IDTS-UWR6 Watch Reader

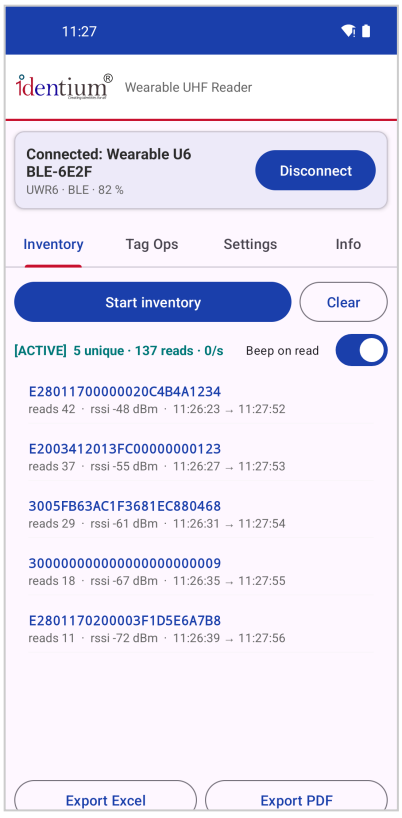
Android App — User Manual

Wearable UHF RFID · Watch key · Inventory · Export · Read/Write · Keyboard

App: Identium UWR6

App version 1.0.0 · Android 6.0+

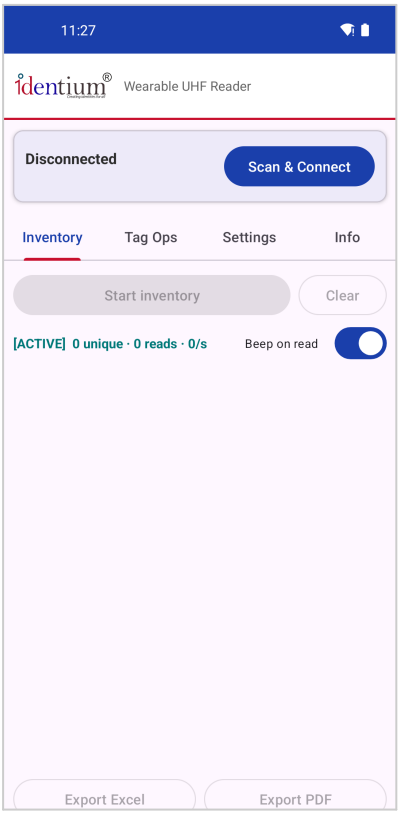
Document version 1.0



1. Getting started

The **Identium UWR6** app connects your phone to the **IDTS-UWR6 wearable UHF RFID watch reader** over Bluetooth Low Energy. Read tags with the watch's own scan key or from the app, export the results, read & write tag memory, tune the watch, and type scanned tag IDs into any app. The screenshots in this manual were taken with the app's demo mode, so the values shown are examples.

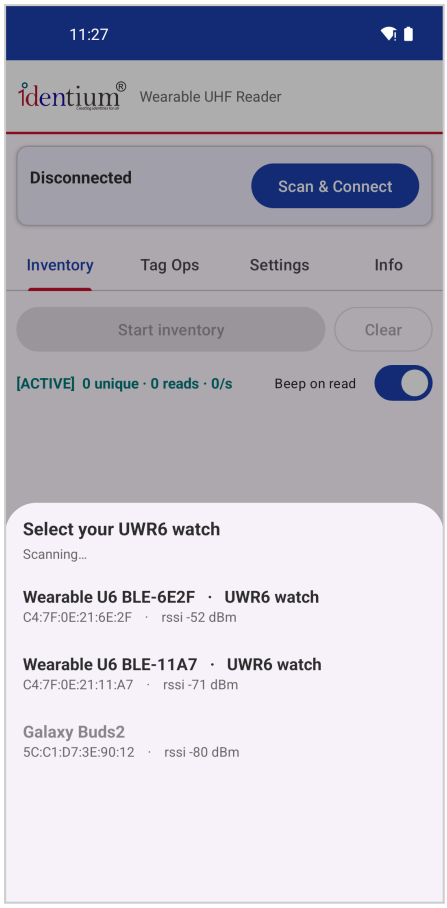
When you open the app you land on the **Inventory** screen showing "Disconnected". Four tabs run across the middle: **Inventory**, **Tag Ops**, **Settings** and **Info**.



1. Charge and switch on the UWR6 watch, and make sure the phone's Bluetooth is on.
2. Open the **Identium UWR6** app.
3. The first time you scan, Android asks for the **Nearby devices** (Bluetooth) permission — tap **Allow**. On Android 6–11 it asks for **Location** instead, and the phone's Location switch must be on to find Bluetooth devices.

2. Connect to your watch

Tap **Scan & Connect** to find nearby watches.

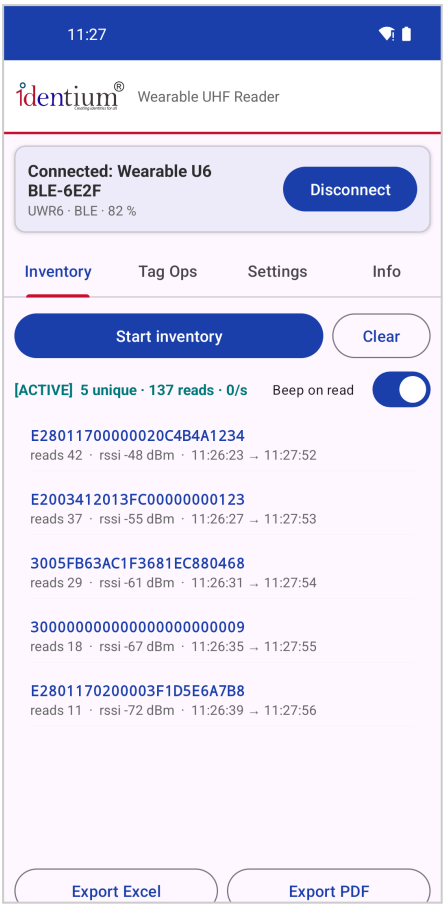


1. On the Inventory screen, tap **Scan & Connect**.
2. A sheet lists nearby devices. UWR6 watches (named **Wearable U6 BLE…**) are listed first and marked **UWR6 watch**; other Bluetooth devices are greyed out.
3. Tap your watch. The header changes to **Connected: <name>** and shows the watch's **battery level**, e.g. "UWR6 · BLE · 82 %".
4. The scan stops by itself after 30 seconds — tap "Scan stopped — tap here to scan again" to look again.

Tip: the device with the strongest (least-negative) RSSI is the closest one.

3. Read tags (Inventory)

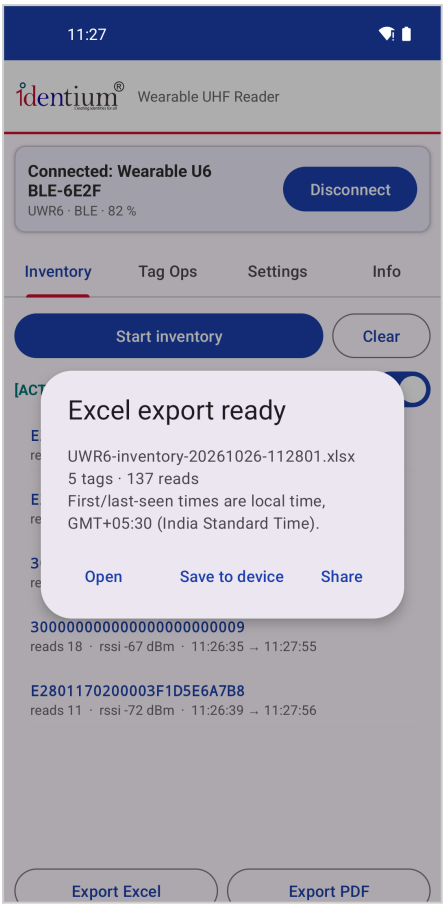
Read tags with the watch's scan key or with the app's button. The list de-duplicates tags live.



1. **Watch key** (Active mode, the default): press the scan key on the watch to start reading, press it again to stop — no need to touch the phone. (Settings can change this to one single read per press.)
2. **From the phone:** tap **Start inventory**, then **Stop**.
3. Each tag shows its EPC, read count, last RSSI and the time it was **first → last seen**. The green line sums up unique tags, total reads and the read rate.
4. The phone beeps on each read — turn it off with **Beep on read**. **Clear** empties the list.
5. Tap **Export Excel** or **Export PDF** to save the list — see section 4.

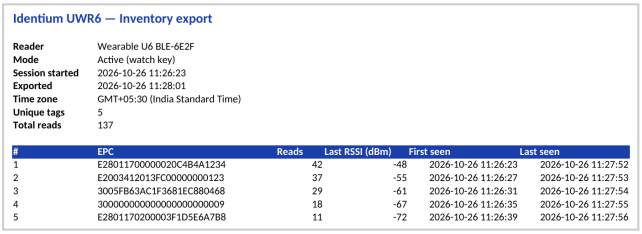
4. Export to Excel or PDF

Save or send the tags you have read, with timestamps, as an **Excel workbook** or a branded **PDF report**.



1. Read some tags, stop reading, then tap **Export Excel** or **Export PDF**.
2. A dialog confirms the file — named with the date and time, e.g. **UWR6-inventory-20261026-112801.xlsx**.
3. **Share** sends it by email, WhatsApp, Drive, Bluetooth and so on. **Save to device** lets you pick a folder (e.g. Downloads). **Open** views it now.

Each export lists the watch, mode, session start, export time and time zone, then one row per tag: EPC, reads, last RSSI, **first seen** and **last seen** (phone's local time). In Excel the EPCs stay exact text (never 3E+23) and the times are real date-times you can sort and filter.

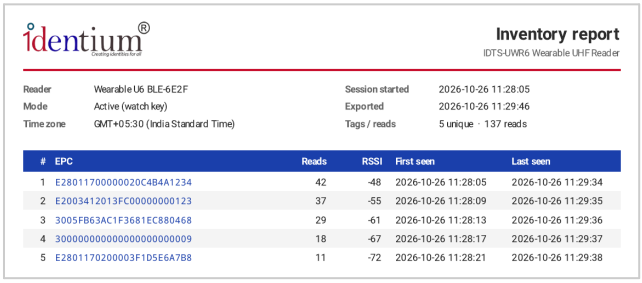


Identium UWR6 — Inventory export

Reader	Wearable U6 BLE-6E2F
Mode	Active (watch key)
Session started	2026-10-26 11:26:23
Exported	2026-10-26 11:28:01
Time zone	GMT+05:30 (India Standard Time)
Unique tags	5
Total reads	137

#	EPC	Reads	Last RSSI (dBm)	First seen	Last seen
1	E280117000000020C4B4A1234	42	-48	2026-10-26 11:26:23	2026-10-26 11:27:52
2	E2003412013FC00000000123	37	-55	2026-10-26 11:26:27	2026-10-26 11:27:53
3	3005FB63AC1F3681EC880468	29	-61	2026-10-26 11:26:31	2026-10-26 11:27:54
4	300000000000000000000009	18	-67	2026-10-26 11:26:35	2026-10-26 11:27:55
5	E2801170200003F1D5E6A7B8	11	-72	2026-10-26 11:26:39	2026-10-26 11:27:56

Excel (.xlsx) — as printed from a spreadsheet app



Inventory report

IDTS-UWR6 Wearable UHF Reader

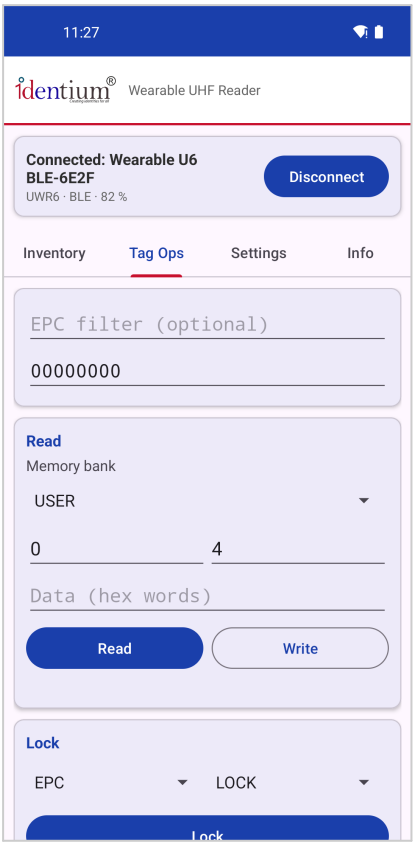
Reader	Wearable U6 BLE-6E2F	Session started	2026-10-26 11:28:05
Mode	Active (watch key)	Exported	2026-10-26 11:29:46
Time zone	GMT+05:30 (India Standard Time)	Tags / reads	5 unique · 137 reads

#	EPC	Reads	RSSI	First seen	Last seen
1	E280117000000020C4B4A1234	42	-48	2026-10-26 11:28:05	2026-10-26 11:29:34
2	E2003412013FC00000000123	37	-55	2026-10-26 11:28:09	2026-10-26 11:29:35
3	3005FB63AC1F3681EC880468	29	-61	2026-10-26 11:28:13	2026-10-26 11:29:36
4	300000000000000000000009	18	-67	2026-10-26 11:28:17	2026-10-26 11:29:37
5	E2801170200003F1D5E6A7B8	11	-72	2026-10-26 11:28:21	2026-10-26 11:29:38

PDF — branded report, A4

5. Tag operations (read / write / lock / kill)

The Tag Ops tab reads and writes a tag's memory, and can lock or kill a tag. Stop reading first.

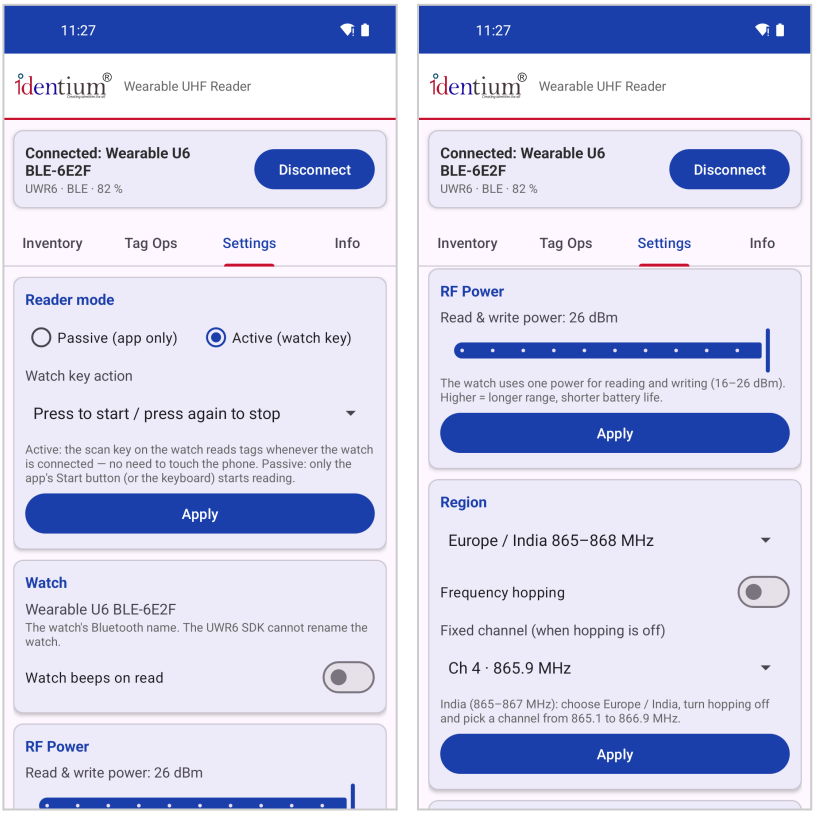


1. **Target (optional):** type the tag's **EPC** (whole bytes, e.g. 24 hex digits) to act on that tag only, and the **access password** if the tag is protected (default 00000000).
2. **Read:** choose a memory bank (EPC / TID / USER / RESERVED), a word address and a word count (1–32), then tap **Read**. The data appears below.
3. **Write:** enter up to 8 words of hex in **Data** and tap **Write**.
4. **Lock:** pick the target and Lock / Unlock / Permalock, then tap **Lock**. Permalock asks you to confirm — it can never be undone.
5. **Kill:** enter the 8-digit kill password and tap **Kill** (00000000 can't kill a tag).

If an operation fails, the watch can't tell why: "No answer from the tag" means no tag in range, a wrong password, or locked memory. ■ **Kill is permanent.**

6. Settings

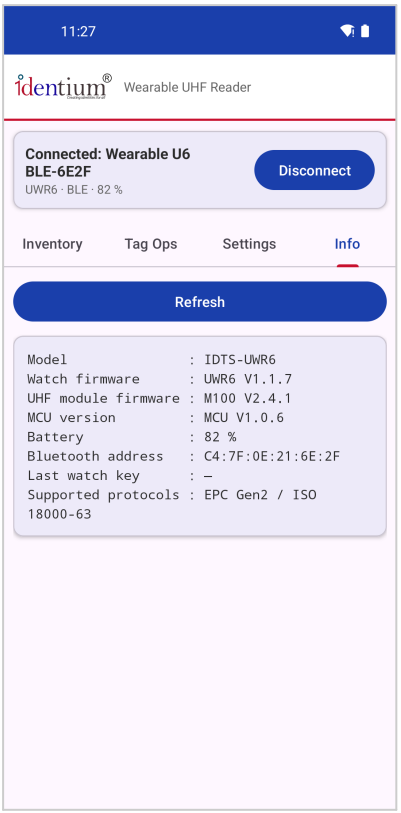
The Settings tab configures the app and the watch. Change a value, then tap its **Apply** (stop reading first). Values are read from the watch when it connects.



- **Reader mode** — **Active (watch key)**: the watch's scan key reads tags whenever the watch is connected. **Passive (app only)**: only the app's Start button (or the keyboard) starts reading. **Watch key action**: press to start / press again to stop, or one single read per press.
- **Watch** — shows the watch's Bluetooth name (it can't be changed). **Watch beeps on read** turns the watch's own buzzer on or off; the phone's beep is separate.
- **RF Power** — one power for reading and writing, 16–26 dBm. Higher = longer range, shorter battery life.
- **Region** — Europe / India, US, China (two bands) or Korea, plus **frequency hopping** or a **fixed channel**. **India (865–867 MHz):** choose Europe / India, turn hopping off and pick a channel from 865.1 to 866.9 MHz. The app re-applies this plan each time it connects (as long as the watch is still on that region).
- **Gen2 Air Protocol** — Session (0–3), Target (A or B) and Q (0–15) for your tag population.
- **Save settings to the watch** — stores the module settings in the watch so they survive a power-cycle.

7. Watch information

The Info tab shows the watch's identity and health.

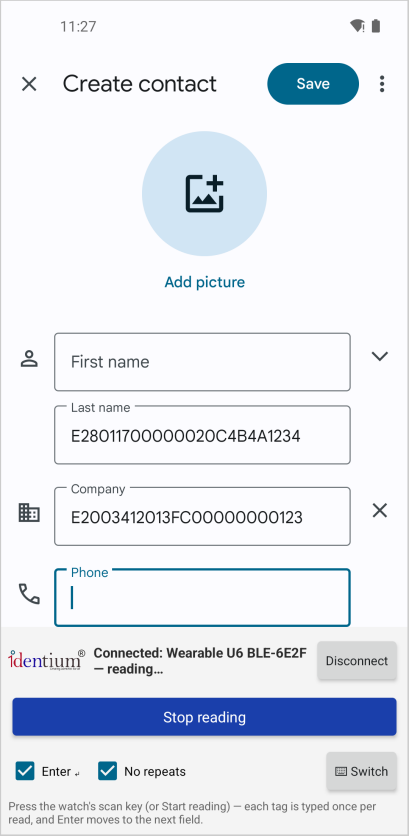


1. Tap **Refresh**.
2. The card lists the model, the watch firmware, the UHF module firmware, the MCU version, the **battery level**, the Bluetooth address and the supported tag protocols.
3. **Last watch key** shows the code of the last key pressed on the watch — useful for support.

The battery level also appears in the connection bar and is refreshed about once a minute while the watch is idle.

8. RFID Keyboard (type tags into any app)

The app includes an **RFID keyboard**: select it as your keyboard and scanned EPCs are typed straight into whatever text field has focus — a web form, a spreadsheet, your ERP — no integration needed. Here it is filling a Contacts form, one tag per field.



1. Go to **Settings** → **RFID Keyboard**, tap **Enable keyboard** and turn on "Identium UWR6 RFID Keyboard".
2. Tap **Choose keyboard** and select **Identium UWR6 RFID Keyboard**.
3. Connect to the watch in the app as usual. The keyboard **shares the app's connection** — its bar shows **Connected: <watch>**. (You can also tap **Connect** in the bar; it reconnects to your last watch.)
4. Open any app and tap a text field. Press the **watch's scan key** (Active mode) or tap **Start reading**.
5. Each tag is typed into the field. With **Enter** ↵ on, Enter is pressed after every tag, so the next tag goes into the next field or row. **No repeats** types each tag once per read.

Reading started while the keyboard is open stops when the keyboard closes. Tap ■ **Switch** to return to your normal keyboard. If a field ignores Enter, the next tag is added to the same field — use a list or spreadsheet, or turn **Enter** off.

9. Troubleshooting

Problem	What to do
No watches found	Check the watch is on, charged and close. Allow **Nearby devices** (Android 12+) or **Location** and turn the Location switch on (Android 6–11).
“The watch did not respond”	Switch the watch off and on, keep it close, and connect again. Make sure no other phone is connected to it.
“Connected, but the watch does not answer”	The Bluetooth link came up but the watch didn’t reply — switch it off and on and reconnect.
Watch key does nothing	Settings → Reader mode must be **Active (watch key)**. The key is ignored while a setting or tag operation is running. Info → Last watch key shows whether the press reached the phone.
“Stop reading first”	Settings and tag operations can’t run while the watch is reading — tap Stop (or press the watch key).
“No answer from the tag”	No tag in range, wrong access password, or locked memory. Move the tag closer and check the password.
Keyboard types nothing	The keyboard bar must say **Connected**. Tap a text field first, then press the watch key or tap Start reading.
“Watch disconnected (switched off or out of range)”	The watch went out of range or ran out of battery. Charge it and connect again.
Export: “No app on this phone opens … files”	Install a spreadsheet or PDF viewer, or use **Share** / **Save to device** instead.

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