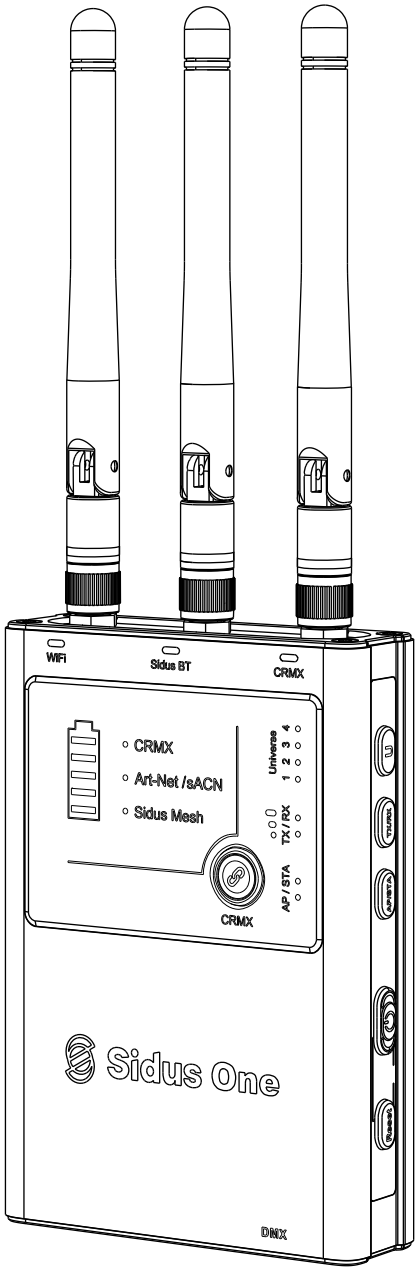
Aputure®
Next Level Imaging



Sidus One

Product Manual

English

TABLE OF CONTENTS

Introduction 04

Safety Instructions 05

FCC Declaration of Conformity 06

RF Statement 06

Components List 07

Product Overview 08

1. Key Functions 08

2. Indicator Status Lights 09

3. Ports 11

Application Scenarios 12

1. Art-Net/sACN over WiFi IN， CRMX Transmitter /Wired DMX OUT 12

2. CRMX Receiver IN, Wired DMX OUT 12

3. CRMX Bluetooth IN， CRMX Transmitter/Wired DMX OUT 13

4. Wired DMX IN, CRMX Transmitter OUT 13

5. Sidus BT Master Node to Sidus BT Compatible Fixtures 13

Operating Instructions 14

1. Installing Antennas 14

2. Powering & Charging 14

2.1 Powering On/Off 14

2.2 Charging 15

3. Connectiong Sidus One 16

3.1 Art-Net/sACN over WiFi IN to CRMX Transmitter /Wired DMX OUT 16

3.2 CRMX Receiver IN to Wired DMX OUT 18

3.3 Wired DMX IN to CRMX Transmitter OUT 20

3.4 CRMX Bluetooth IN to CRMX Transmitter/Wired DMX OUT 21

3.5 Sidus BT Master Node to Sidus BT Compatible Fixtures 23

4. Update the firmware 25

4.1 Update by Sidus Link APP 25

4.2 Update by USB flash disk 26

5. Restore factory settings.....27
5.1 Restore factory settings.....27
5.2 Reset Bluetooth.....27
Product Specification.....28
Technical Parameters.....29
Disclaimer.....30

Introduction

Sidus One is an Aputure lighting control accessory which accepts and converts wired and wireless lighting protocols. Wi-Fi Art-Net/sACN, Hardline DMX, CRMX, CRMX BT, and Sidus BT are all available for use with the Sidus One.

So what can it do?

Wi-Fi: Using a mobile device with a compatible DMX control APP or a Lighting Console that can connect to wireless networks, users can send Art-Net or sACN over Wi-Fi to the Sidus One; Sidus One can convert and output one universe of DMX data via the wired DMX adapter or via (TX) CRMX Wireless DMX.

1. Art-Net/sACN over Wi-Fi IN to CRMX Transmitter OUT.

2. Art-Net/sACN over Wi-Fi IN to Wired DMX OUT.

DMX IN/OUT and CRMX TX/RX: Sidus One can accept wired DMX signal from DMX consoles, and transmit wirelessly via CRMX to control CRMX capable devices.

1. Wired DMX IN to CRMX Transmitter OUT.

2. CRMX Receiver IN to Wired DMX OUT.

CRMX BT: Compatible Apps can connect to Sidus One via CRMX BT and transmit CRMX and hardline DMX 512 data.

1. CRMX Bluetooth IN to CRMX Transmitter OUT

2. CRMX Bluetooth IN to Wired DMX Out

Sidus BT: When Sidus One is set as the Master Node in the Sidus Link App, it provides enhanced stability of the Sidus Mesh network and improves the reliability of a Sidus Link setup.

1. Sidus BT Master Node to Sidus BT Compatible Fixtures

(The different application scenarios for Sidus One are described in detail starting on page 12.)

Safety Instructions

When using this product, basic safety precautions should always be followed, including:

- Please read this product manual carefully.
- Keep this product manual. Always include this product manual when passing the product(s) on to third parties.
- Heed all warnings and follow all instructions in this product manual.
- Only use a microfiber or dry cloth to clean the product.

Warning: Do not place the product near any corrosive chemicals. Corrosion may cause the product to malfunction.

- Operate with caution - dropping or hitting the product may cause damage, and/or malfunction.
- Keep all liquids away from the product. Liquids entering the product can short-circuit the electronics or damage the mechanics.
- Store the product in a dry, clean, dust-free environment.
- Please contact authorized maintenance personnel when maintenance is needed. There are precision electronic circuits in this product. Failure caused by unauthorized disassembly is will void the warranty, but users can opt for paid repairs.
- This product has been certified by CE, RoHS, UKCA, FCC, KC and NCC. Please adhere to the operation standards. The warranty does not cover repairs arising out of misuse of the product, and users may opt for paid repairs.
- This user guide is based on strict testing conducted by our company. Design and specifications are subject to change without prior notice.

FCC Compliance Statement

WARNING

Changes or modifications to this product that are not expressly approved by the manufacturer are prohibited and voids the user warranty.

NOTICE

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.

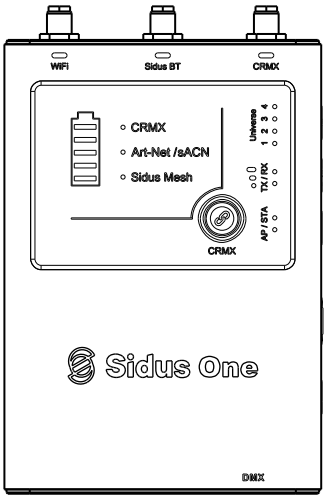
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to reorient or relocate the receiving antenna.

- Decrease the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

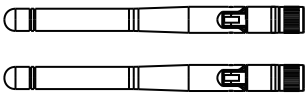
RF Statement

This device has been evaluated to meet general RF exposure requirements.

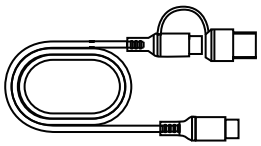
Components List



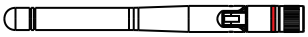
Sidus One x 1



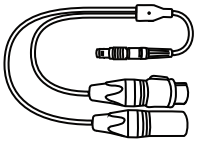
Sidus BT / CRMX Antenna x 2 (White)



USB power cable (0.8m) x 1

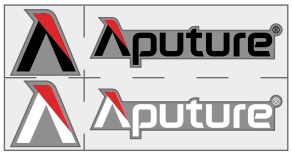


Wi-Fi Dual Frequency Antenna x 1 (Red)

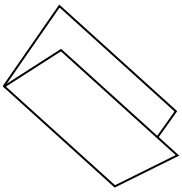


3-Pin Push-Pull Connector to 5-Pin XLR DMX IN/OUT adapter x 1

QR code card x 1



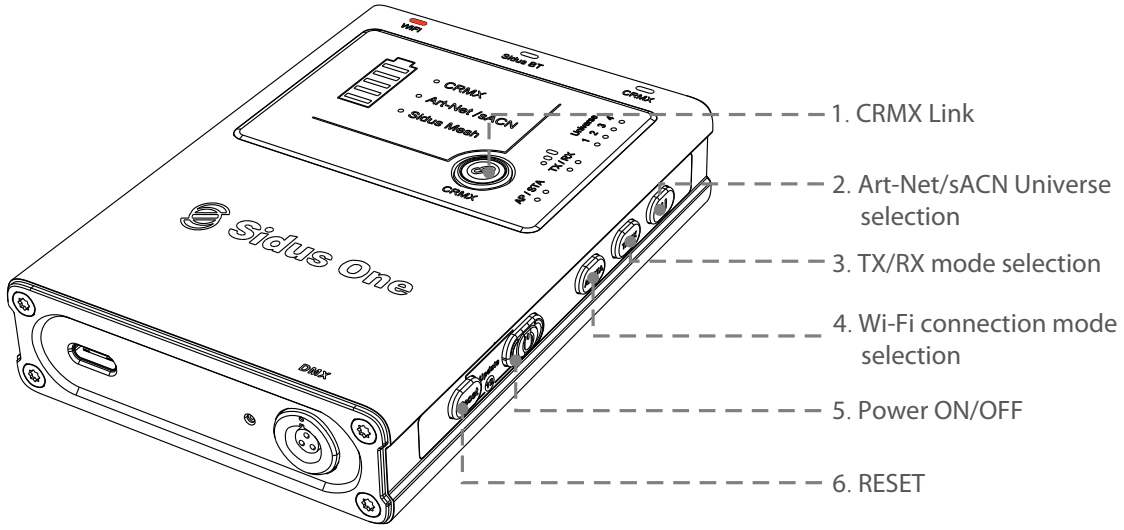
Sticker x 1



Sidus Link instructions x 1

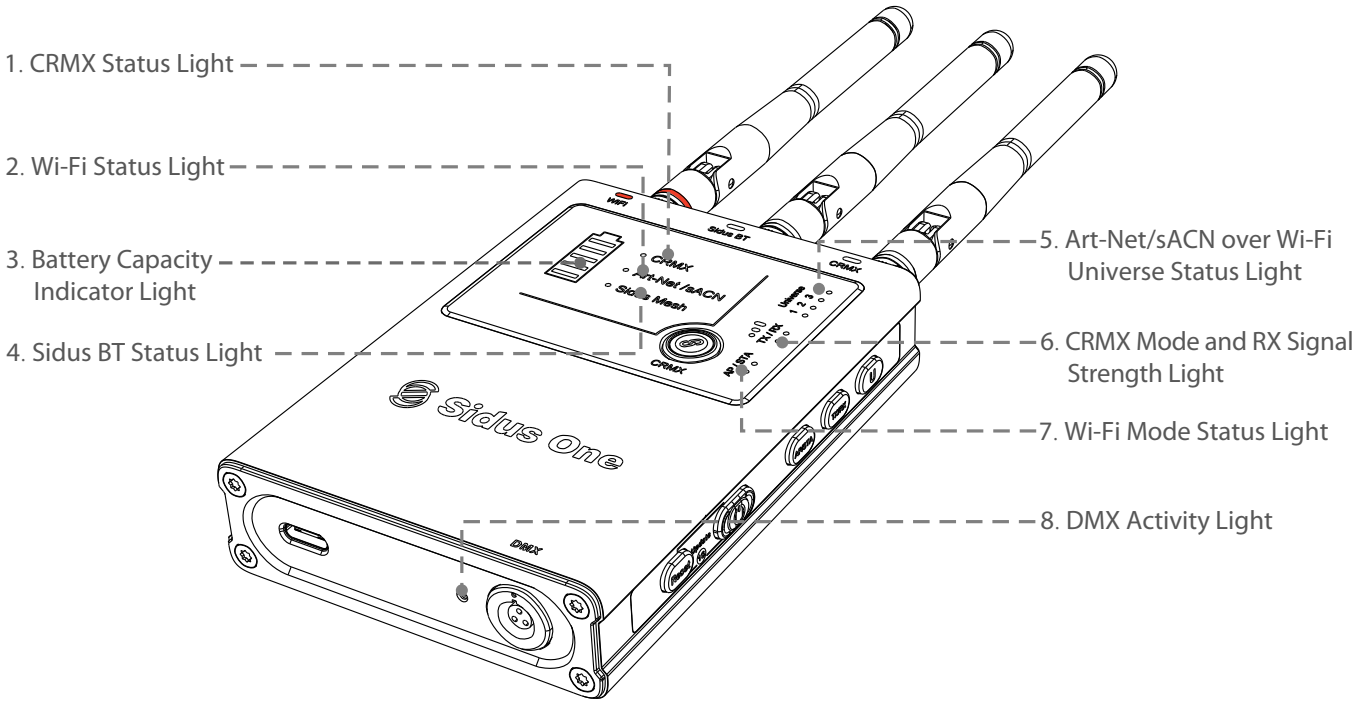
Product Overview

1. Key Functions



ID Number	Button	Function	Operation	Description
1	CRMX	CRMX TX Link/Unlink (TX Mode)	Tap	Send CRMX Linking Signal
			Hold for 3s	Unlink all Receivers
		CRMX RX Unlink (RX Mode)	Hold for 3s	Unlink from CRMX Transmitter
2	U	Wi-Fi Universe Settings	Hold for 1s	Change Universe
3	TX/RX	Mode	Hold for 1s	Switch between Transmitter (TX) and Receiver (RX) Mode
4	AP/STA	Wi-Fi Mode Settings	Hold for 1s	Switch between Access Point (AP), Station (STA) Modes and Wi-Fi Off
5	⏻	Power	Hold for 3s	Power Sidus One ON/OFF
6	RESET	Reset to Factory Settings	Hold for 3s	Restore factory settings (All Status Lights will flash)
		Reset Sidus BT	Tap twice consecutively	Reset Sidus Bluetooth (Sidus Mesh Light will flash rapidly)
7	RESET+ Power	Update Device Firmware from USB	Hold together for 1s	Trigger USB flash drive to update (All Universe Lights will flash together)

2. Indicator Status Lights

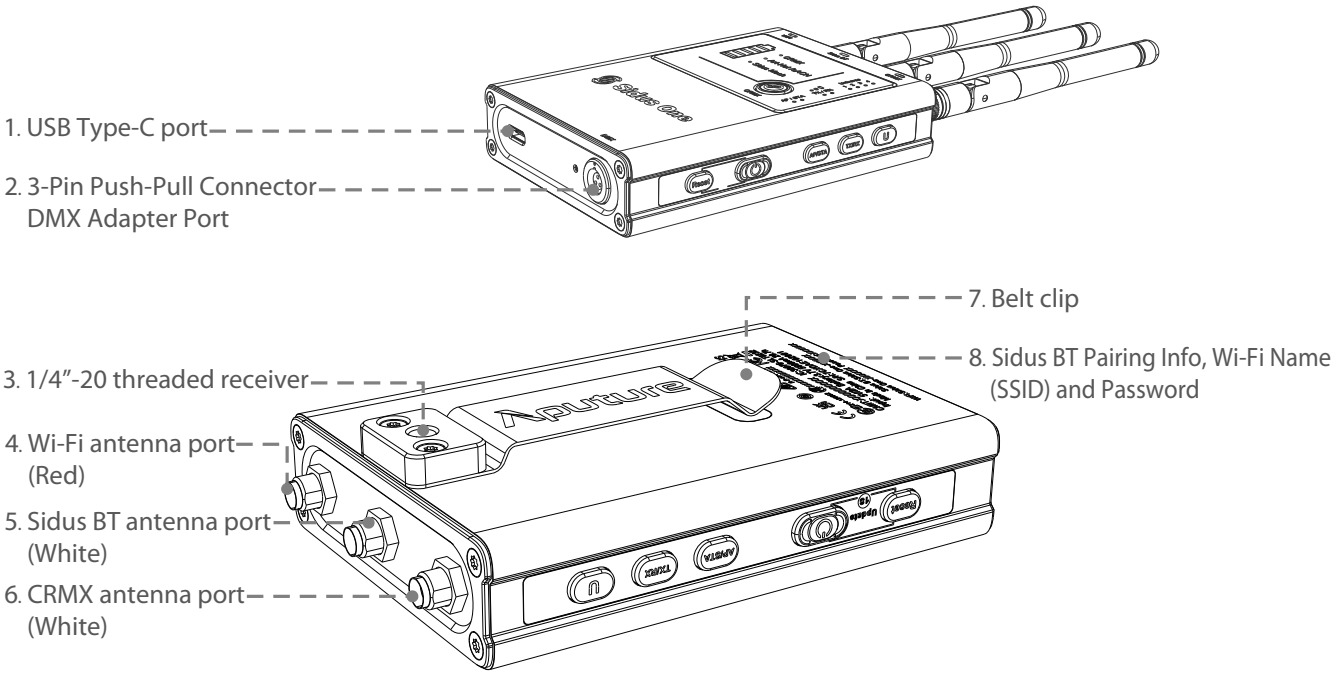


ID Number	Indicator Light	Function	LED Status	Description
1	CRMX	CRMX Status: TX Mode	Slow Flash	No Data present
			Normal Flash	Unlinking all Receivers
			Fast Flash	Sending Link Signal
			Solid	Transmitting Data
		RX Mode	Off	Not linked to a TX
			Slow Flash	Linked to TX but no Data is present
			Fast Flash	Fast Flash (Momentary) | Linking
				Fast Flash (Continuous) | Linked but TX not found
			Solid	Linked to TX and Receiving Data
2	Art-Net/sACN	Wi-Fi Status	Off	No Art-Net or sACN signal found Or Wi-Fi is Off
			Solid	Wi-Fi detected and Receiving Data
			Slow Flash	Wi-Fi is connected but no Data is present
3	Battery	Battery Capacity Lights	5 on	100%
			4 on	80%
			3 on	60%
			2 on	40%
			1 on	20%
			1 on, then blinks off every 5 seconds	10%
			Waterfall	Charging

Continued table:

4	Sidus Mesh	Sidus BT status	Off (TX Mode)	Sidus Mesh is unavailable
			Slow Flash (RX Mode)	Sidus Mesh BT is ready to be paired
			Solid (RX Mode)	Sidus Mesh BT has been paired
			Flashing Rapidly (RX Mode)	Sidus Mesh BT is resetting
5	Universe	Art-Net/sACN Universe over Wi-Fi	1 On	Device set to listen to Art-Net/sACN Universe 1
			2 On	Device set to listen to Art-Net/sACN Universe 2
			3 On	Device set to listen to Art-Net/sACN Universe 3
			4 On	Device set to listen to Art-Net/sACN Universe 4
		Firmware Upgrade Mode	All 4 Universe lights flash	Waiting for USB Drive
			Universe lights blink 1 at a time	Updating
			All 4 on Momentarily	Update Successful
			1, 3 and then 2,4 quickly flash	Update Failed
6	TX/RX	CRMX mode	TX on	CRMX Transmitter Mode
			RX on	CRMX Receiver Mode
	Signal Strength	RX Mode Signal Strength	3 Bars	Strong Signal Strength
			2 Bars	Medium Signal Strength
			1 Bar	Low Signal Strength
			0 Bars	Out of Range of Transmitter
7	AP/STA	Wi-Fi Mode	AP on	Access Point Mode
			STA on	Station/Client Mode
			Off	Wi-Fi is Off
8	DMX	DMX Activity Light	Off	DMX Data is not being sent out the DMX Port（TX Mode） No DMX Data Found（RX Mode）
			On	DMX Data is being sent out of the DMX Port （TX Mode） DMX Data Received（RX Mode）

3. Ports

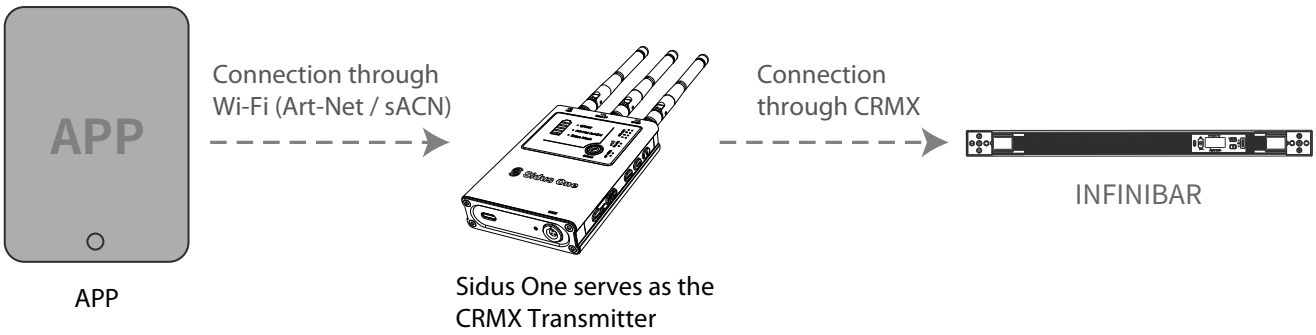


ID Number	Item	Usage
1	USB Type-C port	Charging Sidus One and USB Firmware Updates
2	3-Pin Push-Pull Connector DMX Adapter Port	Send/Receive Wired DMX
3	1/4"-20 threaded receiver	Mounting
4	Wi-Fi antenna port (Red)	Wi-Fi Antenna
5	Sidus BT antenna port (White)	Sidus BT Antenna
6	CRMX antenna port (White)	CRMX Antenna
7	Belt clip	Clip
8	Sidus BT Pairing Info, Wi-Fi Name (SSID) and Password	Connection Information

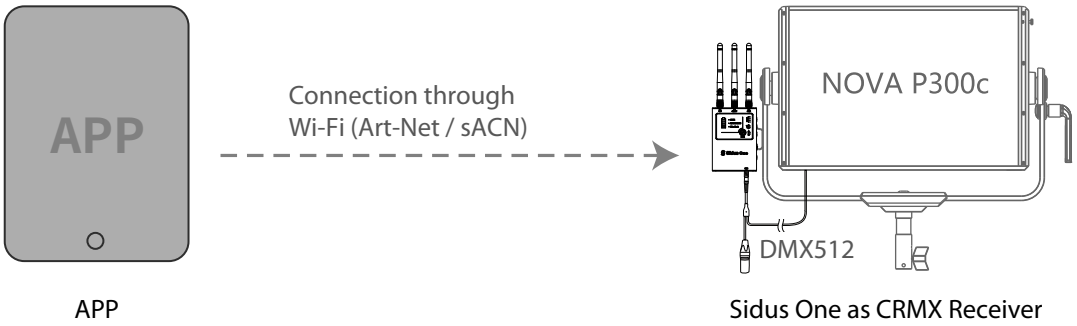
Application Scenarios

1. Art-Net/sACN over Wi-Fi IN to CRMX Transmitter/Wired DMX OUT

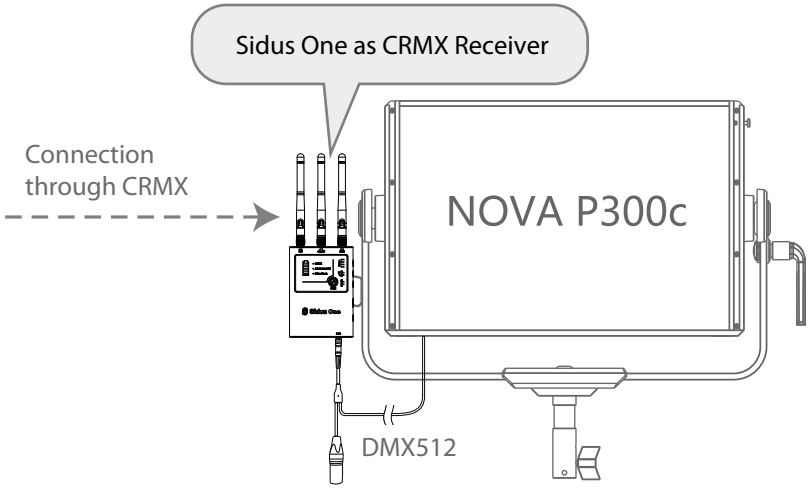
CRMX Transmitter OUT:



Wired DMX OUT:

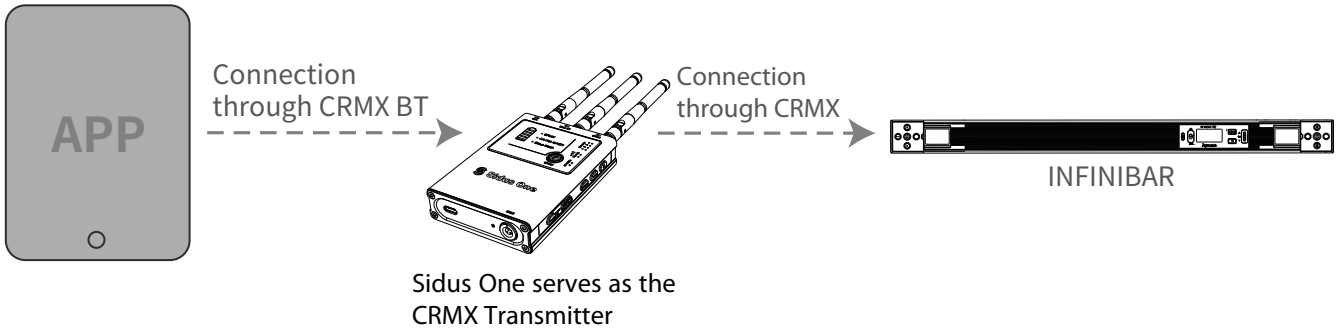


2. CRMX Receiver IN to Wired DMX OUT



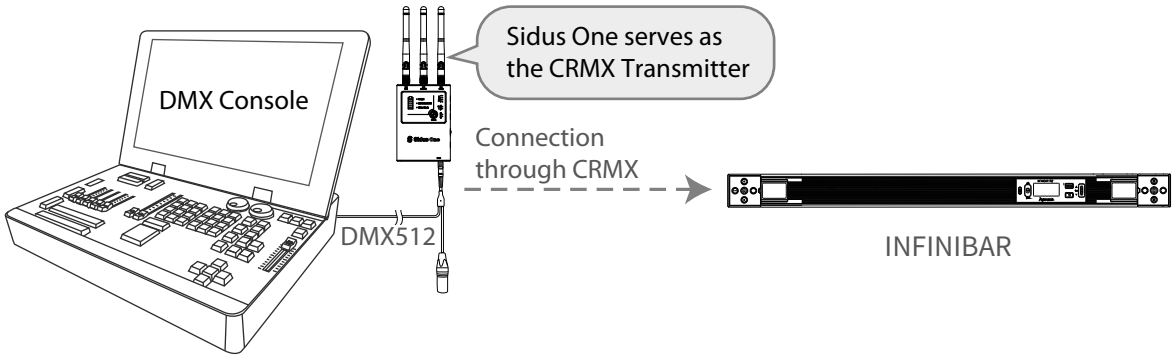
3. CRMX Bluetooth IN to CRMX Transmitter/Wired DMX OUT

CRMX Transmitter DMX OUT:

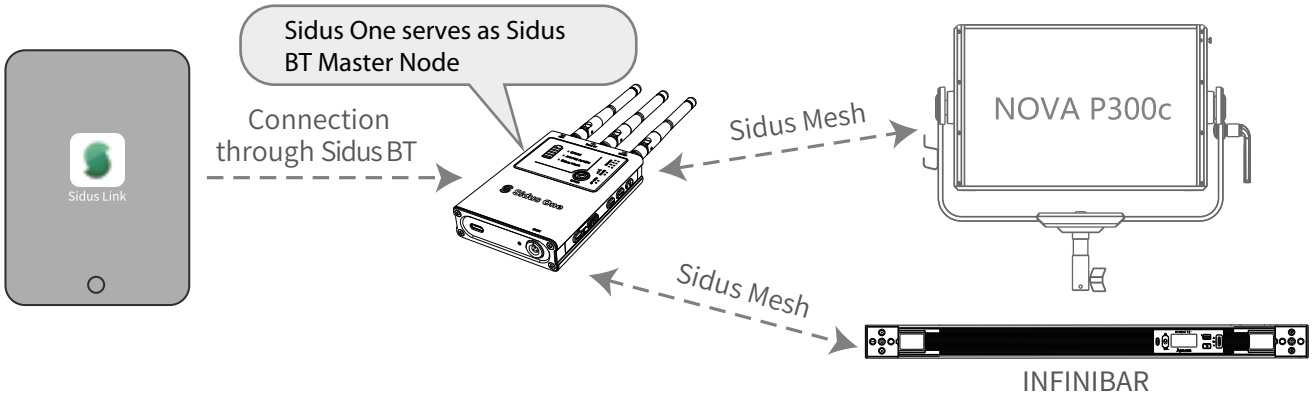


Wired DMX OUT:

4. Wired DMX IN to CRMX Transmitter OUT

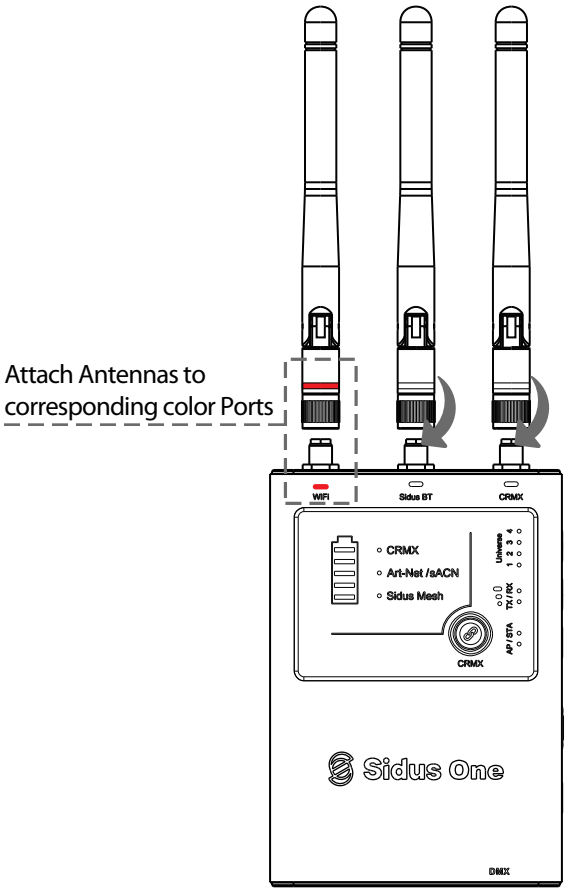


5. Sidus BT Master Node to Sidus BT Compatible Fixtures



Operating Instructions

1. Installing Antennas

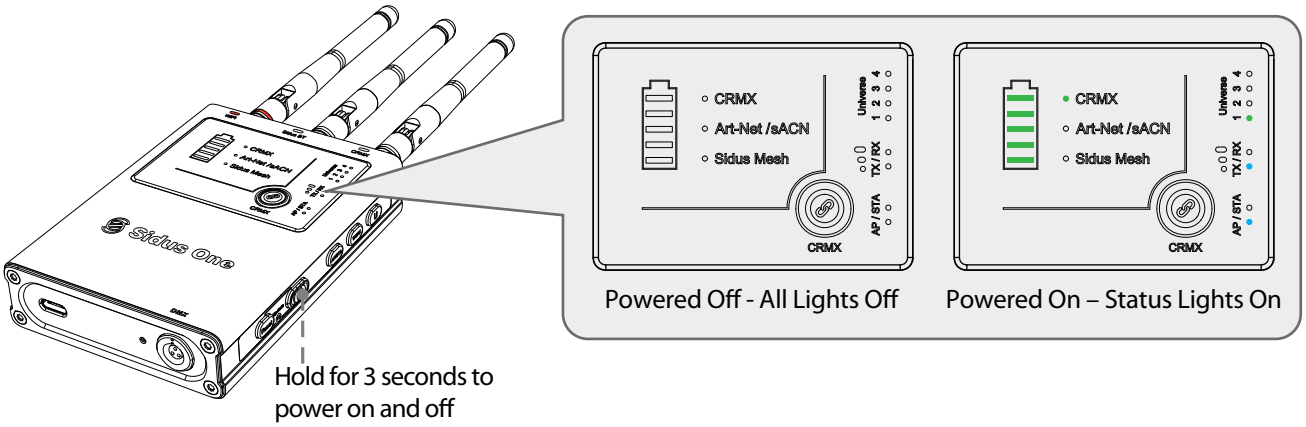


**Note: Incorrectly installing the color coordinated antennas will greatly affect wireless range.*

2. Power and Charging

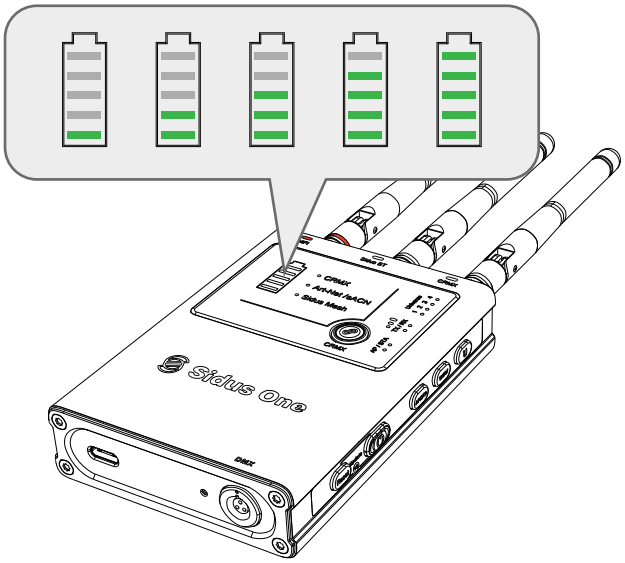
2.1 Powering On/Off

Press and hold the Power Button to turn the Sidus One on and off. The Mode Status Lights and Battery Capacity status lights will illuminate when the unit is turned on.



2.2 Charging

To charge Sidus One, connect the included USB power cable to a 5V/2A charging block. When Sidus One is charging, the battery capacity lights will perform a "waterfall" effect. When Sidus One is powered off and charging, only the battery capacity lights will be illuminated--all other indicator lights will be off.

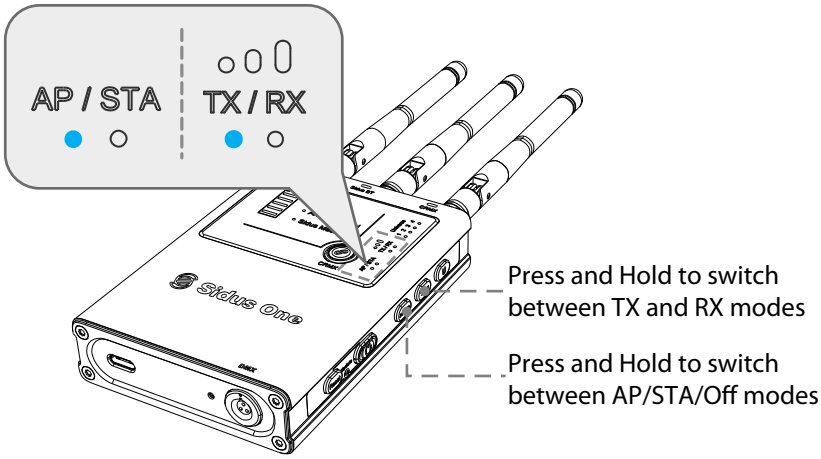


3. Connecting to the Sidus One

3.1Art-Net/sACN over Wi-Fi IN to CRMX Transmitter/Wired DMX OUT

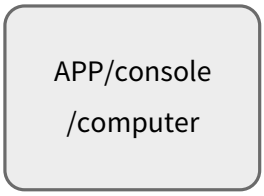
3.1.1 Art-Net/sACN over Wi-Fi IN

(1) Set Sidus One to AP+TX mode

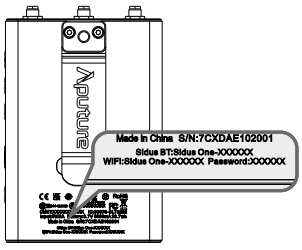


**NOTE: When in AP Mode, the Sidus One acts as a wireless router–broadcasting a Wi-Fi Network. See the back of the device for the network's SSID and password. When in AP Mode, the Sidus One acts as a DHCP server. When in STA Mode, the Sidus One acts as a wireless client within an existing network–software update coming soon.*

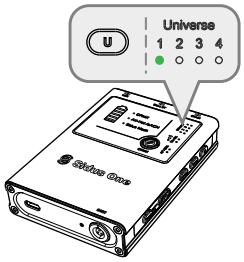
(2) Point the control device to the Sidus One network and log on. Note: The device must support 5GHz networks and be ready to receive its IP address from the Sidus One DHCP Server.



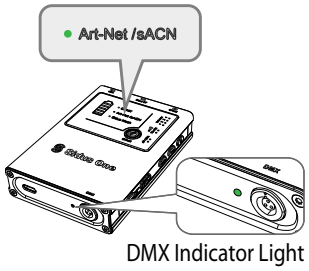
① Open the control device and connect to Sidus One Wi-Fi Network



② The Sidus One unique Wi-Fi Network Name (SSID) and password are printed on the back of each Sidus One.



③ Press and Hold the U button to change DMX Universe: U1 - U4



④ With a successful network connection to your control device and Art-Net/sACN being present with data, the Art-Net/-sACN indicator light will light up solid.

③Set the DMX Universe for the Sidus One to listen for by pressing and holding the "U" Button for 1 second. Sidus One can be set to listen for Art-Net Universe 1 - 4 or sACN Universe 1 - 4.

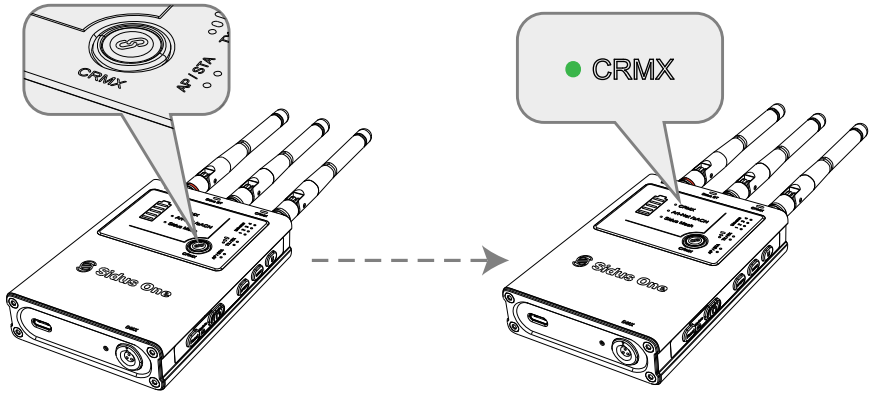
④ Upon successful connection to the Sidus One, if there are Art-Net or sACN protocols present and data is patched on the Universe Sidus is listening for from the control device, then the ArtNet/sACN indicator light will be solid. If DMX data is patched on the Universe Sidus One is set to listen for, the the DMX indicator light will also be solid.

**NOTE: Sidus One does not listen to Art-Net Universe 0. The lighting controller must be set to the same output as the Sidus One.*

3.1.2 CRMX Transmitter OUT

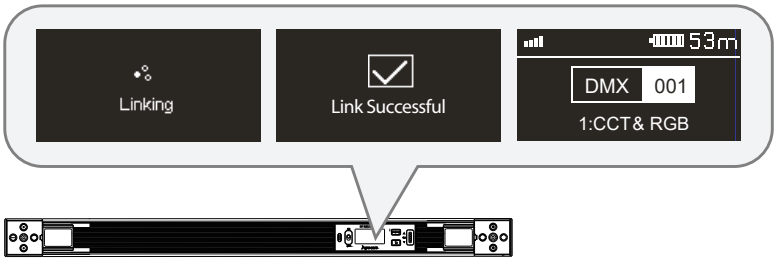
(1) To unlink a previously linked fixture, browse to the CRMX Settings menu and turn on CRMX. If the light has been previously linked to another transmitter, press Unlink.

(2) On the Sidus One, tap the CRMX Link button to initiate CRMX linking. The CRMX Status Light will flash while linking. The CRMX Status Light will be solid on the TX if DMX data is present; if no data is present, the CRMX Status Light will blink slowly.



① Tap CRMX Link button

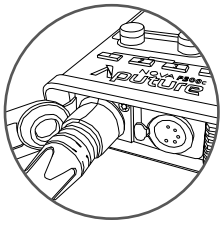
② The CRMX Status Light will blink rapidly while linking.



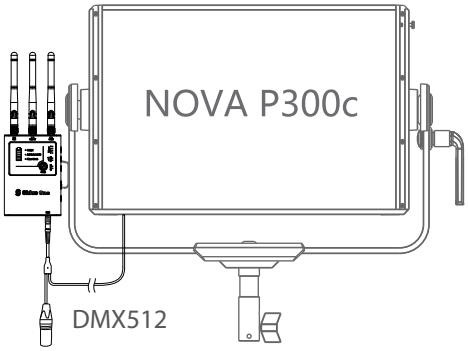
The linked light or receiver will show the CRMX signal strength when connected to the Sidus One TX.

3.1.3 Wired DMX OUT

① Insert DMX IN/OUT Adapter into the DMX Port on the bottom of the Sidus One.



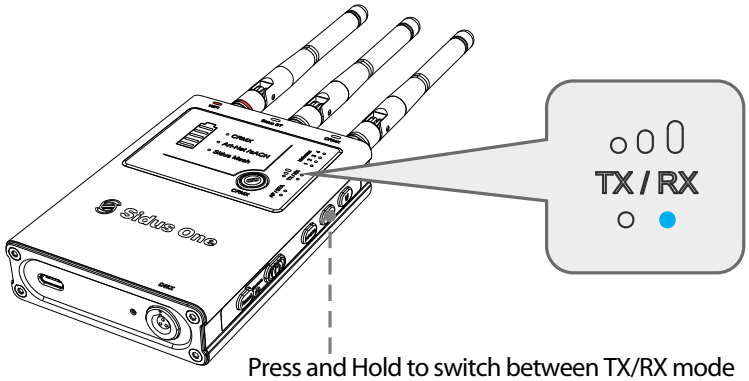
② Plug the 5 Pin Female Out cable into a Light's DMX IN port.



**Note: When used with Aputure fixtures that utilize a USB Port for DMX, an Aputure Active DMX Adapter must be used on the Light. If the product is amaran, an amaran DMX Adapter must be used on the light. (Sidus One does not receive or transmit data via its USB-C port.)*

3.2 CRMX Receiver IN to Wired DMX OUT

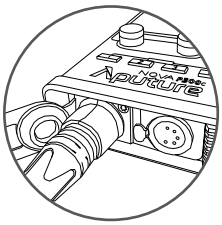
(1) Press and Hold TX/RX button to set to RX mode



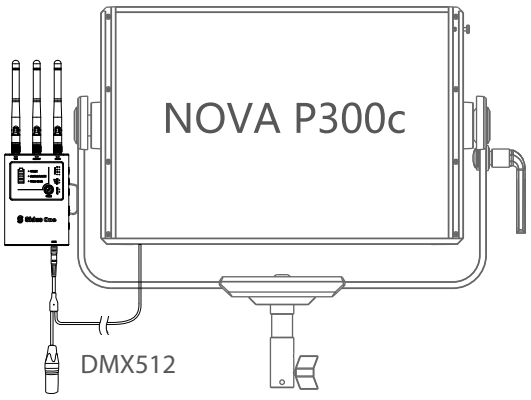
Press and Hold to switch between TX/RX mode

(2) Connect Sidus One to the DMX IN/OUT Adapter. Connect the 5 Pin DMX OUT to the fixture's DMX IN port.

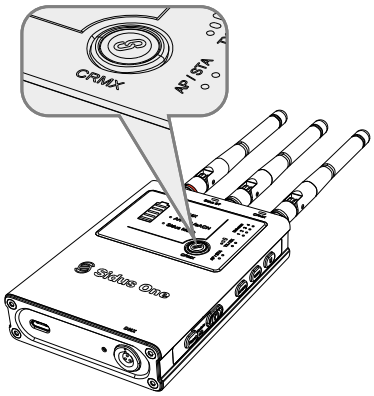
① Insert DMX Adapter into the DMX Port on the bottom of the Sidus One.



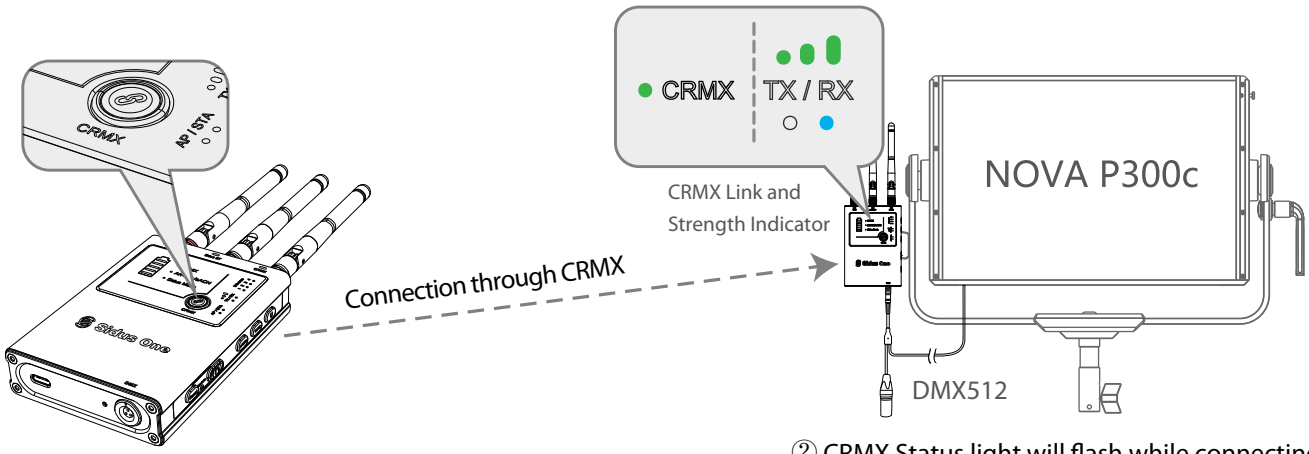
② Plug the 5 Pin Female cable into a Light's DMX IN port.



(3) If the CRMX Status light on the Sidus One is blinking rapidly, it is still linked to a previous transmitter. Press and hold the CRMX Link button for 3 seconds to Unlink from the previous transmitter.



(4) On the CRMX Transmitter, tap the CRMX button to send the link signal to the Sidus One Receiver. The CRMX Status Light will flash rapidly on both devices. Once the Sidus One RX is linked, its CRMX Status Light will remain solid while in range of the TX and data is present.

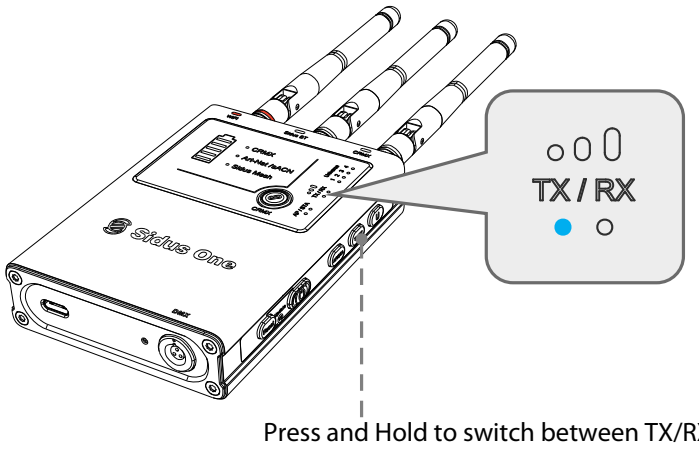


① Tap CRMX Linking button

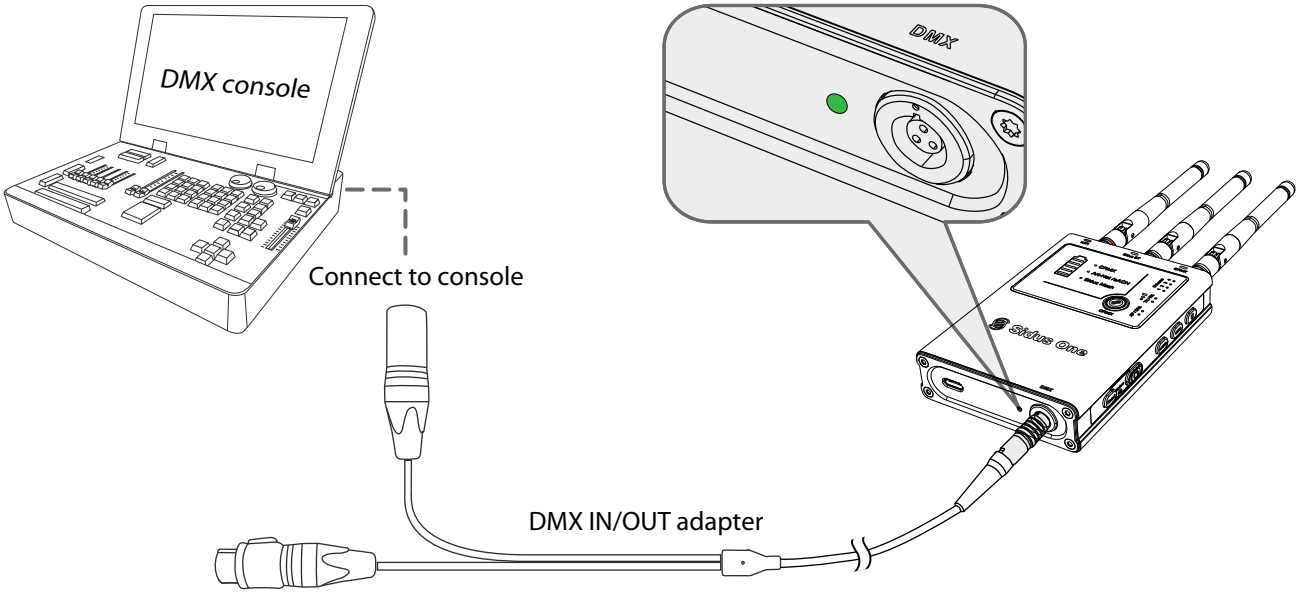
② CRMX Status light will flash while connecting. It will remain solid once it is linked if DMX data is present.

3.3 Wired DMX IN to CRMX Transmitter OUT

(1) Set Sidus One to TX mode

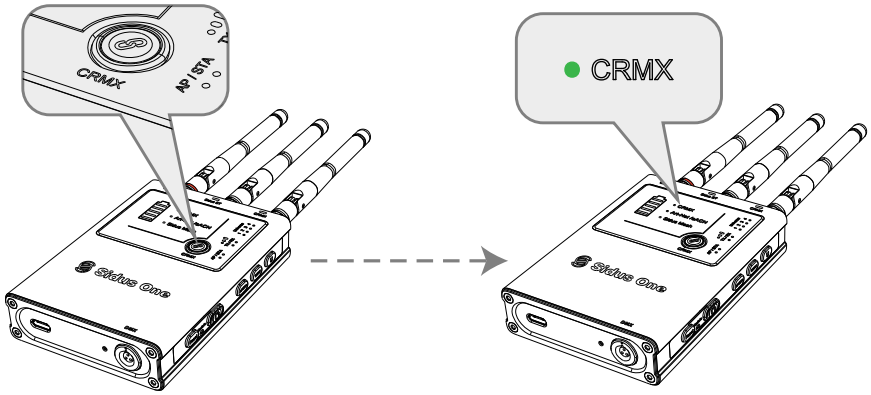


(2) Connect the DMX IN/OUT adapter to the 3 Pin Port and connect the DMX IN Male cable to the console. The DMX Status indicator will illuminate when there is an active DMX512 Signal. The CRMX Light will remain solid when there is an active DMX signal and data is present.

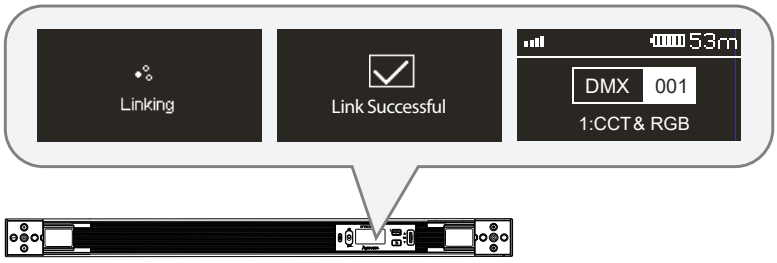


(3) On the light fixture, browse to the CRMX Settings menu. If the light has been previously linked to another transmitter, press Unlink.

(4) On the Sidus One TX, tap the CRMX Link button to initiate CRMX linking.



① Tap CRMX Link button ② The CRMX Status Light will blink rapidly while linking.



The linked light or receiver will show the CRMX signal strength when connected to the Sidus One TX.

3.4 CRMX Bluetooth IN to CRMX Transmitter/Wired DMX OUT

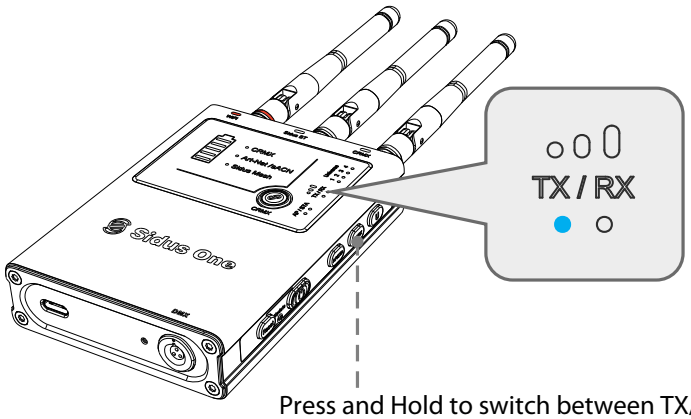
3.4.1 CRMX BT connection IN

(1) On the control device APP, browse to connection methods and connect to Sidus One via CRMX Bluetooth.

**NOTE: Not compatible with Sidus Link*

3.4.2 CRMX Transmitter OUT

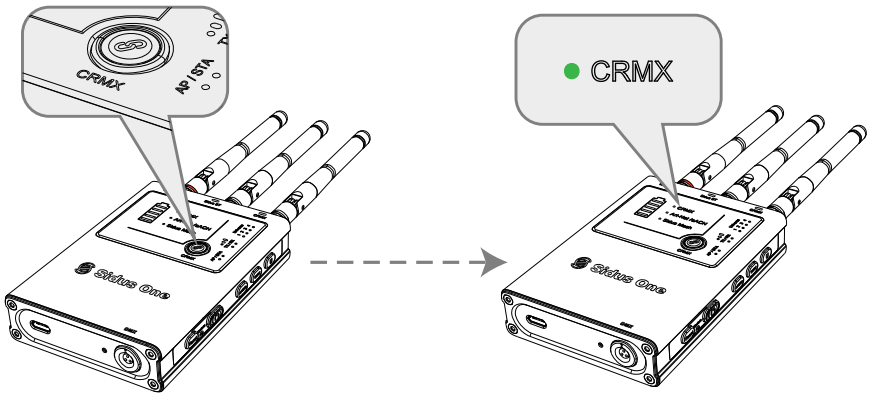
(1) Set the Sidus One to TX mode.



Press and Hold to switch between TX/RX mode

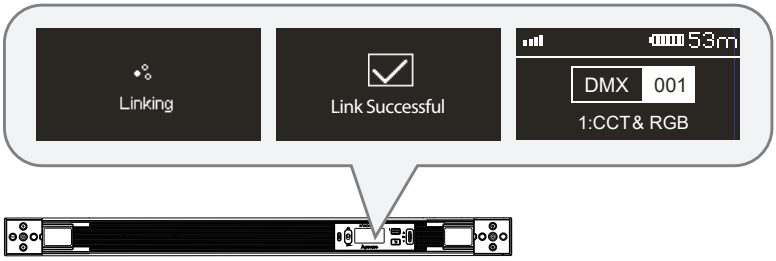
(2) On the light fixture, browse to the CRMX Settings menu. If the light has been previously linked to another transmitter, press Unlink.

(3) On the Sidus One TX, tap the CRMX Link button to initiate CRMX linking.



① Tap CRMX Linking button

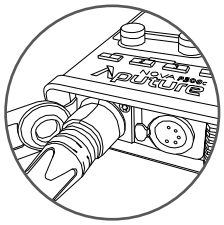
② The CRMX Status Light will blink rapidly while linking.



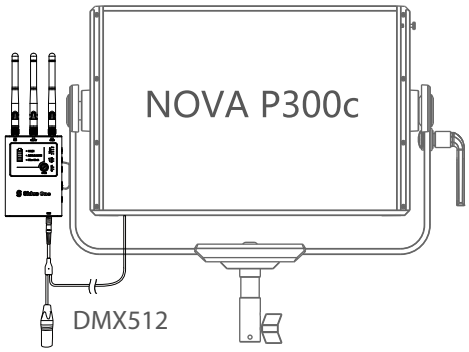
The linked light or receiver will show the CRMX signal strength when connected to the Sidus One TX.

3.4.3 Wired DMX OUT

① Insert DMX IN/OUT Adapter into the DMX Port on the bottom of the Sidus One.



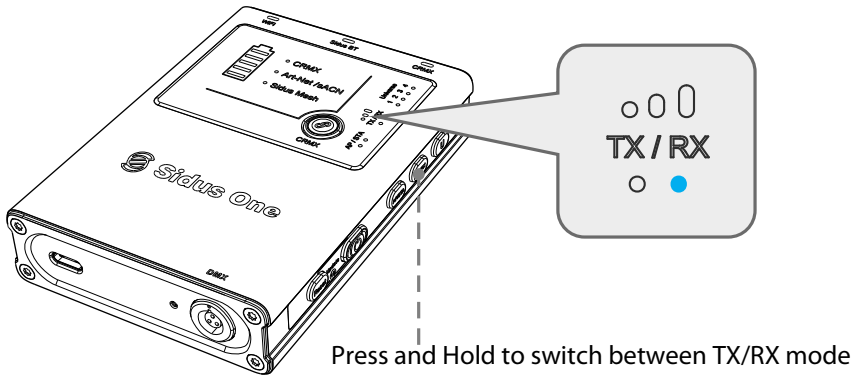
② Plug the 5 Pin Female Out cable into a Light's DMX IN port.



**Note: When used with Aputure fixtures that utilize a USB Port for DMX, an Aputure Active DMX Adapter must be used on the Light. If the product is amaran, an amaran DMX Adapter must be used on the light. Sidus One does not receive or transmit data via its USB-C port.*

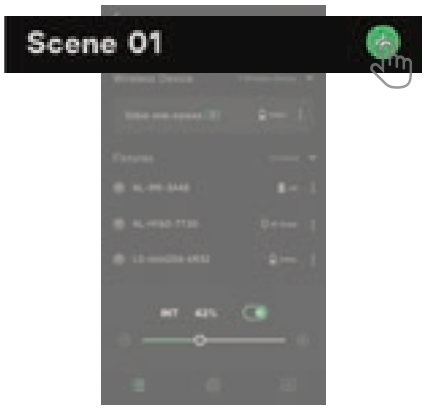
3.5 Sidus BT Master Node to Sidus BT Compatible Fixtures

(1) Tap TX/RX key to set the equipment to RX mode

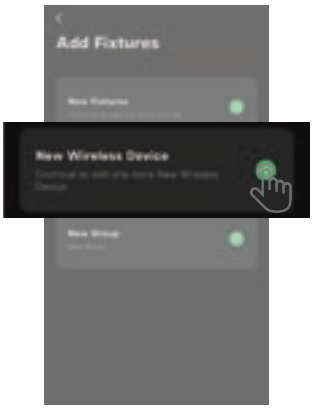


（2）On your Sidus Link compatible device, connect to Sidus One by adding it as a "New Wireless Device" in the "Add Fixtures" section of your chosen Sidus Link "Scene".

① Open your scene.

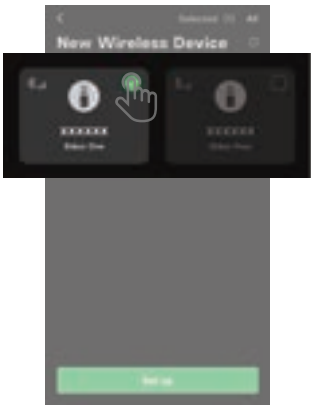


② Select add new device



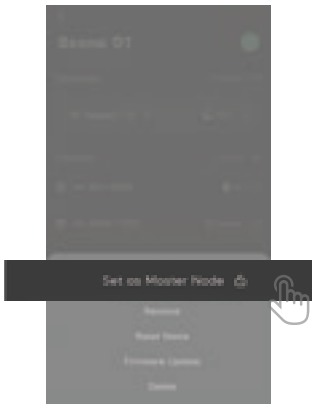
③ Click the + Sign to add a "New Wireless Device"

④ If Sidus One is not found, please confirm that your Sidus One is in RX mode and that its BT is not still paired with another device.

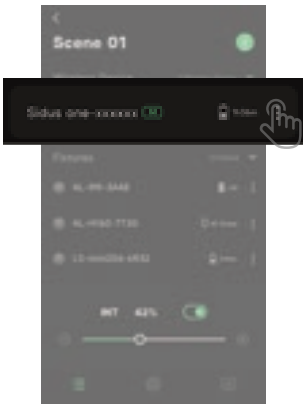


⑤ Select the Sidus One that needs to be configured

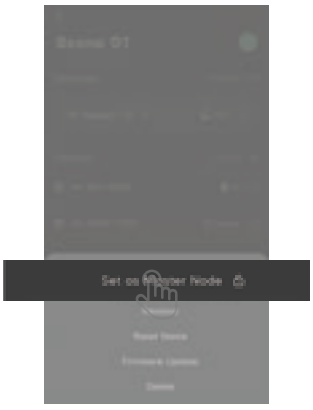
⑥ After the connection is successful, click the 3 dots next to Sidus One



⑦ Choose: "Set as Master Node"

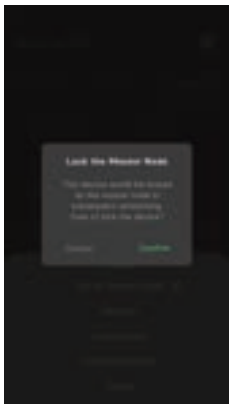


⑧ Click the 3 dots next to Sidus One

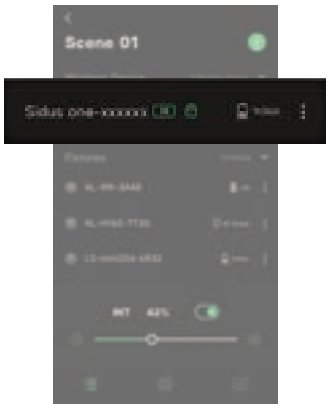


⑨ Click the lock icon

M

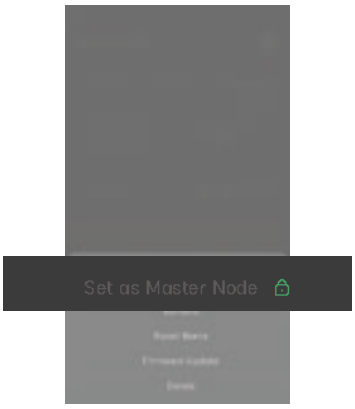


⑩ Click OK



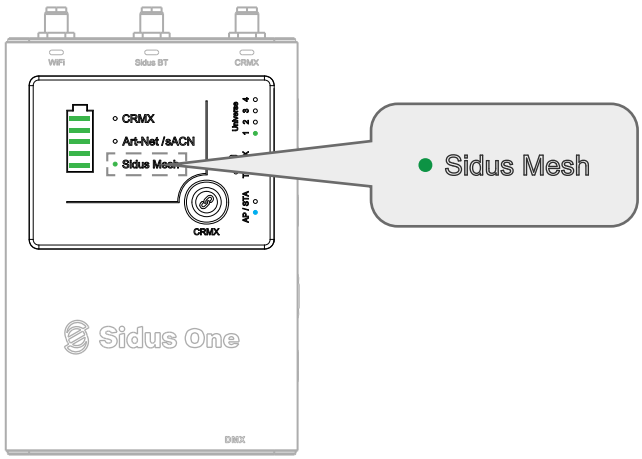
Check to see that the Master node is set and locked.

M



Enter settings and click to unlock.

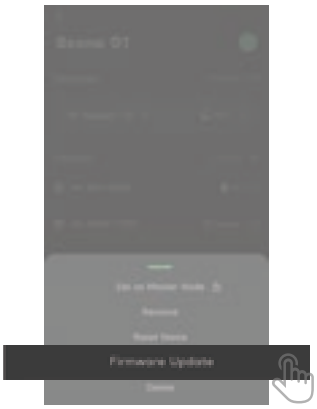
(3) After successful connection, the Sidus Mesh light will illuminate and remain solid to indicate that the Sidus One is paired.



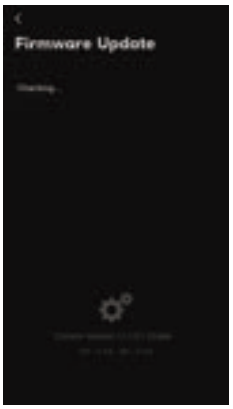
4. Updating the Firmware

4.1 Update via Sidus Link with an active internet connection

① From the Fixture List, select the Sidus One to be updated by pressing its 3 dot icon.



② Press Firmware Update



③ Sidus Link App will check for newer Firmware.

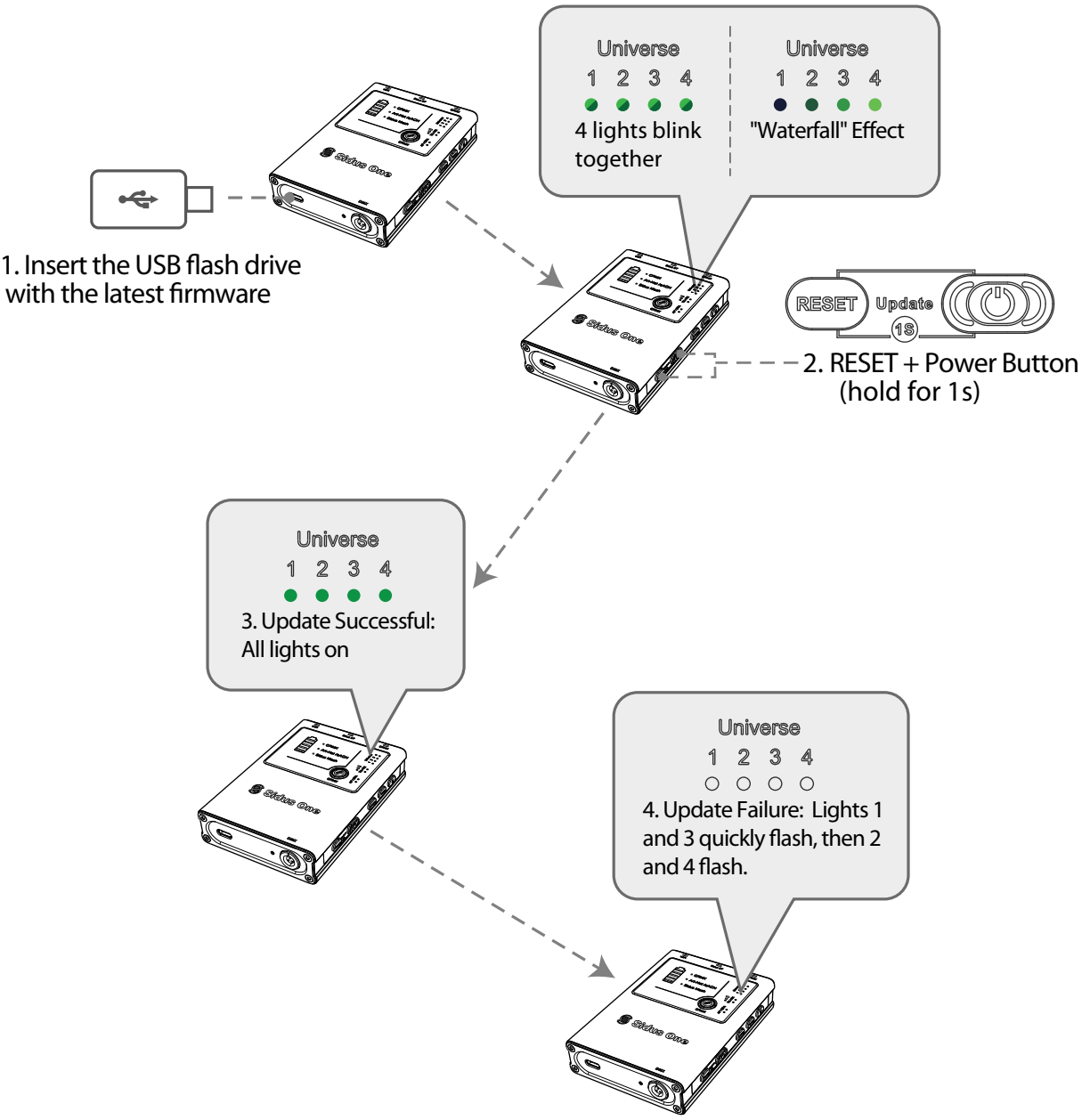
④ Click Update Now

or

⑤ Update successful

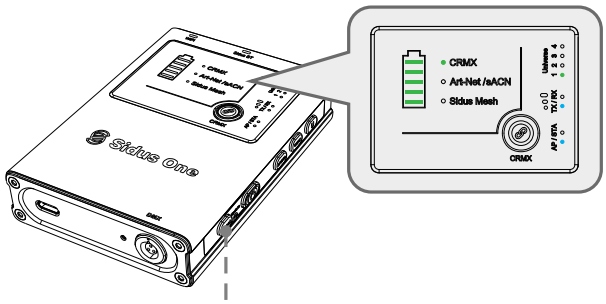
Update failed

4.2 Update by USB

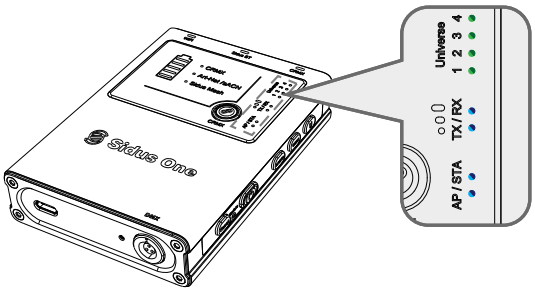


5. Resetting the Device

5.1 Restore Factory Settings



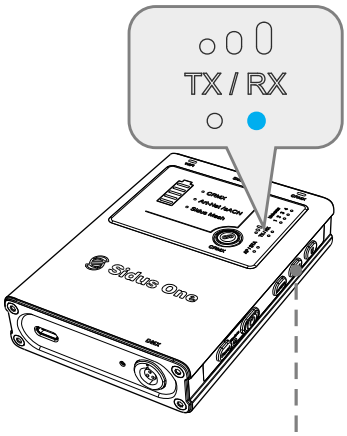
Press and Hold RESET button for 3 seconds



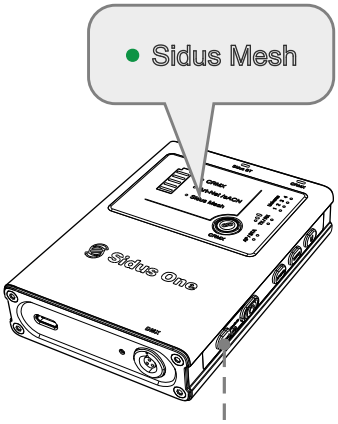
The Mode Status lights all flash when resetting to default.

Function	Default
Wi-Fi Mode	AP Mode
CRMX Mode	TX Mode
Universe	1
Wireless connection	Reset

5.2 Reset Bluetooth



① If in TX mode, press and hold TX/RX to switch to RX mode.



② Double tap RESET button 2 times to reset

** When Resetting Sidus Mesh (Bluetooth), the Sidus Mesh status light will flash rapidly.*

Product Specifications

Name	Sidus One
Product size	113 x 75 x 23.3mm (without antennas)
Net product weight	302g
Operating temperature	From -20°C to 45°C
Protection level	IP54
Gross product weight	756g
Package size	237 x 218 x 50mm

Technical Specifications

Item	Description
Transmission distance[*1]	CRMX: ≤300m
	Wi-Fi: ≤120m
	Sidus BT: ≤180m
Operating frequency bands	Wi-Fi: 5GHz/2.4GHz
	CRMX/Sidus BT: 2.4GHz
DMX compatibility[*2]	CRMX, DMX, RDM, Art-Net, sACN
Battery life[*3]	19h
Battery capacity	3.7V 5600mAh
Charging time[*4]	3.5 hours while powered off
Operating voltage	5V
Universe	1,2,3,4
Waterproofing grade	IP54
Operating temperature	From -20°C to 45°C
Wi-Fi Name (SSID)	(Refer to information printed on the product)
Wi-Fi password[*5]	(Refer to information printed on the product)
Sidus BT (Sidus Mesh) Name	(Refer to information printed on the product)
Wi-Fi mode[*6]	Access Point Mode（AP）/ Client-Station Mode（STA）
CRMX mode[*7]	TX mode/RX mode

Note:

1. Transmission distances may vary depending on your environment.

2. RDM function: On the non-RDM version of Sidus One, RDM is functional in RX Mode only. On the RDM version, both TX Mode and RX Mode have RDM functionality.

3. Actual Battery runtime can vary.

4. Each Sidus One's unique Wi-Fi Network Name (SSID) and Password are printed on the back of the Sidus One.

5. CRMX is for receiving and transmitting wireless DMX data.

Disclaimer

It is important to read the Product Manual of this product prior to use in order to ensure proper use with a complete understanding. The user's guide should be securely stored for future reference after reading. Improper operation of this product may result in severe personal injury to yourself or others, as well as potential damage to the product and loss of property. As soon as you use the product, you are deemed to have understood, recognized and accepted all the terms and contents of the Product Manual Users assume responsibility for their own conduct and any resulting consequences. Aputure is not liable for any damages suffered as a result of the user's failure to use the product in accordance with Product Manual.

Please visit the official website of Aputure for the latest product information.