Klamath Basin Fisheries Collaborative

SERIALMAGIC KEYS

Software Application Instructions

Prepared by Pacific States Marine Fisheries Commission

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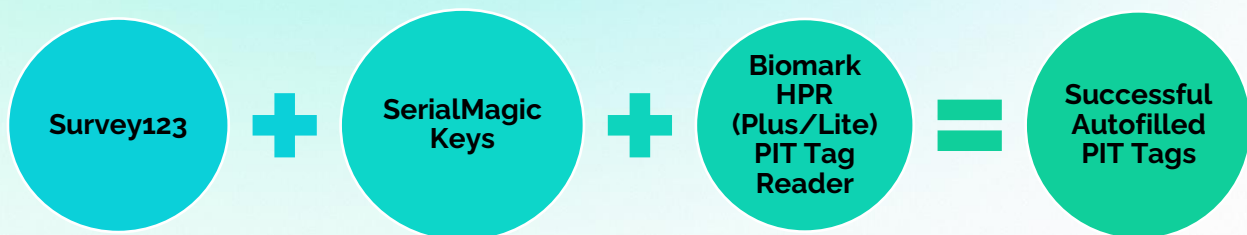January 03, 2026

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Basin
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**Pacific States Marine
Fisheries Commission**
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Purpose

SerialMagic Keys is a software application that provides a straightforward solution for transferring data from wireless readers, scales, sensors and meters into other electronic devices that accept keystrokes, such as cell phones and tablets. When used in conjunction with ESRI Survey123 the software enables users to scan Passive Integrated Transponder Tags (PIT Tags) to automatically populate fields within electronic data forms, thereby saving time and reducing transcription errors.

The following document provides steps for downloading and setting up SerialMagic Keys to pair with Biomark HPR Plus and Biomark HPR Lite handheld PIT Tag readers, as well as the Klamath Basin Fisheries Collaborative (KBFC) Survey123 electronic data forms.

Survey123 **+** **SerialMagic Keys** **+** **Biomark HPR (Plus/Lite) PIT Tag Reader** **=** **Successful Autofilled PIT Tags**

1. SerialMagic Keys Application Software

SerialMagic Keys is available through Google Play, Apple Store and directly from the SERIALio developer. Download the software that works with your device's operating system.

Important Note: **The application software is free to download**; however, a specific portion of the application must be purchased to enable the transfer of PIT Tags from Biomark HPR Plus or HPR Lite handheld PIT Tag readers. *See Step 3: Purchase "More Supported Scanners" within SerialMagic Keys for further instructions*.

Google Play
[SerialMagic Keys Pro - Apps on Google Play](#)

Google Play (Android)

Apple Store
[SerialMagic Keys on the App Store](#)

Currently Not Available to use with PIT Tag readers
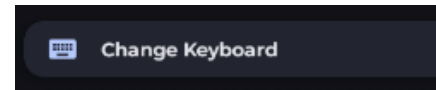
Apple Store (Apple)

SERIALio SerialMagic Downloads
[SerialMagic - Serialio](#)

SERIALio Website

2. Getting Started- Keyboard Setup

1. Open the installed application.
2. Select the pulsing "Change Keyboard" button. The pop-up *"Please enable 'SerialMagic Keys Pro' Keyboard on the next screen, to make it an available keyboard. Press 'Back' once enabled"* will appear, select "OK"

3. The device Settings: *Keyboard list and default* will appear on your screen. Turn on "SerialMagic Keys Pro" using the toggle. Hit the "Back" button on your device to be redirected back to the Serial Magic Keys application.
4. Select the pulsing "Change Keyboard" button again and select "SerialMagic Keys Pro" as the input method.

Note: The following examples are based on an Android device. Follow similar instructions based on the device operating system you are using.
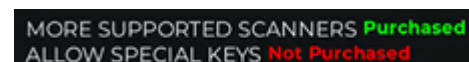
3. Purchase "More Supported Scanners" within SerialMagic Keys

To facilitate the transfer of PIT Tags from a Biomark HPR Plus or HPR Lite handheld PIT Tag reader, a specific portion of this application must be purchased. This is a one-time purchase per device. There are two ways this purchase can be done: directly through the application on your device or through the software developer.

Important Note: Contact the individual responsible for purchases within your agency for clarification on the appropriate method for purchasing.

More Supported Scanners (SerialMagic Keys Pro)

More Supported Scanners

Enable SerialMagic Keys to connect to supported non-genuine devices and
devices not purchased from serialio.com like HPR Lite, Leica DISTO E7100i,
TSL-1128, CipherLab 1862, etc.

$99.99

Purchase

1. **Directly From the Device**
   a. Select the "Purchase" button at the bottom of the application's main screen.
   b. Select to purchase the "**More Supported Scanners (SerialMagic Keys Pro)**" portion of the software for **$99.99**. Follow the purchase instructions on your device.
   c. Once purchased the Main Screen with show that "MORE SUPPORTED SCANNERS" is purchased.
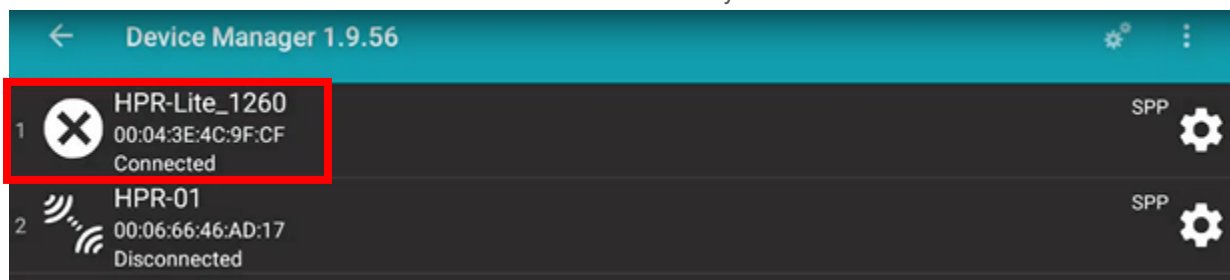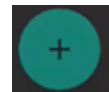
2. **Through the Software Developer**
   a. Contact SERIALio or follow the link below to purchase a SerialMagic License and receive a Product Key.
   b. Contact them directly to purchase a license: Sales: (512) 994-3630 | Serialio - Contact Us
      OR
   c. Follow the link and select the appropriate *Platform* for your device before to purchase
      https://buy.serialio.com/products/serialmagic-license?variant=41308017131543

SerialMagic License

4. Pairing a Bluetooth PIT Tag Reader

Biomark HPR Plus and Biomark HPR Lite handheld PIT Tag readers are supported devices with SerialMagic Keys. Pairing one of these readers within SerialMagic Keys will allow for a scanned PIT Tag to populate fields within the KBFC Survey123 electronic data forms.

1. On the main screen of the application select "Launch Serial Device Manager.

2. **Pairing A New Device:** Select the blue "+" button on the bottom right of the screen

3. Select "Allow" to permit the application to find and connect to Bluetooth devices nearby.
4. Check "Any Bluetooth" in the bottom left of the screen.

5. Search and select your Bluetooth device.
   a. Example and Biomark HPR Lite could look like "*HPR-Lite_1260*"
6. Enter a PIN within the "Bluetooth pairing request" and select "Pair".
   a. The PIN for Biomark HPR readers is "*1234*"
7. The PIT Reader will now be connected and ready to use.

8. **Previously Paired Devices:** Devices previously connected within SerialMagic Keys will be recognized within the application and only require the icon next to the device name to be selected to connect the PIT reader or device.

9. With the PIT Tag reader connected data can now be transferred from the reader into fields with the KBFC Survey123 electronic data forms.

Troubleshooting: If your Biomark HPR reader is not being recognized make sure to enable the Bluetooth settings on the Biomark HPR reader.

Please contact SERIALio for information on additional supported PIT Tag readers and devices: Support: (512) 994-3268 | Serialio - Contact Us.

5. Using Survey123 with SerialMagic Keys paired devices

1. Once a PIT Tag reader is connected through SerialMagic Keys, open the KBFC Survey123 electronic data forms, and click inside the desired data field.

2. Once the field is selected scan your PIT Tag with a Biomark HPR reader and the data will transfer from the reader into the Survey123 data form.

Troubleshooting: If a PIT Tag is not transferring into the Survey123 data fields but is being recognized by the PIT reader, first check if the device is connected and paired within the SerialMagic Keys application. If the issue persists and the PIT Tag reader is connected within SerialMagic Keys, review the Bluetooth settings on the Biomark HPR reader. Check to see that "*Send Tags*" has Bluetooth enabled.

7. Quick Field Instructions

Once Steps 1-6 are established, the setup in the field can go quickly.

1. Turn on your PIT Tag handheld reader
2. Open the SerialMagic Keys application and connect your PIT Tag reader. Follow Step 4 "*8. Previously Paired Devices*"
3. Open the desired Survey123 form, select your desired data field, scan the PIT Tag, and begin data collection

6. Additional Support

For additional support on how to use SerialMagic Keys, please contact the Klamath Basin Fisheries Collaborative team.

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