

## **Specifications**

Min. Illumination Color: 0.002 Lux @ (F1.2, AGC ON), 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR Shutter Speed 1 s to 1/100,000 s, supports slow shutter Lens 2.8 mm to 12 mm, F1.6, horizontal field of view: 92* to 32* 8 mm to 32 mm, F1.6, horizontal field of view: 42* to 13.5*  Auto-iris DC drive Day & Night IR cut filter with auto switch Digital Noise Reduction WDR 120dB Compression Standard  Wideo Compression Main stream: H.264/MPEG4 Sub stream: H.264/MPEG4 Sub stream: H.264/MPEG4/MIPEG Third stream: H.264/MPEG4/MIPEG H.264 Type Baseline Profile/Main Profile/High Profile H.264+ Support Video Bit Rate 32 Kbps to 16 Mbps Audio Compression (-S) G.711/G.722.1/G.726/MP2L2 Audio Bit Rate (-S) G4kbps (G.711) /16Kbps (G.722.1) /16Kbps (G.726) /32-16Kbps (MP2L2) Image  Max. Resolution 1920 × 1080 Main Stream S0Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576,	Camera		
Shutter Speed 1 s to 1/100,000 s, supports slow shutter  Lens 2.8 mm to 32 mm, F1.6, horizontal field of view: 92° to 32° 8 mm to 32 mm, F1.6, horizontal field of view: 42° to 13.5°  Auto-iris DC drive  Day & Night IR cut filter with auto switch  Digital Noise Reduction 3D DNR  WDR 120dB  Compression Standard  Wideo Compression Wain stream: H.264/MPEG4 Sub stream: H.264/MPEG4 Third stream: H.264/MPEG4 H.264 Type Baseline Profile/Main Profile/High Profile H.264 Type Baseline Profile/Main Profile/High Profile H.264 Wideo Bit Rate 32 kbps to 16 Mbps Audio Compression (-S) G.711/G.722.1/G.726/MP212 Audio Compression (-S) G.711/G.722.1/G.722.6/MP212 Audio Sit Rate 32 kbps to 16 Mbps Max. Resolution 1920 × 1080 Max. Resolution 1920 × 1080 Max. Frame Rate 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Max. Frame Rate 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720) Third Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 289) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 289) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) Image Enhancement BLC /3D DNR/Defog/ElS Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser Region of Interest Support 4 fixed region for each stream, and dynamic tracking Target Cropping Support Day/Night Switch Auto/Schedule/Triggered by Alarm in (-S) Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 99% Support capture and recognition of vehicles both approaching and leaving	Image Sensor	1/1.8" Progressive Scan CMOS	
Lens 2.8 mm to 12 mm, F1.4, horizontal field of view: 92° to 32° 8 mm to 32 mm, F1.6, horizontal field of view: 42° to 13.5°  Auto-iris DC drive Day & Night IR cut filter with auto switch Digital Noise Reduction 3D DNR 120dB 120	Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON), 0.0027 Lux @ (F1.4, AGC ON), 0 Lux with IR	
Lens 8 mm to 32 mm, F1.6, horizontal field of view: 42* to 13.5*  Auto-iris DC drive Day & Night IR cut filter with auto switch Digital Noise Reduction 3D DNR WDR 120dB  Compression Standard  Video Compression  Main stream: H.264/MPEG4 Sub stream: H.264/MPEG4 Sub stream: H.264/MPEG4/MIPEG Third stream: H.264/MPEG4/MIPEG H.264 Type Baseline Profile/Main Profile/High Profile H.264+ Support Video Bit Rate 32 Kbps to 16 Mbps Audio Compression (-S) G.711/G.722.1/G.726/MP2L2 Audio Bit Rate (-S) 64Kbps (G.711) / 16Kbps (G.722.1) / 16Kbps (G.726) / 32-160Kbps (MP2L2)  Image  Max. Resolution 1920 × 1080 Main Stream 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720) 50Hz: 25fps (1920 × 480, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 6te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 6te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 8te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 7 Softz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) Third Stream 8te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 8te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 8te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 586, 640 × 480, 352 × 240) Third Stream 8te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 8te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Third Stream 8te 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 ×	Shutter Speed	1 s to 1/100,000 s, supports slow shutter	
Auto-iris DC drive Day & Night IR cut filter with auto switch Digital Noise Reduction 3D DNR WDR 120dB  Compression Standard  Wideo Standard Support  Wideo Bit Rate Support Support  Wideo Bit Rate Support S	Lens	2.8 mm to 12 mm, F1.4, horizontal field of view: 92° to 32°	
Day & Night IR cut filter with auto switch  Digital Noise Reduction 3D DNR  WDR 120dB  Compression Standard  Video Compression Standard  Wideo Standard Substream: H.264/MPEG4/MPEG Third stream: H.264/MPEG4/MPEG H.264+ Support  Wideo Bit Rate 32 kbps to 16 Mbps  Audio Compression (-S) G.711/G.722.1/G.726/MP2L2  Audio Standard Standard Substrate Substr	ECIIS	8 mm to 32 mm, F1.6, horizontal field of view: 42° to 13.5°	
Digital Noise Reduction WDR 120dB Compression Standard  Video Compression  Main stream: H.264/MPEG4 Sub stream: H.264/MPEG4/MJPEG Third stream: H.264/MPEG4/MJPEG Third stream: H.264/MPEG4/MJPEG H.264 Type Baseline Profile/Main Profile/High Profile H.264+ Support Video Bit Rate 32 Kbps to 16 Mbps Audio Compression (-S) G.711/G.722.1/G.726/MP2L2 Audio Bit Rate (-S) 64Kbps (G.711) /16Kbps (G.722.1) /16Kbps (G.726) /32-160Kbps (MP2L2) Image  Max. Resolution 1920 × 1080 Maxin Stream 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Max. Frame Rate 60Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Sub Stream 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (704 × 480, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Image Enhancement BLC /3D DNR/Defog/EIS Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser Region of Interest Support 4 fixed region for each stream, and dynamic tracking Target Cropping Support Day/Night Switch Auto/Schedule/Triggered by Alarm In (-S) Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format Road Traffic and Vehicle Detection  European and Russian-Speaking Regions: Capture Rate > 99% Recognition of vehicle Speed under 120 km/h (74.6 mi/h) Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance Direction	Auto-iris	DC drive	
WOR 120dB  Compression Standard  Main stream: H.264/MPEG4 Sub stream: H.264/MPEG4 Third stream: H.264/MPEG4/MJPEG Third stream: H.264/MPEG4/MJPEG H.264 Type Baseline Profile/Main Profile/High Profile H.264 Support  Video Bit Rate 32 Kbps to 16 Mbps G.711/G.722.1/G.726/MP2L2 Addio Bit Rate (-S) 64Kbps (G.711) /16Kbps (G.722.1) /16Kbps (G.726) /32-160Kbps (MP2L2)  Image  Max. Resolution 1920 × 1080  Main Stream 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Max. Frame Rate 60Hz: 30fps (704 × 546, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)  Third Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)  Third Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 450 × 480, 352 × 240)  Third Stream 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement BLC /3D DNR/Defog/EIS  Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest Support 4 fixed region for each stream, and dynamic tracking  Support  Accuracy Capture Rate > 99% Recognition Rate > 99% R	Day & Night	IR cut filter with auto switch	
Main stream: H.264/MPEG4 Sub stream: H.264/MPEG4/MIPEG Sub stream: H.264/MPEG4/MIPEG Third stream: H.264/MPEG4/MIPEG H.264 Support Support Support Support Support Support Support Support Sub stream: A.264/MPEG4/MIPEG H.264+ Support Support Sub stream: A.264/MPEG4/MIPEG H.264+ Support Sub stream Sub stream: A.264/MPEG4/MIPEG Audio Bit Rate (-S) G-711/G-722.1/G-726/MP2L2 Audio Bit Rate (-S) G-711/G-722.1/G-726/MP2L2 Audio Bit Rate (-S) G-721/G-722.1/G-726/MP2L2 Audio Bit Rate (-S) G-721/G-722.1/G-726/MP2L2 Max. Resolution  1920 × 1080  Main Stream Sub stable stream Sub stream Su	Digital Noise Reduction	3D DNR	
Nain stream: H.264/MPEG4 Sub stream: H.264/MPEG4/MIPEG Third stream: H.264/MPEG4/MIPEG H.264 Type Baseline Profile/Main Profile/High Profile H.264+ Support Video Bit Rate 32 Kbps to 16 Mbps Audio Compression (-S) G.711/G.722.1/G.726/MP2L2 Audio Bit Rate (-S) 64kbps (G.711) /16kbps (G.722.1) /16kbps (G.726) /32-160kbps (MP2L2) Image  Max. Resolution 1920 × 1080 Main Stream 50Hz: 50fps (1920 × 1080, 1280 × 720) Max. Frame Rate 60Hz: 60fps (1920 × 1080, 1280 × 720) Sub Stream 50Hz: 25fps (1920 × 1080, 1280 × 720) Sub Stream 60Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Sub Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) Sub Stream 60Hz: 30fps (704 × 480, 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) Image Enhancement BLC /3D DNR/Defog/EIS Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser Region of Interest Support 4 fixed region for each stream, and dynamic tracking Target Cropping Support Day/Night Switch Auto/Schedule/Triggered by Alarm In (-S) Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format Road Traffic and Vehicle Detection  European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 99% Recognition Rate > 98% Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h) Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance Direction	WDR	120dB	
Sub stream: H.264/MPEG4/MJPEG Third stream: H.264/MPEG4/MJPEG H.264 Type Baseline Profile/Main Profile/High Profile H.264+ Support Video Bit Rate 32 Kbps to 16 Mbps Audio Compression (-S) G.711/G.722.1/G.726/MP2L2 Audio Bit Rate (-S) 64Kbps (G.711) /16Kbps (G.722.1) /16Kbps (G.726) /32-160Kbps (MP2L2) Image  Max. Resolution 1920 × 1080 Main Stream 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Max. Frame Rate 60Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) Sub Stream 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240) Image Enhancement BLC /3D DNR/Defog/EIS Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser Region of Interest Support 4 fixed region for each stream, and dynamic tracking Target Cropping Support Day/Night Switch Auto/Schedule/Triggered by Alarm In (-S) Picture Overlay  Accuracy European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 98% Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h) Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance Direction Support capture and recognition of vehicles both approaching and leaving	Compression Standard		
H.264+ Support  Video Bit Rate 32 Kbps to 16 Mbps  Audio Compression (-S) G.711/G.722.1/G.726/MP2L2  Audio Bit Rate (-S) 64Kbps (G.711) /16Kbps (G.722.1) /16Kbps (G.726) /32-160Kbps (MP2L2)  Image  Max. Resolution 1920 × 1080  Main Stream 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720)  Sub Stream 60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720)  Sub Stream 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)  Third Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement BLC /3D DNR/Defog/EIS  Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest Support 4 fixed region for each stream, and dynamic tracking  Target Cropping Support  Day/Night Switch Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  Road Traffic and Vehicle Detection  Accuracy Capture Rate > 99%  Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h)  Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction Support capture and recognition of vehicles both approaching and leaving	Video Compression	Sub stream: H.264/MPEG4/MJPEG	
Video Bit Rate  32 Khps to 16 Mbps  Audio Compression (-S)  G.711/G.722.1/G.726/MP2L2  Audio Bit Rate (-S)  64Kbps (G.711) / 16Kbps (G.722.1) / 16Kbps (G.726) / 32-160Kbps (MP2L2)  Image  Max. Resolution  1920 × 1080  Main Stream  50Hz: 50fps (1920 × 1080, 1280 × 720)  Max. Frame Rate  60Hz: 60fps (1920 × 1080, 1280 × 720)  Sub Stream  50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720)  Sub Stream  50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)  Third Stream  50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement  BLC /3D DNR/Defog/EIS  Image Setting  Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest  Support 4 fixed region for each stream, and dynamic tracking  Target Cropping  Support  Day/Night Switch  Auto/Schedule/Triggered by Alarm In (-S)  LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions:  Capture Rate > 99%  Recognition Rate > 98%  Vehicle Speed  Support vehicle speed under 120 km/h (74.6 mi/h)  Line number  Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction	H.264 Type	Baseline Profile/Main Profile/High Profile	
Audio Compression (-S) G.711/G.722.1/G.726/MP2L2 Audio Bit Rate (-S) 64Kbps (G.711) /16Kbps (G.722.1) /16Kbps (G.726) /32-160Kbps (MP2L2)  Image  Max. Resolution 1920 × 1080  Main Stream 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720) Sub Stream 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 240)  Image Enhancement BLC /3D DNR/Defog/EIS  Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser Region of Interest Support 4 fixed region for each stream, and dynamic tracking  Target Cropping Support Day/Night Switch Auto/Schedule/Triggered by Alarm In (-S) Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h) Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance Direction Support capture and recognition of vehicles both approaching and leaving	H.264+	Support	
Audio Bit Rate (-S)    Max. Resolution   1920 × 1080     Main Stream   50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720)     Max. Frame Rate   60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720)     Sub Stream   50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)     Max. Frame Rate   60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)     Third Stream   50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)     Max. Frame Rate   60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)     Third Stream   50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)     Max. Frame Rate   60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)     Image Enhancement   BLC /3D DNR/Defog/EIS     Image Setting   Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser     Region of Interest   Support 4 fixed region for each stream, and dynamic tracking     Target Cropping   Support     Day/Night Switch   Auto/Schedule/Triggered by Alarm In (-S)     Picture Overlay   LOGO picture can be overlaid on video with 128 × 128 24bit bmp format     Road Traffic and Vehicle Detection     Recognition Rate > 99%     Recognition Rate > 98%     Vehicle Speed   Support vehicle speed under 120 km/h (74.6 mi/h)     Line number   Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance	Video Bit Rate	32 Kbps to 16 Mbps	
Max. Resolution 1920 × 1080  Main Stream 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720)  Max. Frame Rate 60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720)  Sub Stream 50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)  Third Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement BLC /3D DNR/Defog/EIS  Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest Support 4 fixed region for each stream, and dynamic tracking  Target Cropping Support  Day/Night Switch Auto/Schedule/Triggered by Alarm In (-5)  Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions:  Capture Rate > 99%  Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h)  Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction Support capture and recognition of vehicles both approaching and leaving	Audio Compression (-S)	G.711/G.722.1/G.726/MP2L2	
Max. Resolution  1920 × 1080  Main Stream  50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720)  Max. Frame Rate  50Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720)  Sub Stream  50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  50Hz: 25fps (704 × 480, 640 × 480, 352 × 288)  Max. Frame Rate  50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement  BLC /3D DNR/Defog/EIS  Image Setting  Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest  Support 4 fixed region for each stream, and dynamic tracking  Target Cropping  Support  Day/Night Switch  Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay  LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions:  Capture Rate > 99%  Recognition Rate > 98%  Vehicle Speed  Support vehicle speed under 120 km/h (74.6 mi/h)  Line number  Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction  Support capture and recognition of vehicles both approaching and leaving	Audio Bit Rate (-S)	64Kbps (G.711) /16Kbps (G.722.1) /16Kbps (G.726) /32-160Kbps (MP2L2)	
Main Stream  50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720)  Max. Frame Rate  50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  50Hz: 25fps (704 × 480, 640 × 480, 352 × 288)  Max. Frame Rate  50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement  BLC /3D DNR/Defog/EIS  Image Setting  Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest  Support 4 fixed region for each stream, and dynamic tracking  Target Cropping  Support  Day/Night Switch  Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay  LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  Road Traffic and Vehicle Detection  Accuracy  European and Russian-Speaking Regions:  Capture Rate > 99%  Recognition Rate > 98%  Vehicle Speed  Support vehicle speed under 120 km/h (74.6 mi/h)  Line number  Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction  Support capture and recognition of vehicles both approaching and leaving	Image		
Max. Frame Rate  60Hz: 60fps (1920 × 1080, 1280 × 960, 1280 × 720)  Sub Stream  50Hz: 25fps (704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)  Third Stream  50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)  Max. Frame Rate  60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement  BLC /3D DNR/Defog/EIS  Image Setting  Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest  Support 4 fixed region for each stream, and dynamic tracking  Target Cropping  Support  Day/Night Switch  Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay  LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  Recognition Rate > 99%  Recognition Rate > 99%  Recognition Rate > 98%  Vehicle Speed  Support vehicle speed under 120 km/h (74.6 mi/h)  Line number  Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Support capture and recognition of vehicles both approaching and leaving	Max. Resolution	1920 × 1080	
Max. Frame Rate 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)  Third Stream 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement BLC /3D DNR/Defog/EIS  Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest Support 4 fixed region for each stream, and dynamic tracking  Target Cropping Support  Day/Night Switch Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  Recognition Rate > 99%  Recognition Rate > 99%  Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h)  Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction Support capture and recognition of vehicles both approaching and leaving	Main Stream Max. Frame Rate		
Max. Frame Rate 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)  Image Enhancement BLC /3D DNR/Defog/EIS  Image Setting Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Region of Interest Support 4 fixed region for each stream, and dynamic tracking  Target Cropping Support  Day/Night Switch Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  Accuracy Capture Rate > 99%  Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h)  Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction Support capture and recognition of vehicles both approaching and leaving	Sub Stream Max. Frame Rate		
Image Setting  Rotate mode, saturation, brightness, contrast, sharpness adjustable by client software or web browser  Support 4 fixed region for each stream, and dynamic tracking  Target Cropping  Support  Day/Night Switch  Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay  LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions:  Capture Rate > 99%  Recognition Rate > 98%  Vehicle Speed  Support vehicle speed under 120 km/h (74.6 mi/h)  Line number  Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction  Support capture and recognition of vehicles both approaching and leaving	Third Stream Max. Frame Rate		
Region of Interest Support 4 fixed region for each stream, and dynamic tracking Target Cropping Support  Day/Night Switch Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h) Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance Direction Support capture and recognition of vehicles both approaching and leaving	Image Enhancement	BLC /3D DNR/Defog/EIS	
Target Cropping  Day/Night Switch  Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay  LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions:  Capture Rate > 99%  Recognition Rate > 98%  Vehicle Speed  Support vehicle speed under 120 km/h (74.6 mi/h)  Line number  Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction  Support capture and recognition of vehicles both approaching and leaving	Image Setting		
Day/Night Switch  Auto/Schedule/Triggered by Alarm In (-S)  Picture Overlay  LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 98%  Vehicle Speed  Support vehicle speed under 120 km/h (74.6 mi/h)  Line number  Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction  Support capture and recognition of vehicles both approaching and leaving	Region of Interest	Support 4 fixed region for each stream, and dynamic tracking	
Picture Overlay  LOGO picture can be overlaid on video with 128 × 128 24bit bmp format  Road Traffic and Vehicle Detection  European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 98%  Vehicle Speed  Support vehicle speed under 120 km/h (74.6 mi/h)  Line number  Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction  Support capture and recognition of vehicles both approaching and leaving	Target Cropping	Support	
Road Traffic and Vehicle Detection  European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h) Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance Direction Support capture and recognition of vehicles both approaching and leaving	Day/Night Switch	Auto/Schedule/Triggered by Alarm In (-S)	
European and Russian-Speaking Regions: Capture Rate > 99% Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h) Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance Direction Support capture and recognition of vehicles both approaching and leaving	Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format	
Accuracy Capture Rate > 99% Recognition Rate > 98%  Vehicle Speed Support vehicle speed under 120 km/h (74.6 mi/h)  Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction Support capture and recognition of vehicles both approaching and leaving	Road Traffic and Vehicle Detection		
Line number Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance  Direction Support capture and recognition of vehicles both approaching and leaving	Accuracy	Capture Rate > 99%	
Direction Support capture and recognition of vehicles both approaching and leaving	Vehicle Speed	Support vehicle speed under 120 km/h (74.6 mi/h)	
	Line number	Up to 4 lines supported. Recommended to set 1 or 2 lines for best performance	
Whitelist and Blacklist Up to 2048	Direction	Support capture and recognition of vehicles both approaching and leaving	
	Whitelist and Blacklist	Up to 2048	



	Mid-East:
	Turkey, United Arab Emirates, Qatar, Iran, Iraq, Morocco, Egypt, Jordan, Kuwait, Saudi Arabia, Tunisia, Palestine, Pakistan
	Africa:
	South Africa, Kenya, Nigeria, Tanzania, Mauritius
	Asia-Pacific:
	Australia, Mauritius, New Zealand, Indonesia, Malaysia, Singapore, South Korea, Thailand, Vietnam, the Philippines, Hong Kong, Macao, Taiwan, Burma, Japan, India, Mongolia
Countries and Regions	America: United States of America, Colombia, Brazil, Ecuador, Peru, Mexico
	Europe:
	Slovakia, Italy, Spain, France, Germany, Poland, France, Czech Republic, Netherlands, Denmark, Luxembourg, Greece, Albania, Bosnia and Herzegovina, Ireland, Malta, Sweden, Switzerland, Portugal, Macedonia, Croatia, Finland, United Kingdom, Romania, Serbia, Bulgaria, Norway, Israel, Hungary, Austria, Vatican City State, Cyprus, Iceland, Slovenia, Turkey, Montenegro
	Russian-Speaking Countries:
	Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Armenia, Russian Federation, Ukraine, Moldova, Belarus, Turkmenistan, Uzbekistan
Network	
Network Storage	Support microSD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm Trigger	Road traffic, motion detection, video tampering alarm, network disconnected, IP address conflict, illegal login, HDD full, HDD error
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6
General Function	One-key reset, anti-flicker, three streams, heartbeat, password protection, privacy mask, watermark, IP address filter, mirror
Standard	ONVIF (profile S, profile G), ISAPI
Interface	
Communication Interface	1 RJ45 10M/100M Ethernet port
Audio (-S)	With –S model: 1 audio input(line in/mic in), 1 audio output
Alarm (-S)	With –S model: 1 input, 1 output
Video Output	1Vp-p composite output (75 Ω/BNC)
On-board storage	Built-in microSD/SDHC/SDXC slot, up to 128 G
Reset Button	Yes
Audio (-S)	
Environment Noise Filtering	Support
Audio I/O	Support
Audio Sampling Rate	16kHz/32kHz/44.1kHz/48 kHz
General	
Operating Conditions	-IZS/P, -IZ/P, -LZS/P: -30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing) -IZHS/P: -40 °C to +60 °C (-40 °F to +140°F), Humidity 95% or less (non-condensing)
D 6 1	12 VDC ± 10%, terminal block
Power Supply	PoE (802.3at, class 4)
Power Consumption and Current	-(IZS)(IZ)/P:
	12 VDC, max. 13.3 W, 1.2 A; PoE, max. 17.6 W, 0.3 A to 0.5 A -IZHS/P: 12 VDC, max. 14.5 W, 1.3 A; PoE, max. 19.2 W, 0.3 A to 0.5 A
and content	-LZS/P: 12 VDC, max. 18.1 W, 1.6 A; PoE, max. 24 W, 0.4 A to 0.6 A
IR	-IZ/P, -IZS/P, -IZHS/P: 850 nm IR wavelength, up to 50 meters for 2.8 to 12 mm lens, up to 100 m for 8 to 32 mm lens
White Light	-LZS/P: up to 50 meters for 2.8 to 12 mm lens, up to 100 m for 8 to 32 mm lens
Heater	-IZHS: support



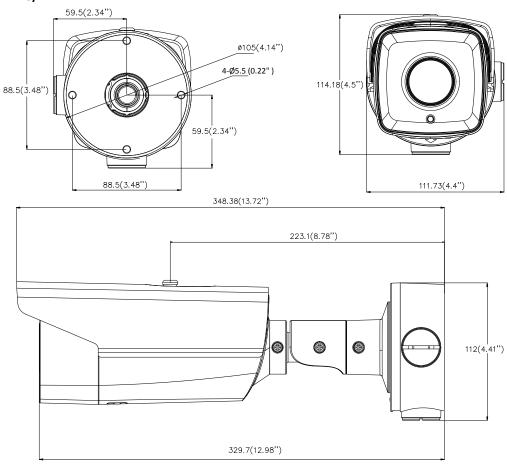
Protection	IP67
Dimensions	348.38 × 114.18 × 111.73 mm (13.72" × 4.5" × 4.4")
Weight	Approx. 2075 g (4.57 lb.)

## **Available Models:**

DS-2CD4A26FWD-IZ/P, DS-2CD4A26FWD-IZS/P, DS-2CD4A26FWD-IZHS/P, DS-2CD4A26FWD-LZS/P

## **Dimensions**

## -IZ/P, -IZS/P, -IZHS/P:



<sup>\*</sup>With –I model supports IR supplement

<sup>\*</sup>With –H model supports heater

<sup>\*</sup>With –L model supports white light supplement