



Illuminati Magic

Second Sight V2

Quick Reference Guide

For Firmware 2.13

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Introduction



Second Sight is an advanced RFID reader designed to enhance your magic performances. With a read range of up to 5 inches (125mm) and support for ISO14443A and ISO15693 protocols, Second Sight offers increased flexibility and compatibility with a wide range of RFID-tagged objects.

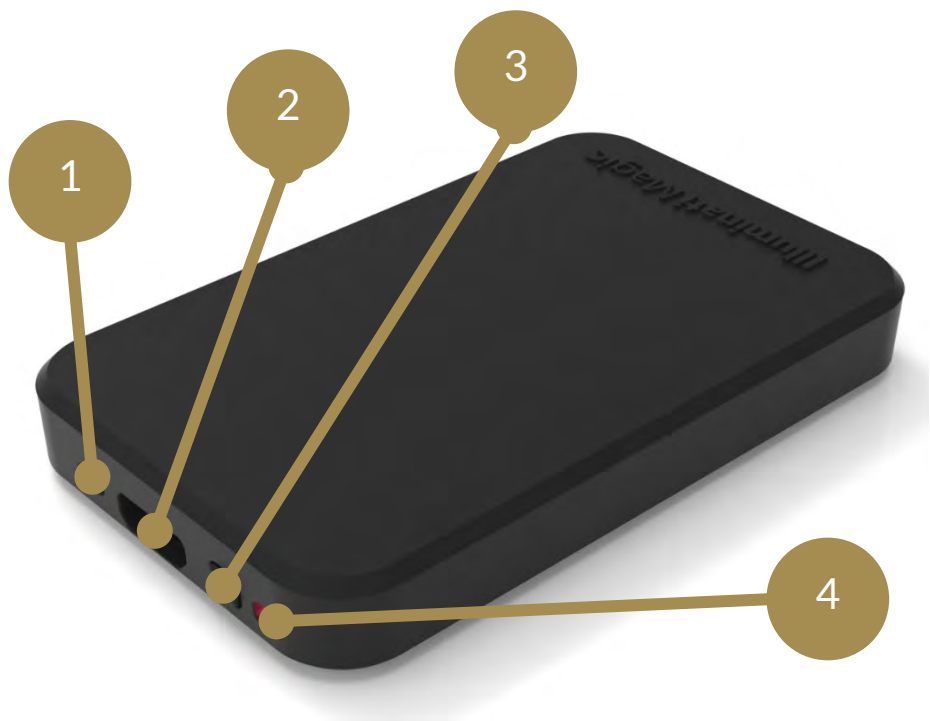
With Second Sight, you have the freedom to position it in various locations, seamlessly integrating it into your routines. The onboard vibrator provides silent feedback, and by integrating with the Thumper, you can disable the onboard vibrator and rely solely on the Thumper's vibration signals.

The intuitive button operations of Second Sight make it easy to access settings and modes for quick customization. Whether you need to adjust the vibration settings or switch between RFID protocols, Second Sight puts the control in your hands.

Pairing Second Sight with the Unifi App unlocks a world of advanced features, customization options, and expanded capabilities. With the app, you can program RFID cards, customize display messages on the Notifier, and seamlessly integrate with other Unifi devices for a truly immersive magical experience.

Unleash your creativity and captivate your audience with the power of Second Sight. Elevate your magic performances to new heights and create unforgettable moments with this versatile and powerful RFID reader. This is the Quick Reference Guide for Second Sight. For detailed video tutorials on Second Sight, refer to <https://illuminati-magic.com/pages/second-sight-v2-training>

Overview



Object	Description
1	Red Charging LED
2	Micro USB Charging Port
3	Power / Mode Selection Button
4	Status LED

Button Operation

Button	Description
Long Press	A long press on the power button is used to power Second Sight on or off. Press and hold the power button to turn it on, indicated by two vibrations and a white LED flash. To turn it off, press and hold the power button until you feel a single, long vibration and see a red LED flash.
Single Tap	A single tap on the power button exits the current mode or operation.
Double Tap	A double tap on the power button toggles the on board vibrate motor on or off. Two short vibrations indicate the vibrate motor is turned off, while a single, long vibration indicates it is turned on.
Triple Tap	A triple tap on the power button activates the Numeric Programming Mode. In this mode, you can program RFID/NFC tags with codes 1 through 13. The LED will flash red continuously and momentarily flash green when programming a tag. To exit this mode, a single tap on the power button is needed.
Quadruple Tap	A quadruple tap on the power button activates the Card Programming Mode. This mode allows you to program RFID/NFC tags with card values from Ace to King, in CHaSeD order (Clubs, Hearts, Spades, and Diamonds). The LED will flash red quickly and momentarily flash green when programming a tag.
Quintuple Tap	A quintuple tap on the power button in Second Sight changes the RFID/NFC Mode, toggling through ISO14443A, ISO15693, and Auto Mode.

Charging Second Sight

Before using Second Sight, it is important to ensure that the device is properly charged. Begin by removing Second Sight from its packaging and locating the charging cable, which can be found underneath the plastic packaging.

Connect one end of the cable to Second Sight and the other end to a wall-based USB charger. Once the cable is connected, a red charging LED will illuminate, indicating that the unit is charging. Allow Second Sight to charge until the red charging LED turns off, indicating that it is fully charged.

The battery life of Second Sight can vary depending on the configuration options you have enabled in the settings. Factors such as the scan speed (low power, normal, high speed), the RFID protocol (ISO14443A, ISO15693, or "Auto Mode"), the connection to your smartphone via Bluetooth Low Energy (BLE), and the proximity of RFID/NFC cards to Second Sight can all affect the battery life.

When the battery is depleted, Second Sight will emit a long vibrate signal and automatically power off. It is important to charge Second Sight before using it to ensure optimal performance.

The initial charging process may take up to two hours to complete. We recommend fully charging Second Sight before using it for the first time to maximize its battery life and performance

Charging LED

LED	DESCRIPTION
Steady	If the Red Charging LED is illuminated, this indicates that Second Sight is charging.
Off	If the Red Charging LED is off, and Second Sight is plugged in, then this indicates that Second Sight is fully charged.

Vibrate Patterns

Second Sight incorporates a unique vibration system that utilizes Roman Numerals to convey card information efficiently. The vibration pattern consists of two sequences: the first sequence indicates the card's suit in CHaSeD order (Clubs, Hearts, Spades, and Diamonds), and the second sequence represents the card's value.

To expedite communication, a short vibrate signal signifies a value of one, while a long vibrate sequence represents a value of five. This encoding format enables faster transmission of information compared to a single vibration pattern. For instance, a six is conveyed through one long vibrate followed by a short vibrate, eliminating the need for six individual vibrations.

By default, the duration of a short vibrate sequence is set to 0.20 seconds, while a long vibrate sequence lasts for 0.60 seconds. A one-second gap separates each successive vibrate sequence, ensuring clarity and differentiation between the encoded information.

Suits

CHaSeD is an acronym for Clubs, Hearts, Spades, and Diamonds as follows:

SUIT	VIBRATE PATTERN
Clubs	.
Hearts	..
Spades	...
Diamonds

Value

NUMBERS	VIBRATE PATTERN	NUMBERS	VIBRATE PATTERN
Ace	.	Seven	__.
Two	..	Eight	__...
Three	...	Nine	__....
Four	Ten	___
Five	__	Jack	___.
Six	__.	Queen	___..
Seven	___	King	___...

Wearing Second Sight

Positioning Second Sight is crucial to optimize its performance and achieve accurate RFID scanning. With its highly sensitive RFID reader, Second Sight can effectively read RFID tags at distances of up to 5 inches (125mm).

You have the flexibility to position Second Sight in various locations to suit your needs. Some recommended options include placing it under your wristwatch band, securing it on your forearm with an armband, keeping it safely tucked inside your top suit pocket, or concealing it under a table or close-up mat.

Equipped with built-in transmitters, Second Sight can seamlessly communicate with the Thumper and Notifier Modules, as well as the Unifi App. This allows you to conveniently relay RFID scan results and enhance your performance experience.

To ensure optimal transmission, Second Sight has undergone meticulous tuning. However, it's important to consider environmental factors that may affect reception. Typically, you can expect a reliable connection within a range of approximately 30 feet (10 meters) between Second Sight and your iPhone, as well as between Second Sight and the Thumper and Notifier modules.

Keep in mind that the human body, composed mostly of water which absorbs radio signals, can influence signal transmission. It is advisable to maintain a distance between Second Sight and your body for optimal performance. Placing Second Sight directly against your skin may slightly diminish its transmission capabilities as the body may absorb a portion of the radio signal.

By adhering to these positioning considerations, you can ensure the best performance and fully leverage the capabilities of Second Sight during your RFID scanning operations.

Notifier Operation

The Notifier is an optional display module that can be used alongside Second Sight to conveniently showcase the results of RFID Scans. For detailed instructions, please refer to the Notifier User Manual. An abridged user guide is provided below for quick reference.

When scanning playing cards with Second Sight, the Notifier will display the scan results on its LCD screen. It's important to note that the Notifier is also compatible with other devices such as Dice, Dominoes, Poker Chips, Magneto, Multi Sense, Pen Sense, and Color Sense, allowing for the display of additional images and information.

The Notifier's screen can be divided into two, four, or six segments to provide a history of RFID Scans. This feature allows you to easily review and track the sequence of scanned cards, as demonstrated in the example below:

With this functionality, you can conveniently monitor the progression of RFID Scans and keep a visual record of the cards that have been detected.



Thumper Operation

The Thumper is a versatile accessory designed to enhance your performances when used in conjunction with Second Sight.

Connecting with Second Sight:

1. Ensure that the Thumper is fully charged and powered on.
2. Activate Second Sight and perform the necessary setup steps for RFID scanning.
3. Second Sight and the Thumper can be used together without the need for pairing. Simply activate both devices and they will work in harmony.

By default, Second Sight utilizes its onboard vibrator to provide vibration feedback for RFID scans. You have the option to enable or disable the onboard vibrator directly from Second Sight's menu settings.

The Thumper features its own built-in vibrator, which can be independently enabled or disabled using the Thumper's control settings. Please refer to the Thumper User Manual for detailed instructions; an abridged user guide is included below.

Note: The vibrators on Second Sight and the Thumper can be controlled separately, giving you the flexibility to tailor your performance to your specific needs. Experiment with different configurations to find the setup that works best for you.

Please consult the Thumper user manual for detailed instructions on pairing, setup, and additional control options. Enjoy the enhanced performance possibilities that the Thumper brings when combined with Second Sight.



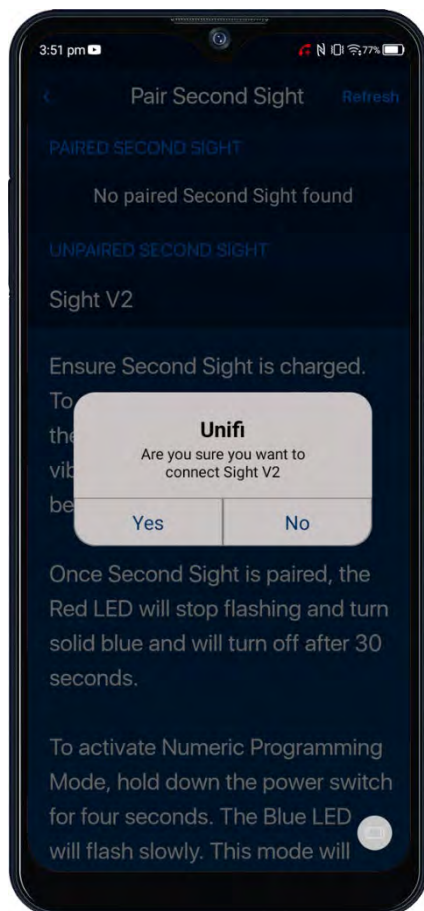
Pairing Second Sight

Pairing Second Sight with the Unifi App is a straightforward process. Follow these steps to ensure a successful pairing:

1. On your device, open the Unifi App and select "Pair Second Sight".
2. Turn on your Second Sight device.
3. In the Unpaired devices list, you will see Second Sight displayed.
4. Tap on the Second Sight device that you want to pair with the Unifi App.
5. After the initial pairing, Second Sight will automatically reconnect.



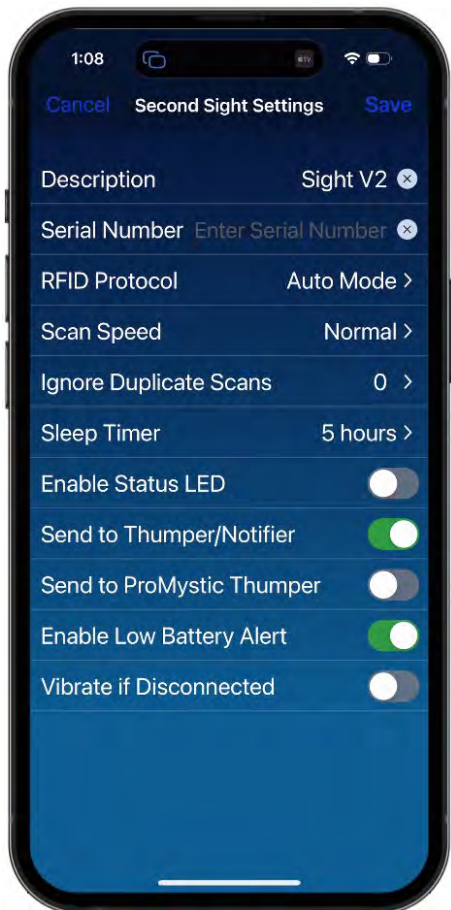
iOS Version



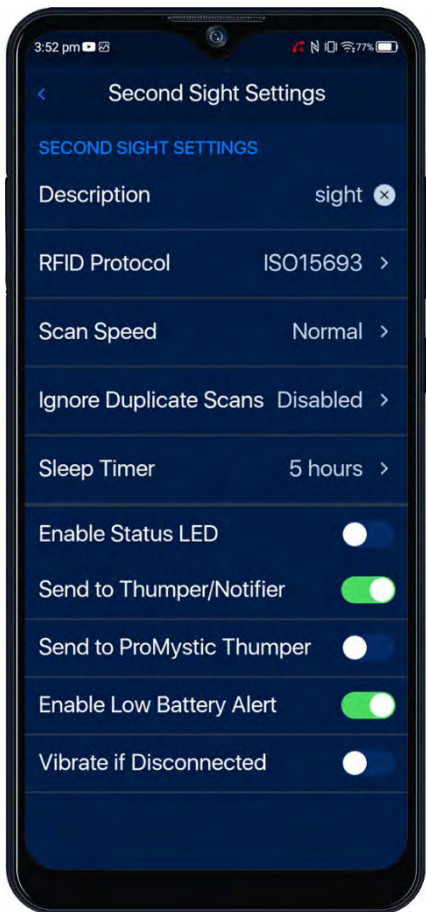
Android Version

Second Sight Settings

Within the Second Sight options, there is the Settings menu (to customize the name of Second Sight and turn options on or off) and also vibrate settings to adjust the strength and timing of the vibrate sequences.



iOS Version



Android Version

Note that not all features are available on the Android platform.

FIELD	DESCRIPTION
Description	By default, Second Sight is identified as "Sight V2" during the pairing process. However, you have the option to customize its name to better suit your preferences. While most users keep the default setting, customizing the device name can be beneficial in environments where multiple Second Sight users are present.
Serial Number	The Serial Number is a unique identifier assigned to Second Sight, enabling you to operate the system in "Registered Mode." This ensures that the Notifier and the Thumper modules exclusively process signals from your specific Second Sight unit, enhancing the privacy and reliability of your performance.
RFID Protocol	<p>Second Sight supports two RFID protocols: ISO14443A and ISO15693. While both protocols are compatible, ISO15693 offers benefits such as extended read range, faster scanning times, and improved multi-read capabilities.</p> <p>To ensure optimal performance, it is crucial to set the protocol in Second Sight to match the RFID tags you are using. Alternatively, you can utilize the "Auto Mode" which scans for both protocols simultaneously. However, keep in mind that enabling the "Auto Mode" consumes more battery power, so it is recommended to use it selectively.</p> <p>Please note that the "Auto Mode" is available exclusively in the iOS version of the Unifi App.</p>
Scan Speed	<p>Second Sight offers three scan speed options: Normal, High Speed, and Low Power Mode. The Normal mode strikes a balance between scanning speed and battery life, making it suitable for most performances.</p> <p>In Normal Mode, Second Sight scans for an RFID tag every half a second, providing reliable performance for routines.</p>

FIELD	DESCRIPTION
	<p>If you need faster scanning, you can choose High-Speed Mode. This mode continuously scans for tags at a scan speed of less than 1/10 of a second. However, keep in mind that High-Speed Mode consumes more power and reduces battery life.</p> <p>For longer battery life, Low Power Mode is available. In this mode, Second Sight reduces the RFID field strength by 50% and scans once per second. While this extends the battery life, it may result in slightly longer RFID read times and slower scans.</p> <p>Consider your performance requirements and desired battery life when selecting the scan speed mode that best suits your needs.</p>
Ignore Duplicate Scans	<p>The "Ignore Duplicate Scans" feature in Second Sight prevents the device from scanning the same RFID tag within a specified time period. It ensures that each tag is read only once, eliminating duplicate readings.</p> <p>This feature is valuable in various performance scenarios. For instance, when using gaffed Lotto Balls, enabling "Ignore Duplicate Scans" allows you to accurately read each RFID tag as the balls are tossed into a bag. This ensures that duplicates are avoided and enhances the overall effectiveness of your routine.</p> <p>By utilizing this feature, you can streamline your performances and ensure that each RFID tag is treated as a unique element, providing enhanced precision and reliability.</p>
Sleep Timer	<p>The Sleep Timer feature in Second Sight allows you to customize the duration before the device enters sleep mode. By default, this duration is set to 5 hours, but you have the flexibility to adjust it according to your preferences, ranging from 1 to 10 hours.</p>

FIELD	DESCRIPTION
Enable Status LED	<p>By default, Second Sight disables all LEDs except during power on/off or programming mode for a discreet performance. However, enabling the Status LED feature activates a green LED flash during card scans, providing visual confirmation. This feature works even with duplicate card detection, allowing you to verify successful scans. The Status LED adds visual feedback, enhancing your performance and engaging the audience.</p>
Send to Thumper/Notifier	<p>Second Sight features dual transmitters for seamless communication. The first transmitter uses Bluetooth technology to connect with your smartphone, enabling data transfer and integration with the Unifi App.</p> <p>The second transmitter broadcasts messages to the Notifier and Thumper modules. This functionality allows Second Sight to transmit RFID scan information to both the Notifier and the Thumper, expanding the possibilities for your performances.</p> <p>Enabling the "Send to Thumper and Notifier" option in Second Sight's settings instructs the device to transmit RFID scan data to both devices simultaneously. This synchronized transmission ensures that the relevant information is communicated to both the Notifier and the Thumper, enhancing the coordination and impact of your routines.</p>
Send to ProMystic Thumper	<p>Second Sight offers compatibility with the Promystic PMR Receiver, enabling it to function as an external Thumper device. By enabling this option in Second Sight's settings, you establish a communication link between the two devices.</p> <p>With PMR compatibility enabled, Second Sight transmits messages and data to the PMR, enhancing your performance setup's versatility. This feature allows you to utilize the PMR as an additional vibration source,</p>

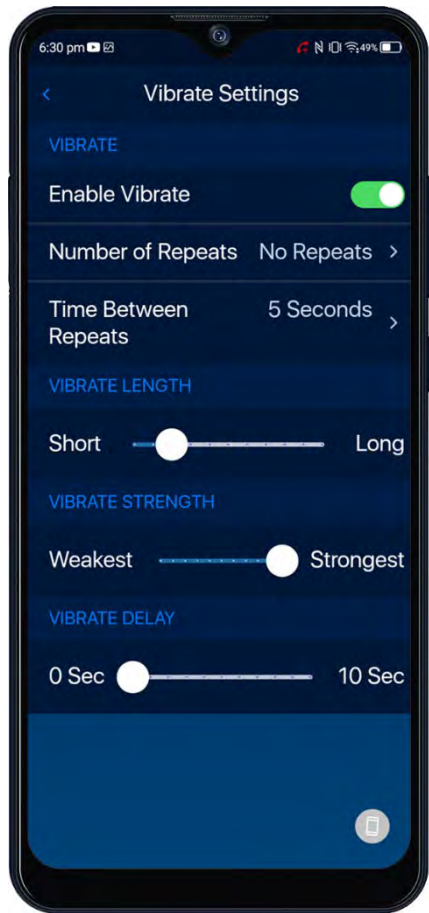
FIELD	DESCRIPTION
	<p>enabling synchronized effects and multi-modal sensory experiences.</p> <p>Please exercise caution when configuring the Promystic Output on Second Sight and the Promystic reception on the Notifier. Enabling both options simultaneously may cause unintended vibrate sequences on the Notifier module. To avoid this, only enable the Promystic Output on Second Sight and keep the Promystic reception exclusive to the Notifier.</p>
Enable Low Battery Alert	<p>Enabling the Low Battery Alert in Second Sight notifies you when the battery level drops below 20%. You will receive a warning when the battery reaches this threshold, giving you approximately 15 minutes of remaining operational time before the device powers down. This helps you manage the power consumption and ensures uninterrupted use of Second Sight during your performances.</p>
Vibrate if Disconnected	<p>The Vibrate if Disconnected option in Second Sight provides a useful feature to alert you when your device goes out of Bluetooth range with your smartphone. If you accidentally move away from your smartphone, Second Sight will vibrate, indicating that you are no longer within Bluetooth range. This feature helps you stay aware of your connection status and ensures that you remain within range for seamless operation. For instance, if you leave your smartphone on stage and walk into the audience, Second Sight will notify you that you are no longer in proximity to your smartphone.</p>

Second Sight Vibrator Settings

Second Sight features an onboard vibrator that provides tactile feedback by indicating the suit and value of a playing card or playing a custom vibration sequence.



iOS Version



Android Version

FIELD	DESCRIPTION
Enable Vibrator	This option allows you to enable or disable the onboard vibrator of Second Sight. Depending on your presentation style, you may choose to turn off the vibrator. For instance, if Second Sight is concealed inside a wooden box or underneath a close-up mat, disabling the vibrator is recommended.
Number of Vibration Repeats	You can set the number of additional times that Second Sight will repeat the vibrate sequences. This feature is useful when using Second Sight in vibrate-only mode and you desire a confirmation of the vibrate sequence. By default, this is set to "No Repeats."
Time Period between vibrates	This setting determines the interval between successive repeats. For example, you can configure Second Sight to provide two repeats with a ten-second gap between the vibrate sequences.
Vibrate Length	Adjust the length of the vibration sequence for both short and long vibrations. By default, a short vibrate lasts for 0.20 seconds, while a long vibrate sequence lasts for 0.60 seconds.
Vibrate Strength	Control the strength of the onboard vibrate motor. Increasing the strength will result in a louder vibration, while reducing it will make the vibration quieter. The default setting is maximum strength.
Vibrate Delay	This setting introduces a delay between obtaining an RFID scan and the activation of the vibrate sequence. It can be beneficial in situations where you want to prevent spectators from inadvertently feeling the vibration motor. For example, if a spectator is holding a card between their hands during the scanning process, the vibrate delay allows you to obtain the RFID scan first before initiating the vibration.

By adjusting these vibrator settings, you can customize the vibration experience of Second Sight to suit your performance needs and create a seamless and engaging performance for your audience.

Read RFID Tags

The Read RFID tags display every RFID tag that Second Sight has read and shows the assigned graphics.

You may tap on an RFID tag to customize it, erase the RFID tag, or clear the list by tapping in the top right.



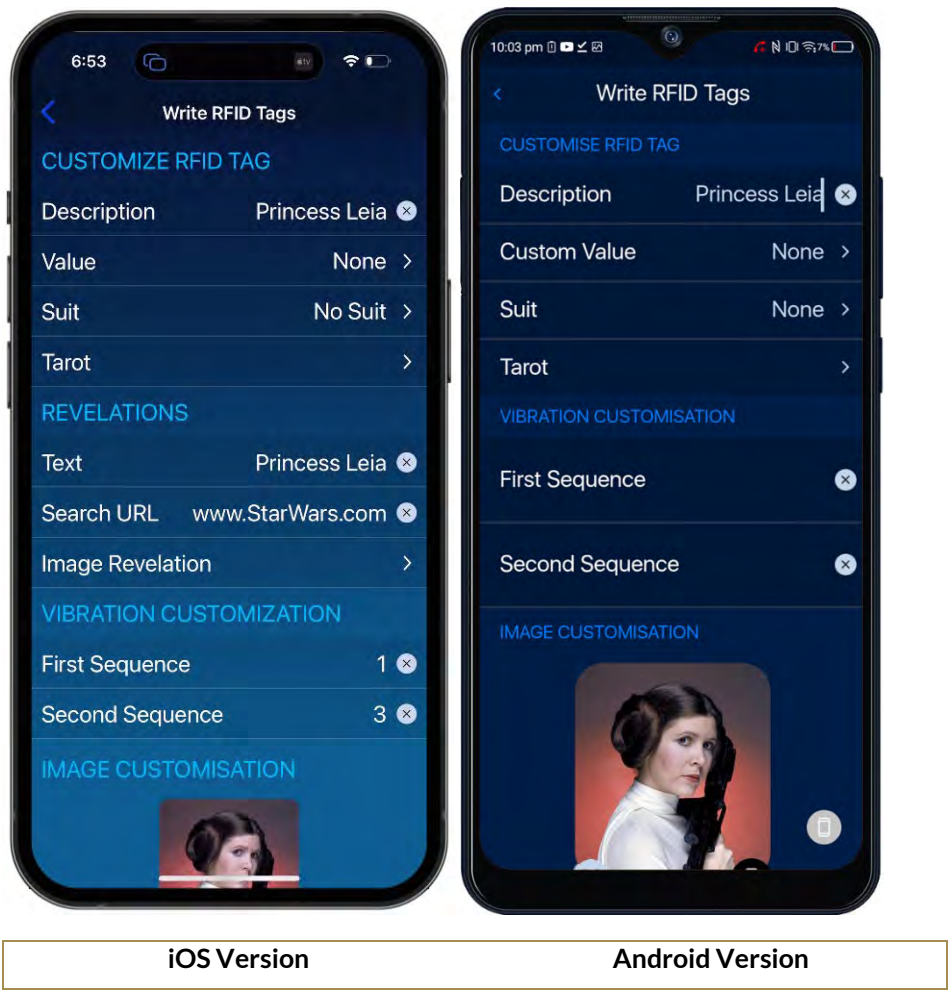
iOS Version



Android Version

Write RFID tags

Use the Write RFID tags feature in Second Sight to create custom RFID gaffs. Tap "Program" to initiate the programming mode, indicated by the Red LED. When an RFID tag is brought close, Second Sight will write the desired information onto it. The Red LED turns off once the programming is complete or after 30 seconds.



FIELD	DESCRIPTION
Description	The Description field allows you to assign a name to an RFID tag with a maximum length of 18 characters. It is stored in both the RFID tag and the Unifi App, enabling seamless integration with Notifier and supporting Text-to-Speech announcements.
Value	The Value field is used for programming RFID Playing Cards, allowing you to assign a value ranging from Ace to King.
Suit	The Suit field is used for programming RFID Playing Cards, allowing you to assign Clubs, Hearts, Spades and Diamonds.
Tarot	The Tarot Field is specifically designed for programming RFID Tarot Cards, enabling you to assign any of the major or minor Arcana to the cards.
Reveal Text	The reveal text is used to send information to reveal platforms, such as Prevision, Inject or the Image Processor.
Search URL	<p>The Search URL in Second Sight allows you to configure a custom landing page. Unifi supports popular websites like Google, Amazon, Baidu, eBay, Facebook, Wikipedia, YouTube, Twitter, LinkedIn, Instagram, Netflix, and more. You can also use Web API calls to personalize the revelation experience.</p> <p>For example, link to specific Amazon searches or Google image searches. These URLs can also direct to images, videos, or music on your website.</p> <p>To obtain the URL, perform a search and copy the resulting URL into the Unifi configuration. Include the full URL, including "http://" or "https://".</p> <p>For more information, refer to the Search section in the Unifi App manual. This feature offers endless possibilities for creative revelations, enhancing your performances with digital content.</p>
Image Revelation	The Image Revelation allows for the assignment of an image that is used for the Image Processor, to insert the nominated image into a Design.

FIELD	DESCRIPTION
Vibration Customization	<p>Second Sight supports custom vibrate sequences and permits two custom vibration sequences per RFID tag.</p> <p>The vibrate sequences are played sequentially, with a one-second gap between each vibrate.</p> <p>The vibrate sequences must be below 15 (three long vibrates).</p>
Image Customization	<p>The image customization function allows you to assign a custom graphic to an RFID tag, directly from your iPhone.</p> <p>You can assign an image from your photo library or your camera on your iPhone.</p> <p>To assign a custom image to an RFID tag, tap on the camera icon.</p> <p>After you have attached an image to the RFID tags, a thumbnail of the graphic is displayed in the Status screen, as well as on the Apple Watch.</p>

RFID Deck

This deck of cards has been specifically designed for magicians, offering unique features and durability for your performances. Let's explore the details:

The Second Sight Deck is meticulously crafted to ensure optimal functionality. The chips and antenna are integrated into the cards during the manufacturing process, resulting in cards that are perfectly thin and flat. You can handle and shuffle these cards just like any ordinary deck, and they are built to withstand the test of time.

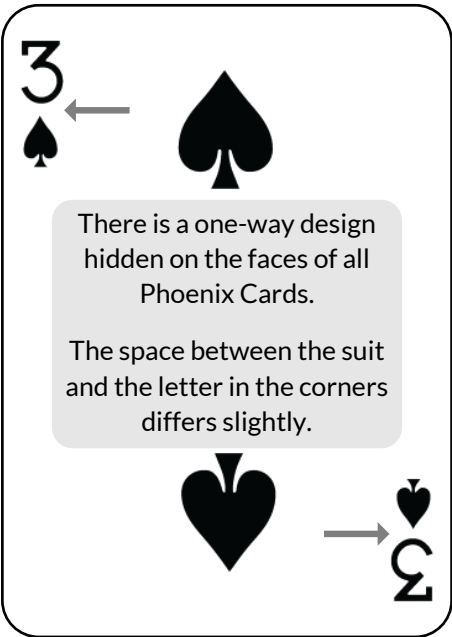
The playing cards in the Second Sight Deck are made from PVC, making them 100% plastic. This material provides exceptional protection and renders the cards virtually indestructible. You can rest assured that your deck will withstand rigorous handling and maintain its quality throughout countless performances.

In addition to the standard 52 playing cards, the Second Sight Deck includes a blank card and a double-sided card. These additional cards offer versatility and allow you to perform a variety of sleight-of-hand effects without the need for deck switching. Enhance your repertoire and create captivating routines with these special features.

The RFID playing cards in the Second Sight Deck can be programmed using the Unifi App. This app provides you with the flexibility to customize and personalize the functionality of each card, allowing you to unlock a world of possibilities for your magic routines.

The Phoenix Deck, incorporates a special one-way design on the face of each playing card. This design subtly positions the suit closer to the value in one direction, adding an extra layer of deception and visual appeal to your card tricks.

Secondly, there is a one-way design built into the back of the playing card, where a line is missing in one direction:



Help and Support

For assistance, please reach out to our support hotline at support@illuminati-magic.com. We also recommend registering on our website at www.illuminati-magic.com and joining our Facebook Group for additional resources and community support.

To access the full Unifi manual, visit www.illuminati-magic.com/unifi-online-help.html.

To download the Unifi App, simply scan the Quick Reference Code provided.



Compliance

Unifi Second Sight (Second Sight V2) adheres to the following standards:

- ETSI EN300 328 V2.2.2 (Bluetooth-LE)
- ETSI EN300 220 V3.1.1 (RF)
- ETSI EN 301 489-1 V2.2.2 (EMC)
- ETSI EN 301 489-3 V2.2.2 (EMC)
- ETSI EN 301 489-17 V2.2.2 (EMC)
- ETSI EN 301 489-17 V2.2.2 (EMC)
- ETSI EN300 330 V2.1.1 (RF)
- ETSI EN62479:2010 (RF Exposure)
- ETSI EN50663:2017 (RF Exposure)
- ETSI EN50364:2018 (Test Method)
- ETSI EN62369-1:2019:2018 (Test Method)
- ETSI EN62368-1:2014 (AV, IT&C Safety)
- FCC CFR Title 46, Part 15 Subpart C, Section 15.247 (Bluetooth-LE)
- FCC CFR Title 47, Part 15 Subpart C, Section 15.225 (Bluetooth-LE)
- FCC CFR Title 47, Part 15 Subpart C, Section 15.231 (Bluetooth-LE)
- FCC 47 CFR Part 2: 1093 (SAR)
- IEEE Std C95.1:1999 (SAR)
- IEEE Std 1528:2013 (SAR)



FCC Caution

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This radio is designed for and classified as “General population/uncontrolled Use” , the guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health.

Body and limbs operation; this device was tested for typical body and limbs operations kept 0mm for body worn. To maintain compliance with RF exposure requirements, use accessories that maintain a 0mm for body worn.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Illuminati Magic

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