

FARMTRACE FACIAL RECOGNITION

Device requirements and shortlist

Recommended Android hardware for Farmtrace facial recognition deployments. The DT50S with charging dock is the FarmTrace-supplied recommendation. Other devices below are procurement candidates based on published specifications and require validation before rollout.

Minimum requirements

Operating system	Android 7.0 (Nougat) or newer
Memory	6 GB RAM or more
Storage	At least 8 GB free, plus cache headroom
Processing	Qualcomm octa-core 2.45 GHz or newer/equivalent enterprise platform
Connectivity	Stable 4G/LTE or Wi-Fi; at least 2 Mbps each way
Cameras	5 MP front and 8 MP rear, or better
Location	Enabled, reliable GPS
Power	3000 mAh or higher

Recommended device	DT50S high-volume scanner with charging dock - available through FarmTrace
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* Clock speed alone does not determine performance. Newer 2.4 GHz enterprise platforms are included as equivalent-class candidates and require Dsync validation. Configurations with less than 6 GB RAM are excluded.

Device shortlist

Select the listed memory configuration or better. Regional SKUs, cameras, cellular bands, batteries, and Android support windows can differ, so confirm the exact part number before ordering.

Device	Qualifying configuration	Notes
Urovo DT50S	6 GB / 64 GB; IP67; 4300/6000 mAh	FarmTrace recommended; charging dock available
Urovo DT50	8 GB / 128 GB; IP67; 5000 mAh	Android 13; removable battery
Zebra TC53e	6 GB / 64 GB; IP65/IP68; 4680 mAh	Wi-Fi 6E; enterprise lifecycle
Zebra TC58e	6 GB / 64 GB; IP65/IP68; 4680 mAh	5G; enterprise lifecycle
Zebra TC53	8 GB / 64 GB; IP65/IP68; 4680 mAh	Extended battery option
Zebra TC58	8 GB / 64 GB; IP65/IP68; 4680 mAh	5G; extended battery option
Zebra TC73	8 GB / 128 GB; IP65/IP68; 4680 mAh	5-year availability; 10-year support
Zebra TC78	8 GB / 128 GB; IP65/IP68; 4680 mAh	5G; 5-year availability; 10-year support
Honeywell CT47	6 GB / 128 GB; IP65/IP68; 4775 mAh	Ultra-rugged; long Android support window
Honeywell CT37	8 GB / 128 GB; IP65/IP68; 3846/5550 mAh	Android 14-18 lifecycle
Honeywell CT37 HC	8 GB / 128 GB; IP65/IP68; 3846 mAh	Cleanable housing; Android 14-18
Honeywell CT70	8 GB / 128 GB; IP65/IP68; 4775/7692 mAh	Android 15-19 lifecycle
Honeywell CK67	8 GB / 128 GB; IP65/IP68; 7000 mAh	Ultra-rugged keypad; Android 14-18
Honeywell CT32	6 GB / 128 GB; rugged; 4500 mAh	Android 14-18; dual-band GPS
Datalogic Memor 30	6 GB / 128 GB; IP65/IP68; 4680 mAh	Android platform support to 18
Datalogic Memor 30X	6 GB / 128 GB; IP65/IP68; 4680 mAh	Long-range scan option
Datalogic Memor 35	6 GB / 128 GB; IP65/IP68; 4680 mAh	5G; Android platform support to 18
Datalogic Memor 35X	6 GB / 128 GB; IP65/IP68; 4680 mAh	5G; long-range scan option
Unitech PA768	6 GB / 64 GB; IP65/IP68; 5100 mAh	Android 14-16; hot-swappable battery
Unitech EA660	6 GB / 128 GB; IP65/IP67; 5000 mAh	Android 13/15; upgrade path to 17
Point Mobile PM95	6 GB / 64 GB; IP65/IP68; 4950 mAh	Android 13-18; 7020 mAh option

This is a procurement shortlist, not a blanket compatibility promise. Before purchase, validate the exact device with Dsync, camera scanning, GPS accuracy, sustained processing, memory headroom, battery life, network bands, charging accessories, and the expected temperature, dust, moisture, and handling conditions.

Validation checklist

Use this checklist before committing to volume procurement. The goal is straightforward: confirm the device performs reliably in the actual field conditions where your team will use it.

Application	Install the supported Dsync release and complete repeated recognition scans.
Camera	Verify framing, focus, exposure, and scan consistency indoors, outdoors, and at shift-change entrances.
Location	Compare GPS results with a trusted reference across the farms and facilities where the device will be used.
Performance	Run sustained scanning with the expected employee gallery and confirm acceptable heat, responsiveness, and memory headroom.
Power	Complete a full-shift battery test with cellular data, GPS, screen brightness, and scanning active.
Environment	Test gloves, wet fingers, dust, direct sun, mounting, drops, cleaning, and charging routines.
Lifecycle	Confirm exact SKU availability, Android/security support, repair coverage, spare batteries, docks, and local supplier support.

FarmTrace recommendation	For dependable high-volume scanning, choose the DT50S with charging dock through FarmTrace. If you source another device, confirm its GPS accuracy, processing performance, memory capacity, battery life, and fitness for the field environment before rollout.
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Manufacturer sources

Urovo DT50/DT50S	https://us.urovo.com/products/mobile/dt50.html
Zebra TC5 Series	https://www.zebra.com/us/en/products/mobile-computers/handheld/tc5x-series.html
Zebra TC73/TC78	https://www.zebra.com/us/en/products/spec-sheets/mobile-computers/handheld/tc73-tc78.html
Honeywell CT47	https://automation.honeywell.com/us/en/products/productivity-solutions/mobile-computers/handheld-computers/ct47-handheld-computer
Honeywell CT37	https://automation.honeywell.com/us/en/products/productivity-solutions/mobile-computers/handheld-computers/ct37-handheld-computer
Honeywell CT70 / CK67 / CT32	https://automation.honeywell.com/us/en/products/productivity-solutions/mobile-computers/handheld-computers
Datalogic Memor 30/35	https://www.datalogic.com/eng/retail-manufacturing-transportation-logistics-healthcare/mobile-computers/memor-30-35-pd-1091.html
Unitech PA768	https://www.ute.com/apac/products/detail/PA768
Unitech EA660	https://www.ute.com/apac/products/detail/EA660
Point Mobile PM95	https://www.pointmobile.com/en/product/view.php?id=7

Sources checked 21 August 2026. Models and configurations change; recheck the manufacturer datasheet, local availability, Android support policy, and exact part number at procurement.