

VIGI Remote Registration

Connect Every Remote Site to the Central NVR

Under your control, without the cloud. Bring VIGI cameras on other networks into the familiar VIGI NVR workflow for centralized management and recording. Footage stays on the recorder, with no separate cloud-storage subscription for this camera-to-NVR path.

Best-fit project signals

01

Existing wired site

The NVR belongs at another office, guard room, or protected location.

02

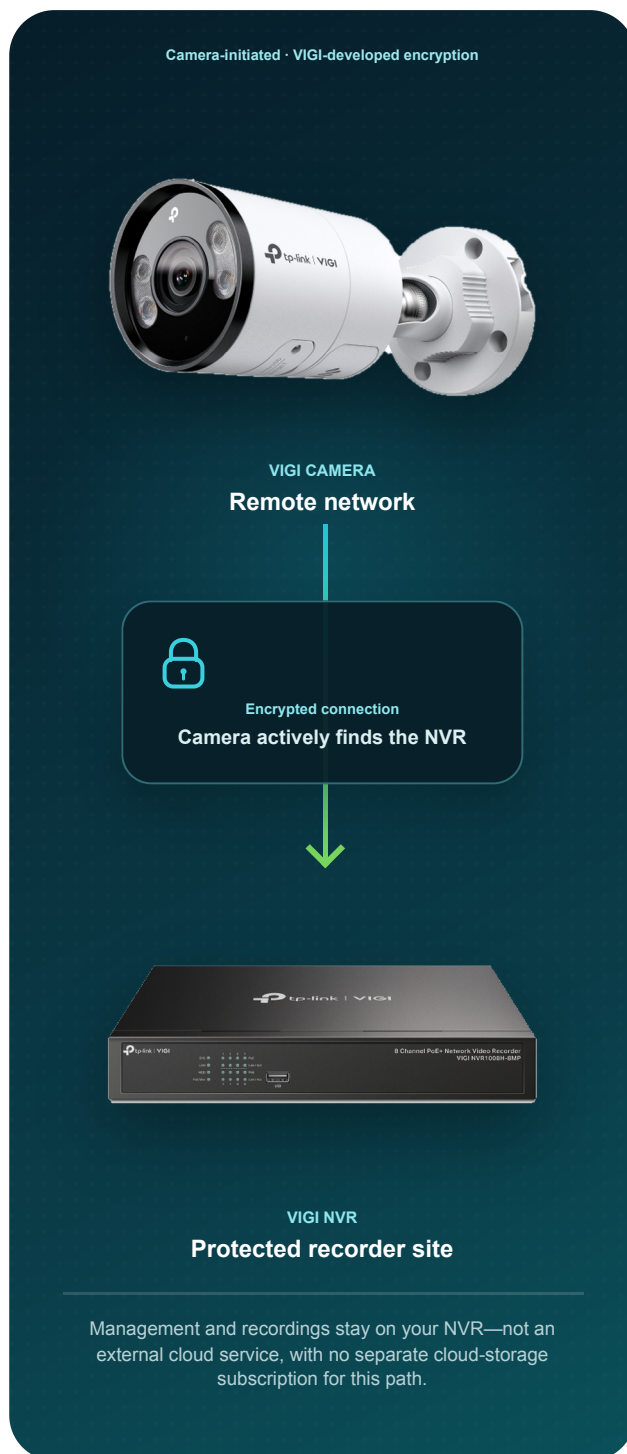
Temporary or unattended site

Keep received video if the field camera is lost, damaged, or removed.

03

Off-grid outdoor site

Combine optional solar, 4G, and multi-camera coverage around one workflow.



Familiar NVR workflow

Protected off-site recording

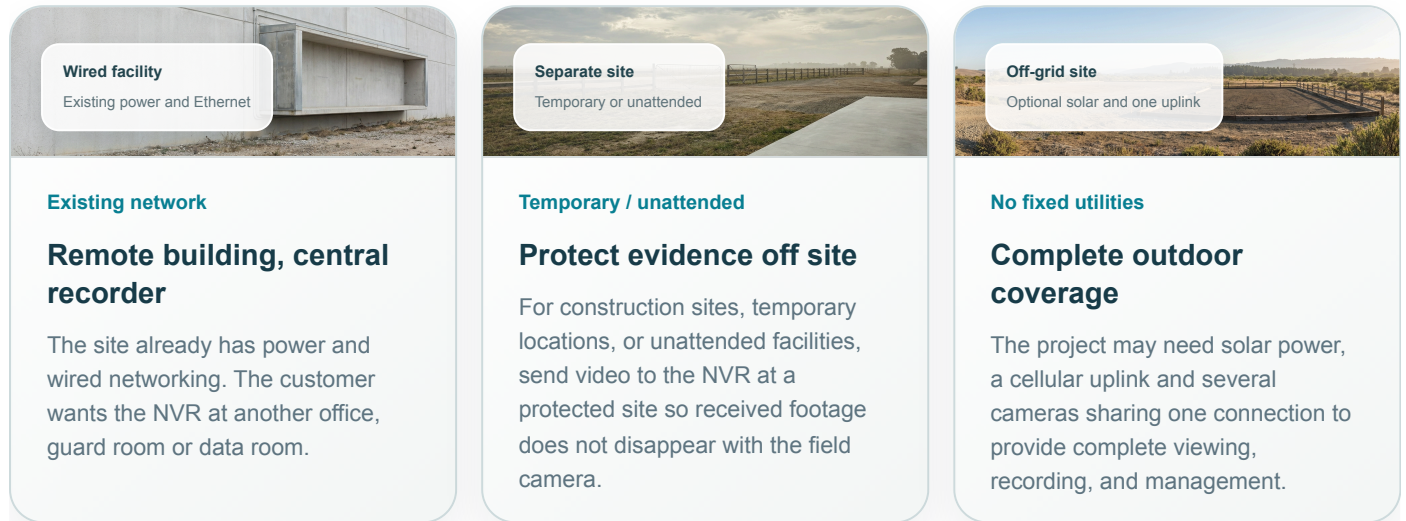
Encrypted camera-to-NVR path

One workflow across site types

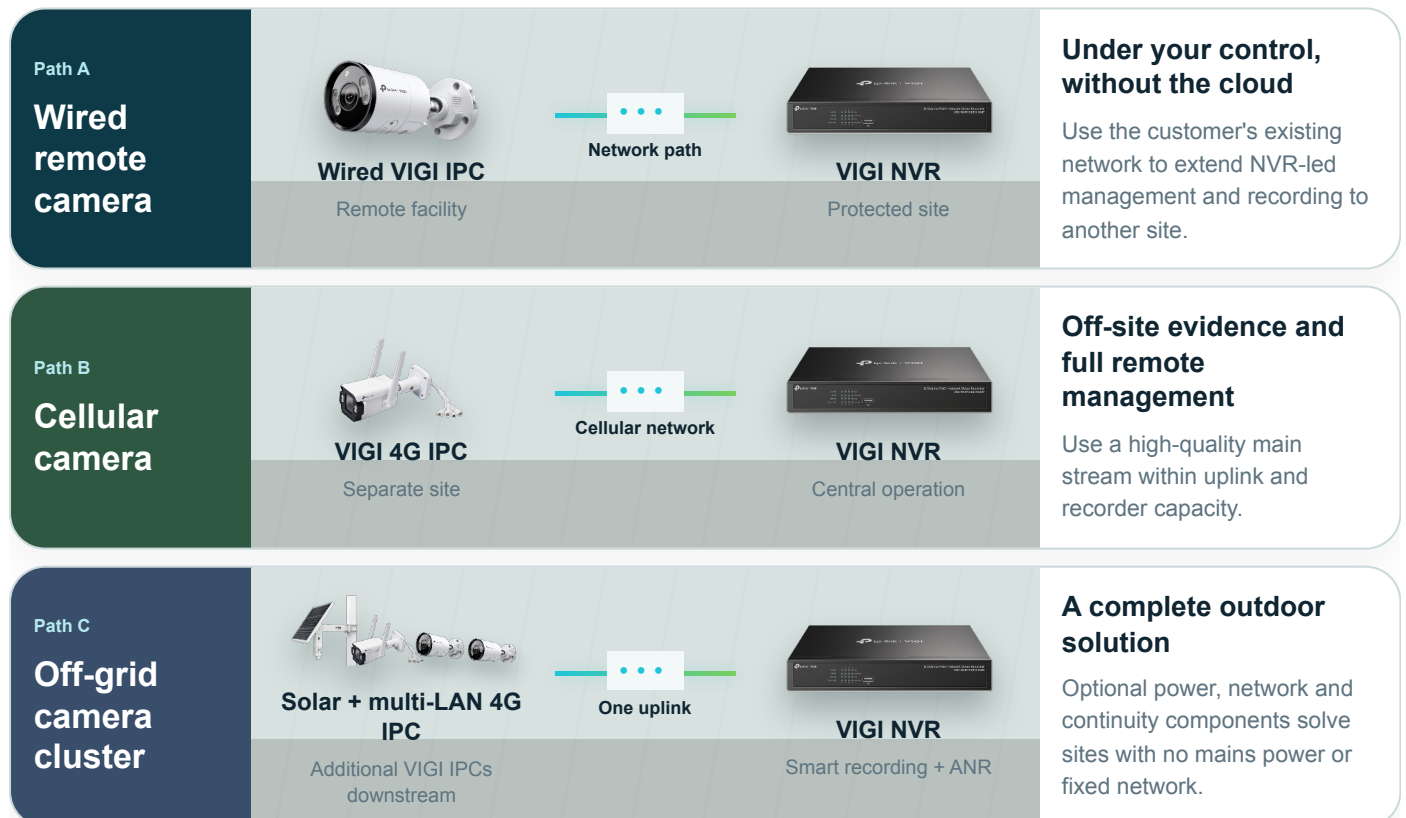
Network service between the camera and NVR is still required. Power and transport are selected to fit the site.

Start with the customer situation—not the product menu

These three situations are the clearest signals for Remote Registration. The power source and network type change; the business idea does not: VIGI cameras on remote networks join the same familiar NVR workflow.



Architecture at a glance



Remote Registration keeps recordings on the NVR instead of an external cloud service. Network availability between the camera and NVR is still required.

What fails in many standalone or cloud-first outdoor projects

Use real customer scenes, not feature names. The comparison below describes common architecture limitations; exact behavior varies by vendor, model and service plan.

	Common scene “I can see one camera, but not run the site.” The app offers one-device preview and playback. Cameras remain separate islands, with no familiar recorder workflow.	VIGI answer Manage the remote camera from the NVR VIGI remote cameras join one recorder for centralized viewing, playback and configuration.
	Common scene “The preview is smooth, but the evidence is weak.” A low-bandwidth preview or service-limited stream may trade frame rate and image quality for connectivity.	VIGI answer Send a professional main stream to the NVR Design sustained upstream bandwidth and recorder capacity around the quality the customer actually needs.
	Common scene “I can view it, but the app exposes only basic settings.” Standalone mobile workflows may not provide the configuration depth expected in a professional recorder-led system.	VIGI answer Use NVR-led management and settings Operate the remote channel from the same interface and process used for the customer's local VIGI cameras.
	Common scene “The camera was stolen—and the card went with it.” If the only recording is inside the field device, the customer may lose both the camera and the evidence.	VIGI answer Keep received video at a protected site Footage already sent to the NVR remains available even if the remote field camera is damaged or removed.
	Common scene “The network dropped for ten minutes, so the timeline has a hole.” Without local recording and replenishment, a temporary link failure becomes a permanent recording gap.	VIGI answer Use compatible ANR to close the gap The camera records locally during the outage; after the link returns, compatible ANR replenishes the NVR timeline.

Important: Do not present these limits as universal claims about every competitor. Present them as customer problems to test during discovery.

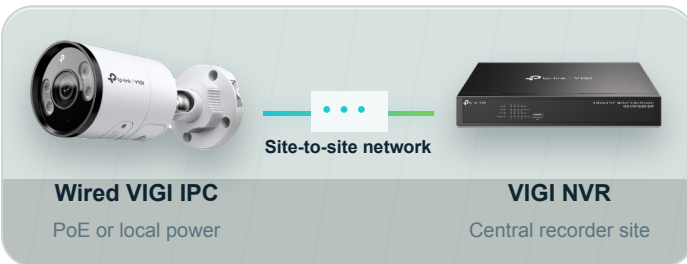
Choose one of three typical designs

Start with the role each device must play. Select final models only after checking regional availability, firmware, field of view, power budget and compatibility.

Topology A

Wired remote facility

Best when power and Ethernet already exist, but the recorder belongs at another site.



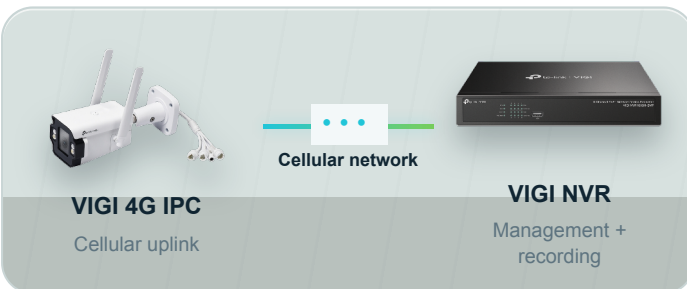
Recommended roles

- ✓ Outdoor bullet, turret or PT camera selected for the scene.
- ✓ Stable network service between the remote site and recorder.
- ✓ Recorder placed where staff, power and physical protection are stronger.

Topology B

Single cellular remote site

Best for gates, yards, temporary locations or assets without fixed broadband.



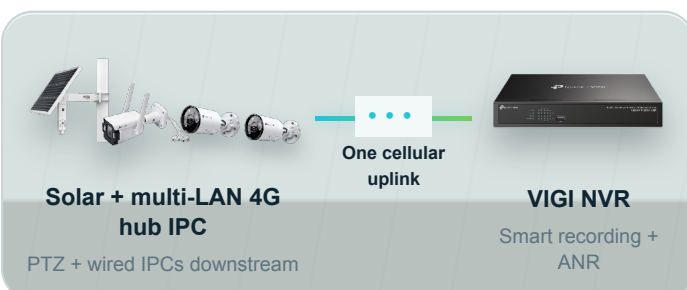
Recommended roles

- ✓ Cellular VIGI camera selected for the site.
- ✓ Camera storage when compatible ANR continuity is required.
- ✓ Uplink and NVR capacity sized for the chosen main stream.

Topology C

Off-grid multi-camera cluster

Best when the customer needs wider outdoor coverage without mains power or fixed networking.



Recommended roles

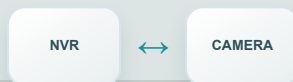
- ✓ InSight S345-4G as a three-LAN cellular hub camera.
- ✓ InSight PTZ5425 for wide-area, long-distance outdoor monitoring.
- ✓ Other wired VIGI cameras may be added to match the scene, field of view and channel plan.
- ✓ VIGI Solar Power Solution with compatible ANR-capable camera/NVR firmware.

Final design check: Confirm region, power draw, port use, firmware, camera storage and NVR channel capacity before quoting.

Compare the connection path—not just the word “remote”

Traditional direct method

The recorder reaches the camera



How it works

The recorder or client initiates the connection and must be able to reach the remote camera.

- The camera accepts an incoming connection
- Some remote networks do not support this path
- Each site may need separate network work

Cloud remote access

The service helps both sides meet



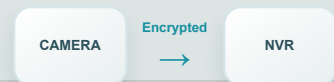
How it works

The camera and user connect through a vendor remote-access service, which may relay data or control.

- Usually easy to establish
- Data or control may be relayed by the service
- Subscriptions or service fees may apply

VIGI Remote Registration

The camera finds the recorder



How it works

VIGI-developed encryption lets the camera actively find and connect to the NVR for secure remote management.

- Camera initiates the connection
- Encrypted management and video transport
- Recordings stay on the NVR—not an external cloud service

Approach	Remote-site network need	External service role	Central NVR recording
Traditional direct	The remote camera must accept recorder-initiated access	No relay required	Possible, but network design can be difficult
Cloud remote access	Usually outbound access only	Service may relay data/control; fees may apply	Not always the primary architecture
VIGI Remote Registration	Camera initiates a VIGI-developed encrypted connection to the NVR	No external cloud service or cloud-storage subscription required for this camera-to-NVR path	Yes—the NVR is the management and recording endpoint

Register the camera in three product steps

01

Create the connection code

Enable Remote Registration on the VIGI NVR and create the Verification Code.

02

Register the camera to the NVR

On the VIGI camera, select Remote Registration and enter the matching NVR information and code.

03

Add and confirm the channel

Return to the NVR, certify or add the remote channel, and confirm management and recording.

What compatible ANR changes during a network interruption



1 · Link available

The camera streams to the NVR.



2 · Link interrupted

The camera records to local storage.



3 · Link restored

The missing recording is replenished to the NVR.

Keep the architecture boundary simple

Remote Registration keeps camera-to-NVR management and recording under your control on the NVR, without an external cloud service. It does not replace the network service between the two sites.

Configure Remote Registration step by step

Use the VIGI setup guide for the complete configuration workflow on the NVR and camera.

[Open the setup guide →](#)

Ask three questions—then bring in the solution team

Remote Registration is the right architecture when these conditions line up. Use the questions in order; if all three are “yes,” propose the solution and move to compatibility validation.

YES

Are the target VIGI cameras on a different network from the customer’s VIGI NVR?

YES

Should one NVR provide centralized management and recording for those remote cameras?

YES

Does the customer want to avoid an external cloud service and separate cloud-storage subscription?

“All three are yes? Remote Registration belongs in the proposal.”

Qualified? Validate the final design with the solution team

Confirm the NVR model, firmware, recorder capacity, video quality, power, camera storage and ANR requirements before quoting.

VIGI sources and product references

Technical and guidance

- [Remote Registration setup guide](#)
- [ANR configuration guide](#)

Product reference

- [VIGI InSight S345-4G](#)
- [VIGI InSight PTZ5425](#)
- [VIGI NVR2016H](#)
- [VIGI Solar Power Solution](#)

Architecture comparisons describe common patterns, not universal claims about every product or deployment. Capabilities, settings, firmware and regional availability can change. Product photos identify verified examples rather than a universal bundle; validate final models, region, firmware and compatibility before deployment.