◆ Alarm drive function (4 input and 1 output)
- ◆ Hard Address(1~255) Soft address (1-255)

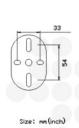


### • IR Illuminator

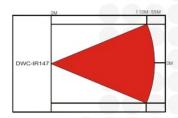


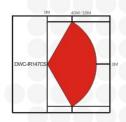






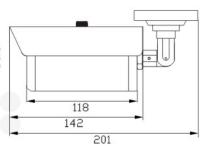
Items	DWC-IR147	DWC-IR147CS
IP Rating	IP66	
IRLED	147 Pcs High power LED	
Wave Length	850nm	
IR Projecting Angel	45°	120°
Emissive Power	18W	
Available IR Distance	110M(360.66ft)	40M(131ft)
Control	CDS/10Lux	
Power Supply	DC12V±10%/AC24V±10%	
Current Consumption	DC1400mA/AC1250mA	
Dimension	Ф157×228mm (6.18"×8.97")	
Weight	2330g	
Storage Temperature	-30°C ~+60°C	
Operating Temperature	-30°C ∼+40°C	

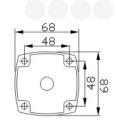




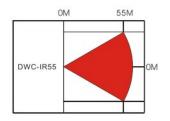


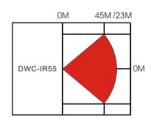




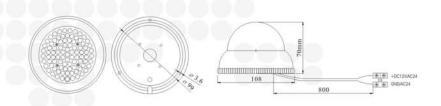


Items	DWC-IR55	
IP Rating	IP66	
LED	55 PCs	
Wave Length	850nm	
IR Projecting Angel	80°	
Emissive Power	8.8W	
Available IR Distance	45M(147.54ft)	
Control	CDS/10Lux	
Power Supply	DC12V±10%/AC24V±10%	
Current Consumption	DC410mA/AC320mA	
Dimension	201x90x86.5mm (7.91"×3.54"×3.4")	
Weight	750g	
Storage Temperature	−30 °C ~+60 °C	
Operating Temperature	-30℃~+40℃	

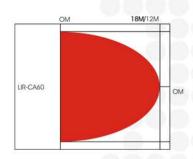




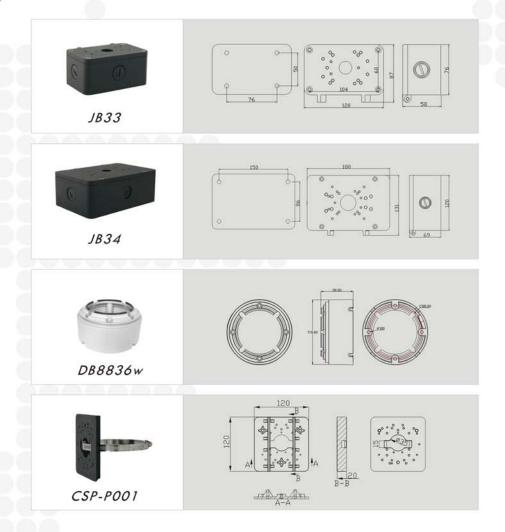




Items	DWC-IR180	
IP Rating	IP65 (Indoor)	
IR LED	90 PCs	
Wave Length	850nm	
IR Projecting Angle	180°	
Emissive Power	7. 6W	
Available IR Distance	180M² (590. 16ft)	
Control	CDS/10Lux	
Power Supply	DC12V±10%/AC24V±10%	
Current Consumption	DC490mA/AC380mA	
Dimension	108×70mm (0. 35x0. 23ft)	
Weight	365g	
Storage Temperature	-30°C∼+60°C	
Operating Temperature	-30°C ∼+40°C	



### Accessories



#### • How to deal with over-heat?

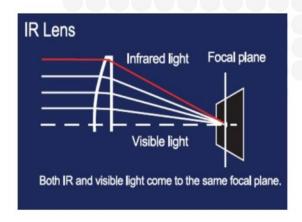
A:Heat Control
Lower current camera board - Effio solution 60mA
Good quality IR LED and boards
Excellent constant current circuit design

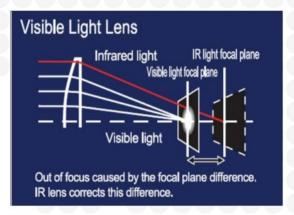


B:Heat Dissipation Aluminum Casing Isolation of main heating parts LED board/Power board/CCD board Metal Cooling Plate

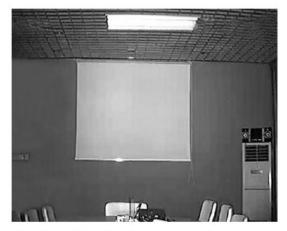


### IR Lens: Avoid focus shift during daytime and nighttime





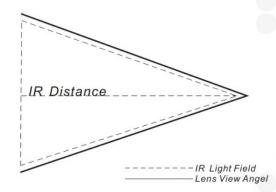
### Uniformity performance to avoid torch light overnight



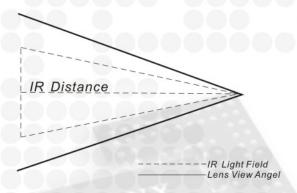
Uniformity luminance performance



Torch light performance



Consistent LED and lens angle



Inconsistent LED and lens angle

Match the lens angle and the IR light field consistently

### ICR: Removable IR Cut Filter Ture color in daytime and better sensitivity in night vision



**ICR** 



NO ICR



ICR



NO ICR

# Synchronization: Color change to B/W while IR LED starts working together with ICR



Color Image with LED off



B/W image with LED on



Non-synchronization

### Quality control Performance Inspection



Daytime



Nighttime

### Lens Clearance



Each corner with same clearance



100% Lens Inspection

### Other equitments



Vibrator



Wave length and intensity tester



Standard FL pattern box



Temperature Tester