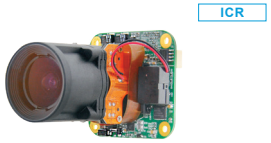
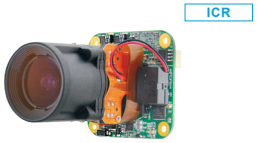
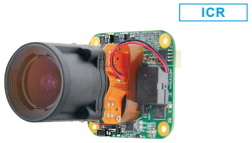
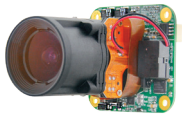
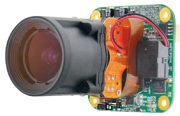
# AHD/TVI 1080P

**WDR / Smart Zoom**

| | AHD 3.5X Smart Zoom | | | AHD 10X Smart Zoom | TVI 10X Smart Zoom |
|---|---|---|---|---|---|
| |   |   |   |   |   |
| Name | **AZC-WD3290** | **AZC-WD4290** | **AZC-HD5290** | **AZC-HD5210** | **TZC-HD4210** |
| Video System | PAL / NTSC Selectable | | | PAL / NTSC Selectable | |
| Image Sensor | 1/3" Sony 2.4M Exmor CMOS Sensor | 1/3" Panasonic 2.1M CMOS Sensor | 1/3" Sony 2.0M STARVIS CMOS Sensor | 1/3" Sony 2.0M STARVIS CMOS Sensor | 1/3" Panasonic 2.1M CMOS Sensor |
| Video Frame Rate (Maximum) | 1920x1080P@25/30fps | | | 1920x1080P@25/30fps | |
| Minimum Illumination | Color: 0.1 Lux, B/W: 0.06 Lux, IR On: 0 Lux @F1.6 | Color: 0.1 Lux, B/W: 0.06 Lux, IR On: 0 Lux @F1.6 | Color: 0.06 Lux, B/W: 0.03 Lux, IR On: 0 Lux @F1.6 | Color: 0.02Lux@F1.8, B/W: 0.005Lux@ F1.8, IR On: 0Lux@F1.8 | Color: 0.1 Lux, B/W: 0.06 Lux, IR On: 0 Lux @F1.6 |
| Digital Video Output | BNC Connector (AHD) & Composite Simultaneously ; Composite is disabled when WDR On | | | | BNC Connector (HDTVI) & Composite Simultaneously ; Composite is disabled when WDR On |
| Analog Video Output | CVBS (1.0Vp-p Composite, 75Ω) | | | | |
| Mechanical IR Cut Filter (ICR) | Yes | Yes | Yes | Yes | Yes |
| OSD Menu | OSD Control / CoC + UTC | | | | |
| Digital Day & Night Mode | Color / B&W / Auto / IR Sync | | | | |
| Electronic Shutter | Auto: 1/25(30)~1/30, 000 Sec, Manual: 1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 Sec | | | | |
| Auto Gain Control | 0~20 Steps | | | | |
| White Balance | ATW / AWB / PWB (Push Lock) / Manual | | | | |
| WDR(HDR); BLC; HLC | High (Max 90dB) / Middle / Low / Off; Program; On / Off | High (Max 90dB) / Middle / Low / Off; Program; On / Off | High (Max 120dB) / Middle / Low / Off; Program; On / Off | High (Max 120dB) / Middle / Low / Off; Program; On / Off | High (Max 90dB) / Middle / Low / Off; Program; On / Off |
| Fog Reduction | Auto/Manual/Off; Level: High/Middle/Low | | | | |
| Dynamic Noise Reduction | High / Middle / Low / Off | | | | |
| Sense Up | On (x2, x4, x8, x16, x32) / Off | | | | |
| Language | English, Japanese, Traditional Chinese, Simplified Chinese | | | | |
| E-Zoom | 8x (Step 0.1) | | | | |
| Image Setting | Sharpness / Mirror / Flip | | | | |
| Privacy Zone Mask | Privacy Zone Mask 16 Zones Programmable | | | | |
| Motion Detection | On: Sensitivity, Programmable / Off | | | | |
| Lens | 3.5X Optical Zoom f3.0mm(Wide)~10.5mm(Tele), F1.6 | | | 10X Optical Zoom f5.0mm(Wide)~50mm(Tele), F1.8 to F3.0 | |
| Angle of View | H: 92°(Wide) ~ 29°(Tele), V: 52°(Wide) ~ 16.5°(Tele) | | | H: 49.38°(Wide) ~ 5.30°(Tele) | |
| Minimum Working Distance | 1 Meter | | | | |
| Focusing System | Smart Zoom & Auto Focus; Day / Night Focus Preset | | | | |
| Power Supply ; Consumption | 12Vdc /400mA; 4.8W | | | 12Vdc /400mA; 6.36W | |
| Operation ; Storage Temp. | -10°C ~ 50°C; -20°C ~ 60°C | | | | |
| Operation ; Storage Humidity | Maximum: RH80%; RH90% | | | | |
| Dimensions | 42(W)x42(H)x50(D)mm | | | 64.7(W)x34(H)x42.1(D)mm | |
| Net Weight | 60g | | | 90g | |

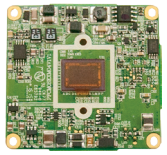
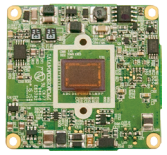
## BT1120 1080P

**WDR / Smart Zoom / Motorized**

| | 3.5X Smart Zoom | 3.5X Smart Zoom | Motorized Lens | 10X Smart Zoom |
|---|---|---|---|---|
| |  ICR 90dB |  ICR 120dB |  ICR 120dB |  ICR 120dB |
| Name | **BZC-WD3290** | **BZC-HD5290** | **SBC-HD5201MSV** | **BZC-HD5210** |
| Video System | PAL / NTSC Selectable | | PAL / NTSC Selectable | |
| Image Sensor | 1/3" Sony 2.4M Exmor CMOS Sensor | 1/3" Sony 2.0M STARVIS CMOS Sensor | 1/2.8" Sony 2.0M STARVIS CMOS Sensor | 1/3" Sony 2.0M STARVIS CMOS Sensor |
| Video Frame Rate (Maximum) | 1920x1080P@25/30fps | | 1920x1080p@25/30fps | 1920x1080P@25/30fps |
| Minimum Illumination | Color: 0.1 Lux, B/W: 0.06 Lux, IR On: 0 Lux @F1.6 | Color: 0.06 Lux, B/W: 0.03 Lux, IR On: 0 Lux @F1.6 | Color: 0.02Lux@F1.4, B/W: 0.005Lux@F1.4, IR On: 0Lux@F1.4 | Color: 0.02Lux@F1.8, B/W: 0.005Lux@F1.8, IR On: 0Lux@F1.8 |
| Mechanical IR Cut Filter (ICR) | Yes | Yes | Yes | Yes |
| Digital Day&Night Mode | Color / B&W / Auto / IR Sync | | | |
| Electronic Shutter | Auto: 1/25(30)~1/30, 000 Sec, Manual: 1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 Sec | | | |
| Auto Gain Control | 0~20 Steps | | | |
| White Balance | ATW / AWB / PWB (Push Lock) / Manual | | | |
| WDR(HDR); BLC; HLC | High (Max 90dB) / Middle / Low / Off; Program; On / Off | High (Max 120dB) / Middle / Low / Off; Program; On / Off | High (Max 120dB) / Middle / Low / Off; Program; On / Off | High (Max 120dB) / Middle / Low / Off; Program; On / Off |
| Flickerless | N/A | | Yes | |
| Fog Reduction | Auto/Manual/Off; Level: High/Middle/Low | | | |
| Dynamic Noise Reduction | High / Middle / Low / Off | | | |
| Sense Up | On (x2, x4, x8, x16, x32) / Off | | | |
| Language | English, Japanese, Traditional Chinese, Simplified Chinese | | | |
| E-Zoom | 8x (Step 0.1) | | | |
| Image Setting | Sharpness / Mirror / Flip | | | |
| Privacy Zone Mask | Privacy Zone Mask 16 Zones Programmable | | | |
| Motion Detection | On: Sensitivity, Programmable / Off | | | |
| Lens | 3.5X Optical Zoom f3.0mm(Wide) ~ 10.5mm(Tele), F1.6 | | f2.8 ~ 12mm, Built-in Motorized Lens | 10X Optical Zoom f5.0mm(Wide) ~ 50mm(Tele), F1.8 to F3.0 |
| Angle of View | H: 92°(Wide) ~ 29°(Tele), V: 52°(Wide) ~ 16.5°(Tele) | | H: 105°(Wide) ~ 33°(Tele), V: 59.06°(Wide) ~ 18.56°(Tele) | H: 49.38°(Wide) ~ 5.30°(Tele) |
| Minimum Working Distance | 1 Meter | | | |
| Focusing System | Smart Zoom & Auto Focus; Day / Night Focus Preset | | | |
| Power Supply ; Consumption | 12Vdc / 400mA; 4.8W | | 12Vdc / PoE ; 4W | 12Vdc /400mA; 6.36W |
| Operation ; Storage Temp. | -10°C ~ 50°C; -20°C ~ 60°C | | | |
| Operation ; Storage Humidity | Maximum: RH80%; RH90% | | | |
| Dimensions | 42(W)x42(H)x50(D)mm | | 42(W)x42(H)mm | 64.7(W)x34(H)x42.1(D)mm |
| Net Weight | 60g | | 80g | 90g |

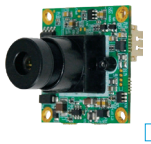
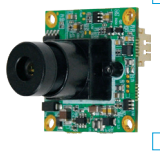
## HD-SDI/EX-SDI

**WDR / Smart Zoom**

| | HD-SDI / EX-SDI | | | | |
|---|---|---|---|---|---|
| |  90dB |  90dB |  ICR 120dB |  ICR 120dB |  ICR 120dB |
| Name | **SSC-WD3200E** | **SSC-WD3200EB / SSC-WD3200EMB** | **SSC-HD5200** | **SSC-HD5201MSV** | **SZC-HD5210** |
| Video System | PAL / NTSC Selectable | | | PAL / NTSC Selectable | |
| Image Sensor | 1/3" Sony 2.4M Exmor CMOS Sens | 1/3" Sony 2.4M Exmor CMOS Senso | 1/3" Sony 2.1M STARVIS CMOS Sensor | 1/3" Sony 2.1M STARVIS CMOS Sensor | 1/3" Sony 2.1M STARVIS CMOS Sensor |
| Video Frame Rate (Maximum) | 1920x1080P@25/30fps | | | 1920x1080P@25/30fps | |
| Minimum Illumination | Color: 005 Lux@F1.4, B/W: 0.02 Lux@F1.4 | Color: 0.1 Lux@F2.0, B/W: 0.05 Lux@F2.0 | Color: 0.02Lux@F1.8, B/W: 0.005 Lux@F1.8 | Color: 0.02Lux@F1.4, B/W: 0.005 Lux@F1.4 | Color: 0.02Lux@F1.8, B/W: 0.06 Lux@F1.8 |
| Digital Video Output | HD-SDI/EX-SDI Switchable | | | | |
| Analog Video Output | CVBS (1.0Vp-p Composite, 75Ω) | | | | |
| Mechanical IR Cut Filter (ICR) | N/A | N/A | Yes | | |
| OSD Menu | OSD Control | | | | |
| Digital Day & Night Mode | Color / B&W / Auto / IR Sync | | | | |
| Electronic Shutter | Auto: 1/25(30)~1/30, 000 Sec, Manual: 1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 Sec | | | | |
| Auto Gain Control | 0~20 Steps | | | | |
| White Balance | ATW / AWB / PWB (Push Lock) / Manual | | | | |
| WDR(HDR); BLC; HLC | High (Max 90dB) / Middle / Low / Off; Program; On / Off | High (Max 90dB) / Middle / Low / Off; Program; On / Off | High (Max 90dB) / Middle / Low / Off; Program; On / Off | High (Max 120dB) / Middle / Low / Off; Program; On / Off | High (Max 120dB) / Middle / Low / Off; Program; On / Off |
| Fog Reduction | Auto/Manual/Off; Level: High/Middle/Low | | | | |
| Dynamic Noise Reduction | High / Middle / Low / Off | | | | |
| Sense Up | On (x2, x4, x8, x16, x32) / Off | | | | |
| Language | English, Japanese, Traditional Chinese, Simplified Chinese | | | | |
| E-Zoom | 8x (Step 0.1) | | | | |
| Image Setting | Sharpness / Mirror / Flip | | | | |
| Privacy Zone Mask | Privacy Zone Mask 16 Zones Programmable | | | | |
| Motion Detection | On: Sensitivity, Programmable / Off | | | | |
| Lens | N/A | f3.6mm | N/A | f2.8~12mm, Built-in Motorized Lens | 10X Optical Zoom f5.0mm(Wide)~50mm(Tele), F1.8 to F3.0 |
| Angle of View | N/A | 72° | N/A | H: 105°(Wide) ~ 33°(Tele), V: 59.06°(Wide) ~ 18.56°(Tele) | H: 49.38°(Wide) ~ 5.30°(Tele) |
| Minimum Working Distance | 1 Meter | | | | |
| Focusing System | Smart Zoom & Auto Focus; Day / Night Focus Preset | | | | |
| Power Supply ; Consumption | DC12V; 1.3W | 12Vdc /400mA; 4.8W | 12Vdc /300mA; 3.6W | 12Vdc ; 4.1W | 12Vdc /300mA; 3.6W |
| Operation ; Storage Temp. | -10°C ~ 50°C; -20°C ~ 60°C | | | | |
| Operation ; Storage Humidity | Maximum: RH80%; RH90% | | | | |
| Dimensions | 38(W)x38(H)mm | 38(W)x38(H)mm | 42(W)x42(H)mm | 42(W)x42(H)mm | 64.7(W)x34(H)x42.1(D)mm |
| Net Weight | 15g | 25g | 15g | 80g | 90g |

## Analog 850TVL (CVBS)

**850TVL / Starlight / WDR**

| | Metal Housing | | Built in Board Lens | | Built in DC Auto IRIS Lens | |
|---|---|---|---|---|---|---|
| |  75dB |  75dB |  75dB |  ICR 75dB |  75dB |  ICR 75dB |
| Model | **MTC-WD916SCHBP-T** | **MTC-WD916SCHB/ MTC-WD916SCHBP** | **MTC-WD850B** | **MTC-WD850M** | **MTC-WD851V38** | **MTC-WD851MV38** |
| Image Sensor | 1/3.2" Sony HWDR 1280H STARVIS CMOS Sensor Color Camera | | | | | |
| Total Pixels | 1280(H)x960(V) | | | | | |
| Resolution ; DSP | Color: 820TVL, B/W: 850TVL; Sony ISX017 | | | | | |
| Minimum Illumination | Color: 0.05Lux@F1.4, B/W: 0.03Lux@F1.4 | | | | | |
| Wide Dynamic Range | 75dB | | | | | |
| Video Output | 960P@50fps/60fps / 1.0Vp-p Composite, 75Ω (BNC) | | | | | |
| Signal to Noise Ratio (S/N) | More than 55dB (AGC Off) | | | | | |
| Gamma Correction | 0.45 | | | | | |
| Mechanical IR Cut Filter (ICR) | N/A | N/A | N/A | Yes | N/A | Yes |
| Menu | OSD | | | | | |
| Title ; Synchronizing System | Title (Location) ; Internal | | | | | |
| Day & Night Mode | Day / Night / Auto | | | | | |
| Auto Electronic Shutter | Auto: 1/50(60)~1/100,000(s) | | | | | |
| Manual Electronic Shutter | Manual: 1/50(1/60), 1/100, 1/120, 1/125, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/8,000, 1/10,000, 1/20,000, 1/40,000, 1/80,000, 1/100,000(s) | | | | | |
| Automatic Gain Control | Auto (4 levels) | | | | | |
| White Balance; WDR ATR | ATW / Push / User1 / User2 / Manual / Push Lock; High / Mid / Low | | | | | |
| Back Light Compensation | HLC / BLC / Off | | | | | |
| Defog; Digital Noise Reduction | Auto / Off; Y/C DNR (Level 1~7) | | | | | |
| Language | English / Deutsch / French / Russian / Portuguese / Spanish / Simplified Chinese | | | | | |
| Privacy | On / Off (16 Zones Programmable, Quadrangle Mosaic) | | | | | |
| Automatic IRIS; Connector | N/A | | | | DC | |
| Lens Mount | Built in Pin Hole Lens | Built in Board Lens; Built in Pin Hole Lens | Built in Board Lens | | Built in DC Varifocal Auto IRIS Lens | |
| Lens, Angle of View (H) | f2.5mm/F2.2, 88 ° | f3.6mm/F2.0, 72 °; f2.5mm/F2.2, 88 ° | f3.6mm/F2.0, 72 °; f2.8/f6mm (Option) | f3.6mm/F2.0 ICR, 72 °; f2.8/f6mm (Option) | f2.8~12mm/ F1.4 | f2.8~12mm/F1.4 ICR |
| Power Supply ; Consumption | Standard:12Vdc±10%; 0.75W | | | | | |
| Operation ; Storage Temp. | -10°C~50°C ; -20°C~60°C | | | | | |
| Operation ; Storage Humidity | Maximum: RH80% ; RH90% | | | | | |
| Dimensions | 40.6(W)x44(H)x24.7(D)mm | 40.6(W)x44(H)x36(D)mm; 40.6(W)x44(H)x29(D)mm | 32(W)x32(H)mm | 32(W)x32(H)mm | 38(W)x38(H)mm | 38(W)x38(H)mm |
| Net Weight | 60g | 60g | 42g | 42g | 47g | 47g |