



Wi-Fi HaLow Catalog 2026

802.11ah Sub-1 GHz Long-Range Wireless Cameras · Access Points · Antennas · Off-Grid Solar

Kilometres, not metres

Sub-1 GHz 802.11ah reaches several kilometres line-of-sight and penetrates foliage and structures far better than 2.4 / 5 GHz. One outdoor access point serves multiple cameras.

No SIM, no monthly fee

Licence-free 902–928 MHz ISM band. No cellular subscription per camera, and no trenching or fibre to remote positions — the cost sits in the hardware, once.

0.1 W / 1 W / 2 W radio tiers

Cameras and access points come in three power tiers, so link margin can be matched to the site instead of over-specified. Both ends of a link should be on the same tier.

Designed & integrated in Taiwan

Hardware, network firmware and cloud platform engineered by AirLink iLife in Taichung, Taiwan, with engineers answering your technical questions directly.

Complete system, one partner

Cameras, access points, antennas, NVR and off-grid solar power from a single source. Standard ONVIF / RTSP on every camera. Low-volume customization on an NRE basis.

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Wi-Fi HaLow (802.11ah) Cameras

Sub-1 GHz long-range wireless cameras for sites where cabling and cellular are impractical — farms, plantations, ports, construction, campuses. Available in 0.1 W, 1 W and 2 W radio versions; one outdoor AP serves multiple cameras up to several kilometres line-of-sight.

Model		Description	Resolution	Packing / CTN
Bullet Cameras				
AS-204-5.0MP-AH		Wi-Fi HaLow Bullet 0.1W Sony IMX335 STARVIS Lens: 2.8–12mm ×4 Two-Way Audio AI Human Recognition & Auto Tracking	5.0MP / 2592×1944	12 PCS/CTN 460×390×420mm G.W. 16 kg
AS-204-HP5.0MP-AH-1W		Wi-Fi HaLow High Power 1W Bullet Sony IMX335 STARVIS Lens: 2.8–12mm ×4 Two-Way Audio AI Human Recognition & Auto Tracking	5.0MP / 2592×1944	12 PCS/CTN 460×390×420mm G.W. 16 kg
AS-204-HP5.0MP-AH-2W		Wi-Fi HaLow High Power 2W Bullet Sony IMX335 STARVIS Lens: 2.8–12mm ×4 Two-Way Audio AI Human Recognition & Auto Tracking	5.0MP / 2592×1944	12 PCS/CTN 460×390×420mm G.W. 16 kg
AS-53-5.0MP-AH		Wi-Fi HaLow 0.1W Sony IMX335 STARVIS Lens: 2.8mm Two-Way Audio AI Human Recognition & Auto Tracking	5.0MP / 2592×1944	12 PCS/CTN 460×390×420mm G.W. 16 kg
Lighting Bullet Cameras				
AS-205-5.0MP-AH		Wi-Fi HaLow Lighting Bullet 0.1W Sony IMX335 STARVIS 10× White LED Lens: 4/6 mm Two-Way Audio AI Human Recognition & Auto Tracking	5.0MP / 2592×1944	12 PCS/CTN 460×390×420mm G.W. 16 kg
AS-205-HP5.0MP-AH-1W		Wi-Fi HaLow High Power 1W Lighting Bullet Sony IMX335 STARVIS 10× White LED Lens: 4/6 mm Two-Way Audio AI Human Recognition & Auto Tracking	5.0MP / 2592×1944	12 PCS/CTN 460×390×420mm G.W. 16 kg
AS-205-HP5.0MP-AH-2W		Wi-Fi HaLow High Power 2W Lighting Bullet Sony IMX335 STARVIS 10× White LED Lens: 4/6 mm Two-Way Audio AI Human Recognition & Auto Tracking	5.0MP / 2592×1944	12 PCS/CTN 460×390×420mm G.W. 16 kg
Facial Recognition Cameras				
AS-36-5.0MP-AH		Wi-Fi HaLow Bullet 0.1W Sony IMX335 STARVIS Lens: 2.8–12mm ×4 / 6mm / 8mm Two-Way Audio AI Facial Recognition & Detection	5.0MP / 2592×1944	18 PCS/CTN 500×340×460mm G.W. 14 kg
AS-36-HP5.0MP-AH-1W		Wi-Fi HaLow High Power 1W Bullet Sony IMX335 STARVIS Lens: 2.8–12mm ×4 / 6mm / 8mm Two-Way Audio AI Facial Recognition & Detection	5.0MP / 2592×1944	18 PCS/CTN 500×340×460mm G.W. 14 kg
AS-36-HP5.0MP-AH-2W		Wi-Fi HaLow High Power 2W Bullet Sony IMX335 STARVIS Lens: 2.8–12mm ×4 / 6mm / 8mm Two-Way Audio AI Facial Recognition & Detection	5.0MP / 2592×1944	18 PCS/CTN 500×340×460mm G.W. 14 kg
PTZ Cameras				
AS-32R-5.0MP-AH		Wi-Fi HaLow 0.1W PTZ 4.5" Sony IMX335 STARVIS Lens: 4.7–94mm Pan 360° / Tilt 93° Zoom ×20 + Digital ×300 IR 150m	5.0MP / 2592×1944	8 PCS/CTN 525×480×360mm G.W. 21 kg
AS-30R-HP5.0MP-AH-1W		Wi-Fi HaLow High Power 1W 6" PTZ Sony IMX335 STARVIS Lens: 4.7–141mm Pan 360° / Tilt 90° Zoom ×30 + Digital ×300	5.0MP / 2592×1944	8 PCS/CTN 525×480×360mm G.W. 21 kg
AS-30R-HP5.0MP-AH-2W		Wi-Fi HaLow High Power 2W 6" PTZ Sony IMX335 STARVIS Lens: 4.7–141mm Pan 360° / Tilt 90° Zoom ×30 + Digital ×300	5.0MP / 2592×1944	8 PCS/CTN 525×480×360mm G.W. 21 kg
LPR Capture Cameras				
AS-206-5.0MP-AH		Wi-Fi HaLow LPR Capture 0.1W Lens: 6–22mm Parking Lot LPR ≤60 km/h AI Human Recognition RTMP	5.0MP / 2592×1944	8 PCS/CTN 460×390×420mm G.W. 16 kg
AS-206-HP-5.0MP-AH-1W		Wi-Fi HaLow LPR Capture 1W Lens: 6–22mm Parking Lot LPR ≤60 km/h AI Human Recognition RTMP	5.0MP / 2592×1944	8 PCS/CTN 460×390×420mm G.W. 16 kg
AS-206-HP-5.0MP-AH-2W		Wi-Fi HaLow LPR Capture 2W Lens: 6–22mm Parking Lot LPR ≤60 km/h AI Human Recognition RTMP	5.0MP / 2592×1944	8 PCS/CTN 460×390×420mm G.W. 16 kg
Smoke & Fire Detection Cameras				
AS-35R-4.0MP-AH		Wi-Fi HaLow Smoke & Fire Detection 0.1W Lens: 2.8–12mm Auto Focus Built-in Red/Blue Warning Light + Audio Alarm RS485 Auto-trigger on Smoke/Fire Detection Event	4.0MP / 2560×1440	12 PCS/CTN 460×390×420mm G.W. 16 kg
AS-35R-HP-4.0MP-AH-1W		Wi-Fi HaLow Smoke & Fire Detection 1W Lens: 2.8–12mm Auto Focus Built-in Red/Blue Warning Light + Audio Alarm RS485 Auto-trigger on Smoke/Fire Detection Event	4.0MP / 2560×1440	12 PCS/CTN 460×390×420mm G.W. 16 kg
AS-35R-HP-4.0MP-AH-2W		Wi-Fi HaLow Smoke & Fire Detection 2W Lens: 2.8–12mm Auto Focus Built-in Red/Blue Warning Light + Audio Alarm RS485 Auto-trigger on Smoke/Fire Detection Event	4.0MP / 2560×1440	12 PCS/CTN 460×390×420mm G.W. 16 kg

Ordering by radio power. Model numbers carry the radio power as a suffix: no suffix = 0.1 W, **-1W** = 1 W high power, **-2W** = 2 W high power. Please quote the full model number including the suffix when ordering, and note that both ends of a link should use the same power tier.

Wi-Fi HaLow Access Points & Antennas

Outdoor 902–928 MHz access points supplied with PoE injector, adaptor, mounting holder and cable. Pair with omni or Yagi antennas to match coverage and range.

Model		Description	Frequency	Package
ODU01-AH		Wi-Fi HaLow Outdoor AP 0.1W	902–928 MHz	AP ×1 Adaptor ×1 PoE Injector ×1 AP Holder ×1 RJ45 1m ×1
ODU02-AH		Wi-Fi HaLow High Power 1W Outdoor AP	902–928 MHz	AP ×1 Adaptor ×1 PoE Injector ×1 AP Holder ×1 RJ45 1m ×1
ODU03-AH		Wi-Fi HaLow High Power 2W Outdoor AP	902–928 MHz	AP ×1 Adaptor ×1 PoE Injector ×1 AP Holder ×1 RJ45 1m ×1
Omni-2		Outdoor Omni Antenna 2 dBi	900 MHz	
Omni-7		Outdoor Omni Antenna 7 dBi	900 MHz	
Yagi-20		Yagi Antenna 20 dBi — directional; improves link margin without increasing radio power	900 MHz	

Access point power input. PoE 48 V or DC 12 V is a factory build option on the access point and must be specified at the time of order — it cannot be changed after shipment. Off-grid sites running from a solar kit require the DC 12 V build. Radio-equipment homologation in the destination country is the responsibility of the buyer.

Network Video Recorders

H.265 NVRs from 8 to 64 channels, with and without built-in PoE. Compatible with all AirLink HaLow cameras via ONVIF / RTSP.

Model	Description	Video Input	HDD Slots
POE NVR — H.265			
NVR-8CH	8CH POE NVR, H.265 Video Input: 8×12MP HDD: 1×SATA (Max 8T)	8×12MP	1×SATA (Max 8T)
NVR-16CH	16CH POE NVR, H.265 Video Input: 16×12MP HDD: 2×SATA (Max 14T)	16×12MP	2×SATA (Max 14T)
Standard NVR — H.265			
NVR-12CH	12CH NVR, H.265 Video: 8ch×4K / 12ch 5MP HDD: 1×SATA (Max 8T)	8ch×4K / 12ch 5MP	1×SATA (Max 8T)
NVR-16CH	16CH NVR, H.265 Video: 8ch×4K / 16ch 5MP / 20ch 4MP HDD: 1×SATA (Max 8T)	8ch×4K / 16ch 5MP	1×SATA (Max 8T)
NVR-36CH	36CH NVR, H.265 Video: 36ch×4K / 25ch 12MP HDD: 2×SATA (Max 14T)	36ch×4K / 25ch 12MP	2×SATA (Max 14T)
NVR-64CH	64CH H.265 64CH 8MP / 36CH 12MP HDD: 8×SATA (Max 14T) Ports: 2×RJ45, 2×HDMI, 2×USB	64CH 8MP / 36CH 12MP	8×SATA (Max 14T)

Off-Grid Solar Power Systems

Pre-assembled 60 W solar panel + lithium battery kits with regulated 12 V output for HaLow cameras and access points. Volume pricing available. Options: 48 V–12 V PoE splitter, 12 V power adapter.

Model	Description	Capacity	Packing / CTN
SD-6-27	Solar 60W Battery 11.1V/27Ah Output 12V	299.7Wh	1 PCS/CTN 47×22×45cm G.W. 9.5 kg
SD-6-30	Solar 60W Battery 11.1V/30Ah Output 12V	333Wh	1 PCS/CTN 47×22×45cm G.W. 9.5 kg
SD-6-38	Solar 60W Battery 11.1V/38Ah Output 12V	421.8Wh	1 PCS/CTN 47×22×45cm G.W. 9.5 kg

Specifying a HaLow system. Both ends of a radio link should use the same power tier (0.1 W, 1 W or 2 W) — a high-power access point does not compensate for a low-power camera. Access point and camera power input (PoE 48 V or DC 12 V) is a factory build option and must be specified at the time of order; off-grid sites running from a solar kit require the DC 12 V build. Pair the omni antenna for cameras spread around the access point, or the Yagi where all cameras sit within a narrow bearing — a directional antenna improves link margin without increasing radio power, which matters where local regulations cap conducted output. Radio-equipment homologation in the destination country is the responsibility of the buyer.

Ordering Information

- **Pricing:** Quoted per project on request. Volume tiers available.
- **Payment:** Deposit to initiate order; balance prior to shipping.
- **Lead time:** 2–4 weeks depending on quantity and model; confirmed at order.
- **Warranty:** Standard 1-year warranty on all products with technical support.
- **Customization:** Logo, login interface, MAC range, firmware features and cloud white-label available on an NRE basis.
- **Cloud:** AirLink Cloud Platform hosted in Taiwan — 60-day free trial; self-hosted and source-code licensing available.