Your security cameras already watch every room. Now they keep the crop's photo record.

GCU Cloud takes one photo a day from the cameras you already own, files it on the crop growing in that room, and has AI read it next to the room's climate and grow program. Nobody has to walk the rooms with a phone, and you can see every room from any phone or computer.





Day 10 Veg **Day 14** Veg **Day 18** Flower **Day 22** Flower **Day 27** Flower **Day 32** Flower

One room, one camera, 23 days. Real frames from the front camera of a production grow room, one a day at the same point in the light cycle, so day 10 can be compared with day 32. Each frame is cropped to the canopy, the same way every day.

How it works

1

Connect the site

Your site's router opens an encrypted tunnel out to GCU Cloud. Only the recorder's video and web ports are reachable through it. We set this up and read your recorder's camera list.

2

Match cameras to rooms

On the Cameras page your site admins match each camera to its room and view, with a room suggested from the camera's name. A contact sheet shows one frame per camera to confirm them in one sitting.

3

One photo a day

Each camera is photographed in the middle of that room's lights-on period, taken from the GCU's grow program, so the picture is in full color. Night-flipped rooms are handled the same way.

4

Filed and read

The photo lands on the room's Photos tab with the crop, stage and day, marked front or rear. AI writes notes under it and compares it with earlier photos from the same camera.

What you get

A photo record of every crop, with no labor

Front and rear view of each room, every day, from plants-in to harvest.

Photos that follow the crop

Each photo belongs to the crop that was in the room. After harvest the full set stays with that crop's history. Empty rooms and clone rooms are skipped.

AI notes that know the room

The AI sees the strain, the stage and day of the grow program and its targets, each day's temperature, humidity, CO_2 and VPD since the last photo, and any open findings on that GCU. It says what changed, and any cause it names must point to one of those readings.

An email when a camera stops delivering

A dark room, a covered lens, a camera offline or a recorder that stopped answering is emailed with the reason, room by room, through the same alerts you already use.

Bad pictures are never read as bad crops

Dark and night-vision frames are rejected and retried while the lights are on. Fogged or blocked views are flagged as a camera problem.

Your growers grade the AI

Every note takes a thumbs up or down from the grower. Phone close-ups still upload the same way and are read the same way.

What the AI wrote on day 18



AI NOTE · CROP DAY 18 · FRONT CAMERA

WHAT IT SEES

Canopy is filling in and generally upright, but several plants, especially front left and some mid-tray, show light droop and slight leaf curl that might warrant a closer look. No obvious acute damage or burn is visible from this angle.

SINCE THE LAST PHOTO

Slightly taller with more lateral branching, and a bit more leaf droop on some front and mid-row plants; canopy density and overall vigor look similar.

POSSIBLE CAUSE

The room has been running drier than the program's humidity targets, which can give a slightly stressed look.

`Humidity: min 49%, mean 62%, max 74%`

A real note, written by the same feature on our onsite GCU Manager. A cause is only shown when it points to a reading the AI was given, quoted as it was given.

Nothing changes on your camera system

- GCU Cloud only takes a still from the live video. No camera or recorder setting is touched, and recording is not affected.
- Nothing at your site is opened to the internet. The router dials out; nothing can dial in.
- The recorder password is stored encrypted and never shown again.
- If the recorder ever refuses the login, GCU Cloud stops trying and checks once an hour, so it can never lock the recorder out.

What room cameras can and cannot see

- **Seen well:** canopy fill and evenness, stage and bud development, color change over days, wilting, lens and aim problems.
- **Not from a ceiling camera:** pests, early mold, or which nutrient is short. Those need a phone close-up, which the same page takes.
- Every day's photo is kept. AI notes are written on every second day's photo per camera by default (adjustable), and on every photo your team takes.

What you need

- Nebula GCUs on GCU Cloud, with your rooms' grow programs on the units.
- A network video recorder. Uniview-based recorders, including ENS, are supported today; ask us about other brands.
- A Teltonika router on site with WireGuard, such as the RUT240. We configure it.
- A view-only login on the recorder.

Light on cellular data

- One short video read per camera per day: about 0.5 MB on a typical 1080p stream.
- About 14 MB per camera per month, so 20 cameras use under 300 MB a month.
- Higher-resolution streams use more, up to about 50 MB per camera per month.

Proven in production

105	55	4	Oct 2026
cameras photographed daily	veg and flower rooms covered	recorders, two buildings	running since, at a large indoor farm

The same daily-photo feature runs on our onsite GCU Manager. GCU Cloud brings it to every site we host, with the photos, AI notes and alerts in the app your team already uses.

See it on your own cameras.

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