

CantiereCam

your site in one click

User guide · version 2.96.1 · November 2026

The app made by a site engineer to document the building site with just a few taps: stamped photos, documents and OCR, drawings and dimensions, site Diary and works log, notes and reminders.

© 2026 Antonio Demarcus · The screenshots mostly use made-up test data (Edil Esempio srl, Mario Rossi, Luca Bianchi) and show the app in Italian.

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1 · Introduction

↑ contents

1.1 Why CantiereCam

Whoever works on a building site photographs everything: the existing state, concrete pours, excavations, defects, material deliveries, delivery notes. With the phone's normal camera, though, after a few days there are hundreds of photos, mixed with personal ones, with no readable date, no position and nothing saying which site they belong to. When they are needed, for a dispute, a progress report, a technical report or a works log, hours are lost searching for them, renaming them and pasting them into Word.

CantiereCam was born from this problem: it is written by an engineer who works on site, for people who work on site. The idea is simple: **every photo is born already in its place and already documented**.

- It goes by itself into the folder **Project** → **Site** → **Day**.
- It carries a **stamp** with company, site, date and time, coordinates, height above sea level, direction and address.
- It gets a **digital fingerprint** (SHA-256) that proves it has not been retouched.
- It goes into the **Diary of the day**, which prints as PDF or Word as a works log, with people, machines and hours.
- **Documents** (delivery notes, invoices, receipts) are sorted by supplier and the app reads their content into an **Excel list** of supplies.

1.2 The principles behind it

Principle	What it means in practice
Few taps	Usable with one hand, even with gloves; the important buttons are big; you can shoot with the volume key too.
Readable in the sun	Strong colours, large text, a stamp with a dark border.
Your data is yours	Photos, Diary and notes stay on your phone, on your Google Drive and, if you want, on your NAS. No third-party servers, no one else's archive.
Works offline	On site there is often no signal: you can still shoot, write and read documents; uploads start as soon as there is a connection.
No artificial intelligence deciding for you	The app does not classify photos by itself and does not guess the works: you decide, with quick tags. Document OCR also only **suggests**: you check and correct.
Files anyone can read	JPG photos, PDF, Word, Excel and CSV: no closed formats.

1.3 Who it is for

For the **surveyor** and the **works director** who must document and write the works log; for the **site manager** who records attendance, machines and materials to order and checks deliveries; for the **company** that wants photos and documents from all its phones tidy in one place; for anyone who must be able to say, months later, "*this was like this, on that day, at that spot*".

2 · How to read this guide

↑ contents

The guide is made like a book: each **chapter** is a topic, divided into numbered **sections** (6.1, 6.2…). From the contents tap the title to get there; "↑ contents" at the top of each chapter takes you back. Words in **bold** are the names you find written in the app; grey notes with a blue bar are practical tips.

If you are short of time, read 4 · First start, 6 · Taking photos and 14 · Diary: they are enough to start working. If you receive many delivery notes and invoices, also read 7 · Documents and 8 · Document OCR.

> 📖 **The guide is also inside the app:** ❓ at the top of the Home screen opens it at the contents; ❓ at the top of the other screens (Gallery, OCR, Suppliers, Straighten, Diary, Notes, Settings…) goes straight to the section that explains that screen. There too the contents can be tapped and ☰ goes back to them. It is also in Settings → Information → 📖 **User guide**. It opens in the language of the app (Italian, English or Spanish).

> Almost all the screenshots use made-up test data and show the app in Italian; the document ones come from real documents, with company names and figures blurred. On your phone you will see the names of your company and your sites, in your language.

3 · The app icons

↑ contents

The same icons come back in several screens and always do the same thing.

3.1 General commands and open photo

Navigation and general commands		Open photo	
❓	**Guide**: opens this guide at the section of the screen		
←	Go back		**Verify**: is the photo intact?
	Settings	↗	**Share**: light copy or original
	Search		**Note, No. and tags** of the photo
	Opens the CantiereCam folder of the phone		**Crop and rotate**
	Projects from the other devices		**Draw** (annotations and dimensions)
⇄	Change the active site		Delete
×	Close, remove, cancel	◀ ▶	Previous / next photo
⋮	Menu with more functions		Voice note (hold and speak)
+	New (project, site, note)		**To print**: goes into the Diary PDF

3.2 Camera, Diary and notes

Camera		Diary and notes	
●	**GPS light**: green good, yellow uncertain, red missing		Site Diary
#	Grid for aligning	PDF	Print the Diary as PDF or Word
	Flash	☐ ☑	List item to do / done
	Compass: direction of the shot		Reminder with notification
1x	Zoom 1x · 1.5x · 2x		Hidden notes (fingerprint or PIN)
	Shoot (also with the volume key)		Personal notes / site notes
	Back to Home		Where the note is (move to)
	Latest photos / Gallery		Share · Send log

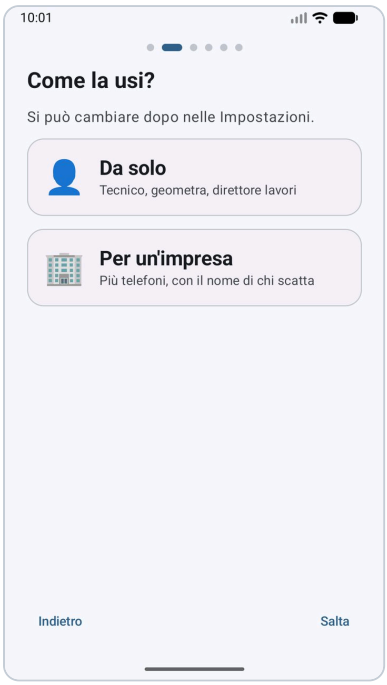
3.3 Types of note, photo and document

Types and states			
📝	Note	⚠️	Missing
🔧	Defect	❗	Problem
🛒	To order	📌	To remember
🖍️	Copy with drawings (_ann)	📄	Document (delivery note, invoice, voucher…)
⏳	"To complete" tag · document to read	🔐	Photo with fingerprint (evidence value)
🔎	Document OCR · document read	✅	Document checked
✓	Material checked (OK)	📊	Document list in Excel

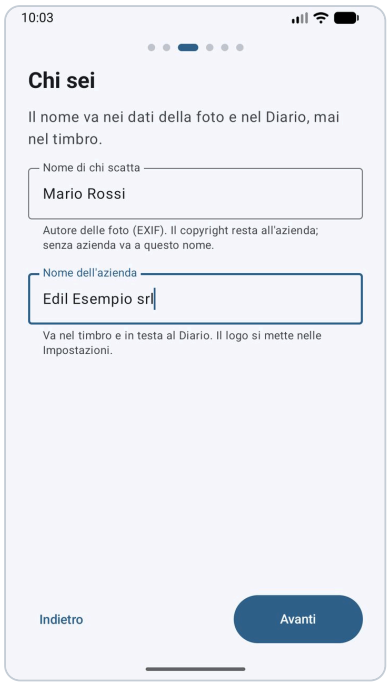
4 · First start

↑ contents

The first time, the app guides you through six pages. Every page can be skipped, except the camera permission, and everything can be changed later in Settings.



On your own or for a company



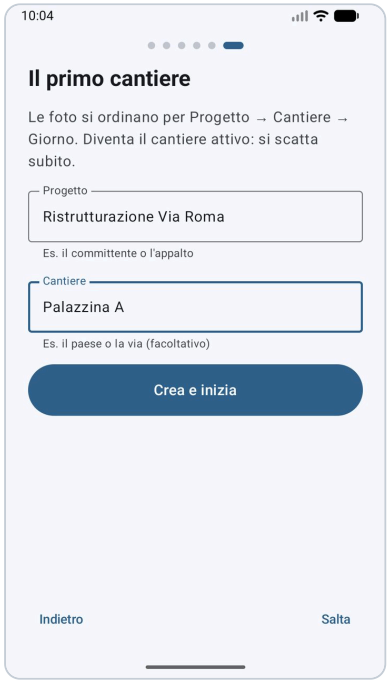
Who you are



Permissions, one at a time



Where to save and Google Drive

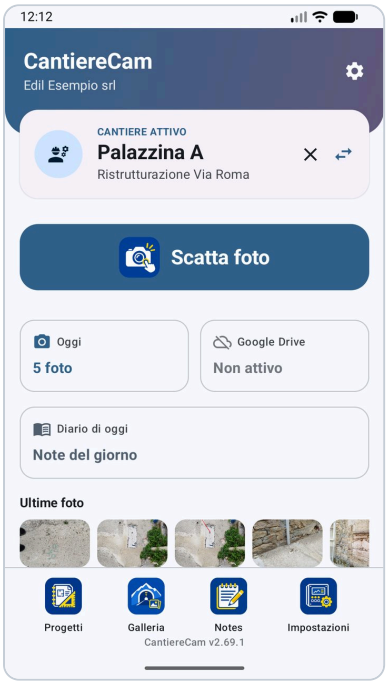


The first site

Page	What you choose
Welcome	What the app does, in four lines.
How you use it	**On your own** (engineer, surveyor, works director) or **for a company** with several phones.
Who you are	Your name goes into the photo data and the Diary, *never into the stamp*. Then **who you work for**: the **type of activity** (🏗️ Construction company, 📐 Technical office, ⚡ Installations, 🛡️ Security, 🏢 Other, or your own with ＋ **Add activity**) and the **organisation name**, which goes into the stamp, at the top of the Diary and becomes the folder `CantiereCam/<name>` on the phone and on Drive.
Permissions	**Camera** (essential), **location** (coordinates and address in the stamp; without it the stamp does not have them), **photos** (Gallery), **notifications** (reminders). The microphone is asked the first time you dictate.
Where to save	Phone memory or **SD card**, if there is one; **Google Drive** now or later.
First site	Project (the client or the contract) and Site (the town or the street). It becomes the active site: you can shoot straight away.

5 · The Home screen

↑ contents



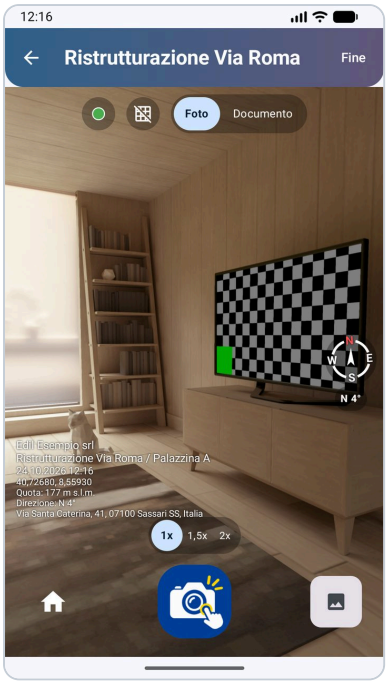
Home

It is the screen you see every time you open the app. Everything you need on site is one tap away.

- **At the top:** the name of the app and of your company; ❓ opens the guide, ⚙️ the Settings.
- **Active site:** the site where the next photos will go. ⇄ changes it, ✕ removes it.
- **Take photo:** opens the camera straight away on the active site.
- **Today:** how many photos you took today (documents are not counted).
- **Google Drive:** whether it is connected and whether files are waiting to upload.
- **Today's Diary:** opens the notes of the day for the active site.
- **Latest photos:** the last photos taken, one tap opens them. Documents do not appear here: they are on their own shelf in the Gallery.
- **At the bottom:** Projects · Gallery · Notes · 📄 Documents · Settings.

6 · Taking photos

↑ contents



Camera (test scene)

6.1 The stamp and the GPS light

- **Stamp** at the bottom left, visible even before the shot: company, project and site, date and time, coordinates, height above sea level, direction, address. What to show, or whether to use it at all, is chosen in Settings.
- **GPS light** (dot at the top left): wait for green to get precise coordinates.

6.2 Zoom, grid, flash, compass

- **Zoom** 1x · 1.5x · 2x, **grid** for aligning, **flash**.
- **Compass** on the right: the direction of the shot goes into the stamp and the photo data.
- Shoot with the button or with the **volume key**: handy with gloves.

6.3 After the shot

- You can immediately add **quick tags**, a note or a voice note 🎤.
- The photo goes into the day folder of the active site and, with Drive connected, onto your Drive.

> Tip: in Settings → Photo choose **1600 px**. Photos weigh about 500 kB instead of 4–5 MB, stay sharp for the Diary and the screen, and upload to Drive in a few seconds.

7 · Documents

↑ contents

Delivery notes, invoices, vouchers, receipts and the other site papers are **documents**: they are photographed or scanned from the same camera, but they live apart from the photos, sorted by type and by supplier.

7.1 Photo or document

- In the camera choose **Document** and the type: **Delivery note, Invoice, Voucher, Receipt, Waste form, General expenses, Work report, Generic document**.
- Documents **have no stamp** (the whole sheet stays readable) but they have date, position and fingerprint in their data.
- They do not appear among the photos: on Home, in the photo tabs of the Gallery and in today's count. You find them on the 📄 Documents shelf.

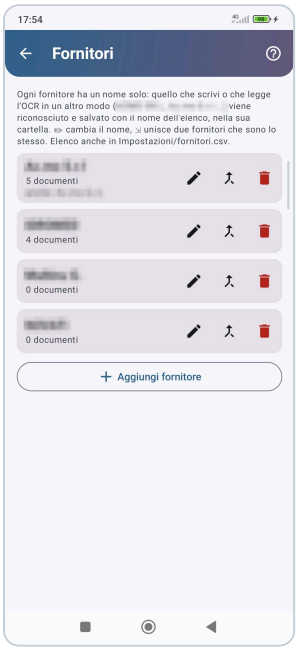
7.2 The scanner

- With the **scanner** the app finds the edges of the sheet by itself, straightens and crops it; you can do **several pages** in a row and you also get a **PDF**.
- Before confirming you can drag the corners if the edge found is not right, rotate the page and choose a filter (original, black and white).
- The pages of a scan stay together: in the Gallery and in OCR they are **a single document**.

> For a clean scan: sheet on a dark surface, all of it inside the frame, phone parallel to the sheet, no shadows of your hand. If the blue edge "wobbles", hold the phone still for a moment: it stops when it has found the sheet.

7.3 The supplier, always with the same name

- After the shot or the scan a panel comes up: tap a **supplier** already used (the last one comes first) or type a new one.
- The supplier decides the folder (`Documenti/DDT/Novati/2026_10_24/`), goes into the file name and into the "Supplier" column of the CSV. "No supplier" leaves the document in `Documenti/DDT/2026_10_24/`.
- 🏭 **One name per supplier:** the app keeps a **list of suppliers**. If you type, or OCR reads, a known name written differently (*EDIL ESEMPIO SRL*, *Edil Esempio s.r.l.*, *edilesempio*), it recognises it and saves the document with the name in the list (*Edil Esempio srl*), in its folder: no more three folders for the same company. While you type, "Will be saved as «…»" appears under the field.
- The list is managed in Advanced settings → 🏭 **Suppliers** (or from the 🏭 button in the OCR section): 🖍️ renames (the documents move to the new folder), ↘ merges two suppliers that are the same, 🗑️ **deletes** a supplier (its documents stay, without supplier, in the folder of their type), 🧹 **Sort now** puts back into the right folder the documents saved with different names (on Drive too). The list is also in `Impostazioni/fornitori.csv`.



Suppliers: one name and one folder per company

7.4 Number and date read at capture

- While the panel is open the app reads the first page (on the phone, even offline) and **suggests** the supplier: if it already knows it, its chip comes first, with 📄; if it is new you find it already typed in the field.
- It also suggests **Document / protocol No.** and **Date**. If it read them wrong you correct them, or you type them by hand. The number goes into the reference No., the date into the Note.
- ⚠️ **The document number:** OCR is still being developed and may get it wrong (sometimes it takes the order number or a code): **we suggest typing it by hand**. The warning under the field reminds you.
- If later OCR reads a different number, the document check suggests it with "**Use**".

7.5 Straightening a document



Straighten with 4 corners

If the sheet is crooked, photographed at an angle or badly cropped, open the document and tap ✂️ (in the open photo, or ✂️ **Straighten** in the OCR check).

- Drag the **4 circles** onto the corners of the sheet; while you drag, a magnifying **lens** with a red crosshair appears at the top to place them precisely.
- Choose the **format**: **Automatic** recognises by itself whether it is an **A4** (also A5 and A3, which have the same proportions) or a **Letter** and shows it next to it ("Automatic · A4"); **Free** keeps the measurements as they are.
- ↺ ↻ rotate the page by 90°; **Whole** puts the corners back on the edges of the photo.
- ✓ **Save** corrects the page: the starting photo stays in *Originali*, the fingerprint is recalculated, the document goes back to ⏳ to read for OCR (checks and notes are kept).

7.6 Document tags

Documents have **their own tags**, separate from those of site photos: only these are suggested on documents, never on photos.

Group	Starting tags
Payments	To pay · Paid · Down payment
Disputes	Disputed · Returned · Missing material
Check	To check · Checked · To sign
Accounting	To record · Recorded · To send to the office

- They are set from the open document (🏷️ Note, No. and tags) or on several documents together (long press in the Gallery, then 🏷️).
- On the 📄 Documents shelf the chips of the tags in use appear: one tap shows only those documents (for example all invoices **To pay**).
- They end up in the **Tag** column of the Excel list.
- They are changed in Advanced settings → Quick tags, in the 🏷️ **Document tags** section at the bottom, where new groups can be added too.

7.7 Where they are saved

In the site's `Documenti/` folder, by type, supplier and day, with the JPG of each page and the scanner PDF; next to them, the 📊 Excel list. The full layout is in chapter 20 · Where the files are.

7.8 Personal documents and PDF (like CamScanner)



After scanning: pick the name among the words read in the document, then the folder

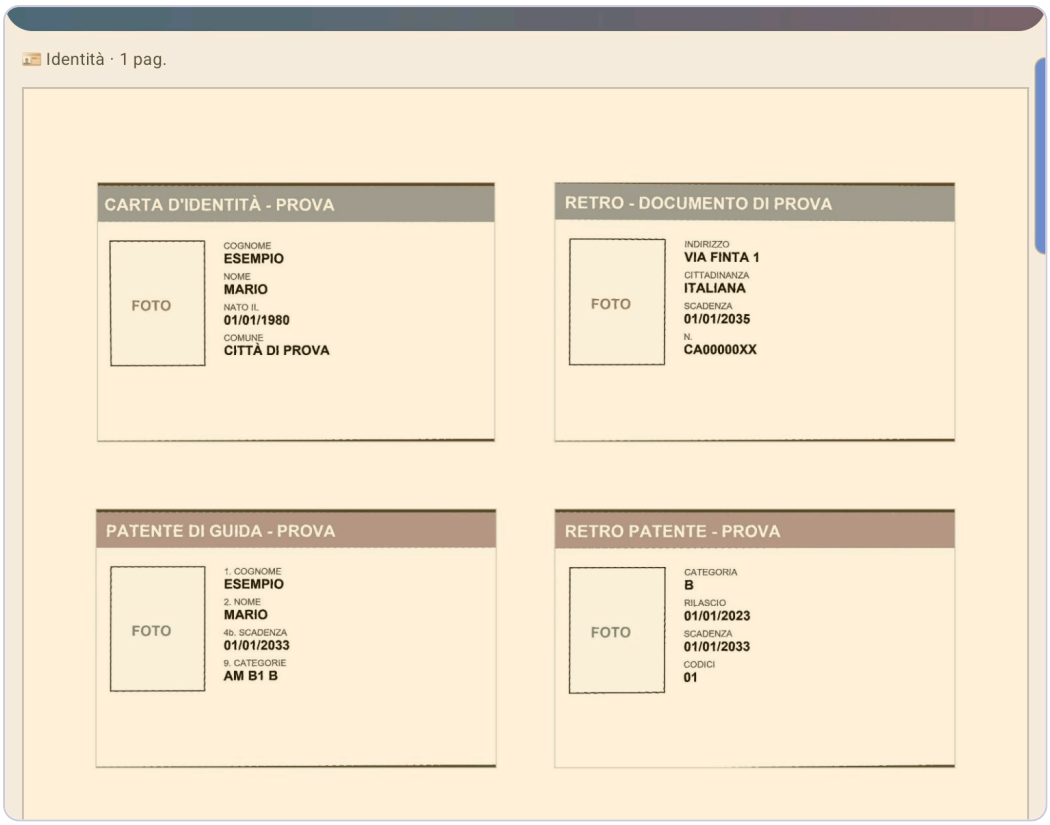
For a notarial deed, a contract, an ID card, a bill or a safety document you only want **as a PDF**, without site, Diary or supplier: 📄 **Documents** in the bottom bar of Home.

1. Tap 📄 **Scan**: the scanner finds the sheet, crops and straightens it (Enhance, Filters, Crop and rotate, Clean). Several pages one after the other, or 🖼️ from an existing photo.
2. CantiereCam **reads the text** (OCR, on the phone, offline) and suggests as the name the largest writing at the top, e.g. *Deed of sale*. Tap the suggestion or type the name.
3. Choose the **folder** and tap **Save PDF**.

In the open document	What it does
📩 Share	the PDF to WhatsApp, email, Drive…
🖨️ Print	with the printer connected to the phone, or "Save as PDF"
⋮ Open with… · Rename · Move · Copy the text · Delete	Copy the text puts everything the OCR read on the clipboard

- **Searchable PDF:** it looks like the scan but contains the text read: in the PDF you can search and copy words, and in 📄 Documents 🔍 finds a document by a word of its text (e.g. a surname or a plate), even without accents.
- **Folders, in the drop-down at the top, grouped by type:** 📜 Deeds and contracts (Notarial deeds, Contracts, Rent), 🪪 Identity (Identity card, Driving licence, Tax code card, Passport), 🏠 Home and bills (Electricity, Gas, Water, Waste, Condominium), 🚗 Car (Registration document, Insurance, Road tax, Vehicle inspection), 🩺 Health, 🏦 Bank and taxes, 🦺 Safety, 📁 Other. Choosing a type also shows the documents of its subfolders. ➕ **New folder** at the bottom of the list: a new type or a subfolder "Inside" a type. 🖍️ next to the drop-down, or long-press an entry, to rename it, change its emoji or delete it (documents of a subfolder go back to its type, those of a type to Other).
- **Where they are:** `CantiereCam/…/Documenti_personali/<folder>/`, one PDF per document, and on Drive (and the NAS) in the same folder. Turn it off from ⋮ → ☁️ **Copy to Drive**.
- Site **delivery notes and invoices** are still taken with the camera in Document mode (7.1); the OCR of their lines is in 📄 Documents → ⋮ → 🔎 OCR of delivery notes and invoices.

🪪 ID cards on one page

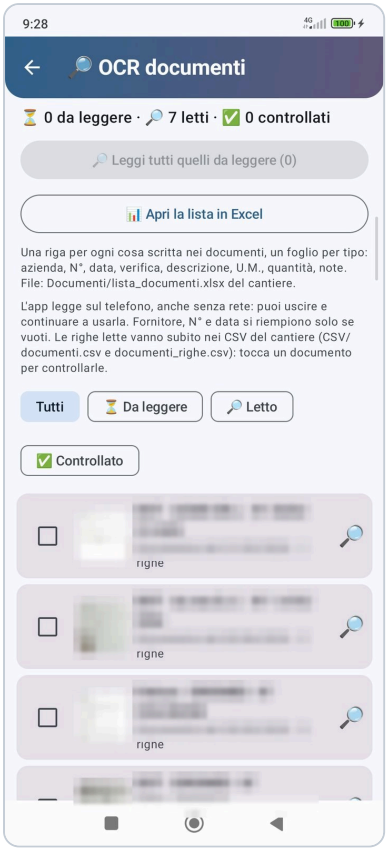


Identity card and driving licence (test ones) on an A4: front and back side by side, life-size

For a copy of identity card, driving licence, tax code card, DNI…: 🪪 **ID cards** (above 📄 Scan). Scan **front, back, front, back…** (also from existing photos): CantiereCam pairs them by itself (turn off "Front and back" if you only have fronts) and for each card you tap what it is. In the PDF the cards are **life-size** (85.6 × 54 mm), front on the left and back on the right, up to 4 per A4 page: printed, it looks like a photocopy from a copy shop. Name and folder are already suggested (e.g. *Identity card, Driving licence* in 🪪 Identity) and the text on the cards is searchable.

8 · Document OCR

↑ contents



The Document OCR section



Checking a document

8.1 What it is and what it reads

OCR (text recognition) turns the photo of a delivery note or an invoice into data: for each document **supplier, number and date**, and above all **one line for every item** written in the table: if the delivery note lists six items, there will be six lines, with **code, description, unit, quantity** and, on invoices, **price, discount and amount**.

- It reads **on the phone**, even offline: documents are not sent to any server.
- It finds the columns from the table headings (Code, Description, Unit, Quantity, Price, Amount…) and **straightens by itself** photos that are a little crooked or taken at an angle.
- It drops the lines that are not material: references to the order, to the tender code, to delivery notes, totals, signatures.
- It opens from 📄 **Documents** at the bottom of Home → ⋮ → 🔎 **OCR of delivery notes and invoices**, or from 🔎 at the top of the Documents shelf of the Gallery (there, for the site you are looking at).

8.2 Reading all or only some

- At the top the count: ⏳ **to read** · 🔎 **read** · ✅ **checked**.
- **Read all unread**: one tap and the app reads them one after the other, even a hundred; the bar shows how far it has got and how many lines it has found. Meanwhile you can leave and keep using the app.
- **By selection**: tick the documents you want and tap **Read selected**; or in the Gallery, long press on the documents and 🔎.
- The filters **All · To read · Read · Checked** show only the ones you are interested in.
- Supplier, No. and date are filled **only when empty**: what you wrote is never touched. ✅ checked documents are never read again by themselves.

8.3 Checking a document

- Tap a document: at the top the photo (tap to enlarge it), below **Supplier, Document No. and Date** to correct, and **Save**.
- "🔎 **OCR reads: … Use**" appears when the saved number or date differ from those read (for example if the order number was saved at capture): one tap on **Use** replaces them.
- Below, the **lines read**: one tap opens one to correct description, code, unit, quantity, prices; **+ Add line** for missing ones; Delete for wrong ones.
- 🔎 **Read again** redoes the OCR of the page (it asks first: manual corrections are lost, checks and notes are not). ✅ **Checked** closes the document.

8.4 Material check and notes

- Next to every line there is a box: ✓ **checked** means that the material has arrived and you have checked it. **All checked** ticks them all at once.
- In the open line there is also the **Note**: "to use in Elmas", "reed contact included", "collected and brought by…".
- Checks and notes end up in the **Check** and **Notes** columns of the Excel list and are kept even if the document is read again.

8.5 The Excel list

📊 **Open the Excel list** opens the site's `Documenti/lista_documenti.xlsx`: the list of supplies that used to be made by hand, always up to date.

Company	Document No.	Date	Check	Tag	Code	Material description	Unit	Quantity	Notes
Ferramenta Rossi	DT26-0003210	14/05/2026	OK	Paid	JNA28501080	GUARNIZ. G.T.SP4mm 080 PN10/16	PZ	105	to use in Elmas
Ferramenta Rossi	DT26-0003210	14/05/2026	OK	Paid	JNI3011023	INSET. KILL OFF ML 1000 RIC.	PZ	1	
Valvole Esempio srl	1.415/VEN	05/06/2026		To pay	FIG710AR/0200	CONTAT. IRR. PN16 C/REED DN 200	NR	14	reed contact included

- **One sheet per type** (Delivery notes, Invoices, Receipts…), **one line per item**; documents without lines read are there anyway, with an empty description, so nothing is missing from the list.
- Invoices also have **Price, Discount and Amount**; the **Tag** column has the document tags; empty columns disappear.
- Dates and quantities are **real dates and real numbers**: they can be sorted, filtered (the filters are already in the first row, which stays frozen) and summed.
- It updates by itself at every reading, correction or check, and it goes to Drive too.

8.6 The document CSVs

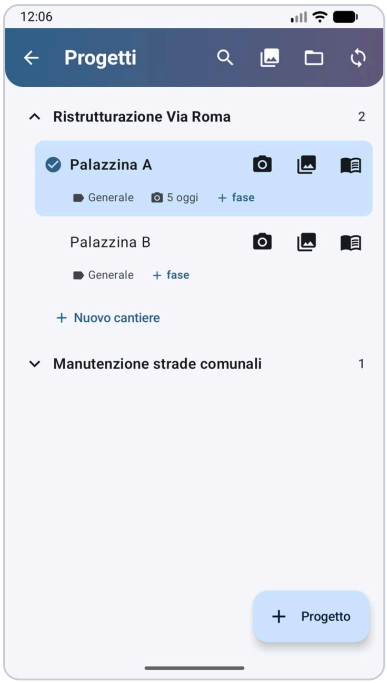
For those who use management software, the site's `CSV/` folder also has `documenti.csv` (one line per document: type, supplier, number, date, pages, lines, state) and `documenti_righe.csv` (one line per item, with check and note), with the IDs to link them.

8.7 For a good reading

Do this	Why
Use the **scanner** instead of a photo	The sheet comes out straight and cropped: OCR makes far fewer mistakes.
Flat sheet, even light, no shadows	Folds and shadows break the table rows.
One page per shot, **all of it inside**	If the table heading is missing the app cannot find the columns.
Check the first documents of a new supplier	Every supplier has its own table: after the first checks you know where to look.
Receipts	They often have no table: supplier, date and number are read, lines are added by hand if needed.

9 · Projects and sites

↑ contents



Projects as a tree

Work is organised in a tree: **Project** → **Site** → **Phase**. A project is usually the client or the contract; a site is a place (a town, a street, a building); the phase, optional, is a moment of the work (excavation, pours, finishes).

- **Tap the name** of a site to make it **active** (blue ✓).
- On every site: 📷 shoot there, 🖼️ its gallery, 📓 its diary.
- Under the name: the site **type** (decides which quick tags to suggest), how many photos today, ＋ **phase**.
- ＋ **New site** and ＋ **Project** to create new ones; long press to rename or delete.
- At the top: 🔍 search, Gallery, 📁 phone folder, 🔄 projects created on your other devices.

10 · Gallery and open photo

↑ contents



Site photos

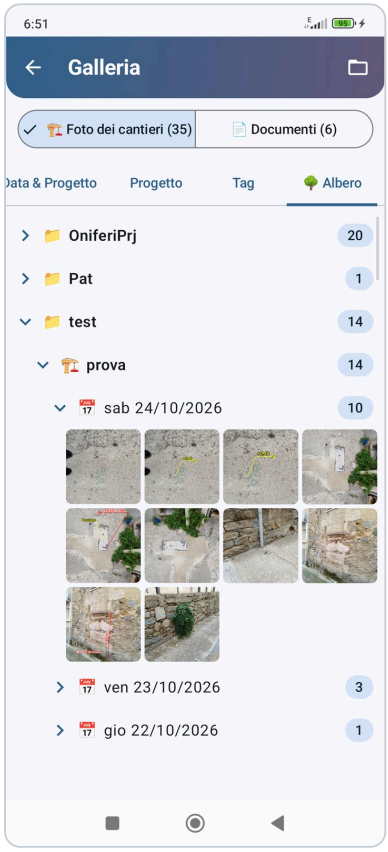
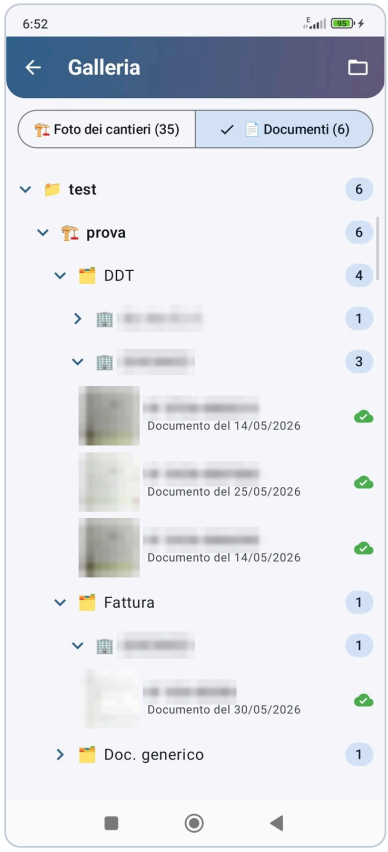


Photo tree



Document tree

10.1 Two shelves: photos and documents

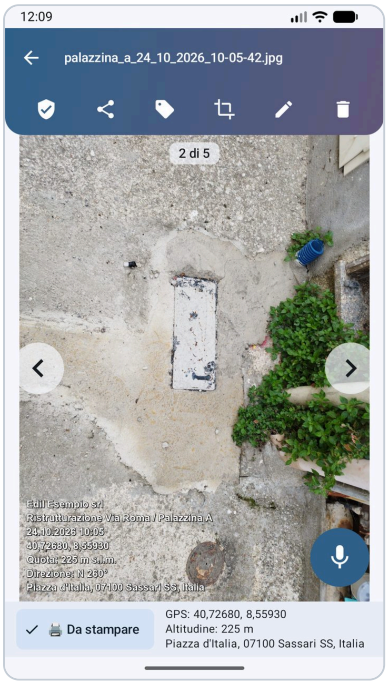
The Gallery is like a bookcase with two shelves: at the top choose 🏗️ **Site photos** or 📄 **Documents**, so photos and documents never get mixed.

10.2 Site photos and the tree

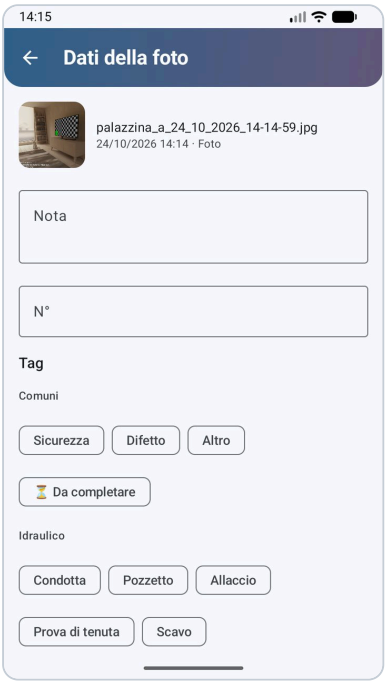
- Tabs **Date · Date and Project · Project · Tag · 🌳 Tree**, photos only. Long press to select several photos: tags to all of them together, share, delete.
- 🌳 **Tree:** the same photos in branches you open with taps: Project → Site → Day → thumbnails, with the number of photos at every level. Useful when there are many sites: go straight to the day you need.

10.3 The document tree

- A tree you open with taps, with the number of documents at every level: **Project** → **Site** → **Type** (Delivery note, Invoice, Receipt…) → **Supplier** → **documents**.
- Every document shows the thumbnail, the No., the date and how many pages it has; a multi-page scan is a single document. Tap to open it, long press to select (and 🔎 to read them with OCR).
- 🔎 at the top opens the site's Document OCR; the 🏷️ chips filter by document tags.



Open photo



Note, No. and tags

10.4 The open photo

- Two fingers to zoom, ◀️ ▶️ to move to the others of the day; "2 of 5" tells you where you are.
- **Top bar:** 🛡️ Verify · ↗ Share · 🏷️ Note and tags · ⌗ Crop · 🖍️ Draw · 🗑️ Delete.
- **Bottom bar:** 🖨️ **To print** (whether the photo goes into the Diary PDF), the GPS data, height and address, and 🗺️ **Map**, which opens the photo location in Google Maps (10.6).

10.5 Note, No. and tags

A free note, a reference number (for example the drawing number) and the **quick tags** of the site type: you tap them, nothing to type.

10.6 Photos on the map (Google Earth, QGIS)



The map is ready: four files in the site's Mappa folder, already queued for Drive

Photos have GPS, altitude and compass direction: CantiereCam puts them on a map that opens with everyday programs, without connecting to anything.

From	What
Diary → 🗺️ at the top	the whole site
Gallery → select photos → 🗺️	only the chosen photos (the file has the time in its name)
Open photo → 🗺️ Map	opens the point in Google Maps, no files

The files go to `Project/Site/Mappa/` and from there to Drive and the NAS:

File	Opens with	Contents
`.kmz`	Google Earth, Google My Maps	one arrow per photo, turned where the camera was looking, one folder per day; the balloon shows the **photo**, date, note and tags
`.geojson`	QGIS, ArcGIS, uMap	one point per photo with all the data; the `foto` field leads to the photo in the day folder
`.qml`	QGIS	the **style**: QGIS uses it automatically when opening the `.geojson` (rotated arrows, No. or time next to them, photo in the map tip and *Apri la foto* action)
`.csv`	QGIS, Excel	the same data with coordinates also in **UTM** and **Gauss-Boaga**

- One point per **shot**: if the photo has a copy with drawings, that one goes on the map (symbols included).
- Only **photos with GPS**; documents (delivery notes, invoices…) do not go on the map. The dialog says how many were left out.
- **In QGIS** drag the `.geojson` onto the map from the synced folder (Drive or NAS): the style comes by itself. To see the photo when hovering a point, turn on *map tips* (View → Show Map Tips). For the CSV: Layer → Add Layer → Delimited Text, separator `;`, X = `lon`, Y = `lat`, EPSG:4326 (or `utm_e`/`utm_n` EPSG:32632, `gb_e`/`gb_n` EPSG:3003).
- 📤 **Share** sends the files to WhatsApp, email or the PC; 🌍 **Open** opens the KMZ in Google Earth if it is on the phone.

- Column names are always in Italian without accents, whatever the app language: a QGIS style or filter works for every site.

11 · Photos as evidence

↑ contents



Verify: photo intact



Share: light copy or original

11.1 The fingerprint and the register

When the photo is taken the app calculates its **SHA-256 fingerprint**: a 64-character code that changes if even a single pixel changes. The fingerprint goes into a **chained register** (`registro_prove.csv`), where every line also contains the fingerprint of the previous line: removing or changing a line breaks the chain.

> Notes, tags and GPS data written afterwards do not change the fingerprint: it changes only if the image is modified.

11.2 Verify and share

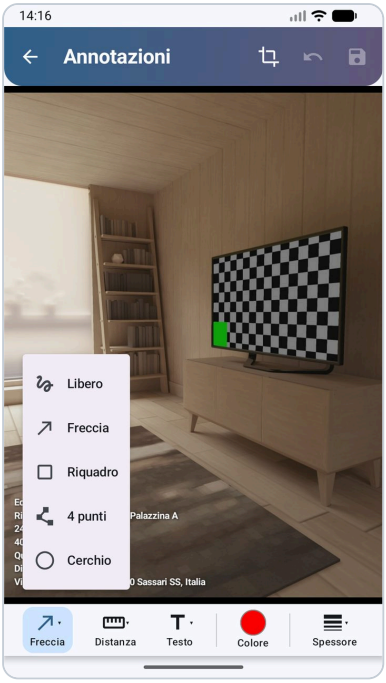
- 🛡️ **Verify** recalculates the fingerprint and says whether the photo is **intact**, **modified** or **without fingerprint**, with its register line.
- Copies with drawings or cropped copies have their own fingerprint and line: the original remains the evidence.
- **Share** sends a **light copy** (1600 px, with the name and fingerprint of the original in its data) or the full-size **original**.
- In the Diary PDF you can add, on a separate page, the **Photos and fingerprints** table.

12 · Drawings and dimensions on photos

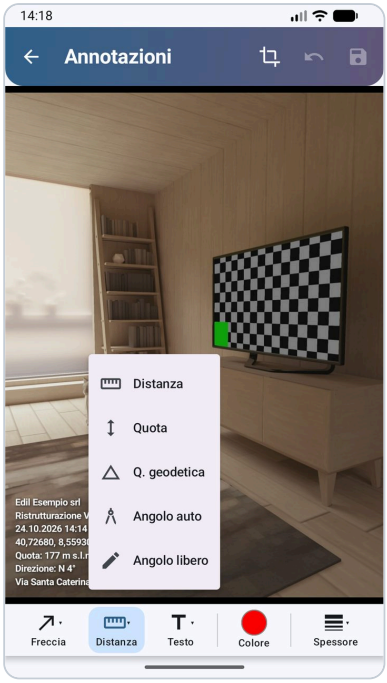
↑ contents



Arrow with label



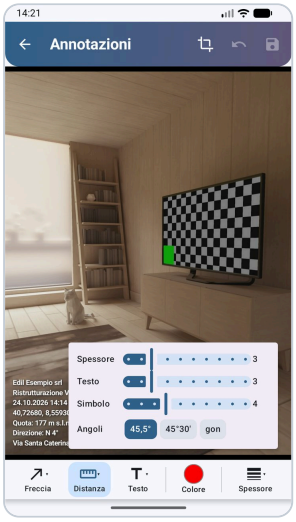
Drawing tools



Dimensions and angles



Colour



Thickness, text, symbol, angles



The copy with drawings

12.1 The tools

Group	Tools
✍ **Write**	Fast handwriting with finger or tablet pen, with the pen row: pen, highlighter, eraser, site lines.
Arrow ▾	Freehand, **Arrow** with label, Rectangle, 4 points, Circle/oval.
Distance ▾	**Distance** (architectural dimension), **Level** (height mark), **Survey level** (triangle with name and height), **Auto angle** (measures by itself), **Free angle**.
Text ▾	Free text on the photo.
Colour	Red, yellow, white, blue, black.
Thickness	Line thickness, size of text and symbol, angle units (45.5° · 45°30′ · gon).

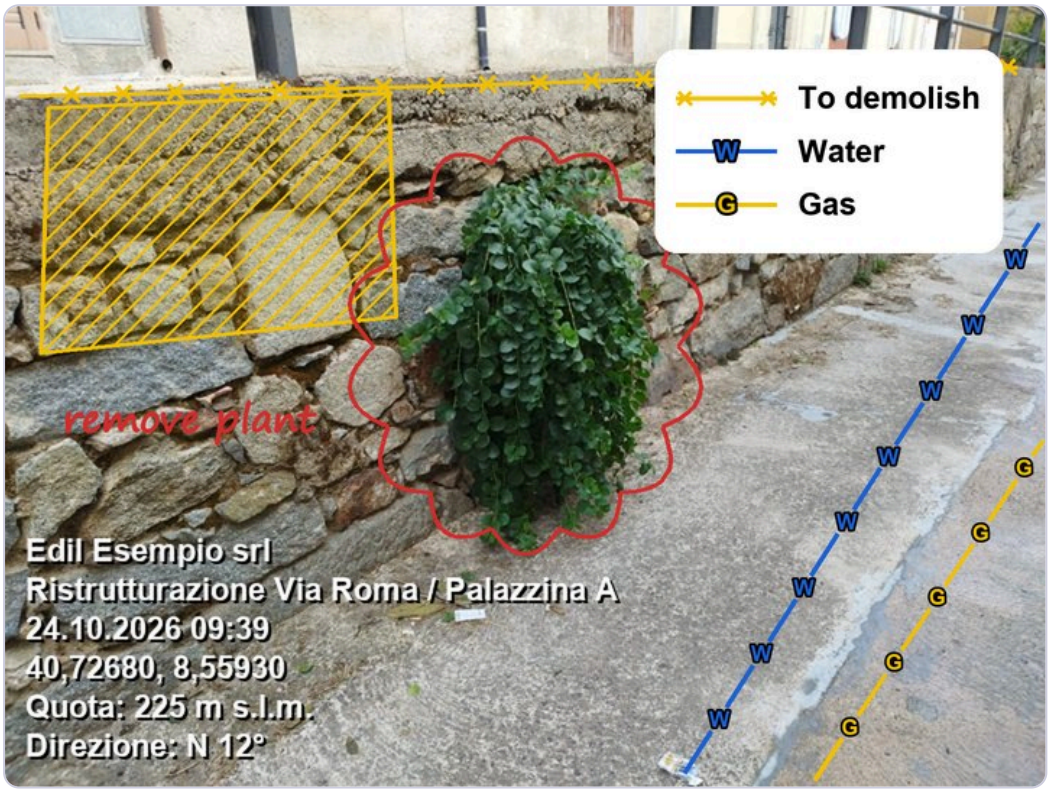
12.2 Labels and text

Drag the arrow from the point to show towards where you want the text, then tap the arrow and type. Long text **wraps by itself** and goes to the right, left, above or below depending on how you draw the arrow.

12.3 Editing and saving

- Tap a drawing to select it: move it, drag its points, delete it (🗑). ↶ undoes the last step, two fingers to zoom.
- 💾 **Save** creates a **copy** _ann in the *Disegni* folder: the original photo never changes. You can draw again on the copy (_ann_2…).

12.4 Write and site pens



Example: hatched area, to demolish, cloud, water and gas, automatic legend

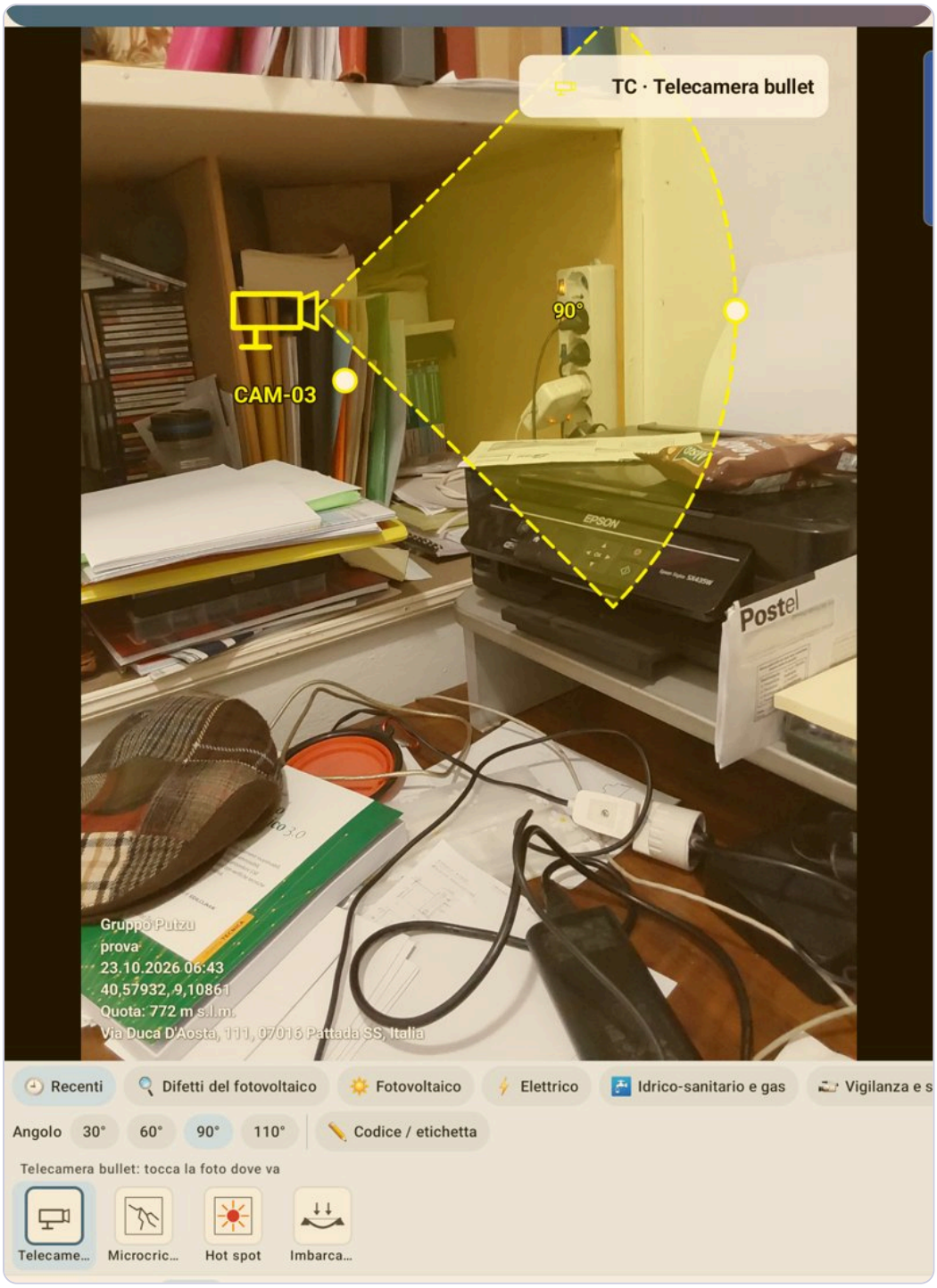
Tap ✍ **Write** (the first button of the bar) and write as on paper: the stroke starts at once, dots and accents stay, strokes made one after the other are **one word** and ↶ removes it all. With the tablet pen a resting palm does not write.

Pen row	What it does
🖊 **Pen**	Handwriting in the chosen colour.
🖍 **Highlighter**	Wide and transparent: going over it again does not make it darker.
🧽 **Eraser**	Go over a stroke and it disappears; ↶ brings it back. Also by holding the pen button.
〰 Lines ▾	Solid, dashed, dash-dot, ✕ to demolish, utilities **—W— water** (blue), **—G— gas** (yellow), **—S— sewer** (brown), **—E— electric** (red), **—T— telecom** (green), ☁ revision cloud, ▨ hatched area.
Fine · Medium · Bold	Three widths, one tap.

- **Straight line:** while drawing a line, hold your finger still for half a second: from then on the line is straight and follows your finger.

- 📑 **Legend:** if you use ✕ or utilities, the legend appears by itself in the corner opposite the stamp (also in the saved copy). Turn it off from Lines ▾ → Legend on the photo.

12.5 Symbols



Camera with a 90° cone and its real code CAM-03; below, the symbol strip

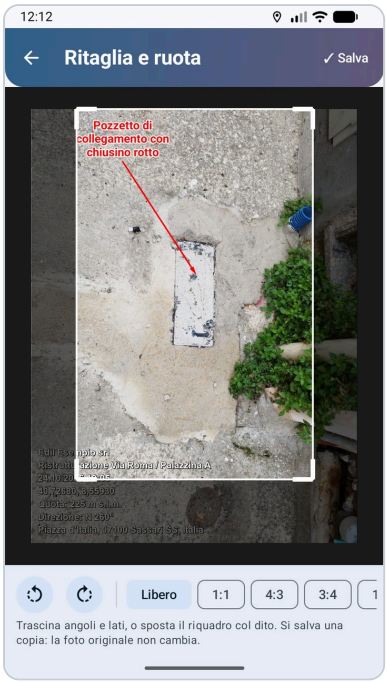
Tap 🔣 **Symbols** (next to ✍️ Write): a strip with 🕘 **Recent** and the packs appears above the bar. Tap a symbol, then tap the photo where it goes. The symbol takes the **pen colour** and is added to the 📑 **legend** by itself.

Pack	Symbols
🔍 **PV defects**	Hot spot, microcracks, broken cell or glass, bowing, delamination, snail trail, shading, faulty bypass diode. No standard symbols exist: these are CantiereCam's. They are **numbered** (HS1, HS2…) so you can quote them in the report.
☀️ **Photovoltaic**	Module, string, inverter, combiner box, DC disconnector, surge arrester, bidirectional meter, battery storage.
⚡ **Electrical**	Earth, sockets, switch, two-way switch, light point, distribution board, RCD, street light.
🚰 **Plumbing and gas**	Gate valve, ball valve, check valve, meter, manhole, service connection, washbasin, WC.
📹 **Security**	Bullet, dome and PTZ cameras, motion detector, magnetic contact, siren, control panel, access control, video intercom, NVR.
🚧 **Roads**	Pothole, alligator cracking, depression (numbered BU, FR, AV), road gully, manhole cover, kerb, cone, barrier, roadworks sign, traffic light, pedestrian crossing, guardrail, direction of traffic.
💧 **Water supply**	Leak (PE), water main, pillar and underground hydrants, air valve, washout, pressure reducing valve, valve chamber, reservoir, pump.
🕳️ **Sewerage**	Blockage (OS), sewer and flow, inspection manhole, gully, trap chamber, Imhoff tank, grease trap, pumping station, storm overflow, gradient, connection.
🧱 **Building**	Crack, damp, plaster detachment, exposed rebar (FS, UM, DI, FA), crack monitor, column, beam, door, window, load-bearing wall, new wall, stairs, section line.

- **Move, resize, rotate:** drag the symbol; the corner handle changes the size, the top one rotates it (it snaps near 0°, 45°, 90°…). When you place a symbol or **tap one already on the photo** (even with another tool active), for **every symbol**, the chips ↺ **15°** · ↻ **15°** · ↺ **90°** · ↻ **90°** · ↑ **Straight** turn it without hunting for the angle with your finger; the current rotation is shown next to them. The starting size is the *Symbol* slider under Thickness.
- 📹 **Cameras:** the **cone** shows what the camera sees. Drag the **tip of the cone** where the camera looks (it turns and stretches). Pick the angle with **30° · 60° · 90° · 110°** (PTZ up to 360°) or type e.g. `75°`.
- 🖍️ **Code / label:** available for **every symbol**: type any label (e.g. `QE-1`, `Inverter 2`) or the **real code** (e.g. `CAM-03`) instead of TC1; a plain number works too. Tapping the symbol again also opens it.
- **Packs on:** Advanced settings → 🔣 Symbols; packs switched off do not appear in the strip. The choice applies to all your devices.
- Photos with symbols can be attached to a report or a declaration of conformity; the official diagram is still the one signed by the installer.

13 · Crop and rotate

↑ contents



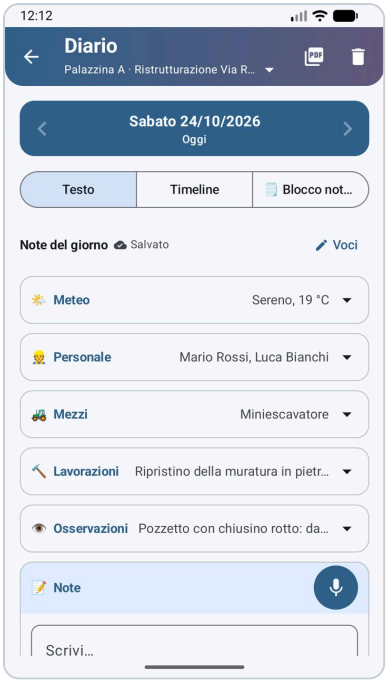
Frame to drag

To show only a detail, or to straighten a rotated photo. It opens from the open photo (⌗) or from the drawing editor.

- Drag the **corners** and **sides** of the white frame, or **move it** with your finger inside; while you drag the rule-of-thirds grid appears and the part that will be removed is darkened.
- ↺ ↻ rotate by 90°.
- Proportions **Free · 1:1 · 4:3 · 3:4 · 16:9**; **Whole** starts again.
- ✓ **Save** creates a `_rit` copy in the *Ritagli* folder: the original stays intact. If the copy without stamp is turned on, the crop starts from that and the **stamp is put back whole**, even if you cut away the corner where it was.
- From the drawing editor: after cropping you keep drawing **on the cropped copy**.

14 · Diary and works log

↑ contents



Notes of the day by entries



Timeline of the day



Site notepad

14.1 One Diary per site and day

There is **one Diary per site and per day**: ◀ ▶ change the day, the name at the top changes the site or opens the **summary** of all the sites of the day. It saves by itself and is also written as a **TXT** in the day folder.

14.2 Entries and hours

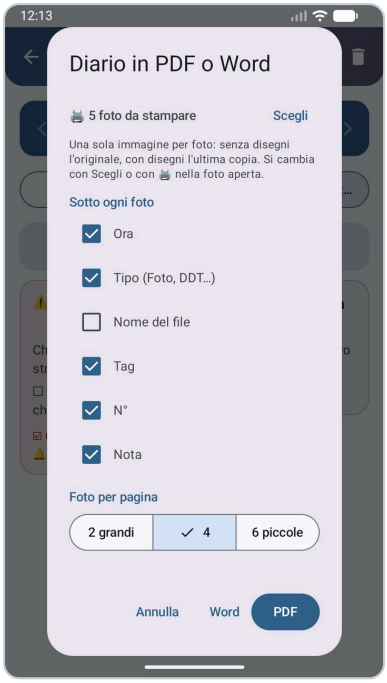
- Entries **Weather** (quick choices), **Staff** and **Machines** with hours (↺ Same as yesterday copies those of the day before), **Works**, **Remarks**, **Notes**. "Entries" adds or removes your own entries. 🎤 hold and dictate.
- Hours go into `giornale_ore.csv`, to open with Excel.

14.3 Timeline and notepad

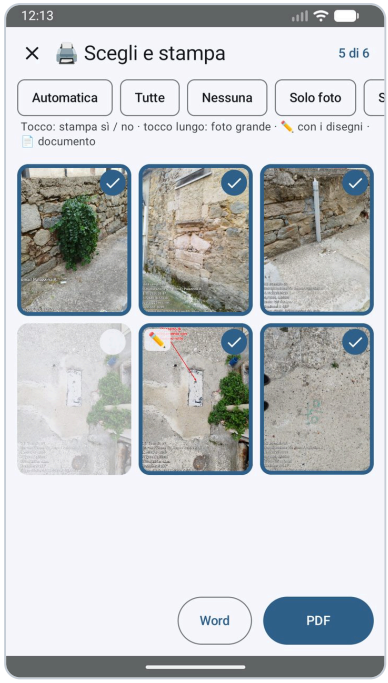
- **Timeline:** photos, documents, drawings and notes of the day in order of time, with the note of each photo.
- **Notepad:** the notes of that site, the same ones you find in Notes, grouped by date and with the same ☰ / ☐ button for list or card view.

15 · Diary PDF and Word

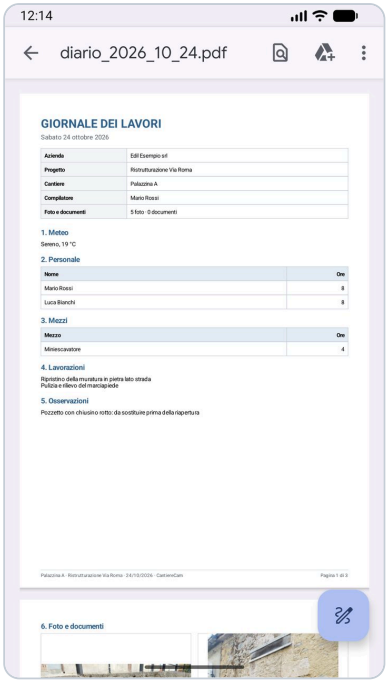
↑ contents



What to put in the PDF



Choose and print



The works log

15.1 What to put in the PDF

- Tap **PDF** at the top of the Diary. Choose what to write under each photo (time, type, file name, tags, No., note), how many photos per page (2 large, 4, 6 small), whether to add notes, signatures and the fingerprint table.
- **One image per photo:** without drawings the original goes in, with drawings or crops the latest copy; change it with in the open photo.

15.2 Choose and print

Choose opens the **Choose and print** grid: all the images of the day, one tap to add or remove, Automatic · All · None · Photos only · Documents only, then **Word** or **PDF** from there.

15.3 The works log

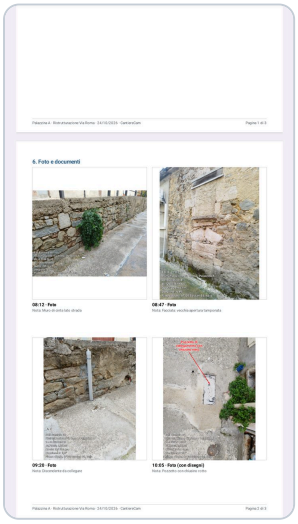
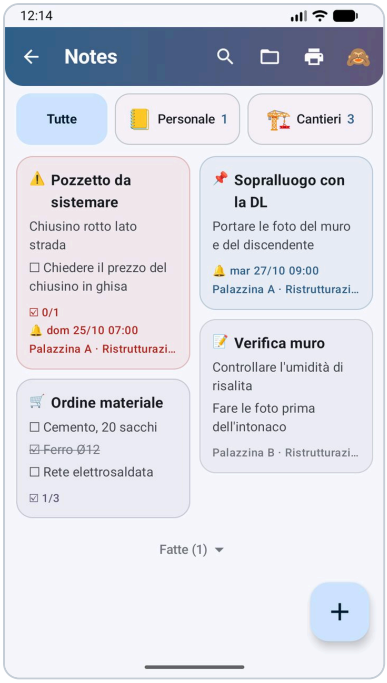


Photo page

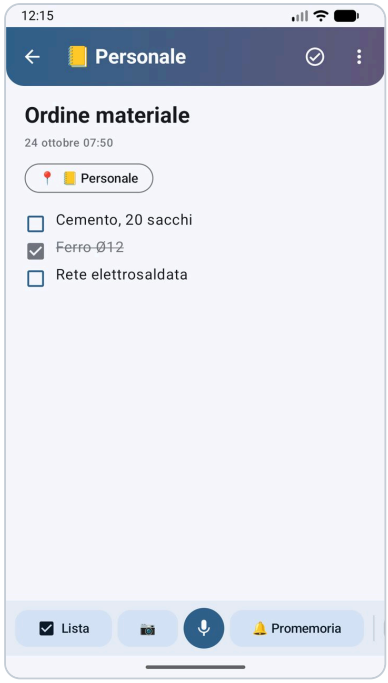
The result is in **works log** style: title, logo, table with company, project, site and author, numbered entries, hour tables, photos, signatures, "Page 1 of N". It opens straight away and goes to Drive too.

16 · Notes and reminders

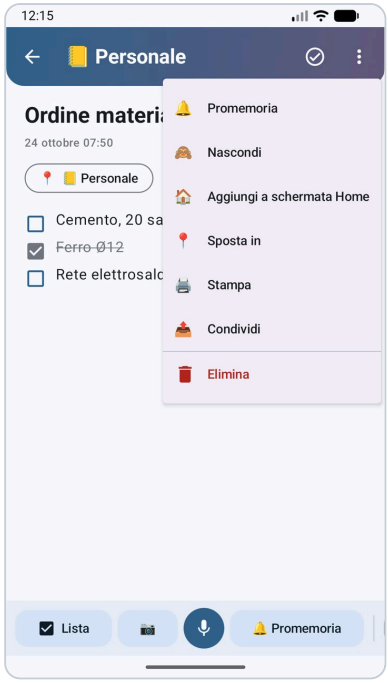
↑ contents



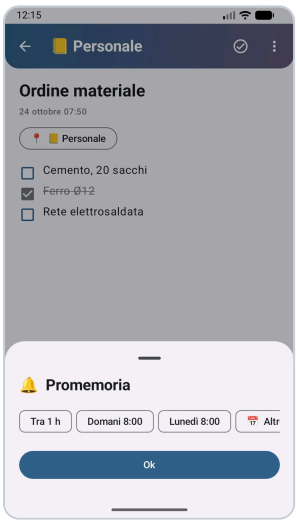
Notes as cards



A note with a list



The ⋮ menu



Reminder

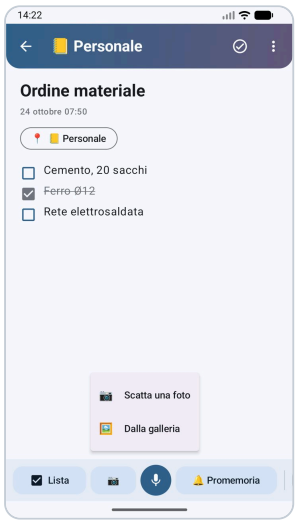


Photo in the note

16.1 Sections and cards

- At the top three sections: **All** · 🟨 **Personal** · 🏗️ **Sites** (in 🏗️ Sites the **site drop-down**: only the sites that have notes are shown, with the number; the others, to write a new note there, are under *Other sites*). Cards have the colour and icon of their type: 📝 note, ⚠️ missing, 🔧 defect, ❗ problem, 🛒 to order, 📌 to remember.
- At the top also 🔍 search, 🗂️ folder, 🖨️ print the whole section, 🙈 hidden notes (they open with the phone's fingerprint or PIN from anywhere in the app, and they don't appear in the Diary or in the CSVs; on Drive only the 🙈 mark goes, without title or text). They are hidden from view but **not encrypted**: keep that in mind for passwords or sensitive data.
- Notes to do are grouped **by date**: 🔔 Overdue and 🔔 Coming up (those with a reminder), then Today, Yesterday, This week, This month, Earlier (by last change). Done notes stay at the bottom, closed.

- 🎨 **Importance**: in an open note tap the palette at the top and choose ⚪ Normal, 🟢 Low, 🟡 Medium or 🔴 Urgent; the card (and the note) takes that colour. For several notes at once: long-press to select them and tap the palette. The colour also reaches your other devices with shared notes: **update CantiereCam on all of them** (if a device has a different version, the Home screen tells you).
- On the right under the sections ☰ / ❑ switches the view: **list** (one line per note, many more fit) or **cards**. The phone remembers your choice.

16.2 Inside a note

Title, text, ☐ / ☑ **lists**, 📷 photos (shoot, 🏗️ **from CantiereCam photos** — the note's site first, even several at once — or from the phone gallery, where CantiereCam photos are not shown), 🎤 dictation, 🔔 **reminder** with notification at the exact time (also 15 minutes, an hour or a day before, and repeated every day, week or month), 📍 to move it. It saves by itself. ✓ at the top marks it all as done.

16.3 Icons on lines

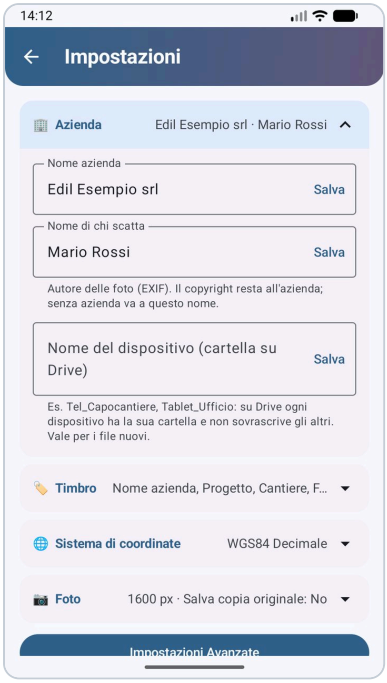
In the bar above the keyboard, ⚠️🔧❗🛒📌 are put on the line you are writing, like lists: so one note can hold different things (🔧 crack in the wall, ❗ leak, 🛒 cement). Going to a new line keeps the same icon; another tap on the icon, or Enter on an empty line, removes it. The first icon also gives the card its colour.

16.4 Menu and selection

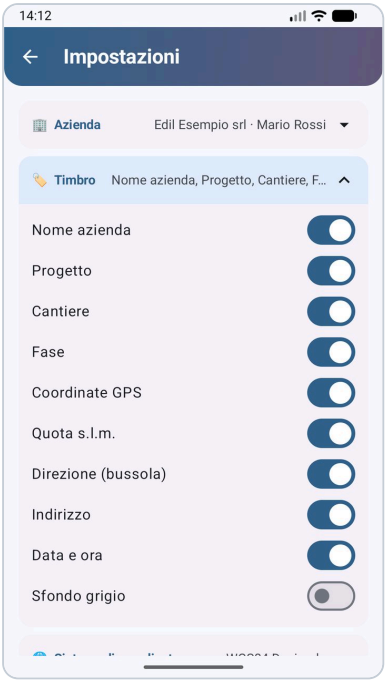
- ⋮ **menu:** Reminder, Hide, **Add to Home screen** (an icon that opens exactly that note), Move to, **Note type** (card colour), **Print** as PDF or Word, **Share**, Delete.
- 📩 **Share** asks how: 📝 **Text only** (title, 📍 site, lines and 🔔, works with every app), 🖼️ **Text and photos** (the text is also copied to the clipboard: Telegram drops it with several photos, long-press and paste) or 📄 **PDF** (one file with text and photos). With a long press in Notes you can also share several notes together.
- **Long press** on a card: select several notes and mark them done, hide, print or delete them together.
- Site notes also appear in the **Diary**, in the Notepad tab.

17 · Settings

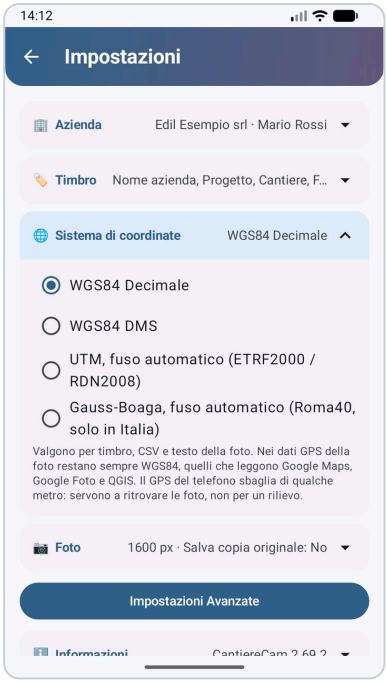
↑ contents



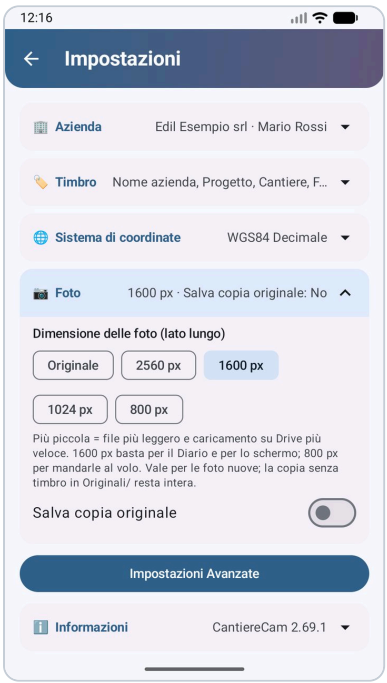
Company



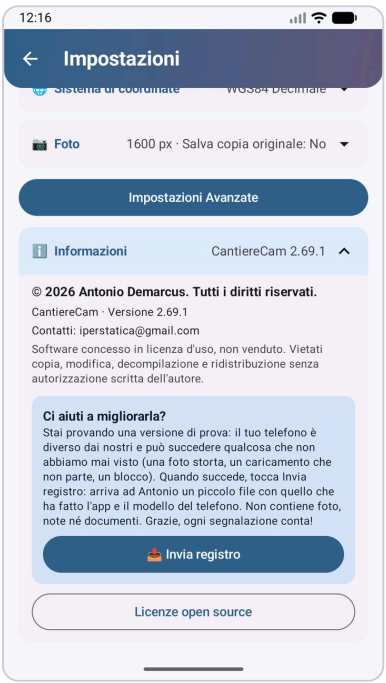
Stamp



Coordinate system



Photo



Information and Send log

Settings are organised in cards: one tap opens the card, next to the title there is a summary of what is chosen.

Card	What it contains
🏢 **Company**	🏢 **Organisation**: type of activity and name, with **Change** (see below); company name (stamp, Diary), **name of who takes the photos** (author of the photo in its data and in the Diary), **device name** (e.g. Tel_SiteManager: on Drive every device has its own folder).
🏷️ **Stamp**	**Stamp on the photo** on/off: when off, photos are saved clean (coordinates, date, CSV and fingerprint stay in the photo data). When on, what to write on the photo: company name, project, site, phase, coordinates, height a.s.l., direction, address, date and time, grey background.
🌐 **Coordinate system**	WGS84 decimal, WGS84 degrees-minutes-seconds, **UTM** or **Gauss-Boaga** with automatic zone. It applies to stamp, CSV and photo text; the GPS data always stays WGS84 (Google Maps, QGIS).
📷 **Photo**	**Size** (long side: original, 2560, 1600, 1024, 800 px) and **Save original copy** without stamp in the *Originali* folder.
ℹ️ **Information**	Copyright, version, contacts, 📖 **User guide**, open source licences and 📩 **Send log**, 📊 **Send anonymous usage statistics**.

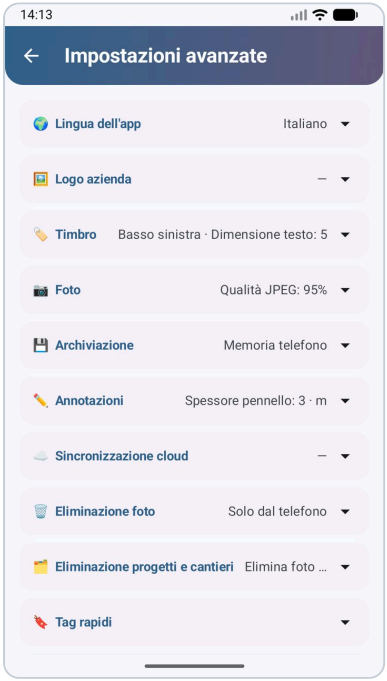
> 🏢 **Organisation:** photos, documents, notes and settings are in a folder with its name, `CantiereCam/Edil_Esempio/`, on the phone and on Google Drive (where each device has its own folder inside). If you change it, or choose it after already using the app, files are moved once: on the phone straight away, on Drive as soon as there is a connection, without uploading them again. **Types of activity** work like tags: add your own to the five starting ones (icon, name, what you do) with ＋ Add activity; a long press removes the ones you added. Those who already had the app are asked once on Home ("Later" postpones it).

> 📩 **Send log:** if something goes wrong (a rotated photo, an upload that does not start, a freeze), this button prepares a small file with the phone model, the Android version, the permissions and what the app did, and lets you send it by WhatsApp or email. **It contains no photos, notes or documents.**

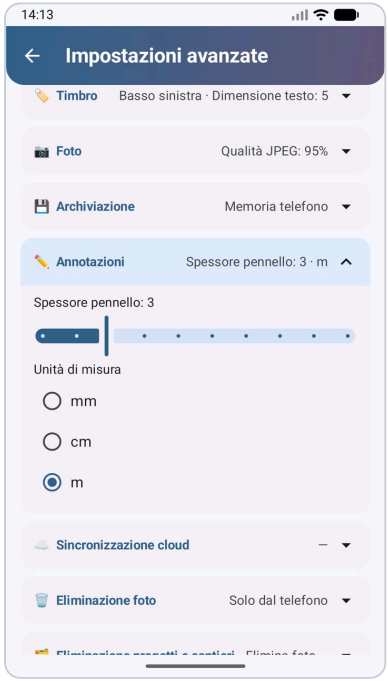
> 📊 **Usage statistics** (from 2.86.0): the app anonymously sends how many people use it, the version and the phone model, to see where to improve it; turn them off with the switch. App **errors** are always reported automatically, so they get fixed even if you do not send the log. **Never photos, sites, names or location.**

18 · Advanced settings

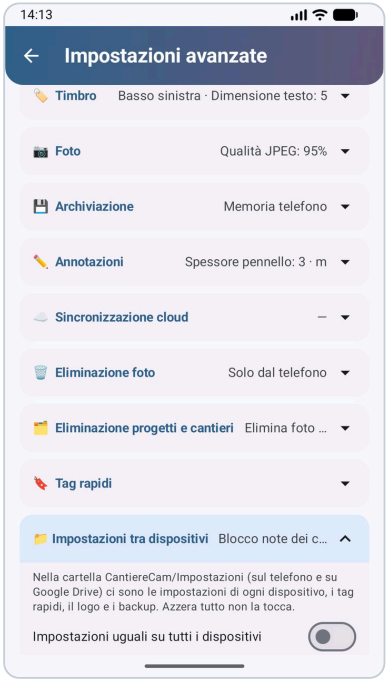
↑ contents



The advanced cards



Annotations



Settings across devices

Card	What it contains
🌍 **App language**	Italian, English, Spanish or the phone's language. It also applies to stamp, Diary, PDF, Word, Excel, CSV and this guide.
🖼️ **Company logo**	The logo shown at the top of the Diary PDF and Word.
🏷️ **Stamp**	Position (corner) and text size of the stamp.
📷 **Photo**	JPEG quality.
💾 **Storage**	Phone memory or SD card.
🖍️ **Annotations**	Starting brush thickness and unit of measure for dimensions (mm, cm, m).
☁️ **Cloud sync**	Google Drive on or off, choice of account.
🗑️ **Photo deletion**	Only from the phone, from phone and Drive, or ask every time. The lines stay in the CSV as a register.
🗂️ **Project and site deletion**	What to do with the photos when a site is deleted, and whether to remove the folder on Drive too.
📌 **Quick tags**	Tag groups by site type: add, rename, move them. At the bottom, separately, the document tags.
📁 **Settings across devices**	Same settings and logo on all your phones and tablets, single tag list, shared notes (site and personal), backup and restore.
⚠️ **Reset everything**	To start from scratch: deletes projects, photos and data of the device (on Drive too, into the bin), keeps the tags; makes a backup first. Confirm by typing the word shown.

19 · Google Drive and other devices

↑ contents

- With Drive connected, every photo, document, CSV, Excel list, Diary and note goes **by itself** to your Google Drive as soon as there is a connection, in the same folder structure as the phone. Without a connection it waits in the queue and leaves later.
- On Drive everything is in `CantiereCam/<Organisation>/`; inside, every device has its own folder (the **device name** in Settings): phone and tablet do not overwrite each other. The name is **required with Drive**: the app asks for it when Drive is connected and suggests `Tel_Mario` or `Tablet_…`; give every phone and tablet a different name, even if they use the same email. `Impostazioni/` is shared by all the devices of the organisation.
- 🔄 **in Projects** brings to the other devices the projects and sites created elsewhere, with the count of their photos.
- **Notes** are shared between devices: a note ticked on the phone is done on the tablet too, and the notification arrives on all of them.
- ⬇️ **Restore from Drive** (new phone or app reinstalled): on the first start with Drive connected the app asks "Archive found on Drive: restore it?" (also from Advanced settings → ☁️). Choose which device, whether the new phone continues with its name, what to restore (projects, sites, days, with tick boxes and MB), where to save (📱 phone or 💾 SD card with the free space) and Wi-Fi only. Projects, sites and photos appear straight away; the files arrive in the background, 3 at a time, newest days first (⏳ until they arrive), with ⏸ Pause in the Home card. Nothing changes on Drive; if you say no, everything stays there.
- 🙈 **Encrypted backup of hidden notes** (Advanced settings → Settings across devices): with a password you choose, hidden notes go to Drive in an encrypted file (AES-256) that nobody can read without the password. When restoring, the password is asked and they come back hidden. **If you forget the password, the notes can no longer be recovered.**
- From Drive, with **Synology Cloud Sync** or similar, everything can also end up on the office NAS.

20 · Where the files are

↑ contents

Everything stays yours: in the **Documents/CantiereCam/<Organisation>** folder of the phone (or of the SD card) and, if you connect Drive, the same on your Google Drive. Folder names are those used by the app.

```
CantiereCam/Edil_Esempio/            ← organisation
├─ Ristrutturazione Via Roma/         ← project
│  └─ Palazzina A/                    ← site
│     ├─ 2026_10_24/                  ← day: photos and descrizione.csv
│     │  ├─ Disegni/    copies with drawings (_ann)
│     │  ├─ Ritagli/    cropped copies (_rit)
│     │  ├─ Vocali/     voice notes and transcripts
│     │  ├─ Diario/     diary of the day (TXT, PDF, Word)
│     │  └─ Originali/  copies without stamp (phone only)
│     ├─ Documenti/                   ← documents (no stamp)
│     │  ├─ DDT/Novati/2026_10_24/    type → supplier → day (JPG and PDF)
│     │  └─ lista_documenti.xlsx      📊 one line for every item in the documents
│     ├─ CSV/          giornale_ore.csv, registro_prove.csv, documenti*.csv
│     └─ Notes/        blocco_note.csv, Foto/, Stampe/
├─ Notes/Personali/                  ← your personal notes
├─ Riassunti/                        ← diaries of all sites
├─ Impostazioni/                     ← settings and tags as CSV
└─ registro_cantieri.csv
```

From Gallery, Notes and Projects, the 📁 icon opens this folder with the phone's Files app. CSVs open with Excel (semicolon separator) and all have an **ID** to link them together.

21 · Frequently asked questions

↑ contents

Question	Answer
I changed phone (or reinstalled the app): how do I get my photos and sites back?	Install CantiereCam, connect Drive with the **same account** as before and the same organisation: the app offers ⬇️ Restore from Drive (chapter 19). Only what was already on Drive comes back; hidden notes only with their encrypted backup and the password.
The stamp has no coordinates.	The location permission is missing, or the GPS had not found the position yet (light not green). Indoors, wait a few seconds near a window.
Photos do not go to Drive.	Check the Google Drive card on Home; without a connection they wait in the queue. Some phones' battery saver stops uploads: remove CantiereCam from battery optimisation.
I drew on a photo: is the original lost?	No, never. Drawings and crops are always copies (_ann, _rit); the original keeps its fingerprint.
OCR did not find the lines of a delivery note.	Check that the table heading is in the photo; redo it with the scanner and tap 🔎 Read again, or add the lines by hand. If it happens with all the delivery notes of a supplier, send me the 📩 **log**: the app keeps track of readings to improve it.
There are several folders for the same company (EDIL ESEMPIO, Edil Esempio…).	Advanced settings → 🏭 Suppliers → 🧹 **Sort now**; if they are two different entries in the list, ↘ merge them first.
The document No. is wrong.	Correct it in the document check, or tap **Use** if OCR suggests the right one.
I must update the app: do I uninstall?	**No.** Install the new version over it: uninstalling loses the database and Android no longer lets the app rewrite the files it created before.
The reminder does not ring.	Check the notifications permission and, on Android 12 and later, "Alarms and reminders" for the exact time.
Something does not work.	Settings → Information → 📩 **Send log**.
How do I update the app?	The Play Store does it by itself, usually at night on Wi-Fi. From 2.86.1, when a new version is out, ⬇️ **Update** appears on the home screen: it downloads while you work, then **Restart**. Photos and data stay.

22 · Ideas for the future

↑ contents

CantiereCam grows with those who use it. These are the ideas already planned or being evaluated; the order will depend a lot on what the engineers trying it say.

Idea	What it is for
📩 **Faster sharing**	Send the chosen photos directly by WhatsApp, by email with the recipient from contacts, or as a Google Drive link; quick selection of the photos of the day.
✅ **Defect list**	Defect, photo, responsible company and resolution tick; PDF of defects per company to send in one tap.
🗺️ **Photos on the map**	See where photos were taken on Google Maps or QGIS (KML, GeoJSON).
🏢 **Business accounts and roles**	The company's Google Workspace; roles owner, site manager, worker, office, each with the functions they need.
📊 **CSV for management software**	Staff and machine hours and materials per job, in a fixed format to import into management software or give to the accountant.
📈 **Work progress**	Progress per work item with photo evidence, in the Diary and in a summary per site.
📋 **Document deadlines**	Training, fitness for work, contribution certificates...: reminders before expiry, with the photo of the document.
🔐 **Certified time stamp**	Certain date of photos with a recognised service, for disputes and litigation.
🌍 **More languages**	Beyond Italian, English and Spanish.

23 · Conclusions and thanks

↑ contents

CantiereCam was born on site, between an excavation and a pour, from the need to stop wasting time with photos and start really using them. It is still young: every real working day shows something to improve, and this version is the result of many of these small discoveries.

That is why the contribution of those who try it is precious. Every report, even the smallest, a rotated photo, a button that is not clear, a missing function, makes the app better for everyone. If something goes wrong, use 📩 **Send log**; if you have an idea, write it down: many of the functions in this guide were born that way.

Thank you

Sincere thanks to the **engineers**, **surveyors**, **works directors** and **site managers** who give their time to try CantiereCam on their own phones and on their own sites; to the **colleagues** and **workers** who patiently acted as a test bench; and to all the people who, with advice, criticism or a question, help improve it.

Without you this app would only be an idea. With you it becomes a working tool.

Antonio Demarcus
cantierecam.app@gmail.com