

IR SERIES SPEED DOME

STARLIGHT PTZ CAMERAS & SECURITY RADAR



DESCRIPTION

Starview's IR Series Speed Dome delivers long-range PTZ surveillance with up to 40× optical zoom and IR or laser illumination reaching 600 m, built on Ultra Starlight and Starlight sensors.

Available in 4, 5 and 8 MP with fast 300°/s pan, smart auto-tracking and onboard AI, the range is complemented by FMCW security radar for radar-activated PTZ tracking across perimeters, traffic and marine sites.

FEATURES

Long-Range Starlight PTZ

High-speed pan/tilt platforms pair 40× zoom optics with Starlight sensors and laser IR for clear, long-distance capture day or night, while deep-learning auto-tracking locks onto human and vehicle targets.

- 4 / 5 / 8 MP, up to 40× Optical Zoom
- IR up to 500 m / Laser up to 600 m
- 300°/s Pan Speed, Smart Auto-Tracking
- FMCW Security Radar (60 GHz / 24 GHz), up to 3000 m
- Wiper, Heater, IK10, IP66 – DC36V / AC24V / PoE++



Technical specifications - IR Series Speed Dome & Radar

Ultra Starlight



SV8MSD01

7" 8MP 40X IR Speed Dome (Wiper)

- 1/1.8" CMOS & ICR, 8MP (3840×2160) @25/30fps, H.265/H.264
- 40× Optical Zoom, 6.8-272mm, Auto Iris
- IR distance up to 500 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/PoE++, Wiper, Heater, IP66



SV8MSD02

7" 8MP 40X IR Speed Dome (IK10)

- 1/1.8" CMOS & ICR, 8MP (3840×2160) @25/30fps, H.265/H.264
- 40× Optical Zoom, 6.8-272mm, Auto Iris
- IR distance up to 500 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/PoE++, Heater, IP66



SV4MSD01

7" 4MP 40X IR Speed Dome (60fps, Wiper)

- 1/1.8" CMOS & ICR, 4MP (2592×1520) @50/60fps, H.265/H.264
- 40× Optical Zoom, 6.8-272mm, Auto Iris
- IR distance up to 400 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/PoE++, Wiper, Heater, IP66



SV4MSD02

7" 4MP 40X IR Speed Dome (60fps, IK10)

- 1/1.8" CMOS & ICR, 4MP (2592×1520) @50/60fps, H.265/H.264
- 40× Optical Zoom, 6.8-272mm, Auto Iris
- IR distance up to 400 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/PoE++, Heater, IP66

Starlight



SV5MSD01

7" 5MP 40X IR Speed Dome (Laser)

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 40× Optical Zoom, 5-200mm, Auto Iris
- Laser distance up to 600 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Wiper, Heater, IP66



SV5MSD02

7" 5MP 40X IR Speed Dome (Laser)

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 40× Optical Zoom, 5-200mm, Auto Iris
- Laser distance up to 600 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Heater, IP66



SV5MSD03

7" 5MP 30X IR Speed Dome (Laser)

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 30× Optical Zoom, 5.3-159mm, Auto Iris
- Laser distance up to 400 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Wiper, Heater, IP66

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Technical specifications - IR Series Speed Dome & Radar

Starlight (cont.)



SV5MSD04

7" 5MP 30X IR Speed Dome (Laser)

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 30× Optical Zoom, 5.3-159mm, Auto Iris
- Laser distance up to 400 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Heater, IP66



SV5MSD05

7" 5MP 40X IR Speed Dome (Wiper)

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 40× Optical Zoom, 5-200mm, Auto Iris
- IR distance up to 300 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Wiper, Heater, IP66



SV5MSD06

7" 5MP 40X IR Speed Dome (IK10)

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 40× Optical Zoom, 5-200mm, Auto Iris
- IR distance up to 300 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Heater, IP66



SV5MSD07

7" 5MP 30X IR Speed Dome (Wiper)

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 30× Optical Zoom, 5.3-159mm, Auto Iris
- IR distance up to 200 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Wiper, Heater, IP66



SV5MSD08

7" 5MP 30X IR Speed Dome (IK10)

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 30× Optical Zoom, 5.3-159mm, Auto Iris
- IR distance up to 200 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Heater, IP66



SV5MSD09

5" 5MP 30X IR Speed Dome

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 30× Optical Zoom, 5.3-159mm, Auto Iris
- IR distance up to 200 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 180°/s, 1/1 Audio, 2/2 Alarm, SD card slot
- DC36V/AC24V/PoE+, Heater, IP66



SV5MSD10

5" 5MP 18X IR Speed Dome

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 18× Optical Zoom, 5.3-95.4mm, Auto Iris
- IR distance up to 150 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 2/2 Alarm, SD card slot
- DC36V/AC24V/PoE+, Heater, IP66



SV5MSD11

4" 5MP Speed Dome

- 1/2.8" CMOS & ICR, 5MP (2592×1944) @25/30fps, H.265/H.264
- 15× Optical Zoom, 5.3-79.5mm, Auto Iris
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 200°/s, SD card slot
- DC12V/PoE, IP66



SV5MPTZ01

2" 5MP PTZ Dome

- 1/2.7" CMOS & ICR, 5MP (2880×1620) @25/30fps, H.265/H.264
- 5× Optical Zoom, 2.7-13.5mm, Auto Iris
- IR distance up to 30 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- SD card slot
- DC12V/PoE, IP66

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Technical specifications - IR Series Speed Dome & Radar

Starlight (cont.)



SV4MSD03

7" 4MP 40X IR Speed Dome (Wiper)

- 1/2.8" CMOS & ICR, 4MP (2592×1520) @25/30fps, H.265/H.264
- 40× Optical Zoom, 5-200mm, Auto Iris
- IR distance up to 300 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Wiper, Heater, IP66



SV4MSD04

7" 4MP 40X IR Speed Dome (IK10)

- 1/2.8" CMOS & ICR, 4MP (2592×1520) @25/30fps, H.265/H.264
- 40× Optical Zoom, 5-200mm, Auto Iris
- IR distance up to 300 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Heater, IP66



SV4MSD05

7" 4MP 30X IR Speed Dome (Wiper)

- 1/2.8" CMOS & ICR, 4MP (2592×1520) @25/30fps, H.265/H.264
- 30× Optical Zoom, 5.3-159mm, Auto Iris
- IR distance up to 200 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Wiper, Heater, IP66



SV4MSD06

7" 4MP 30X IR Speed Dome (IK10)

- 1/2.8" CMOS & ICR, 4MP (2592×1520) @25/30fps, H.265/H.264
- 30× Optical Zoom, 5.3-159mm, Auto Iris
- IR distance up to 200 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 300°/s, 1/1 Audio, 7/2 Alarm, RS485, CVBS, SD card slot
- DC36V/AC24V/PoE++, Heater, IP66



SV4MSD07

5" 4MP 30X IR Speed Dome

- 1/2.8" CMOS & ICR, 4MP (2592×1520) @25/30fps, H.265/H.264
- 30× Optical Zoom, 5.3-159mm, Auto Iris
- IR distance up to 200 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 180°/s, 1/1 Audio, 2/2 Alarm, SD card slot
- DC36V/AC24V/PoE+, Heater, IP66



SV4MSD08

5" 4MP 18X IR Speed Dome

- 1/2.8" CMOS & ICR, 4MP (2592×1520) @25/30fps, H.265/H.264
- 18× Optical Zoom, 5.3-95.4mm, Auto Iris
- IR distance up to 150 m
- True WDR / EIS / ROI / Defog / HLC / IVS
- Face / Human / Vehicle Detection & Capture, Attribute Detection
- Pan speed 180°/s, 1/1 Audio, 2/2 Alarm, SD card slot
- DC36V/AC24V/PoE+, Heater, IP66

Security Radar



SVCAL01

60GHz Perimeter Radar

- 60GHz FMCW radar
- Human / Vehicle detection: 1-60m
- Detection angle: 120° × 22° (H×V)
- Speed range: 0.5-30 m/s
- Accuracy: range ±0.5m, speed 0.03m/s, angle ±1°
- 1 RJ45, 1 RS485, 1/2 Alarm, 2 relay
- DC12V/PoE, IP66 Protection



SVCAL02

24GHz Perimeter Radar

- 24GHz FMCW radar
- Human detection range: up to 150 m
- Vehicle detection range: up to 180 m
- Detection angle: 90° × 13° (H×V)
- Speed range: 0.5-30 m/s
- Accuracy: range ±0.5m, speed 0.03m/s, angle ±1°
- 1 RJ45, 1 RS485, 1/2 Alarm, 2 relay
- DC12V/PoE, IP66 Protection



SVCAL03

24GHz Perimeter Radar

- 24GHz FMCW radar
- Human detection range: up to 450 m
- Vehicle detection range: up to 600 m
- Detection angle: 90° × 13° (H×V)
- Speed range: 0.5-30 m/s
- Accuracy: range ±0.75m, speed 0.006m/s, angle ±1°
- 1 RJ45, 1 RS485, 1 Alarm out
- DC12V/PoE+, IP66 Protection

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Technical specifications - IR Series Speed Dome & Radar

Security Radar (cont.)



SVCAL04

24GHz Long-Range Radar

- 24GHz FMCW radar
- Human detection range: up to 1000 m
- Vehicle detection range: up to 1500 m
- Speed range: 0.5-30 m/s
- Accuracy: range ± 0.75 m, speed 0.03m/s
- 1 RJ45 (10/100/1000M), 1 RS485, 1/1 Alarm, 1 relay
- DC12V, IP66 Protection



SVCAL05

24GHz Wall-Mount Radar

- 24GHz FMCW radar
- Human / Vehicle detection: 1 - 300m
- Detection angle: $20^{\circ} \times 13^{\circ}$ (HxV)
- Walk/Run across: 1-200m
- Speed range: 0.03-30 m/s
- Accuracy: range ± 0.75 m, speed 0.03m/s, angle $\pm 1^{\circ}$
- 1 RJ45, 1 RS485, 1/2 Alarm, 2 relay
- DC12V/PoE, IP66 Protection



SVCAL06

24GHz Marine Radar

- 24GHz FMCW radar
- Ship / boat detection range: up to 1500 m
- Detection angle: $90^{\circ} \times 13^{\circ}$ (HxV)
- Speed range: 0.5-30 m/s
- Accuracy: range ± 0.75 m, speed 0.006m/s, angle $\pm 1^{\circ}$
- 1 RJ45, 1 RS485, 1 Alarm out
- DC12V/PoE+, IP66 Protection



SVCAL07

24GHz Marine Radar

- 24GHz FMCW radar
- Ship / boat detection range: up to 3000 m
- Detection angle: $90^{\circ} \times 13^{\circ}$ (HxV)
- Speed range: 0.5-30 m/s
- Accuracy: range ± 2 m, speed 0.006m/s, angle $\pm 1^{\circ}$
- 1 RJ45, 1 RS485, 1/1 Alarm, 1 relay
- DC12V/PoE+, IP66 Protection

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