



SHN TXD

SHN TxD

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Purcent dial mode
24 hours dial mode



SHN TxD

AFTERNOON | MORNING

MAP

Datas

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HMDb
GW

FAQ

Data1
 UTC Time([PRO]Dual Time) ▾

Data2
 Date1 (Month+Day) ▾

Data3
 HR ▾

Data4
 Battery ▾

Data1.5
 None ▾

Data2.5
 None ▾

Data3.5
 None ▾

Data4.5
 None ▾

Datas:

Date1 (Month+Day)
 Date2 (Day of week+Day)
 Date3 (Month+Week Number+Day of week+Day)
 Date4 (Month+Week Number)
 Date5 (Month+Day of week+Day)
 UTC Time([PRO]Dual Time) [PRO]
If pro, can be set in Dual Time
 HR
 --
 HR 2 [PRO]
Current HR + min and max (6hr)
 Altitude
Unit according your device settings
 Steps / Kcal
Since the beggining of the day
 Steps+distance [PRO]
Since the beggining of the day
 Steps history [PRO]
Graph for daily+last 6 day+daily objective
 [PRO] Active Kcal [PRO]
Since the beggining of the day
 Floors / Active Minute [CIQ]
Since the beggining of the day/for compatible device
 Active Minute(daily) [CIQ]
Since the beggining of the day/for compatible device
 Distance
 Battery

!!DATAS X,5 cycle on gesture with data X,0!!!(d1 with d1,5)

force column on data filed (:)

Turn it on if you have main time without colomns « : » but you want data field with it.

[PRO] Dual Time Title

UTC

[PRO] Dual Time offset

UTC+00:00 ▾

Dual Time DST

[PRO]Progress bar with steps/floors/ActM and HR Graph

1575
 STEPS



*« on » = progress bar or Hr Graph
 Background color = mark color
 done = forecolor.*



*Last 6 days+daily
 Daily steps objective
 Daily steps*

SHN TxD

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Datas
 1/3

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 Weather

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FAQ

Data1
 UTC Time([PRO]Dual Time) ▾

Data2
 Date1 (Month+Day) ▾

Data3
 HR ▾

Data4
 Battery ▾

Data1.5
 None ▾

Data2.5
 None ▾

Data3.5
 None ▾

Data4.5
 None ▾

Datas:

Next Sun Event [GPS]
!!! Dusk/Dawn is not the same as sunrise/sunset

Until Next Sun Event [GPS]
!!! Dusk dawn for tactical / aero purpose

Pressure [CIQ]
Unit can be set Hpa-mmHg-InHg

Pressure trend [PRO][CIQ]
4 hours

Notification
if not connected: --

Temperature+wind info [PRO][CIQ][OWM]

Temperature+humidity [PRO][CIQ][OWM]

Temperature+pressure [PRO][CIQ][OWM]

Pressure+wind info [PRO][CIQ][OWM]

wind info [PRO][CIQ][OWM]
Temp unit according your device settings

Moon information [PRO]
Value is rounded (12,5=13 etc)

Dual Time 2 [PRO]
See UTC time

Battery 2 [PRO]
Days left, display time left has to be turned on

Temperature / with correction [PRO][CIQ]
Unit according your device settings, with correction: home made calculation to "remove" body temperature

Alarm count
 --
Do not Disturbed
For compatible devices

[PRO] Dusk/Dawn(instead of Sunrise/Sunset)

Use different angle, it won't be the same times, for tactical/aero purpose


Pressure format
 hPa ▾

Pressure format: Hpa-mmHg-InHg

[PRO]Wind dir, use deg instead of letter

[PRO] Wind Speed Format
 m/s ▾

[PRO] Icon with temperature

E-4 Turn icon on to have the weather icon beside the data field
 **15°**

[PRO] Display time left (battery)

SHN TxD

Data1

Data2

Data3

Data4

Data1.5

Data2.5

Data3.5

Data4.5

Datas:

Body Battery [CIQ]
 --
 Stress Score [CIQ]
 --
 Body Battery + Stress Score [PRO][CIQ]
 --
 VO2max running+cycling [PRO][CIQ]
Time to recovery is displayed if available instead of the title

SHN TxD

Arrow (24h dial,12oclock=midnight,6=noon)

UTC time

[PRO] Arrow Color

White

Arrow

If NON PRO the arrow shows UTC time in 24 hours dial mode, see MAP to know how to read.

If PRO, you can set it

UTC time [MAP]

Shows UTC time, GMT+0, Zulu,24hr dial mode

Dual time [PRO][MAP]

Shows the time you set , 24 hours dial mode

Sun Event [PRO][MAP][GPS]

Shows the sun Event in 24 hours dial mode

Sunset/Dusk

Current time



Sunset/Dawn

The thin marks stand for daylight, the arrow for current time

Step Progress/Battery/Act Minute [PRO][MAP]

Shows the % (steps/Act M since the beginning of the day

Wind Direction [PRO][OWM][GPS]

Shows the wind direction, works only if 1 of a Data is set with weather

[PRO] Dual Time offset

UTC+00:00

Dual Time DST

[PRO] Dusk/Dawn(instead of Sunrise/Sunset)

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[PRO] uppest text

TACTIX

[PRO] lowest text

MIL SPEC

Uppest/Lowest Text:[PRO]

If NON PRO « TACTIX » and « MIL SPEC » will be written

If PRO, put your own text

USE IT AS DATA FIELD

Write the following code in them to get a custom data field

- **Batt%** to get battery % 93.5%
- **BattN%** to get battery % + notifications 93.5% 01
Notification does not show up if device not connected
- **BatN%** to get battery % + notification 93% 01
- **not%** to get notifications 01
- **dateDM%** or **dateMD%** to get date 24/06/20
DM for Day Month, MD for month day 06/24/20
- **dc%** to get day count 183-15:07
Days-hour:min until/to a date you set
- **WJD%** to get week num/days since 01/01 27/183
- **HR%** to get current HR HR 80
- **CW%** to get weather icon+temp B 15°
[CIQ] [GPS] [OWM]
- **alt%** to get the altitude 120
- **city%** to get city name BISCARROSSE
[CIQ] [GPS] [OWM] (needs 1 data field as weather)
- **BBS%** to get Body Battery and Stress [CIQ]
- **RESPI%** to get respiration rate [CIQ]

[PRO] Event Name

EVENT NAME

[PRO] Event Date

1581897600

Event date has to be set in UNIX

Timestamp:

<https://www.unixtimestamp.com/>

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Extra line (1/2):[PRO]

Can be turned off / On Gesture / Always on

1. Status

BT NOT:1 AL:2 DND 99.3%

BT: device connection / NOT: notification / AL: Alarm

DND: do not disturbed (for compatible device) / 99,3%: battery level

2. Weather [CIQ][GPS][OWM]

☁ 15° 59%-7° 1026.0 - E 4

Icon - temp - humidty - dew point - pressure - wind dir - wind speed

Cardinal letter can be turned on degrees.

3. Day Count

EVENT NAME: -181 D -05:56

Timer until/to an event, set the date en time and the title,

use UNIX timestamp: <https://www.unixtimestamp.com/>

4. 5. 6. Last known position

MGRS: military grid format, DEG: N44,000000° W1.000000

DMS: N 44°00' 0.00" W 1°00'0.00"

7. Weather Forecast [CIQ][GPS][OWM]

20-67°☀ → ↘ // 23-64°☁ ↗ ↘

20h: 67° - icon - pressure trend - wind speed trend (trend from now)

23h: 64° - icon - pressure trend - wind speed trend (trend from 20h)

8. Sun Event [GPS]

RISE: 06:25 SET: 21:52

Can be turned to Dawn/Dusk

9. Activity [CIQ]

S:3.0 K:0.2 F:5 A:40 D:1.5

S: steps/1000 - K: Kcal/1000 - F: floors climbed - A: active minutes

D: Distance (km or mi, according your device settings)

From the beggining of the day

[PRO] Extra Line

off

[PRO] Extra Line choice

1.Status

[PRO] Extra Line cycle

1

[PRO] Extra Line color

Dark Gray

On HMDb & GW version Extra Line choice does not exist, put the letter associated with what you want, see [HERE](#) for the letters

[PRO] Wind dir, use deg instead of letter

[PRO] Event Name

EVENT NAME

[PRO] Event Date

1581897600

[PRO] Dusk/Dawn(instead of Sunrise/Sunset)

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1/2

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Extra line (2/2):[PRO]

Cycle

Cycle between option every 2 seconds on gesture mode, Extra line cycle has to be set:

Beside the options on Extra Line choice, number can be found (from 1 to 9), put on Extra line cycle the option you want to be cycled.

*Exemple Extra Line cycle: 278
(2=weather,7=forecast,8=sun event)*

Tips: If a data is wanted to be displayed longer, put twice the number (exemple 2778)

*On HMDb and GW version, numbers are replaced by letters
(1=A, 2=B etc, see Extra Line choice to get the letter)*



[PRO] Extra Line

off

[PRO] Extra Line choice

1.Status

[PRO] Extra Line cycle

1

[PRO] Extra Line color

Dark Gray

[PRO] Extra Line cycle

1

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Extra Line
2/2

CIQ-GPS
PRO

OWM
Weather

Other

HMDb
GW

FAQ

[CIQ] Compatibility

Devices	HR	Floors	Act M	Press/temp	Alt	Weather
App S60	NO	NO	YES	NO	NO	YES
App S62	YES	NO	YES	NO	NO	YES
D2 / F3	NO	NO	NO	NO	NO	NO
F3 HR	YES	NO	NO	NO	NO	NO
FR230-630	NO	NO	NO	NO	NO	NO
FR235	YES	NO	NO	NO	NO	NO
FR245	YES	NO	YES	NO	NO	YES
FR735XT	YES	NO	YES	NO	NO	YES

Only devices with CIQ 3.3.x or 4.1.x (System5) can get datas like VO2, Respiration rate, Body battery, stress, time to recovery, Running/cycling/swimming distance from the beginning of the week,
See [HERE](#) to check your version

[GPS]

Open an activity like running, wait for green GPS signal and go back to the watchface (no need to start it.) !!!It has to be a native app with no CIQ datafile!!! The GPS signal has to be acquired outside,

[PRO]

All function marked [PRO] need a pro code to be unlocked.
If you did a copy past, be sure there is no extra blank space in it,

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Open Weather Map Weather

Weather from Open weather map is a [PRO] feature, check on the [CIQ] if your device is compatible with it (weather)
The device has to be connected to your phone and your phone to internet, Garmin Connect has to run on background.

1. Get API KEY

Follow this link <https://openweathermap.org/price> and suscribe for a FREE account, an API KEY will be sent to you, put it please on OWM API field, the API could take up to 2 hours to be activated
You can find here after suscription: https://home.openweathermap.org/api_keys

2. Location

There is 2 ways to have the location

- Either you follow the [GPS] instruction
- Or to use custom location, go here: <https://openweathermap.org/> and look for your city, open your city page, you will see in the address bar something like: <https://openweathermap.org/city/3032556>
the city ID is 3032556 (in the exemple), put it in the OWM API field in this way
CITY_ID/API_KEY (3032556/0xx00x0000000xx00xx00000x00x0x0)

3. Update

Set the update time in weather update time, in minute,
In order to save battery, the update is initiated with the gesture, everytime you « move » your device, the watchface check if it is time to update and do so if needed.

4. Units

Temperature unit is according to your device settings, Pressure and Wind speed can be set

On some devices (VivoActive4, Legacy Serie) the gesture mode does not work very well, if the weather does not update well, turn on this option,
A trick can be to push twice slowly the bottom right button to activate the gesture mode

[PRO] OWM API

[PRO] weather update time (in minutes)

40

Pressure format

hPa

[PRO] Wind dir, use deg instead of letter

[PRO] Wind Speed Format

m/s

[[INTERNAL TEST: VA4 USERS]

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FAQ

Other.

Power Saving Mode

[PRO]

Simple display which avoid lot of calculation and so battery draining
NOT: notification, AL: alarm.

Can be set to off – according sleeping time (set in Garmin connect) – Always – Do not disturbed (for compatible device) – On Enter Sleep (when you don't look at your device, when gesture mode goes off)

Tactical Mode

[PRO][GPS]

Dark red background with black font which makes it easier to read at night time. (background color can be set)

Can be set to Off – Always on - automatic (according sun Event) [GPS] – according your sleeping time (set in Garmin Connect) – on Do not Disturbed (for compatible devices)

Move bar

[PRO]

Color can be set, 1 big bar = 1 hour without moving then 1 small every 15min until 2hours.

Solar Intensity bar

[PRO]

Color can be set, in %

24hr ring number

[PRO]

Display 24 hour dial mode number on the ring which make easier to read data on this mode.

Left Icon

[PRO]

Display additional data on the left of the main time

- Moon Icon
- Weather
- Status
- Week Number



[PRO] Power Saving Mode

[PRO] Tactical mode (Red/Black)

[PRO] Move Bar

[PRO] Solar Intensity bar (for compatible device)

[PRO] 24hr ring number

[PRO] Left Icon

0956 | SUN 05
99.3%

NOT:1 AL:2



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HMDb version

The HMDb version is the same as TxD but with more functions. PRO code is the same as TxD,

EXTRA FEATURES:

▪ ARROW

- Dual time in 12hour dial mode
- wind direction 2, wind blow direction
- SunEvent inverted (where midnight is 6oclock, noon 12oclock)
- Body Battery
- Stress

▪ DATAS

- NATO date format
- Altitude+pressure
- NATO Dual Time 2, nato format for the dual time 2
- Moon Information with day left until next moon event (full / new)

Age (day left) ¹

- Moon Information 2: age | moon illumination ¹
- Dual time 3
- With temperature, feel like indice (18°/12)
- Step History with daily+6 past day graph, daily step objective progression, daily steps/1000 + rounded distance.

▪ LEFT DATA

- Time to recovery
- Respiration rate

▪ COLORS / LAYOUT

- Option to have minutes thinner on main time
- Option to have a transparent Arrow
- Graph color option
- Option to have seconds on ring (only on gesture)
- wind icon on left Icon (needs one of the other data to be weather)
- Graph with Altitude and Pressure (from sensors if available)
- Option less update; turn it on to save battery (it avoids doing update every sec on gesture mode, turn off extra line cycle and data x.5)
- Minutes marks
- seconds color option (digital+ring)
- Tactical color inverted option

▪ CUSTOM TEXT

- Put NSE% to get the next sun event time
- Put UNSE% to get until next sun event time
- Put ALD% to get Alarm count and DnD status
- Put VISI% to get horizontal visibility (meters or miles) ²
- Put YMD% to get date like yyyyymmdd
- Put LWU% to get minutes since last weather update
- Feel like indice added on CW%
- Put ARHR% [only from CIQ 3.2.x devices] to get Average Resting HR
- Put PRESS% to get barometric trend+pressure
- Put VO2% to get VO2max running+VO2max cycling
- Put TTR% to get Time to recovery
- Put RUN% or CYCL% or SWIM% to get total distance since the beginning of the week (only available for System5 devices)

¹ to avoid huge battery consumption, the calculation is made every 1h, keep in mind the moon cycle is 29,53 days, so it wont be the same age/illumination at 00h than at 20h etc. Values are rounded, 12.5 = 13, 99.5=100 etc.

² not available on GW version

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- EXTRA LINE [PRO]
- On HMDb and GW, number are replaced by Letter
 - A. Status – B. Weather – C. Day Count
 - D. E. F. Last known position (MGRS-DEG-DMS)
 - G. Weather Forecast (6hours) – H. Sun Event – I. Activities
 - J. Date
 - Day of week Day, Month Year [ISO week number-Julian Day]*
 - K. City Name
 - From Garmin Weather (GW) or OWM (HMDb)*
 - R. HR
 - Current HR / Min-Max / Resting-AverageResting (Average CIQ 3.2.x)*
 - S. Sports (only for System 5 devices)
 - Distance from beginning of the week, Running Cycling Swimming*

OTHER:[PRO] FULL AOD mode for AMOLED device option
 Background color has to be black if you want it to work











GW version

Only available from CIQ 3,2,x devices.
 The GW version is the same as TxD HMDb but with Garmin Weather.
 PRO code is the same as TxD.
 In this version, no API needed anymore, to get weather, your device has to be connected to your mobile and your GPS on mobile turned « on », to calculate sunEvents, the mobile GPS is used but can be overridden with last known position.

VARIATIONS:

- DATAS: [PRO]
 - Temperature+precipitation chance [PRO]

- CUSTOM TEXT [PRO]
 - VISI% not available on TxD GW
 - Put MMT% to get min/max temperature of the day [PRO]

- EXTRA LINE [PRO]
 - B. Weather  12° 62% 4° 14% - WNW |
Icon Temperature Humidity DewPoint RainChance – WindDir WindSpeed
 - G. Weather Forecast  20-67°  →  // 23-64°  ↗  ↘
20h: 67° - icon – rain trend – wind speed trend (trend from now)
23h: 64° - icon – rain trend – wind speed trend (trend from 20h)
 - L. Weather Forecats 2  27:  15°/21°  28:  17°/21°
Day+1: icon min t°/max t° Day+2: icon min t°/max t°

SHN TxD

Q: How to set it?

A: here is an useful link which explain everything about settings
: <https://forums.garmin.com/developer/connect-iq/w/wiki/14/changing-your-app-settings-in-garmin-express-gcm-ciq-mobile-store>

Q: How do I use PRO code?

A: you have to put this code in [PRO code] field, if you don't know how to set an app from the IQ store, check this link: <https://forums.garmin.com/developer/connect-iq/w/wiki/14/changing-your-app-settings-in-garmin-express-gcm-ciq-mobile-store>

Q: PRO code does not work?

A: Don't worry it does work, make sure:
- You asked the code for the app you use (each app has its own code)
- You spelled it right (if you did a copy past check if there are no extra blank space in it)

Q: How to get 12hours time format (or 24 hours)

A: the time format is according your device settings, go into them and set your device to appropriate time format.

Q: How to get the right unit(temperature/altitude/distance)

A: the unit is according your device settings, set it in your device and the watchface will be adapted.

Q: Weather does not work

A1: Weather is a PRO features
A2: Make sure you followed all the steps to get it (see description or the mail with pro code)
A3: The API you have to enter on the OWM is the string you can get here: https://home.openweathermap.org/api_keys (after subscribing free account)
A4: if you copied/pasted the API key, make sure there is no extra blank space in it.
A5: Vivoactive 4 users: at this time there is a bug on VA4, still waiting for Garmin fix, if you have the SHN TxD, turn on [VA4 users] option.
A6: Iphone (or some other phones) users: make sure Garmin connect runs on background (see Garmin support page to see how to set your Iphone)
If there was an update (mobile/Garmin Connect) please make sure GC has all the authorization,
A7: The weather update is initiated with the gesture, so it won't update if you let it on a table (iot improve battery consumption)
A8: weather is not compatible for "old" device like Fenix3, D2barvo etc, available from CIQ 2.4,
A9: On some devices/updates, the gesture is linked with the Backlight on gesture behavior, please try to set one of the backlight on gesture on (you could also try to turn on [VA4 user] option.

Q: Something is wrong with position/weather/sun events

A: Please get a new and accurate (outside) GPS signal, sometimes the last known position goes stale and you get wrong weather, location or Sun event times.

SHN TxD

Q: Sun Event: there is around 30min offset on sun events

A: Sunrise and sunset are not the same thing than Dawn and Dusk, check if you turned "on" "use Dawn/Dusk..." option, Dawn/Dusk do not use the same angle for the calculation, it is for aeronautical / tactical purpose.

Q: The Battery time left does not show the same value than Garmin

A: since i don't have access to Garmin data, i put my own calculation which is quite simple but more accurate after few hours, here is how it work:
when you first use it or charge your device, the current battery level and time are saved.
when you look at your device (gesture), the wf checks whether battery level has changed, if yes a calculation is made with current battery level and time and saved ones. (-- or % means not enough data to calculate)

Q: High battery draining after update

A: I've always tried to code in efficient way with less battery impact, sometimes the store does not install correctly the app, here are some trick:
1. try to reboot (off/on) your device (wait for 5min before turning it on)
2. try to uninstall/reinstall app
3. on Garmin connect when you entered your device, long press on the device picture and select update connectivity and sync
4. hard reset: long press on light button (top left) until the device shut down, wait for 5 min, turn it on.
5. Garmin IQ app may drain battery if it runs on Background, close it if you don't use it.
a reboot is highly recommended after a fw update.

Q: Could you please add Sleep data/Next calendar event

A: Unfortunately I can't, those data are not available for 3rd party dev.

Q: The arrow (or 3rd Hand) does not show right value

A: it does, the arrow is according a 24hours dial, where 12oclock stands for midnight, 6 oclock for noon, i.e: if the arrow show 4 oclock, read it 8h00(am). See MAP

Q: There is 1 hour offset on my daycount

A: Probably because you set a date in winter time and you are now in summer time (DST) or the opposite.

Q: Nothing works! Or IQ logo

A: Before contacting me, please try to reboot your device and pone or uninstall and install again the watchface,

Q: How can I go back to the default settings?

A: Please uninstall and reinstall it, it will bring it back to default (keep in mind it will delete PRO code etc)

Q: How can I get the minutes marks?

A: the regular TXD does not have minutes marks, only the HMDB and GW version have this option. The small mark you could see on pictures might belong to Arrow=> SunEvents

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