



Jarsh WorkAlive™

JWL-HMC

Helmet-mounted connected worker camera

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HARDWARE UNIT

The worker's eyes, mounted where they are already looking.



Jarsh WorkAlive is a ruggedised camera and compute unit that mounts onto the Industrial Helmet. It gives a remote expert a live view of the work, a torch and a laser pointer they can control from a console, and the ability to capture evidence without the worker ever putting a tool down.

WorkAlive is the hardware. The software it runs — Connect, Assure and Enterprise — is licensed separately, and every module works with this unit.

Hardware and software are bought separately

The WorkAlive platform runs on two kinds of device at the worker's end:

Worker-end device	What it suits
Jarsh WorkAlive hardware	Hands-free work, hazardous and outdoor environments, long shifts, sites where a personal phone is not permitted or not rugged enough
Android smartphone	Supervisors, inspectors, pilot deployments, occasional users, and sites where issuing dedicated hardware is not justified

A single organisation can mix both. Licences follow the user and the module, not the hardware, so a site can issue WorkAlive units to its line crews and let supervisors use their phones on the same account.

Why helmet-mounted



A phone has to be held, which means a worker at height, inside a panel or on a ladder has to stop working to show you anything. A chest camera points where the body points, not where the eyes point.

Mounting on the helmet solves both. The camera follows the head, both hands stay on the job, and the torch lights whatever the worker is looking at. For a remote expert, that is the difference between watching a video call and being present.





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Capabilities

Hands-free live view The camera follows the worker's line of sight. No holding, no propping, no stopping work to reposition.	Remote-controlled torch The expert lights the work area from the console. Panels, cable trenches and vessel interiors stop being a problem.
Remote-controlled laser pointer Indicate the exact terminal, bolt or weld instead of describing it over audio.	Full-resolution still capture 13 MP stills pulled during a live session without interrupting it.
Hardware video encoding H.264 and H.265 encoded on-chip, so streaming and recording do not load the processor or drain the battery the way software encoding does.	Offline capture Records to local storage with no network and uploads when the link returns.
GPS positioning Device location recorded with each session and capture.	SOS key A dedicated hardware key raises an alert to the console.
Hot-swappable battery A depleted battery is exchanged for a charged one without shutting the device down.	Adjustable volume Volume can be set at both ends of the call — on the device and from the console.
Headphone connectivity Connect Bluetooth headphones or wired headphones.	Wi-Fi and 4G LTE Connect over Wi-Fi 2.4 / 5 GHz or 4G LTE.

Compute and platform

Processor	MediaTek MT6765 (Helio P35), octa-core
Image signal processor	Integrated MediaTek Imagiq ISP, on-chip
Operating system	Android 8.1

Imaging

Camera	Single camera, 13 MP
Still resolution	4208 × 3120
Image sensor	Sony IMX258, 1/3.06 in
Sensor interface	4-lane MIPI
Autofocus	Phase-detect autofocus
Hardware video encoding	H.264 (AVC), H.265 (HEVC), MPEG-4, H.263
Video capture	Up to 720p at 15 fps, hardware encoded

Illumination and indication

Torch	High-output LED; switchable locally and from the console
Laser pointer	Class 2 visible indicator; switchable locally and from the console

Audio

Microphones	Dual microphone with noise suppression
Speaker	Integrated, full-duplex audio
Volume	Adjustable at both ends — on the device and from the console
Headphones	Bluetooth headphones and wired headphones

Connectivity and positioning

Cellular	4G LTE
Wireless	Wi-Fi 2.4 / 5 GHz
Short range	Bluetooth
Positioning	GNSS (GPS) with assisted fix

Controls, display and storage

Display	0.96 in status display — status indication only, not for data entry
Dedicated keys	SOS key
Local storage	microSD, up to 128 GB, for offline buffering

Power

Battery	Removable, hot-swappable
Runtime	Up to 4 hours continuous on a single charge
Shift coverage	Extended by carrying charged spares
Charging	Single charger or multi-bay dock





Jarsh WorkAlive™

Physical and environmental

Ingress protection	IPx6
Drop rating	2 m
Operating temperature	-20 °C to +55 °C
Weight	285 g
Mounting	Industrial Helmet mount

What hot-swap means, and why it matters

A standard shift runs eight to twelve hours. A single WorkAlive battery runs up to four. Without hot-swap, that means the worker powers the unit down, changes the battery, waits for it to boot, signs back in and rejoins whatever was in progress — three or four times a shift.

Hot-swap removes that. The device holds enough reserve power to stay alive while the battery is physically out, so the worker ejects the depleted pack, clips in a charged one and carries on. No shutdown, no reboot, no sign-in, and nothing in the upload queue is lost.

In practice this is what makes WorkAlive a full-shift device rather than a four-hour one. Issue two charged spares per unit and a multi-bay dock, and the hardware covers a twelve-hour shift continuously.

Choosing between WorkAlive hardware and a smartphone

	WorkAlive hardware	Android smartphone
Hands free	Yes, helmet-mounted	No
Remote torch control	Yes	No
Remote laser pointing	Yes	No
Camera follows line of sight	Yes	No
Rated for drops and water	IPx6, 2 m drop	Depends on the handset
Operating temperature	-20 °C to +55 °C	Depends on the handset
Full-shift operation	Yes, with hot-swap	Depends on the handset
Dedicated SOS key	Yes	On-screen only
Live video and audio	Yes	Yes
Recording and evidence capture	Yes	Yes
Suits	Line crews, confined space, work at height, outdoor and hazardous areas	Supervisors, inspectors, pilots, occasional users

Ships with

■ Jarsh WorkAlive unit

■ Industrial Helmet mount

■ One battery

■ Charger

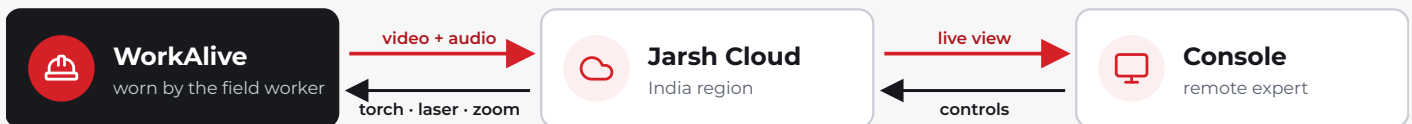




WorkAlive™ Connect

LEVEL 1 · ENTRY MODULE

See what your crew sees, right now.



Connect puts a remote expert inside the job. The worker wears the device and keeps both hands free; the expert sees the live feed, switches the torch on from the console, points the laser at the exact component in question, and talks the work through as it happens.

Nothing is recorded and nothing is stored. Connect is the entry point to the WorkAlive platform and is included in both Assure and Enterprise.

Capabilities

Live two-way video and audio Full-duplex call between the field device and the console.	Remote torch control The expert lights the work area from the console; the worker keeps both hands free.
Remote laser pointing Indicate the exact bolt, terminal or seam instead of describing it.	Remote camera control Digital zoom and resolution stepping, driven from the console.
Live GPS position Where the device is, updated through the session.	SOS key Hardware key raises an alert to the console from anywhere on site.
Hands-free operation Noise-suppressed audio designed for plant and outdoor environments.	Session log Who called, who joined, how long. Metadata only; no media is retained.
Adjustable volume Volume can be set at both ends of the call — on the device and from the console.	Headphone connectivity Connect Bluetooth headphones or wired headphones.
Wi-Fi and 4G LTE Connect over Wi-Fi or 4G LTE.	





WorkAlive™ Connect

Runs on

At the worker's end	At the expert's end
Jarsh WorkAlive helmet-mounted hardware, or an Android smartphone	Any modern web browser



Where it is used

Application	Typical owner	Industries
Remote OEM breakdown support	Maintenance Head	Power, steel, cement, chemicals, pharma
One supervisor across several gangs	Division Engineer	Power distribution, construction, EPC
Go / no-go decision without travel	Plant Head	All
Guidance for a junior technician	Maintenance Lead	All
First eyes on an emergency	Control room	Power, mining, oil and gas
Remote commissioning witness	Projects Engineer	EPC, manufacturing

Module specification

Video codec	H.264 / H.265, hardware encoded on WorkAlive hardware
Resolution	Up to 720p at 15 fps
Latency	Typically under 1.5 s glass-to-glass on a normal 4G link
Minimum upstream	1 Mbps for 720p at 15 fps
Audio	Full duplex with echo cancellation and dual-mic noise suppression
Remote commands	Torch, laser, digital zoom up to 4x, resolution step, mute
Command round-trip	Typically under 1.5 s on 4G
Reconnection	Session resumes within 30 s of network loss without starting a new session
Recording	Not available in Connect — see Assure

What is included

Expert seats	1
Guest seats	Not available
Streaming hours	250 hours per year
Cloud recording	Not available
Storage	Not applicable
API access	Not available

Upgrade path

Recording, snapshots, tags and comments, the evidence vault and chain of custody are available in **WorkAlive Assure**.
Checklists and SOPs, digitised reports, e-signature, non-conformance tracking and guest access are available in **WorkAlive Enterprise**.



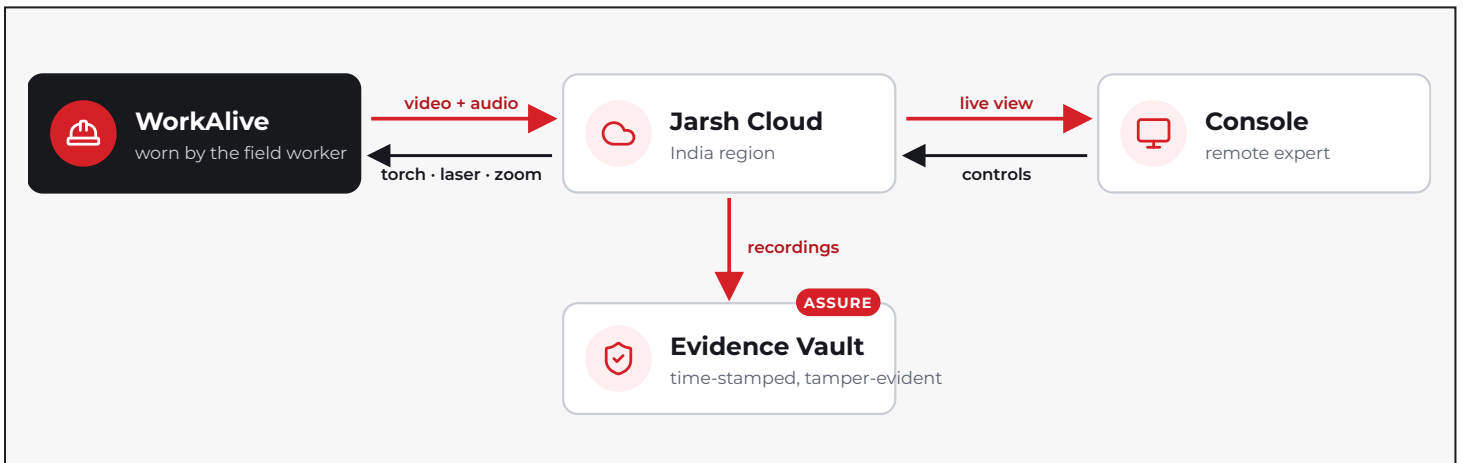
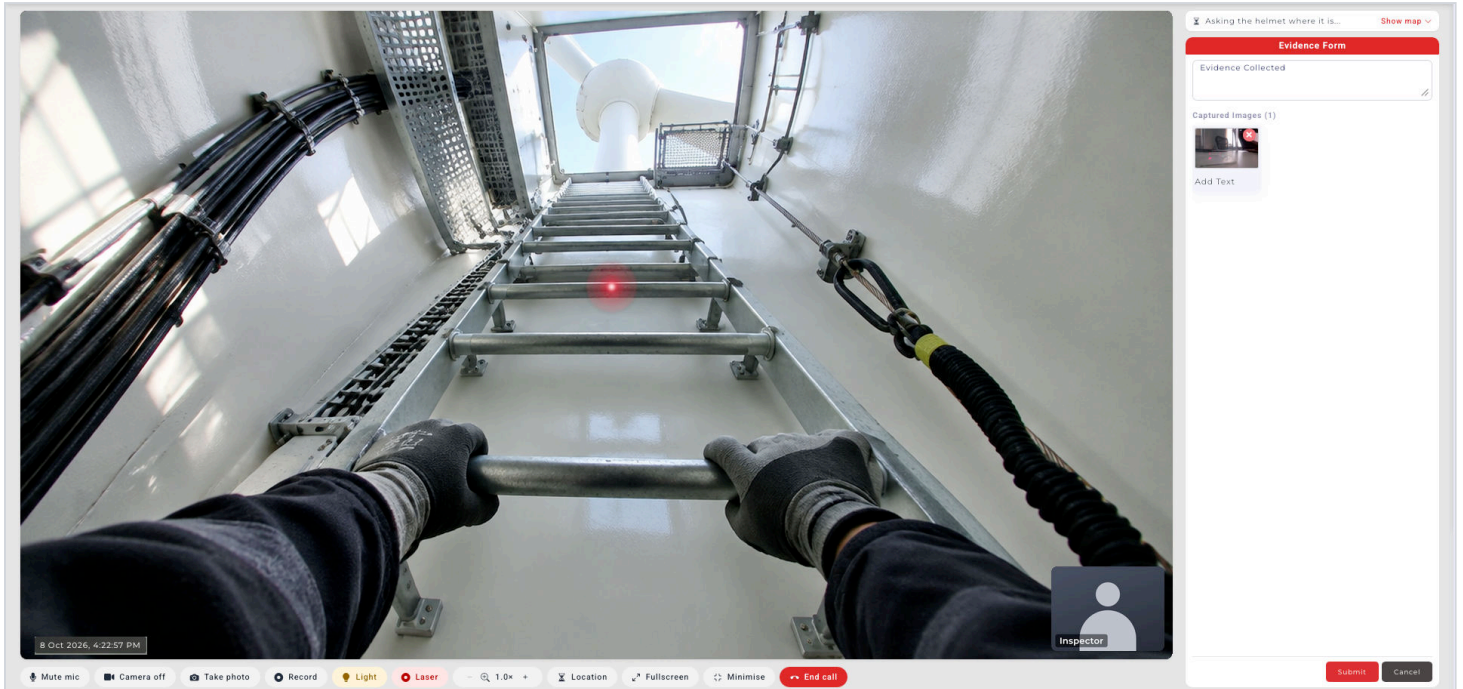


WorkAlive™ Assure

Recorded evidence with chain of custody

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LEVEL 2 · INCLUDES CONNECT

If it wasn't recorded, it didn't happen.


Assure adds recording that will hold up when it matters. Every clip is stamped with device time, server time and GPS position, and held in storage that cannot be altered, with a complete chain of custody.

Assure includes everything in Connect.





WorkAlive™ Assure

Capabilities

Cloud recording Record the live session to the cloud from the console.	Storage that cannot be altered Recordings cannot be edited once captured, and every deletion is logged.
Dual-clock and GPS stamping Device time and server time both recorded, with position at the start and end of every capture.	Full-resolution snapshots Capture stills during a live call without interrupting it.
Timecoded comments Threaded notes anchored to a point in the recording.	Tag and search Filter by tag, operator, site, asset or date across the whole library.
Chain of custody Full audit trail of who viewed, commented on or exported each item.	

Where it is used

Application	Typical owner	Industries
Permit-to-work close-out proof	EHS Manager	All
LOTO and isolation verification	Electrical Supervisor	Power, process, manufacturing
Incident scene documentation	EHS and Legal	All
Near-miss and safety observation	Safety Officer	All
Contractor work verification for billing	Projects / Contracts	Construction, EPC
Insurance claim substantiation	Risk and Finance	All
Toolbox talk attendance record	Safety Officer	All
Training library built from live sessions	L&D / Training	All

Runs on

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WorkAlive™ Assure

JSWL-A1

Recorded evidence with chain of custody

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Module specification

Recording codec	H.265 at 720p, 15 fps; hardware encoded on WorkAlive hardware
Timestamping	Device clock and server clock recorded separately on every item
Location	GPS fix recorded at start and end of each capture
Snapshots	Full sensor resolution, bound to the session in which it was taken
Comments	Threaded, anchored to a timecode

What is included

Expert seats	1
Guest seats	Not available
Streaming hours	250 hours per device per year
Storage	30 GB per license
Evidence export bundle	Available in Enterprise
API access	Not available

Upgrade path

Checklists and SOPs, evidence bound to individual checkpoints, digitised reports, e-signature, non-conformance tracking, evidence export bundles, guest seats and API access are available in **WorkAlive Enterprise**.



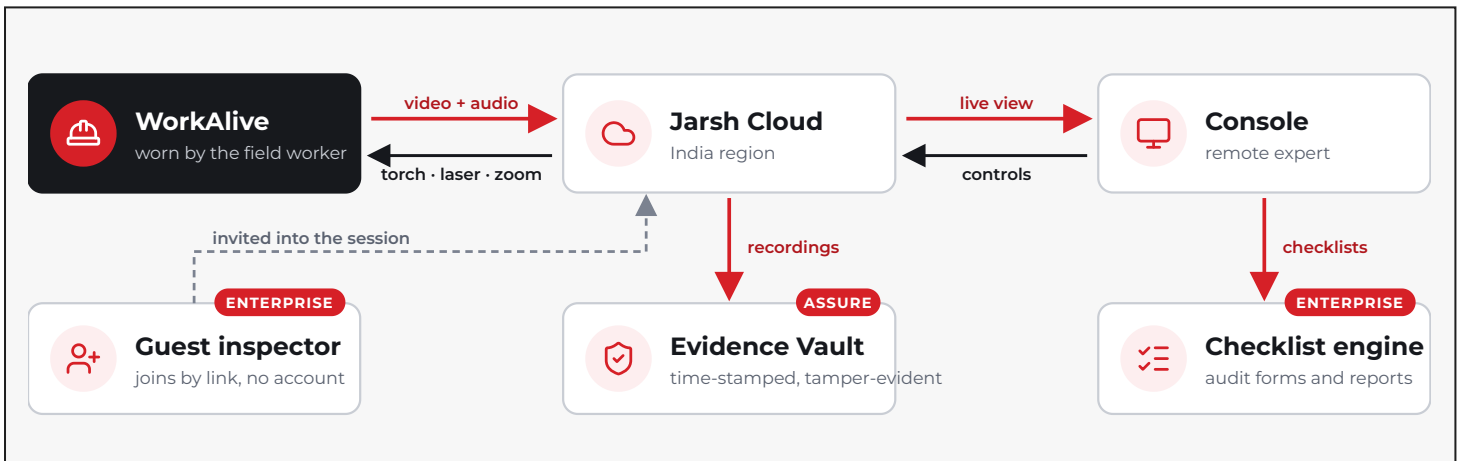
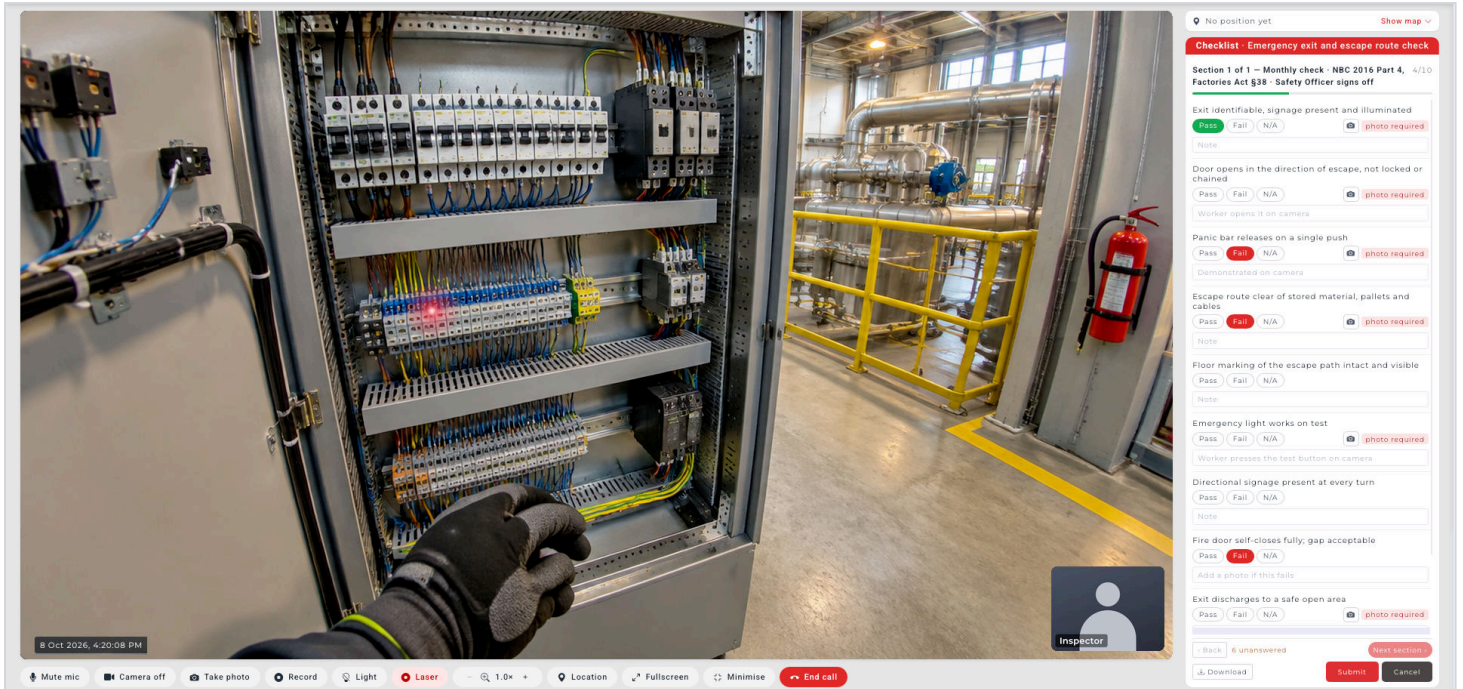


WorkAlive™ Enterprise

Remote inspection with digitised reports

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LEVEL 3 · INCLUDES CONNECT AND ASSURE

Every inspection ends in a signed report.


How Enterprise is designed

The checklist does not run on the worker's device. It runs in the console, driven by the inspector. The worker is the eyes and the hands.

This is deliberate. The competent person still steps through every checkpoint and still signs the report. Remote inspection replaces the travel, not the inspector.





WorkAlive™ Enterprise

Remote inspection with digitised reports

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Enterprise turns the camera into an inspection system. Your checklists and SOPs run in the console, the inspector steps through each checkpoint, and the evidence captured in the field attaches to the checkpoint it belongs to.

Failures raise a non-conformance with an owner and a due date. The report is generated, signed and hashed the moment the job closes. Enterprise includes everything in Connect and Assure.

Capabilities

Checklists and SOPs Ordered checkpoints with four response types and per-point evidence requirements.	Evidence bound to checkpoints A photo is not a loose file. It is attached to checkpoint 7.
Template versioning A completed job always renders against the template version used on the day.	Non-conformance workflow Severity, owner, due date and closure evidence, tracked to close.
E-signature at close Signer identity, timestamp and IP captured with the signature.	Digitised report Generated server-side, reproducible, hashed and retained as an evidence object.
Guest and external seats Bring a vendor, a third-party inspector or an insurer into a single scoped job.	Evidence export bundle Export a verifiable package of media, manifest, hashes and audit trail.
Dashboards and scheduling Completion rates, open findings by age, recurring inspections.	API and webhooks Push jobs and findings into your own maintenance or EHS system.

Where it is used

Application	Typical owner	Industries
Statutory and periodic safety inspections	EHS Manager	All
Vendor and pre-dispatch witness inspection	Procurement, QA	Manufacturing, EPC, power
Third-party inspection witness	QA / TPI agency	Manufacturing, oil and gas
Shutdown and turnaround readiness	Maintenance Head	Process, power, steel
Asset condition survey	Asset Management	Power distribution, utilities
Snagging and punch list close-out	Projects	Construction, EPC, real estate
Contractor competency check before entry	EHS / Contracts	All
Supplier audit and ESG evidence	Sustainability, SCM	Manufacturing, FMCG

Runs on

At the worker's end	At the inspector's end
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WorkAlive™ Enterprise

Remote inspection with digitised reports

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Module specification

Checklist structure	Linear ordered checkpoints, up to 100 per template
Response types	Pass / fail / NA, numeric, free text, single select
Evidence per checkpoint	Photo, video clip, or both
Mandatory evidence	Checkpoints flagged as requiring evidence block job completion
Template versioning	Completed jobs pinned to the template version in force at the time
Non-conformance	Severity, owner, due date, status, closure evidence
E-signature	Identity, timestamp and originating IP recorded
Report generation	Server-side PDF, deterministic; identical input yields an identical hash
Report branding	Customer logo and header on every report
Guest access	Scoped, expiring tokens; watermarked playback; download off by default
Integrations	REST API and outbound webhooks
Scheduling	Recurring inspections with assignment and overdue alerting

What is included

Expert seats	1
Guest seats	1
Streaming hours	250 hours per year
Storage	75 GB per license
Evidence export bundle	Included
API access	Included

Solution packs

Pre-built template and workflow sets are available for common inspection programmes, supplied configured against your own formats:

■ Substation and line maintenance

■ Confined space entry

■ Work at height

■ Shutdown and turnaround readiness

■ Vendor and third-party inspection

■ Contractor governance

