

# **Islandix Wheel Analytics**

## **Instruction Manual**

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Vancouver Island, Canada

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## Message from the maker

These tools are the product of four years of development. Building Wheel Analytics was a pleasure but the stamina to see it through was sustained by hundreds of wheelbuilds for paying customers across Canada. We're gratified with the result, as a toolmaker and as our own customer. We hope you feel the same.

Your feedback is vital. It shapes future direction — Islandix tools are software upgradable so your investment stands to gain value as it pays you back. Comments, criticisms and complements are solicited at [support@islandix.com](mailto:support@islandix.com).

Thank you for your purchase.

# Specifications and requirements

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*Wheel Analytics takes raw data from digital indicators and makes it available on the network in the form of visualizations for building wheels.*

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Wheel Analytics reads data from Mitutoyo and Mitutoyo-compatible digital indicators.

Wheel Analytics is a network device that interconnects via Wifi or USB. It's compatible with 802.11b/g/n wireless networks on the 2.4GHz spectrum, with or without WPA2 encryption. Wheel Analytics supports wired networking via USB where compatible system drivers exist. It supports ECM, NCM and RNDIS interfaces.

Visualizations are designed for modern desktop and mobile browsers.



Wheel Analytics **does not** require internet access. In workshops without internet access or in cases where an internet uplink is temporarily down, Wheel Analytics functions identically. It operates entirely on site — no cloud required.

## Kit contents

Quantity	Description
1	Islandix WA-1 controller
1	Islandix FP-2 duplex foot pedal with builtin 3m/9ft cable
2	Mitutoyo 1m / 40in Digimatic SPC data cables
1	USB power supply
1	USB cable
1	Printed manual
2	Optional: Mitutoyo or Mitutoyo-compatible digital indicators with Digimatic SPC interface (\$)
1	Optional: Indicator roller contact point for lateral inspection (\$)
1	Optional: Indicator flat contact point with extension for radial inspection (\$)

# Physical setup

Islandix Wheel Analytics is an upgrade for truing stands. It's designed to work with any stand with support for mounting dial indicators. Use the existing mounting pattern as a guide for attaching digital indicators. Stands without specific provisions for mounting indicators can often be adapted using magnetic indicator mounts.

## Example 1

Alice's Bike Shop has a Park Tool TS-2.2 truing stand with the TS-2Di dial indicator kit. When purchasing Wheel Analytics, Alice took Mitutoyo 543-782 indicators. The supplied Mitutoyo digital indicators are 1:1 swaps for the Park Tool analog dial indicators. They mount in the same way, re-using the existing M5 mounting hardware. The process takes under 5 minutes. The Mitutoyo data cables included with Wheel Analytics are used to connect both indicators to the WA-1 controller (see *Figure 1*).

## Example 2

Bob's Bike Shop has a Park Tool TS-4.2 truing stand with the TS-2Di dial indicator kit. Bob didn't purchase indicators with Wheel Analytics, preferring to source economy iGaging 35-705-10 digital indicators instead. Unlike indicators bought direct from Islandix, iGaging indicators do not include contact tips suitable for wheel work. Bob needs to transfer the contact tips from his Park Tool indicators first. Then the iGaging indicators are installed in the same way, re-using the existing M5 mounting hardware. The process takes about 15 minutes. The Mitutoyo data cables included with Wheel Analytics are used to connect both iGaging indicators to the WA-1 controller.



The contact tips pre-installed on Park Tool dial indicators use non-metric hardware. The radial tip requires a non-metric hex wrench to remove. iGaging indicators use identical threading so the tips are directly transferrable.

## Example 3

Carol's Bike Shop has a Bonanza Bike truing stand. This fixture is a generic model with no specific support for indicators. The truing stand itself is steel so Carol purchased magnetic indicator mounts from Amazon and will use these to attach indicators.

# Connection options

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*Wheel Analytics moves the truing stand to the local network. Means of attaching to the network are flexible to meet the needs of most installations. On the network wheelbuilding tools are accessed using a web browser.*

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There are two options for linking with Wheel Analytics: wireless and wired networking. Stress tests in the Islandix lab indicate no performance difference between these options. Very little bandwidth is used in either case.

The typical configuration is to attach Wheel Analytics to the existing network using Wifi. This allows any wireless device to control the truing stand including laptops or tablets that may be co-located with the truing stand only when in use. Wifi networking is compatible with the widest range of devices. Wireless networking is documented in the sections immediately following.

Wireless networking may be difficult in areas of high radio interference or poor router signal strength. In challenging cases or as a matter of preference Wheel Analytics may be accessed using USB networking. USB networking is dependent on driver availability on the connected computer. Due to the diversity of computer configurations, technical support for USB networking is limited. Wired networking using USB is documented on page 13.

Hybrid installations are also possible. For example a dedicated truing stand display device may be connected using USB with Wifi also enabled to support other displays that may be used from time to time.

# Connecting for the first time wirelessly

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*In its factory configuration Wheel Analytics creates a captive hotspot network like those in hotels however the hotspot only serves wheelbuilding applications (no general internet access). The system may be configured for the first time using the hotspot.*

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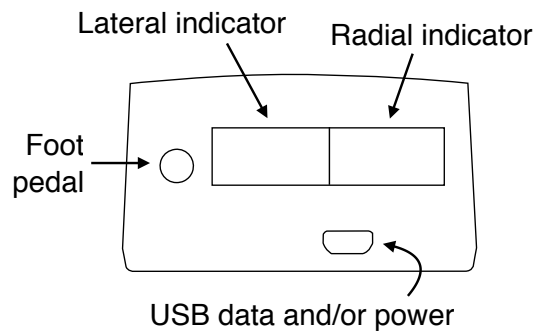
To connect using the hotspot network:

1. Apply power using the included USB power supply per *Figure 1* below.
2. Wait 60 seconds for the system to initialize and create the hotspot network.
3. Scan for wireless networks from your wireless device.
4. Connect to the *Truing Stand* network using WPA2 password *truelove* (eight letters).



Depending on the client device a hotspot popup browser will typically appear. For best compatibility it's recommended to close this window and invoke your preferred web browser as normal. If you are warned about staying connected to a network that does not provide internet access, dismiss or disregard it and remain connected to *Truing Stand* for now.

5. In your browser visit an arbitrary nonsense site such as *http://abc.example.com/* and the system will redirect to the Wheel Analytics welcome screen. From here you can run applications, configure the system and update its software.



*Figure 1: Connection diagram*



## Figure 2: Settings

The following sections concern the setup and configuration of Wheel Analytics. For reference a copy of the single-page settings screen is reproduced here.

	Local	Factory
Country	Canada	Canada
Hostname	truingstand	truingstand
Act as a wireless hotspot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Announce hotspot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hotspot network name	Truing Stand	Truing Stand
Hotspot network password	.....	truelove
Join existing wireless network	<input type="checkbox"/>	<input type="checkbox"/>
Wireless network name		
Wireless network password		
Wireless network configuration	DHCP Static	DHCP Static
Wireless IP address		
Wireless subnet mask		
Wireless router IP address		
USB IP address	192.168.3.1	192.168.3.1
Check for updates	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lateral gauge position	Left Right	Left Right
Target tolerance	0.50mm	0.50mm
Hide numerical markers	<input type="checkbox"/>	<input type="checkbox"/>
Spoke tension units	Newtons	Newtons
Play audio tones	<input type="checkbox"/>	<input type="checkbox"/>

# Linking with an existing wireless network

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*It's helpful to integrate Wheel Analytics with the existing wireless network in your workshop. Doing so allows your devices to access the internet and wheelbuilding applications at the same time without switching networks.*

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To link with an existing wireless network:

1. Connect to the *Truing Stand* network as described in the previous section.
2. Switch to the *Settings* tab on the Wheel Analytics main screen.
3. Select the checkbox to *Join existing wireless network*.
4. Enter the name and, if applicable, WPA2 password for your wireless network.
5. Commit changes by clicking *Save and restart*.

These steps are sufficient to connect Wheel Analytics to your network but not necessarily sufficient to allocate a known address on your network. See the next section for establishing coordinates to access Wheel Analytics.

# Addressing on the network

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*Wheel Analytics can be located on the network by peer-to-peer means or by conventional IP addressing. The appropriate method(s) depend on the client devices used to access Wheel Analytics.*

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## Peer-to-peer addressing

This style of addressing is most straightforward since it requires no further configuration. The address URL entered in the client web browser is based on the *Hostname* field in the *Settings* tab—each Wheel Analytics system on the same network should have a unique hostname. The default is *truingstand*.

There are two possible automatic addresses depending on the standard(s) supported by a given client. Because these addressing modes are automatically configured, try them first in preference to conventional IP addressing, described next.

Standard	Default address URL	Client compatibility
Zeroconf	http://truingstand.local/	Apple Mac OS, Apple iOS, Linux, other systems
LLMNR	http://truingstand/	Microsoft Windows, Linux, other systems



Some browsers may incorrectly interpret a peer-to-peer address as a search query. To avoid this problem enter the complete address starting with *http://...*

## Conventional IP addressing

Otherwise most wireless networks are configured to assign IP addresses automatically using DHCP. Wheel Analytics supports this scheme, which requires no additional configuration out of the box. While convenient, DHCP comes with the risk that the wireless access point (router) may assign a different address in the future.

To guarantee a constant and predictable IP address, it's helpful to reserve an address for Wheel Analytics in your DHCP configuration. This takes place on your router. Look for a table that maps wireless hardware addresses, also called MAC addresses, to IP addresses. The unique wireless address for each Wheel Analytics system is given on the *Help* tab under *Hardware*. The address is six pairs of alphanumeric characters separated by colons in a form like *B8:27:EB:0A:07:6E*.

Alternatively you may assign an IP address to Wheel Analytics explicitly. On the *Settings* tab, set the *Wireless network configuration* option to *Static*. This enables the subsequent three fields, which may be configured according to your network.

# Deactivating the hotspot

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*If Wheel Analytics is connected to an existing wireless network, the hotspot network may be deactivated. It is recommended that new installations leave the hotspot enabled for a period to ensure the primary wireless connection is stable.*

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To deactivate the hotspot entirely:

1. Connect to Wheel Analytics over the existing wireless network.
2. Switch to the *Settings* tab on the main screen.
3. Unselect the checkbox labelled *Act as a wireless hotspot*.
4. Commit changes by clicking *Save and restart*.

## Restricting the hotspot

As an alternative to deactivating the hotspot entirely, Wheel Analytics can be configured to suppress network announcements by unchecking *Announce hotspot* in the *Settings* tab. Doing so will prevent the hotspot from appearing as an available wireless network. In this case the hotspot network remains functional however its name must be entered manually in order to connect (not chosen from a list). The default hotspot name is *Truing Stand* but can be changed in the *Settings* tab—ensure each Wheel Analytics system in common radio range has a unique hotspot name.

## Securing the hotspot

For security purposes the default hotspot password can be changed on the *Settings* tab—the default password is *truelove*. This is a write-only interface, allowing the password to be updated but not read back. In the Islandix lab the hotspot password is changed to match the password of the main Wifi network as an aid to memory.

# Connecting with USB

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Wireless networking may be impossible in some environments. For operation in areas saturated with radio interference, such as a trade show or near a power station, there is an alternative to wireless networking—wired networking over USB.

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To connect using USB:

1. Connect Wheel Analytics to a client system using the USB data port per *Figure 1*.
2. Wait 60-90 seconds for the system to initialize and be detected.
3. In your preferred browser navigate to `http://192.168.3.1/`.



Wheel Analytics presents itself as a network adapter connected via USB. This scheme depends on the host computer to provide a device driver, which has shown good results with Mac OS, Windows and Linux. Compatibility depends on the host system and is not guaranteed.



Wheel Analytics supports ECM, NCM and RNDIS variants of USB network adapters in a wide-ranging effort to connect with a compatible system driver. Some platforms may have drivers for more than one of these personalities, which may cause Wheel Analytics to be listed more than once — this is harmless.

The IP addressing method in Step 3 always works over the wired USB connection. The peer-to-peer addressing schemes described earlier also work depending on the client device. Again the address URL is based on the *Hostname* field in the *Settings* tab.

Standard	Default address URL	Client compatibility
Zeroconf	<code>http://truingstand.local/</code>	Apple Mac OS, Apple iOS, Linux, other systems
LLMNR	<code>http://truingstand/</code>	Microsoft Windows, Linux, other systems



Some browsers may incorrectly interpret a peer-to-peer address as a search query. To avoid this problem enter the complete address starting with `http://...`

## Troubleshooting

Most systems will automatically detect and configure inserted USB network devices. If Wheel Analytics does not become available automatically, your system may need manual intervention (some systems are configured this way by choice). Look for a new device in your list of detected ethernet adapters and attempt to enable it. Then repeat the procedure described above.

# Software updates

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*Applications may be added or improved with downloadable software releases. After configuring Wheel Analytics, updating to the latest release is recommended to take advantage of new features and performance enhancements.*

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To update the system software:

1. Download the latest package from <https://www.islandix.com/downloads>.
2. Switch to the *Update* tab on the Wheel Analytics main screen.
3. Click *Select file* and choose the previously downloaded software package.

The system will indicate its progress and return to the welcome screen on completion. At this point Wheel Analytics will be running updated software. The version number is listed at the top of the welcome screen.



A client device connected via the hotspot may revert to another wireless network when Wheel Analytics resets. If using multiple wireless networks, reconnecting to the hotspot may be required after a software update. This is not a concern if Wheel Analytics is accessed over your primary wireless network or over USB.

## Automatically check for updates

If internet access is available, Wheel Analytics can check if a software update is available and facilitate installation without leaving the main screen. If *Check for updates* is selected on the *Settings* tab, a banner will appear when updates are ready to install.

# Factory reset procedure

If Wheel Analytics is moved to a new workshop with a new Wifi network, it might become inaccessible if the hotspot function was previously disabled. As a remedy Wheel Analytics can be instructed to boot using factory default settings, which enables the hotspot and allows access in the manner described earlier.

To boot in factory default mode, depress both FP-2 pedal buttons and power the WA-1 controller by connecting its USB cable. Keep both pedal buttons depressed for 60 seconds after applying power. Connect to the *Truing Stand* wireless network (password: *truelove*). The out of date configuration can then be corrected and saved.



The factory reset procedure described above relies on software released September 2021 or later. Update to version 1.0.4 or later to make this facility available on your tool. WA-1 controllers running older software follow a different reset procedure. For advice, contact [support@islandix.com](mailto:support@islandix.com).

# Wheelbuilding applications

Wheel Analytics includes multiple visualizations, which are useful in different circumstances. For ordinary truing the Target Plot tool is recommended. It's suitable for the entire truing process from beginning to end. The Augmented Indicators tool is useful when only a single indicator is connected, for example checking lateral alignment with a tire installed. It may also be preferred for occasional users who only inspect wheels or make small adjustments.

Tensiometer applications have different use cases. They may be used to inspect wheels to determine whether repairs are needed (i.e. book services). Tensiometer applications may also be used to validate repairs or verify a wheelbuild has been completed to shop standards. In all cases PDF artefacts can be generated for your records or sharing with customers

The remainder of this manual concerns the operation of wheelbuilding tools included with Wheel Analytics. Please see the eight minute video at <https://www.islandix.com/video> as a companion.



## Tips and tricks

1. On small rectangular screens some visualizations may function better by rotating between landscape and portrait orientations.
2. Capture your work for archival purposes or for sharing with customers by saving as PDF. Invoke the browser *File > Print* feature and save as PDF from there. Printouts are condensed versions of each visualization excluding user interface elements.

## Indicator truing

1. On rims with a pronounced joint or a decal that straddles the entire profile across the joint, it can be helpful to orient the build from there instead of from the valve hole. Scan the wheel beginning immediately after the joint and take a snapshot of the wheel immediately before returning to the joint. If this proves counter-intuitive, install a small piece of masking tape over the joint as a reminder.
2. Some rims may present defects (e.g. seam, decals, etc.) on one side of the wheel only. Relocating the indicator or flipping the wheel in the truing stand to indicate alignment from the opposite side is sometimes helpful.

## Using digital indicators

1. Better digital indicators are able to produce 10-11 readings per second. To generate a representative picture of the wheel, allow 3-4 seconds per rotation in the truing stand when taking measurements. The slower the wheel is turned, the more accurate the result. Indicators are sensitive to inertia so use a gentle touch.
2. If a digital indicator appears to be malfunctioning, it's often the case the battery is no longer supplying adequate current. Replace the battery and retry.

# Target Plot

The Target Plot tool is the big vision of Wheel Analytics. It's a unified view of lateral and radial alignment, a visualization designed to promote improvement of both dimensions at once. It may be unfamiliar but the builtin AI tutor is there to help with suggested actions (see the diagram on the following page and the video starting at 7:00).

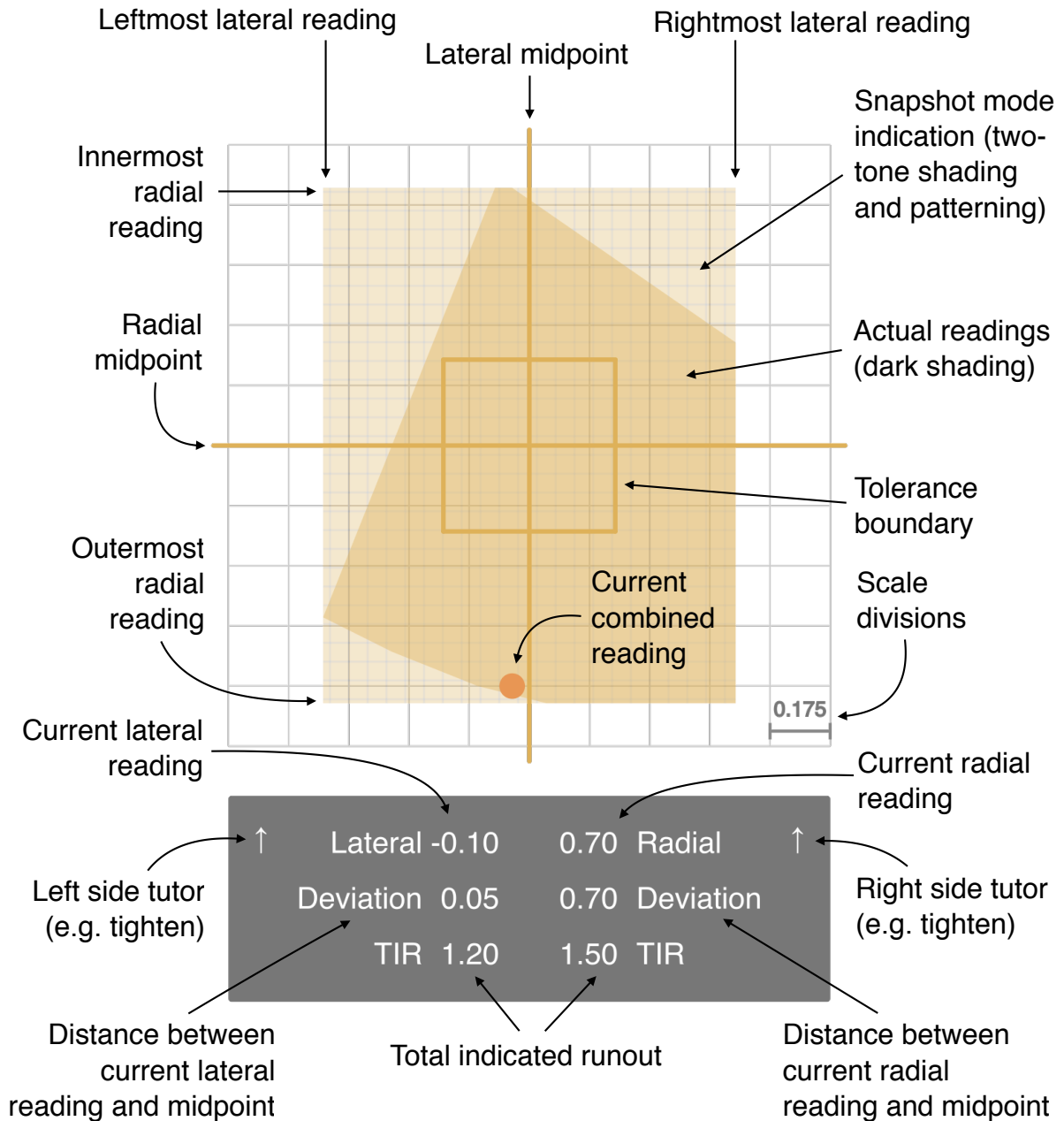
The interface has two commands: *Snapshot* and *Clear*. The *Snapshot* command suspends the accumulation of readings in order to manipulate the wheel. It also recenters and rescales the display based on readings taken. The *Clear* command discards recorded readings so new ones can be taken and the process repeats. These commands can be signalled in various ways depending on the hardware available:

Input	Snapshot command	Clear command
Foot pedal	Momentarily tap either pedal	Same, hold depressed 0.5s
Keyboard	Momentarily press spacebar	Same, hold depressed 0.5s
Mouse	Momentarily click left mouse button anywhere	Same, hold depressed 0.5s
Touchscreen	Momentarily tap screen anywhere	Same, hold depressed 0.5s

The basic operating procedure is:

1. Load the Target Plot application from the Wheel Analytics welcome screen.
2. With the digital indicators in position, spin the wheel.
3. Signal the *Snapshot* command.
4. Rotate the wheel, navigating to a location in need of adjustment.
5. Make a correction (early in the process make multiple corrections).
6. Signal the *Clear* command and repeat the process until the wheel is complete.

# Figure 3: Target Plot legend



*All figures in millimeters*

# Augmented Indicators

The Augmented Indicators tool is an alternative truing application. It features independent lateral and radial indicators, representationally similar to indicator-equipped truing stands of the past. Wheel Analytics indicators have special features for wheelbuilding such as scales that zoom automatically, scales that zero automatically, history tracking and tolerance verification.



This application is the right choice when working with the radial indicator disconnected as one might do during an inspection or basic repair. It's also suitable for disc brake rotor truing if a digital indicator can be suitably fixtured.

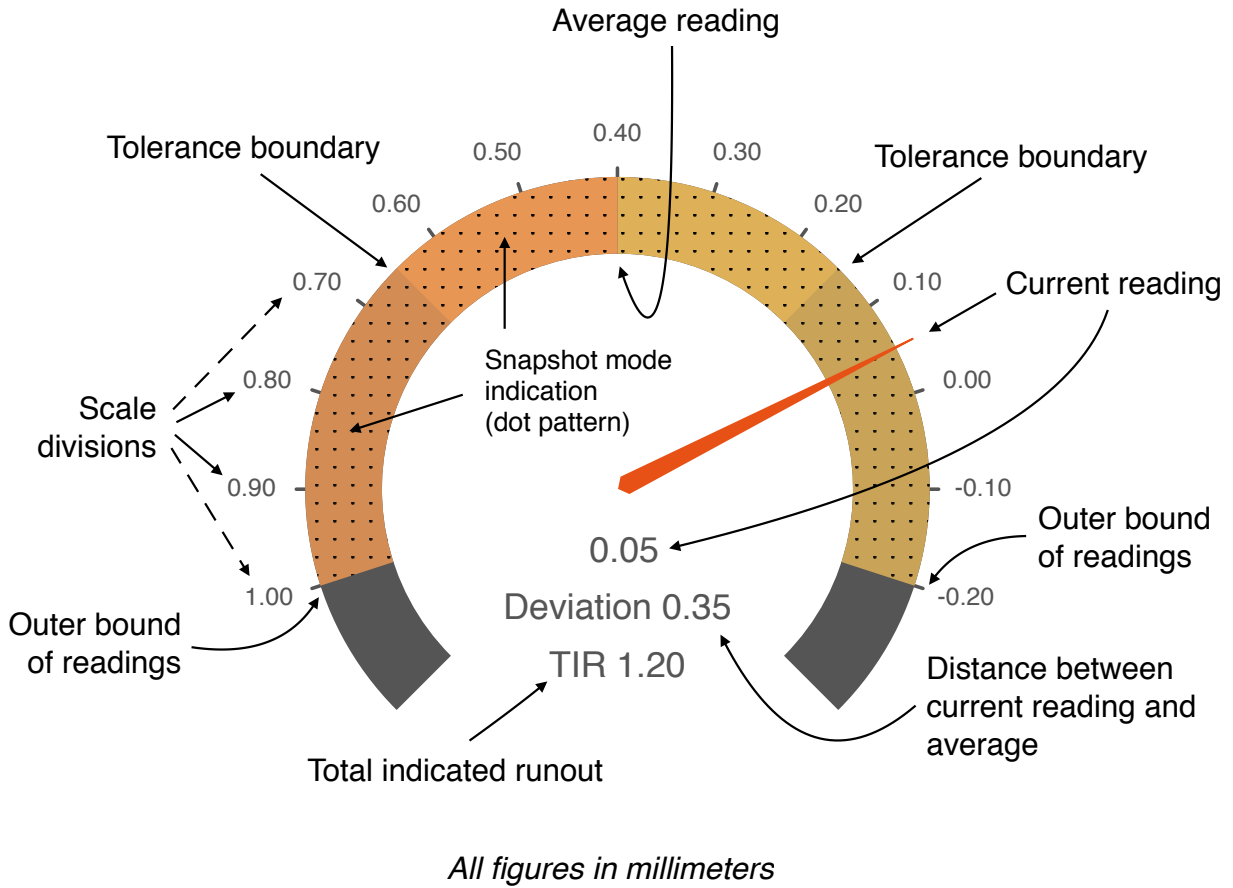
The interface has two commands: *Snapshot* and *Clear*. The *Snapshot* command suspends the accumulation of readings in order to manipulate the wheel. It also recenters and rescales the display based on readings taken. The *Clear* command discards recorded readings so new ones can be taken and the process repeats. These commands can be signalled in various ways depending on the hardware available:

Input	Snapshot command	Clear command
Foot pedal	Momentarily tap either pedal	Same, hold depressed 0.5s
Keyboard	Momentarily press spacebar	Same, hold depressed 0.5s
Mouse	Momentarily click left mouse button anywhere	Same, hold depressed 0.5s
Touchscreen	Momentarily tap screen anywhere	Same, hold depressed 0.5s

The basic operating procedure is:

1. Load the Augmented Indicators application from the welcome screen.
2. With the digital indicators in position, spin the wheel.
3. Signal the *Snapshot* command.
4. Rotate the wheel, navigating to a location in need of adjustment.
5. Make a correction (early in the process make multiple corrections).
6. Signal the *Clear* command and repeat the process until the wheel is complete.

# Figure 4: Augmented Indicators legend



# Live Tensio

The Live Tensio tool offers a range of functions for digital tensiometers. Its most visible function is to read deflection measurements from a connected tensiometer and convert those to tension values in real time. Live Tensio does so continuously without the need to explicitly transmit each reading. It's capable of showing conversions for two spoke models at once, useful for wheels built with different spoke models on opposite sides of the wheel.

Connect your tensiometer by borrowing the data cable from either indicator. After choosing Live Tensio from the Wheel Analytics welcome screen, press the orange button on the chosen data cable to designate that port for readings.

Live Tensio has two commands: *Record* and *Clear*. The *Record* command assigns the current reading to ongoing tallies of readings. This command has two variants depending on the side of the wheel of the sample being taken. *Clear* discards recorded readings. These commands can be signalled in multiple ways:

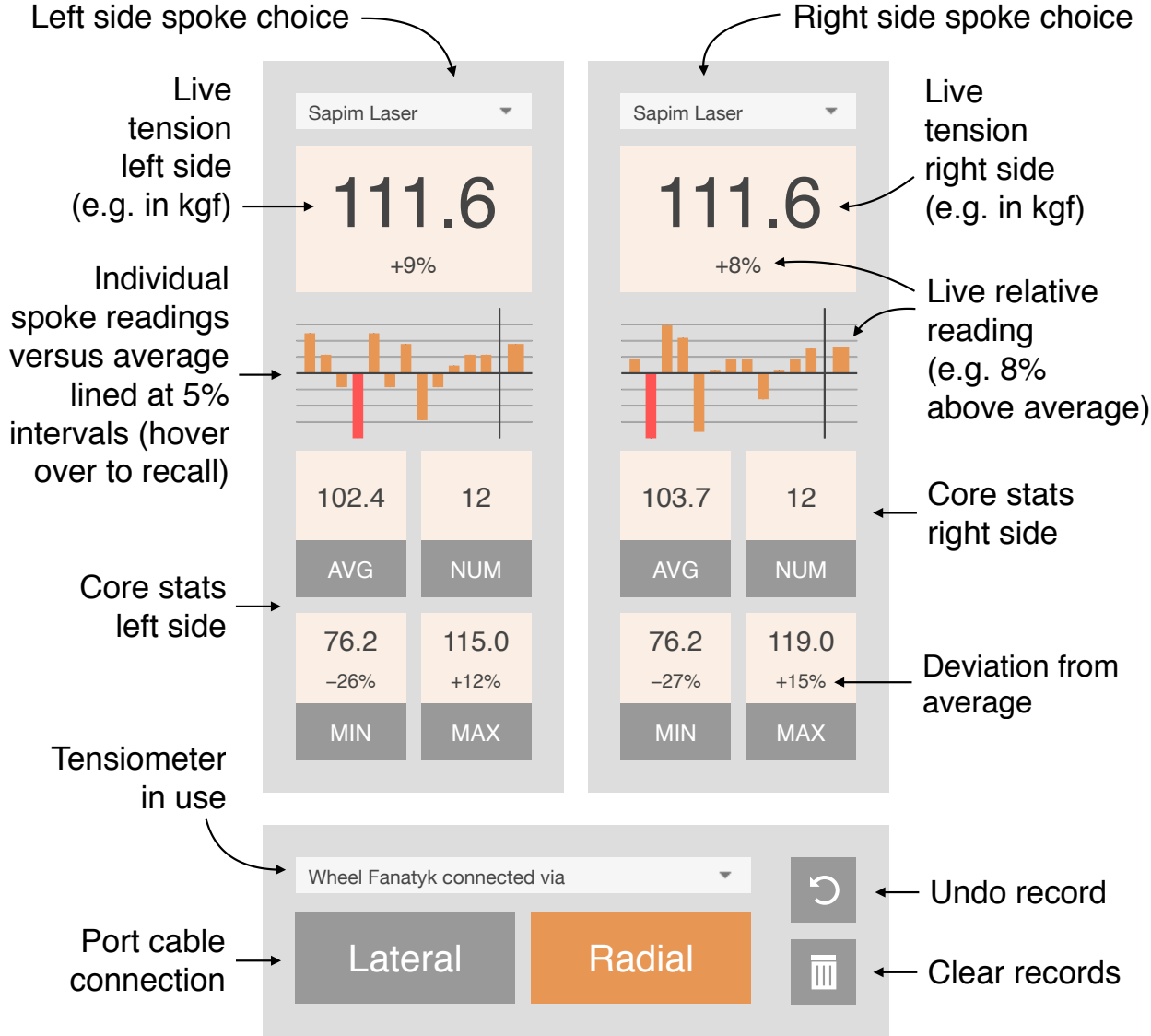
Input	Record left/right reading command	Clear command
Foot pedal	Momentarily tap left/right pedal	Same, hold depressed 0.5s (1.0s to clear both)
Keyboard	Press left/right arrow key	Press keyboard delete key (not backspace)
Mouse	Click left/right reading with left mouse button	Click trashcan with left mouse button
Touchscreen	Tap left/right reading	Tap trashcan

The numbers of readings for each side of the wheel are listed with min/max/avg. Min and max are annotated with percentages from their respective averages. See the diagram on the following page for a visual explanation.

Once readings have been recorded for a given side of the wheel, a bar chart illustrates tension deviation for that side. Each horizontal line on the scale represents 5% deviation from the average. Deviations for each spoke are illustrated with vertical bars. Values beyond  $\pm 20\%$  are highlighted in red. At the far right of the image, deviation is shown for the live reading in the same manner. Hovering a mouse over any reading (or tapping the same on a touchscreen) displays its numerical value.

Live Tensio can be configured to *Play audio tones* by checking that label on the *Settings* tab (see *Figure 2*). In this configuration the software will beep when a reading is recorded. Triggering readings by foot pedal and receiving confirmation by audio tone allows the wheelbuilder to focus exclusively on the wheel and tensiometer. Support for playing audio tones is browser dependent.

# Figure 5: Live Tensio legend



*Figures in Newtons or kilogram-force (shown) by configuration*

# Tensiometer setup

Live Tensio interfaces with tensiometers equipped with a suitable digital indicator, meaning a Mitutoyo or compatible part with Digimatic SPC data output. Additional indicators may be purchased from Islandix for retrofitting tensiometers.

Deflection conversion charts specific to each tool are entered by selecting *Edit* at the bottom of any dropdown menu in Live Tensio. Charts for multiple tensiometers can be stored in the system simultaneously. Each tensiometer can have conversions for any number of spokes. The system ships with an example chart for Wheel Fanatyk tensiometers but you may alter, replace or supplement this chart.

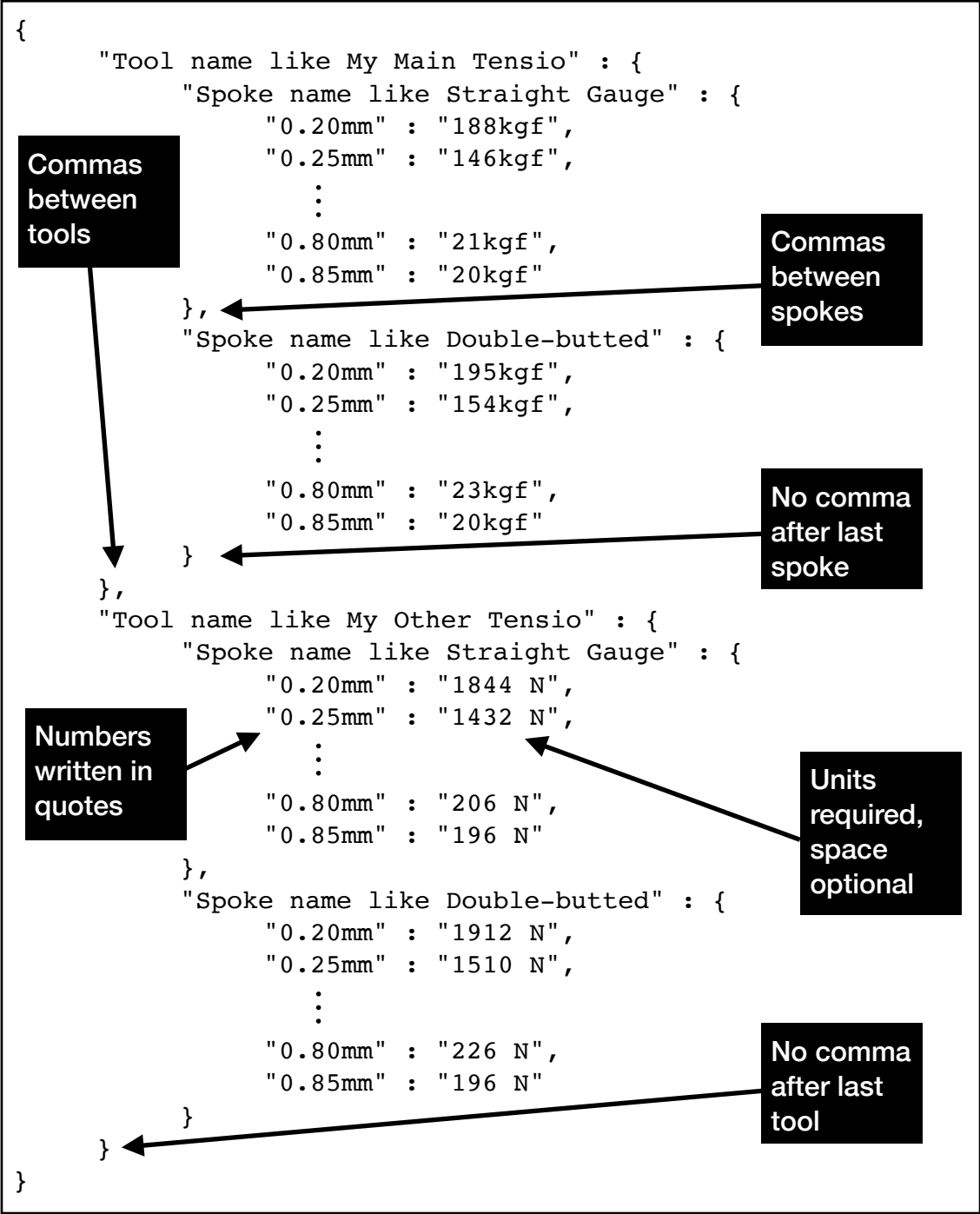


Live Tensio will default to the first-listed tensiometer and first-listed spoke. Listing your most commonly used spoke first can be a small timesaver.

The following figure is an annotated configuration for descriptive purposes. Adapt it for the tensiometer(s) and spoke(s) in your shop. Don't be intimidated — the edit window will check your work and help by pointing out errors by line number. A typical mistake is too many or too few commas/colons/braces/quotes in the vicinity of the mentioned line.



# Figure 6: Entering conversion charts



# Keyboard Bridge

The Keyboard Bridge tool is designed to support legacy tensiometer applications, namely those that function by entering deflection readings into a spreadsheet or other information system. It provides an emulated USB keyboard output function normally provided by specialist hardware like Mitutoyo part IT-016U and compatibles.

As an improvement over existing systems, Wheel Analytics allows each transmission to be terminated with a choice of characters. The options are *Return*, *Tab* and *Space*. Typing any of these characters on the display device keyboard will instruct the system to follow readings with that keystroke. Clicking each of the onscreen options has the same effect. Touchscreen devices may tap these locations too.

There is only one operational command and that is to *Send* the current reading:

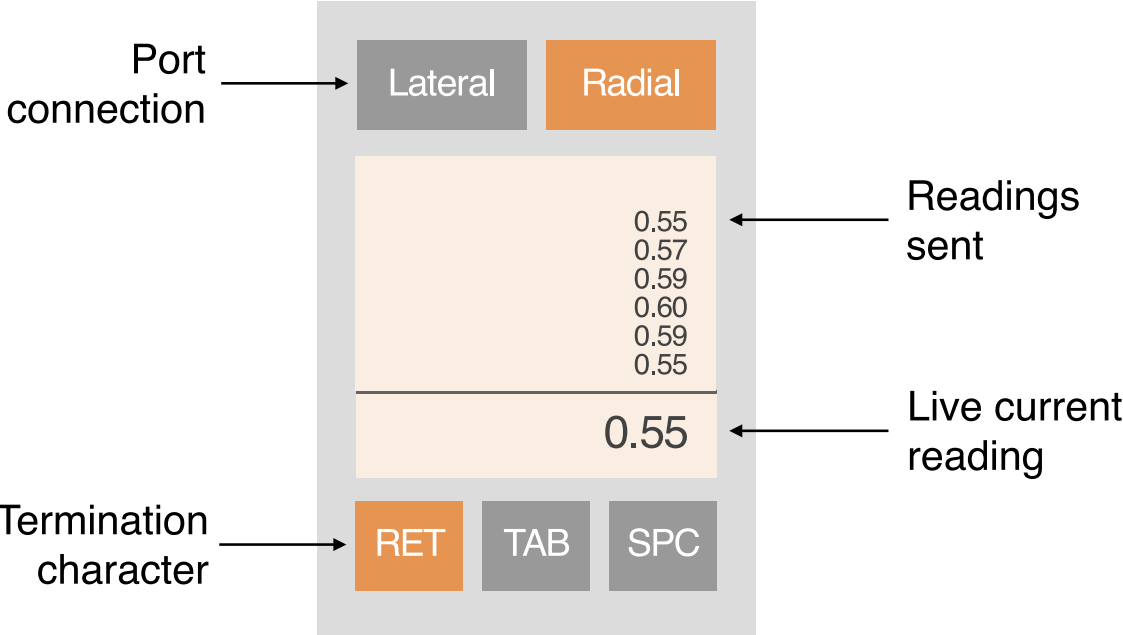
Input	Send command
Foot pedal	Tap either pedal
Data cable	Press orange button on data cable
Keyboard	Press up arrow key
Mouse	Click display output area with left mouse button
Touchscreen	Tap display output area

The basic operating procedure is:

1. Connect to a computer using a USB cable according to the diagram in *Figure 1*.
2. Move the lateral or radial indicator data cable to the tensiometer.
3. Indicate the chosen port by pressing the orange button on the data cable.
4. Signal the *Send* command when ready to transmit the shown reading.

Keyboard Bridge can be configured to *Play audio tones* by checking that label on the *Settings* tab (see *Figure 2*). In this configuration the software will beep when a reading is recorded. Triggering readings by foot pedal and receiving confirmation by audio tone allows the wheelbuilder to focus exclusively on the wheel and tensiometer. Support for playing audio tones is browser dependent.

# Figure 7: Keyboard Bridge legend



*All figures in millimeters*

# Reporting issues

If an application appears to be working incorrectly, it's helpful to replicate the problem using other equipment. This includes using a different browser on the same device or connecting from a different device altogether. Reports of browser and system compatibility issues are welcome.

Please report issues by email to [support@islandix.com](mailto:support@islandix.com). It's helpful to describe the equipment being used with Wheel Analytics such as operating system and browser. Screenshots or photographs of screens are helpful in some cases. Please mention your version of Wheel Analytics software, which is printed on the welcome screen. If you are not running the latest software release, you will be asked to upgrade as the first step in any problem resolution (for efficient service please do this before emailing).

Islandix does not use a junk email filter so be assured your message will arrive. Each new support topic receives an email acknowledgement confirming receipt. If you don't see an automatic reply within 70 minutes, please check your junk mail folder. Mark found messages as non-junk to prevent misfiltering in the future. Adding [support@islandix.com](mailto:support@islandix.com) to your address book may help on some systems.



Replying to an old email will not trigger an autoreply so prefer a new message for a new topic. Note: autoreplies are generated for regular emails only — messages sent through the [islandix.com](https://www.islandix.com) website contact form do not receive autoreplies.

If you prefer or in the case of email problems, Islandix support may be contacted by direct message on Instagram (@islandixinstruments), Twitter (@islandixsupport) or Facebook. Response times on these channels is less timely than email, particularly outside business hours or during special events.

Support is available in English but don't hesitate to contact Islandix if you aren't fluent in English — we will make it work. Communication with apps that support photo and video sharing may be preferred if language is a challenge.

## Legal

- I. Limitation of liability. In no event shall Islandix Instruments Corporation, its directors, employees or suppliers be liable for damages whether direct, indirect, consequential, incidental, special, strict tort, owing to negligence, or on any other legal theory, including but not limited to damages arising from physical injury to persons or property in the course of use or mis-use of products sold or serviced.
- II. Jurisdiction. All parties unconditionally and irrevocably agree the sole venue for claims or disputes is the courts of the Province of British Columbia at Victoria, Canada. Without regards to principles of conflicts of law, the laws of the Province of BC shall govern all matters arising from or related to transactions with Islandix.

## Warranty

- I. Trial period. Wheel Analytics is warranted for satisfaction and compatibility for 30 days from the date of delivery. Within this period returns are accepted for any reason. Please email [support@islandix.com](mailto:support@islandix.com) to arrange a return. Upon return of goods in new condition in their original packaging, a refund will be processed for the original purchase amount less the actual cost of outbound shipping.
- II. Guarantee. Islandix-manufactured equipment, including the WA-1 controller and FP-2 foot pedal, is warranted against defects in manufacturing for a period of two years from the date of purchase. Accessories bundled with Wheel Analytics such as indicators and cables are warranted free of defects for one year from purchase. At our discretion Islandix Instruments Corporation will repair or replace any components determined to be defective. Warranty terms are extended to the original purchaser and include one-way shipping by postal airmail or a freight subsidy of the same value.