

Procurement Specification & Configuration Sheet

Selection reference for AI algorithm appliances, visual AI gateways and application-specific field hardware. The final supply is governed by the mutually confirmed quotation, technical agreement and acceptance criteria.

Pre-sales selection / procurement review

Version 2026-09-25

How to read this sheet

“Source-verified” values are transcribed from the available product material. “Configuration confirmation” means that the formal model, workload capacity, interface details or supply terms must be defined in the quotation and technical agreement. Chip names and TOPS figures identify reference configurations; they are not complete-system benchmark commitments.

Source-verified

Confirm configuration

This sheet contains no purchase price or fixed delivery commitment and does not replace a project technical agreement.

PRODUCT FAMILY 01

2–384-channel classes

Intelligent AI Algorithm Appliance

Integrated hardware and software for multi-stream analysis, task configuration, live preview, alarms and third-party system integration.

PRODUCT FAMILY 02

Visual AI gateways

Distribution / Transmission / Fusion

For rooms, transmission corridors and multimodal environmental sensing; channel count, ports and sensor combinations are project-specific.

PRODUCT FAMILY 03

Field hardware

Mobile Monitoring & Bird Deterrence

Front-end devices, management platforms and linkage strategies may be combined; safety parameters, accessories and site conditions require confirmation.

Verified protocol categories

RTSP, GB28181, H.264/H.265, MQTT and API. Protocol versions, authentication, schemas and compatibility lists are technical-agreement items.

Inputs for correct sizing

Stream count × resolution × frame rate × codec × concurrent algorithms × retention period. A sample or POC using target streams and algorithms is recommended.

Six Reference Configuration Classes

The table is checked against the available source. Formal SKUs, complete-system composition and measured concurrency are quotation-confirmation items.

Channel counts are selection classes, not a promise of identical concurrency under every resolution, frame rate and algorithm combination.

Parameter	2 ch.	8 ch.	16 ch.	32 ch.	64 ch.	384 ch.
Model / SKU	Per confirmed configuration and quotation					
Source-stated compute reference	3 TOPS	7.2 TOPS	16 TOPS	32 TOPS	64 TOPS	384 TOPS
Main processor	4× Cortex-A53	6-core ARM A53 @ 1.6 GHz	8-core ARM A53 @ 1.6 GHz	8-core ARM A53 @ 2.3 GHz	8-core ARM A53 / 16-core ARM A53 ¹	8-core ARM A53 / 96-core ARM A53 ¹
AI chip (configuration ID)	RV1126B	CV186AH	BM1688	BM1684X	BM1684X	BM1684X
Memory (G, source text)	2	4	8	16	12+32 ¹	12+192 ¹
Storage (G, source text)	32	32	64	64	64	32×13 ¹
Network	1× Gigabit Ethernet	2× Gigabit Ethernet	2× Gigabit Ethernet	2× Gigabit Ethernet	3× Gigabit Ethernet	3× Gigabit Ethernet
USB	Supported	Supported	Supported	Supported	Supported	Supported
Serial	RS232, RS485	Not supported	RS232, RS485	RS232, RS485	Not supported	Not supported
External storage	SD	TF	TF, M.2	SSD, SATA	SATA	SATA
Chassis dimensions (unit per quotation)	152.3×84.5×29.8	165.8×83×53.5	204×148×48	210×130×44.5	418.5×480×44.45	418.5×480×44.45
Power / consumption / weight	Per confirmed configuration and quotation					

Capabilities and integration

The source confirms RTSP and GB28181 video ingestion, H.264/H.265 streams, plus MQTT and API integration categories. Task setup, live preview, alarms and short-video evidence depend on the delivered software version.

Quotation boundary

¹ Slash-separated processor wording, “12+32 / 12+192” memory composition and “32×13” storage topology reproduce the source and require explicit definition in the technical agreement. The dimension unit also requires confirmation.

Additional 92 / 128 / 160-channel options may be confirmed for the project; detailed hardware specifications are subject to the corresponding quotation and technical agreement.

Scope and Configuration Confirmation

Verified capabilities are separated from complete-appliance items that still require confirmation.

Product / form	Source-verified capability	Procurement and delivery confirmation
Distribution-room Visual AI Gateway	The source states 8–16 video channels and lists smoke/fire, small-animal, personnel-zone, fall, helmet, face, switch-position and indicator-light recognition.	Formal model; stream conditions; concurrent algorithms; network, serial and digital I/O; power; storage; platform version; and acceptance samples.
Transmission-corridor Visual AI Gateway	The source lists foreign-object, smoke/fire and construction-vehicle recognition, an HTTP interface and a streaming inference framework.	Channel limit per confirmed configuration; interface version, authentication, inference input, return schema, UAV integration boundary and algorithm list.
Grid Intelligent Fusion Gateway	Gateway + environmental monitoring + LoRa battery-sensor form. Optional categories include temperature/humidity, SF6, PM2.5, PM0.5–PM1, methane–hydrogen-sulfide and oxygen–carbon-monoxide sensors.	Complete-appliance compute per configuration; port types/counts; LoRa band; sensor models/ranges/accuracy/calibration; battery and antenna; platform protocol; power and mounting accessories.

MOBILE SAFETY

Mobile Safety Monitoring Unit

The source lists intercom, hot-work workflow control and continued algorithm updates. It may be combined with enterprise/project management platforms and a WeChat mini program, and may connect to other management systems.

Confirm: front-end model, compute and algorithm pack, camera, network, intercom, ingress protection, power/runtime, platform modules, interfaces and accessories.

BIRD DETERRENCE

Intelligent Bird Detection & Deterrence Unit

Supports bird and nest detection, automatic deterrence, automatic patrol and manual point-target modes. Schedules and presets may be set, with laser linkage and image capture after detection.

Confirm: camera model, detection range/test conditions, laser class/wavelength/power, safety interlocks, scan envelope, mounting, power, environmental tolerance and site compliance.

Gateway performance wording

Chip names or “16t / 7.2t” wording in source material are not used as complete-appliance performance commitments. Procurement documents should define the full system configuration, workload conditions and acceptance method.

Sensor wording

A sensor category does not lock a brand or accuracy. Model, range, communication, calibration and regional frequency must be confirmed for the project.

Pre-order Confirmation Checklist

The following items should be captured in the quotation appendix or a mutually signed technical agreement.

1 Models and quantities Formal SKU for each class, quantity, hardware/software versions and substitute-component approval.	2 Video workload Streams, resolution, frame rate, codec, bitrate, real-time/patrol mode and algorithms per stream.
3 Algorithm delivery Names, versions, licence quantity/term, update method, thresholds and acceptance samples.	4 Hardware interfaces Network, USB, serial, digital I/O, audio/video, antennas and expansion storage: type, count and connector.
5 Storage and evidence System/data disk composition, usable capacity, alarm image/video retention and export method.	6 Electrical and mechanical Power input, peak/typical consumption, dimension unit, weight, cooling, mounting and power supply.
7 Environment and safety Operating temperature/humidity, ingress protection and grounding; laser and gas-sensor safeguards where applicable.	8 Software and interfaces OS/platform versions, API documents, authentication, event schema, SDK and camera/platform compatibility lists.
9 Gateway and sensors LoRa band; sensor model/range/accuracy/calibration; sampling, battery, gateway protocol and point schedule.	10 Test and acceptance Sample/POC, sustained load, alarm latency, accuracy methodology, network recovery, API integration and report.
11 Documents and compliance Manual, packing list and serial-number rule; required certificates/test files only when confirmed for the project.	12 Commercial and service Price, delivery, trade terms, warranty, response, training, spares and change control are subject to quotation/contract.

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Please provide the target scenario, source-stream profile, algorithm list and deployment conditions so that a testable configuration can be prepared.

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Document notice: This sheet supports pre-sales selection and procurement discussion. It does not commit any unconfirmed model, certification, power figure, dimension unit, warranty, price or delivery schedule. Final supply is governed by the mutually confirmed quotation, technical agreement and contract.

Official chip-level references (not complete-system specifications): [Rockchip RV1126B official release](#); [SOPHGO BM1688 product specification](#). BM1688's 16 TOPS figure is a chip-level INT8 peak. Typical power and operating-environment temperature remain TBD in the official chip document; they are not used to infer LeeSyn appliance parameters or channel performance.