

# DS-2DF8442IXS-AELWM(T5) 4 MP 42 × Network IR Speed Dome



















Hikvision DS-2DF8442IXS-AELWY(T5) 4 MP 42 × Network IR Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the 42 × optical zoom lens, the camera offers more details over expansive areas. This series of cameras can be widely used for wide ranges of high-definition, such as the rivers, forests, roads, railways, airports, ports, squares, parks, scenic spots, stations and large venues, etc.

- 1/1.8" Progressive Scan CMOS
- High quality imaging with 4 MP resolution
- Excellent low-light performance with DarkFighter technology
- 42 × optical zoom and 16 × digital zoom provide close up views over expansive areas
- Expansive night view with up to 500 m IR distance
- Water and dust resistant (IP67)
- Supports face capture to detect, capture, grade, and select faces in motion
- Supports road traffic to detect vehicles





# Specification

Image Sensor       3/1.8" progressive scan CMOS         Min. Illumination       Color: 0.001 Lux @ (F1.2, AGC ON), 8/W: 0.0005 Lux @ (F1.2, AGC ON), 0 Lux with IR         Shutter Speed       1/1 s to 1/30,000 s         Day & Night       IR cut filter         Zoom       42 × optical, 16 × digital         Detert( (25 px/m): 2965.5 m       Observe (sp. px/m): 176.8 m         Recognize (125 px/m): 604.1 m       Identify (250 px/m): 302.1 m         Max. Resolution       2560 × 1440         Lens       Auto, semi-auto, manual, rapid focus         Focus       Auto, semi-auto, manual, rapid focus         Focus I Length       5.5 mm to 231 mm         Zoom Speed       Approx. 4.5 s (optical, wide-tele)         FOV       Horizontal field of view: 66.6" to 1.7" (wide-tele), Vertical field of view: 33.7" to 0.9" (wide-tele)         Close Focus Distance       0.5 m-2 m         Aperture       Max. F1.2         Illuminator         Supplement Light Type       IR         Supplement Light Type       IR         Movement Range (Pan)       360°         Movement Range (Pan)       360°         Movement Range (Pan)       360°         Movement Range (Pan)       70°         Movement Range (Pan)       70°         Part Speed <th>Camera</th> <th></th>	Camera	
Shutter Speed 1/1 s to 1/30,000 s Day & Night 1 R cut filter 200m 42 x optical, 16 x digital Detect (25 px/m): 2965.5 m Observe (63 px/m): 1176.8 m Recognize (125 px/m): 604.1 m Identify (250 px/m): 302.1 m  Max. Resolution 2560 x 1440  Lens  Focus Auto, semi-auto, manual, rapid focus Focal Length 5.5 mm to 231 mm  Zoom Speed Approx. 4.5 s (optical, wide-tele) Horizontal field of view: 56.6* to 1.7* (wide-tele), Vertical field of view: 33.7* to 0.9* (wide-tele), Diagonal field of view: 63.4* to 1.9* (wide-tele) Close Focus Distance 0.5 m-2 m Aperture Max. F.1.2  Illuminator  Supplement Light Type IR Supplement Light Type IR Supplement Light Range Up to 500 m Smart Supplement Light Yye  FIZ  Wovement Range (Pan) 360* Movement Range (Pan) 360* Movement Range (Tilt) -20* to 90* (auto flip) Pan Speed Tilt speed: configurable from 0.1* to 240*/s Tilt Speed Tilt speed: configurable from 0.1* to 150*/s  Proportional Pan Yes Presets 300 Patrol Scan 8 patrols, up to 32 presets for each patrol Pattern Scan 4 pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan 3D Positioning Yes Preset Freezing Yes Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Image Sensor	1/1.8" progressive scan CMOS
Day & Night Zoom  42 × optical, 16 × digital Detect (25 px/m): 2965.5 m  Observe (63 px/m): 1176.8 m Recognize (125 px/m): 604.1 m Identify (250 px/m): 302.1 m  Max. Resolution  2560 × 1440  Lens Focus Auto, semi-auto, manual, rapid focus Focal Length So.5 m to 231 mm  Zoom Speed Approx. 4.5 s (optical, wide-tele) Horizontal field of view: 56.6 't o 1.7" (wide-tele), Vertical field of view: 33.7" to 0.9" (wide-tele), Diagonal field of view: 63.4" to 1.9" (wide-tele) Voice-tele), Diagonal field of view: 63.4" to 1.9" (wide-tele) Ultimator  Supplement Light Type IR Supplement Light Type Supplement Light Type Supplement Light Type IR Supplement Light Range Up to 500 m  Smart Supplement Light Yes PTZ  Wovement Range (Pan) Movement Range (Pan) Movement Range (Filit) -20" to 90" (auto flip) Pan Speed Tilt speed: configurable from 0.1" to 240"/s Tilt Speed Tilt speed: configurable from 0.1" to 150"/s Proportional Pan Yes Presets 300 Patrol Scan 8 patrols, up to 32 presets for each patrol 4 pattern scan 4 pattern scan 4 pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan 3D Positioning Yes Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON), B/W: 0.0005 Lux @ (F1.2, AGC ON), 0 Lux with IR
A2 × optical, 16 × digital  Detect (25 px/m): 2965.5 m  Observe (63 px/m): 1176.8 m  Recognize (125 px/m): 604.1 m  Identify (250 px/m): 302.1 m  Max. Resolution  Z560 × 1440  Ens  Focus  Auto, semi-auto, manual, rapid focus  Focal Length  S.5 mm to 231 mm  Zoom Speed  Approx. 4.5 s (optical, vide-tele)  Horizontal field of view: 56.6* to 1.7* (wide-tele), Vertical field of view: 33.7* to 0.9* (wide-tele), Diagonal field of view: 63.4* to 1.9* (wide-tele)  Close Focus Distance  O.5 m-2 m  Aperture  Max. F1.2  Illuminator  Supplement Light Type  IR  Supplement Light Range  Up to 500 m  Smart Supplement Light  Yes  PTZ  Movement Range (Pan)  Movement Range (Pan)  Movement Range (Pan)  Movement Range (Tilt)  Pan Speed  Pan speed: configurable from 0.1* to 240*/s  Tilt Speed  Tilt Speed: configurable from 0.1* to 150*/s  Proportional Pan  Yes  Presets  300  Pattor Scan  8 patrols, up to 32 presets for each patrol  Pattern Scan  4 pattern scans, record time over 10 minutes for each scan  Power-off Memory  Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning  Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB  eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Shutter Speed	1/1 s to 1/30,000 s
Detect (25 px/m): 2965.5 m Observe (63 px/m): 1176.8 m Recognize (125 px/m): 604.1 m Identify (250 px/m): 302.1 m  Max. Resolution 2560 × 1440  Lens  Focus Auto, semi-auto, manual, rapid focus Focal Length 5.5 mm to 231 mm  Zoom Speed Approx. 4.5 s (optical, wide-tele) Horizontal field of view: 56.6° to 1.7° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele) Close Focus Distance Aperture Max. F1.2  Illuminator  Supplement Light Type IR Supplement Light Type IR Movement Range (Pan) Movement Range (Pan) Movement Range (Tilt) Pan Speed Pan speed: configurable from 0.1° to 240°/s Tilt Speed Presets 300 Patrol Scan Park Action Pareset Feezing Preset Freezing Preset Freezing Preset Freezing Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output Presets Preset Freezing Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Day & Night	IR cut filter
Observe (63 px/m): 1176.8 m Recognize (125 px/m): 604.1 m Identify (250 px/m): 302.1 m  Max. Resolution 2560 × 1440  Lens  Focu Auto, semi-auto, manual, rapid focus Focal Length 5.5 mm to 231 mm  Zoom Speed Approx. 4.5 s (optical, wide-tele)  Horizontal field of view: 56.6° to 1.7° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele)  Close Focus Distance 0.5 m-2 m Aperture Max. F1.2  Illuminator  Supplement Light Type IR  Supplement Light Range Up to 500 m  Smart Supplement Light Range Up to 500 m  Smart Supplement Light Yes  PTZ  Movement Range (Pan) 360°  Movement Range (Filt) -20° to 90° (auto flip) Pan Speed : configurable from 0.1° to 240°/s  Tilt Speed Tilt speed: configurable from 0.1° to 150°/s  Prosportional Pan Yes  Presets 300  Patrol Scan 8 patrols, up to 32 presets for each patrol  Pattern Scan 4 pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes  PTZ Status Display Yes  PTZ Status Display Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Smart RAM: 2 GB eMMC: 8 GB  Scheduled Task Parts and Apartern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Zoom	42 × optical, 16 × digital
Recognize (125 px/m): 604.1 m   Identify (250 px/m): 302.1 m    Max. Resolution   2560 × 1440    Lens   Focus   Auto, semi-auto, manual, rapid focus    Focus   Auto, semi-auto, manual, rapid focus    Focus   Approx. 4.5 s (optical, wide-tele)    Horizontal field of view: 56.6" to 1.7" (wide-tele), Vertical field of view: 33.7" to 0.9" (wide-tele), Diagonal field of view: 63.4" to 1.9" (wide-tele), Vertical field of view: 33.7" to 0.9" (wide-tele)    Close Focus Distance   0.5 m - 2 m    Aperture   Max. F1.2    Illuminator   Wax. F1.2    Illuminator   Up to 500 m    Supplement Light Type   IR    Supplement Light Range   Up to 500 m    Smart Supplement Range (Pan)   360"    Movement Range (Pan)   360"    Movement Range (Pan)   360"    Movement Range (Tilt)   -20" to 90" (auto flip)    Pan Speed   Pan speed: configurable from 0.1" to 240"/s    Tilt Speed   Tilt speed: configurable from 0.1" to 150"/s    Proportional Pan   Yes    Presets   300    Patrol Scan   8 patrols, up to 32 presets for each patrol    Pattern Scan   4 pattern scans, record time over 10 minutes for each scan    Power-off Memory   Yes    Park Action   Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan    3D Positioning   Yes    Preset Freezing   Yes    Scheduled Task   Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output    HEOP   Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output    Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		Detect (25 px/m): 2965.5 m
Recognize (125 px/m): 604.1 m Identify (250 px/m): 302.1 m  Max. Resolution 2560 × 1440  Lens  Focus Auto, semi-auto, manual, rapid focus  Focal Length 5.5 mm to 231 mm  Zoom Speed Approx. 4.5 s (optical, wide-tele)  Horizontal field of view: 56.6* to 1.7* (wide-tele), Vertical field of view: 33.7* to 0.9* (wide-tele), Diagonal field of view: 63.4* to 1.9* (wide-tele), Vertical field of view: 33.7* to 0.9* (wide-tele), Diagonal field of view: 63.4* to 1.9* (wide-tele)  Close Focus Distance 0.5 m-2 m Aperture Max. F1.2  Illuminator  Supplement Light Type IR  Supplement Light Range Up to 500 m  Smart Supplement Light Pye  Wes  PTZ  Movement Range (Pan) 360*  Movement Range (Pan) 360*  Movement Range (Tilt) -20* to 90* (auto flip)  Pan Speed Pan speed: configurable from 0.1* to 240*/s  Tilt Speed Tilt speed: configurable from 0.1* to 150*/s  Proportional Pan Yes  Presets 300  Patrol Scan B patrols, up to 32 presets for each patrol  Pattern Scan 4 pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan of the control scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	DODI	Observe (63 px/m): 1176.8 m
Max. Resolution   2560 × 1440	DORI	Recognize (125 px/m): 604.1 m
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Focus Auto, semi-auto, manual, rapid focus  Focal Length 5.5 mm to 231 mm  Zoom Speed Approx. 4.5 s (optical, wide-tele)  Horizontal field of view: 56.6° to 1.7° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele)  Close Focus Distance 0.5 m-2 m  Aperture Max. F1.2  Illuminator  Supplement Light Type IR  Supplement Light Range Up to 500 m  Smart Supplement Light Yes  PTZ  Movement Range (Pan) 360°  Movement Range (Pan) 360°  Movement Range (Tilt) -20° to 90° (auto flip)  Pan Speed Tilt speed: configurable from 0.1° to 240°/s  Tilt Speed Tilt speed: configurable from 0.1° to 150°/s  Proportional Pan Yes  Presets 300  Pattern Scan 8 patrols, up to 32 presets for each patrol  Pattern Scan 4 pattern scans, record time over 10 minutes for each scan  Power-off Memory Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes  Preset Freezing Yes  Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Max. Resolution	2560 × 1440
Focal Length 5.5 mm to 231 mm  Zoom Speed Approx. 4.5 s (optical, wide-tele)  Horizontal field of view: 56.6" to 1.7" (wide-tele), Vertical field of view: 33.7" to 0.9" (wide-tele), Diagonal field of view: 63.4" to 1.9" (wide-tele) Close Focus Distance 0.5 m-2 m Max. F1.2  Illuminator  Supplement Light Type IR Supplement Light Range Up to 500 m  Smart Supplement Light Range Wes Wes Wes Wes Wes Wes Wes Wes Wes We	Lens	
Zoom Speed Approx. 4.5 s (optical, wide-tele)  Horizontal field of view: 56.6° to 1.7° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele)  Close Focus Distance 0.5 m-2 m Max. F1.2  Illuminator  Supplement Light Type IR  Supplement Light Range Up to 500 m  Smart Supplement Light Pyes  PTZ  Movement Range (Pan) 360°  Movement Range (Tilt) -20° to 90° (auto flip)  Pan Speed Pan speed: configurable from 0.1° to 240°/s  Tilt Speed Pan speed: configurable from 0.1° to 150°/s  Proportional Pan Yes  Presets 300  Patrol Scan 8 patrols, up to 32 presets for each patrol  Pattern Scan 4 pattern scans, record time over 10 minutes for each scan  Power-off Memory Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes  Preset Freezing Yes  Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Smart RAM: 2 GB eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Focus	Auto, semi-auto, manual, rapid focus
Horizontal field of view: 56.6° to 1.7° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele)  Close Focus Distance	Focal Length	5.5 mm to 231 mm
FOV (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele)  Close Focus Distance 0.5 m-2 m Aperture Max. F1.2  Illuminator  Supplement Light Type IR Supplement Light Range Up to 500 m  Smart Supplement Light Pyes  Movement Range (Pan) 360°  Movement Range (Pan) 360°  Movement Range (Tilt) -20° to 90° (auto flip) Pan Speed Pan speed: configurable from 0.1° to 240°/s  Tilt Speed Tilt speed: configurable from 0.1° to 150°/s  Proportional Pan Yes  Presets 300  Patrol Scan 8 patrols, up to 32 presets for each patrol  Pattern Scan 4 pattern scans, record time over 10 minutes for each scan  Power-off Memory Yes  Park Action Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan 3D Positioning Yes  Preset Freezing Yes  Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Smart RAM: 2 GB eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Zoom Speed	Approx. 4.5 s (optical, wide-tele)
Aperture Max. F1.2  Illuminator  Supplement Light Type IR  Supplement Light Range Up to 500 m  Smart Supplement Light PYES  PTZ  Movement Range (Pan) 360°  Movement Range (Pan) 40°  Movement Range (Pilt) -20° to 90° (auto flip)  Pan Speed Pan speed: configurable from 0.1° to 240°/S  Tilt Speed Tilt speed: configurable from 0.1° to 150°/S  Proportional Pan Yes  Presets 300  Patrol Scan 8 patrols, up to 32 presets for each patrol  Pattern Scan 4 pattern scans, record time over 10 minutes for each scan  Power-off Memory Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes  PTZ Status Display Yes  Preset Freezing Yes  Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Smart RAM: 2 GB  eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	FOV	(wide-tele),
Illuminator  Supplement Light Type Supplement Light Range Up to 500 m  Smart Supplement Light Yes  PTZ  Movement Range (Pan) Movement Range (Pith) Pan Speed Pan speed: configurable from 0.1° to 240°/s Tilt Speed Tilt speed: configurable from 0.1° to 150°/s Proportional Pan Yes  Presets 300 Patrol Scan Patrol Scan Pattern Scan Power-off Memory Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		
Supplement Light Type Supplement Light Range Supplement Light Range Supplement Light Yes  PTZ  Movement Range (Pan) Movement Range (Pan) Movement Range (Tilt) Pan Speed Pan speed: configurable from 0.1° to 240°/s Tilt Speed Tilt speed: configurable from 0.1° to 150°/s Proportional Pan Yes Presets 300 Patrol Scan Ratern Scan Apatrol Scan Apatrol Scan Apatrol Scan Apatrol Scan Apatrern Scan Apatrol Scan Apatrol Scan Apatrol Scan Apatrol Scan Apatrern Scan Apatrol Scan, auto Scan, tilt scan, random Scan, frame Scan, panorama Scan AD Positioning Yes Preset Freezing Yes  Scheduled Task Preset, pattern Scan, patrol Scan, auto Scan, tilt Scan, random Scan, frame Scan, panorama Scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern Scan, patrol Scan, auto Scan, tilt Scan, random Scan, frame Scan, panorama Scan, dome reboot, dome adjust, aux output	-	Max. F1.2
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Smart Supplement Light PTZ  Movement Range (Pan) Movement Range (Tilt) Pan Speed Pan speed: configurable from 0.1° to 240°/s Tilt Speed Tilt speed: configurable from 0.1° to 150°/s Proportional Pan Yes Presets 300 Patrol Scan Pattern Scan Power-off Memory Park Action Park Action Park Action PTS Status Display Preset Freezing Yes Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP Open Resources Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		
Movement Range (Pan)  Movement Range (Tilt)  Pan Speed  Pan speed: configurable from 0.1° to 240°/s  Tilt Speed  Tilt speed: configurable from 0.1° to 150°/s  Proportional Pan  Yes  Presets  300  Patrol Scan  Pattern Scan  4 pattern scans, record time over 10 minutes for each scan  Power-off Memory  Yes  Prak Action  3D Positioning  Yes  Preset Freezing  Yes  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, ome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB  eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		Up to 500 m
Movement Range (Pan)  Movement Range (Tilt)  Pan Speed  Pan speed: configurable from 0.1° to 240°/s  Tilt Speed  Tilt speed: configurable from 0.1° to 150°/s  Proportional Pan  Yes  Presets  300  Patrol Scan  Pattern Scan  Power-off Memory  Park Action  3D Positioning  Yes  Preset Freezing  Scheduled Task  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  Scheduled Task  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Smart Supplement Light	Yes
Movement Range (Tilt) Pan Speed Pan speed: configurable from 0.1° to 240°/s Tilt Speed Tilt speed: configurable from 0.1° to 150°/s Proportional Pan Yes Presets 300 Patrol Scan Pattern Scan Power-off Memory Yes Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP Open Resources Scheduled Task Pan speed: configurable from 0.1° to 240°/s Tilt speed: configurable from 0.1° to 250°/s Tilt speed: configurable from 0.1° to 150°/s T	PTZ	
Pan Speed Pan speed: configurable from 0.1° to 240°/s Tilt Speed Tilt speed: configurable from 0.1° to 150°/s Proportional Pan Yes  Presets 300  Patrol Scan 8 patrols, up to 32 presets for each patrol Pattern Scan 4 pattern scans, record time over 10 minutes for each scan Power-off Memory Yes  Park Action Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan 3D Positioning Yes PTZ Status Display Yes Preset Freezing Yes  Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	- ' '	360°
Tilt Speed Tilt speed: configurable from 0.1° to 150°/s  Proportional Pan Yes  Presets 300  Patrol Scan 8 patrols, up to 32 presets for each patrol  Pattern Scan 4 pattern scans, record time over 10 minutes for each scan  Power-off Memory Yes  Park Action Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes  PTZ Status Display Yes  Preset Freezing Yes  Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Smart RAM: 2 GB eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		·
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Presets 300 Patrol Scan 8 patrols, up to 32 presets for each patrol Pattern Scan 4 pattern scans, record time over 10 minutes for each scan Power-off Memory Yes Park Action Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes PTZ Status Display Yes Preset Freezing Yes Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP Open Resources Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		· · · · · · · · · · · · · · · · · · ·
Patrol Scan 8 patrols, up to 32 presets for each patrol Pattern Scan 4 pattern scans, record time over 10 minutes for each scan Power-off Memory Yes  Park Action Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes PTZ Status Display Yes Preset Freezing Yes  Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	•	
Pattern Scan 4 pattern scans, record time over 10 minutes for each scan  Power-off Memory Yes  Park Action Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning Yes  PTZ Status Display Yes  Preset Freezing Yes  Scheduled Task Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources Smart RAM: 2 GB  eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		
Power-off Memory  Park Action  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  3D Positioning  Yes  PTZ Status Display  Yes  Preset Freezing  Yes  Scheduled Task  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		
Park Action  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, patrol scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		4 pattern scans, record time over 10 minutes for each scan
Park Action  panorama scan  3D Positioning  Yes  PTZ Status Display  Preset Freezing  Yes  Scheduled Task  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, patrol scan, auto scan, tilt scan, random scan, fram	Power-off Memory	
PTZ Status Display  Preset Freezing  Yes  Scheduled Task  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Park Action	
Preset Freezing  Scheduled Task  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	3D Positioning	Yes
Scheduled Task  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	PTZ Status Display	Yes
Scheduled Task  panorama scan, dome reboot, dome adjust, aux output  HEOP  Open Resources  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	Preset Freezing	Yes
Open Resources  Smart RAM: 2 GB eMMC: 8 GB Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output		
Open Resources  eMMC: 8 GB  Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output	HEOP	Smort DAM: 2 CD
Scheduled Task panorama scan, dome reboot, dome adjust, aux output	Open Resources	eMMC: 8 GB
	Scheduled Task	
	Video	production of the second secon



Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)
	60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)
mia sucam	60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
	Main stream: H.265+/H.265/H.264+/H.264
Video Compression	Sub-stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264/MJPEG
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	8 fixed regions for each stream
Audio	
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM
Audio Bit Rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32~192 Kbps (MP2L2)
Network	
_	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP,
Protocols	RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour
API	ISUP, ISAPI, Hikvision SDK, Open Network Video Interface (Profile S, Profile G, Profile T)
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User
, 	Password protection, complicated password, HTTPS encryption, 802.1X authentication
	(EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest
Security	authentication for HTTP/HTTPS, RTP/RTSP over HTTPS, control timeout settings,
	security audit log, TLS 1.3, host authentication (MAC address)
Client	HikCentral, iVMS-4200, Hik-Connect
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+
Image	
	Saturation, brightness, contrast, sharpness, gain, and white balance adjustable by
Image Settings	client software or web browser
Defog	Optical defog
Image Enhancement	BLC, HLC, 3D DNR
Wide Dynamic Range (WDR)	140 dB WDR
Image Stabilization	Yes. Built-in gyroscope to improve EIS performance.
Regional Exposure	Yes
Regional Focus	Yes
Privacy Mask	Up to 24 masks, polygon region, mosaic mask, mask color configurable
Interface	op to 24 masks, polygom region, mosaic mask, mask color comigurable
Ethernet Interface	1 PIAE 10NA/100NA solf adaptive Ethernet port: Hi DoE
	1 RJ45 10M/100M self-adaptive Ethernet port; Hi-PoE
On-board Storage	Built-in memory card slot, support MicroSD/MicroSDHC/MicroSDXC, up to 256 GB
Alarm	7 inputs, 2 outputs
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K $\Omega$ ± 10%; 1
\".\".\".\".\".\".\".\".\".\".\".\".\".\	output (line out), line level, output impedance: 600 Ω
Video Output	1.0V[p-p]/75Ω, PAL, NTSC, BNC connector
RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive



Event	
Basic Event	Motion detection, video tampering alarm, alarm input and output, exception
	Line crossing detection, region entrance detection, unattended baggage detection,
Smart Event	object removal detection, intrusion detection, region exiting detection, vandal-proof
	alarm, audio exception detection
Smart Tracking	Manual tracking, auto-tracking
	Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record,
Alarm Linkage	Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send
	Email, etc.
Deep Learning Function	
	Support detecting up to 30 faces at the same time. Support detecting, tracking,
Face Capture	capturing, grading, selecting of face in motion, and output the best face picture of the
	face
Face Comparison	Yes
	Line crossing, intrusion, region entrance, region exiting
Perimeter Protection	Support alarm triggering by specified target types (human and vehicle)
Road Traffic and Vehicle De	
	Support vehicle detection (license plate number, vehicle model, and vehicle color
Road Traffic	recognition)
General	
Wiper	yes
General Function	Mirror, password protection, watermark, IP address filter
	24 VAC (Max. 60 W, including max. 18 W for IR and max. 6 W for heater), Hi-PoE (Max.
Power	50 W, including max. 18 W for IR and max. 6 W for heater)
Operating Condition	Temperature: $-40^{\circ}$ C to $70^{\circ}$ C ( $-40^{\circ}$ F to $158^{\circ}$ F), Humidity: $\leq 95\%$
Dimension	Ø 266.6 mm × 410 mm (Ø 10.50" × 16.14")
Weight	Approx. 8 kg (17.64 lb.)
weight	33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian,
	Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish,
Language	Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese,
	Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
Approval	man, rectioninese, supuriese, Eucroun, Elandaman, Fortagaese (Brazin), on annam
7.66.010.	FCC SDoC (47 CFR Part 15, Subpart B);
	CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011
	+A1: 2014);
EMC	RCM (AS/NZS CISPR 32: 2015);
	IC VoC (ICES-003: Issue 6, 2019);
	KC (KN 32: 2015, KN 35: 2015)
	UL (UL 62368-1)
	CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014);
Safety	CE-LVD (EN 62368-1:2014+A11:2017),
-3.00,	BIS (IS 13252(Part 1):2010+A1:2013+A2:2015);
	LOA (SANS IEC60950-1)
	CE-RoHS (2011/65/EU); WEEE (2012/19/EU);
Environment	Reach (Regulation (EC) No 1907/2006)
Anti-Corrosion Protection	NEMA 4X, WF2
Anti-corrosion Frotection	INCIDIO TA, VVI A



Protection	<b>D</b>	IP67 Standard, Lightning Protection, Surge Protection and Voltage Transient
	Protection	Protection, ±6kV Line to Gnd, ±3kV Line to Line, IEC61000-4-5

#### Available Model

DS-2DF8442IX-AELWYM(T5)

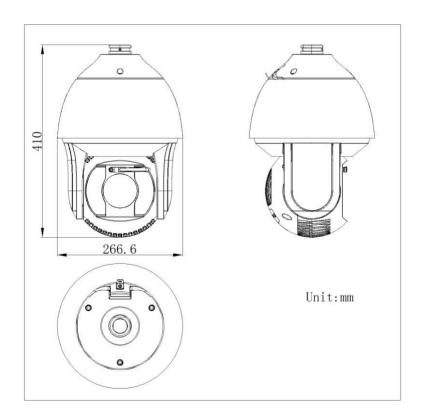
## Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has MODERATE PROTECTION.

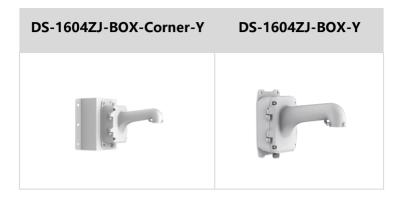
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion
	protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion
	demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away
	from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion
	protection is needed.

### Dimension





- Accessory
- Optional







## **HIKVISION**°

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