Sourcing Sprint

FORMAT SAMPLE / INDOOR MOBILE ROBOT / 360° 2D LiDAR

Supply options for one hardware requirement, compared on public evidence — with every unknown left visibly open.

Project ID FORMAT-SAMPLE (no client)	Buyer Hypothetical educational lab
Scope One part class · one destination · one decision	Evidence as of 2026-10-28 (public pages)
Method Desk review	Reviewer — (assigned on a real engagement)

FORMAT SAMPLE — NOT A COMPLETED CLIENT DELIVERY. No supplier was contacted. No quotation, MOQ, lead time, stock, authorisation or partnership was obtained. Three *sourcing paths* are shown, not three contracted suppliers.

Your target

What the buyer asked for, and what is still missing before any supplier can be asked a useful question.

Item	Recorded	Status
Category / variant	360° 2D LiDAR, UART with USB bridge	variant open
Quantity	1 prototype; later small batch	range to confirm
Destination	—	missing
Delivery constraint	—	missing
Must-have	Indoor 2D navigation; dark-obstacle detection near the robot	recorded
Host / ROS	Raspberry Pi-class; ROS 2 desired, distribution unknown	missing version

Missing before outreach

- Ship-to country and buyer of record
- Exact ROS 2 distribution and host OS
- Quantity bands (1 / 5 / 20) and target date
- Acceptable kit contents (adapter, cable, mount)

Supplier evidence ledger

Manufacturer, distributor and retailer are different supplier types. Nothing is labelled “authorised” without documentary proof.

Sourcing path	Role (verified)	Source	Variant evidence	Identity / document check
SLAMTEC (manufacturer)	Manufacturer	S1 public spec page	RPLIDAR C1; range conditional on reflectivity; TTL UART	Identity from official site; regional distribution not checked
Waveshare (retail kit)	Retailer / kit supplier	S3 · S4	D500 LiDAR Kit listing with kit contents	Reseller rights and kit revision not established
SLAMTEC (alternative product)	Manufacturer	S2 public spec page	RPLIDAR A1; 5.5 Hz; 0.15–12 m; UART 3.3 V	Only if the buyer accepts a lower scan rate

The Waveshare D500 LiDAR Kit is **not proven identical** to TANNAI TR-LID-D500. A shared model fragment is not evidence of OEM origin, kit contents or certification equivalence.

Commercial matrix

No generic zeroes and no guessed numbers: a term is filled only from a dated public listing or a written supplier reply.

Term	Path A · C1	Path B · D500 Kit	Path C · A1
Exact SKU + kit contents	Variant to confirm	Listed: kit, adapter, USB A–Micro USB cable, 4-pin cable — confirm revision	Variant to confirm
Published reference price (currency, date)	needs supplier confirmation	needs supplier confirmation	needs supplier confirmation
MOQ / volume price	needs supplier confirmation	needs supplier confirmation	needs supplier confirmation
Lead time + dispatch location	needs supplier confirmation	needs supplier confirmation	needs supplier confirmation
Incoterms + shipping	needs supplier confirmation	needs supplier confirmation	needs supplier confirmation
Taxes / duties	needs supplier confirmation	needs supplier confirmation	needs supplier confirmation
Warranty + DOA	needs supplier confirmation	needs supplier confirmation	needs supplier confirmation
Returns	needs supplier confirmation	needs supplier confirmation	needs supplier confirmation
Sample availability	needs supplier confirmation	needs supplier confirmation	needs supplier confirmation

Risk decision

Each rating is explained in words rather than with a pseudo-precise score.

Risk	Rating	Why
Compatibility / package mismatch	Open	Kit revisions and bridge boards differ; ROS 2 driver not verified for the buyer host
Warranty ownership	Open	Who honours warranty for a retail kit shipped abroad is not documented
Channel authenticity	Open	Retail listing is public; reseller status relative to the manufacturer is not established
Logistics / country	Open	Destination unknown; duties, battery-free shipping and returns address unconfirmed
Supplier response	Unknown	No outreach has been made; responsiveness cannot be rated
Document coverage	Partial	Specifications are public; commercial terms are not

Action plan

A preferred follow-up based on the buyer's constraints — not a guaranteed recommendation.

Supplier question script (for approved outreach only)

1. Quote exact model + revision, SKU, full kit BOM, quantity 1 / 5 / 20, currency, price validity and payment terms.
2. Confirm stock / lead time and dispatch location in writing.
3. Confirm authorised distribution status only if relevant, with proof.
4. Provide package contents, current datasheet, SDK / ROS driver versions, interface and power documentation.
5. Confirm shipping to the buyer country, Incoterms, duties handling, warranty, DOA terms and return address.
6. Confirm the right to reproduce images / spec sheets if the buyer needs them.

Proceed-to-PO gates

- Buyer constraints complete (destination, quantity, ROS version)
- Written quotes for the exact variant from at least one path
- Sample plan agreed, if a physical check is needed
- Warranty, returns and seller of record confirmed
- Only then: purchase order

TANNAI ROBOTICS / TECHNICAL SELECTION & SOURCING

Operational process: scope request → eligibility screen → written scope and fee → accepted invoice → verified payment → research → evidence QA → report → one clarification → optional separate procurement proposal.

Format sample · evidence date 2026-10-28 · not an invoice, quotation or customer case