

# BioStation A2

## 設置ガイド

バージョン 1.02

日本語

JA 101.00.BSA2 V1.02A

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# 安全にお使いいただくために

本製品を安全にお使いいただき、人身への危害や財産への損害を未然に防ぐために、以下の安全に関する指示に従ってください。



指示に従わないと、重傷または死亡につながる可能性があります。

## 設置場所

本製品を、直射日光の当たる場所、湿気の多い場所、埃やすすの多い場所に置かないでください。

- 火災または感電の原因となることがあります。

本製品を、熱器具の近くなど高温になる場所に置かないでください。

- 過熱により火災または感電の原因となることがあります。

本製品を、乾燥した場所に設置してください。

- 湿気のある場所に設置すると、製品損傷または感電の原因となることがあります。

本製品を、電磁妨害のない場所に設置してください。

- 電磁妨害を受けると、製品損傷または感電の原因となることがあります。

本製品を、ご自分で設置または修理しないでください。

- 火災や感電の原因となり、人身障害を招く恐れがあります。
- ご自分で本製品を設置または修理したことにより本製品に損傷が生じた場合、無料の A/S サービスは受けられません。

## お取り扱い

本製品に、水、飲料または薬品などの液体が入らないようにしてください。

- 火災、感電、製品損傷の原因となることがあります。



指示に従わないと、軽傷または製品の損傷につながる可能性があります。

## 設置場所

電源ケーブルを人が通る場所に取り付けしないでください。

- 製品損傷または人身傷害を招く恐れがあります。

本製品を、磁石、テレビ、モニター（特に CRT モニター）、スピーカーなど強い磁気を発する物の近くに置かないでください。

- 製品の故障につながる恐れがあります。

DC 12 V および 500 mA 以上の電源アダプタのみを使用してください。

- 適切な電源が使用されていないと、製品が正常に動作しない場合があります。

本製品を野外に設置する場合は、囲いの中に設置することを推奨します。

Secure I/O 2、電子ロック、および BioStation A2 ごとに独立した電源を使用してください。

- これらのデバイスを同じ電源に接続して使用すると、デバイスが正常に機能しない場合があります。

複数のデバイスを設置する場合は、デバイス間に最低限の間隔を空けてください。

- そうしないと、他のデバイスへの RF 性能が影響を受け、デバイスが通常どおりに動作しなくなる可能性があります。

## お取り扱い

本製品を落下させたり、衝撃を与えたりしないでください。

- 製品の故障につながる恐れがあります。

パスワードを他の人に漏らすことのないように注意して管理し、定期的にパスワードを変更してください。

- そうしないと、不正侵入が発生する可能性があります。

製品のボタンを強く押ししたり、鋭利な工具で押ししたりしないでください。

- 製品の故障につながる恐れがあります。

汚れた手または異物で指紋認証ユニットを汚したり傷つけたりしないように注意してください。

- 指紋認証性能の低下および製品の故障につながる恐れがあります。

本製品を清掃する場合、水、ベンゼンまたはアルコール等を使用せずに、柔らかい乾いた布で製品を拭いてください。

- そうしないと、製品の故障につながる恐れがあります。

BioStation A2 は、静電容量式ボタンを使用します。雨天のために湿った環境になっていたり、製品の表面に水分が付着したりしている場合は、使用する前に、乾燥したタオルで製品を拭いてください。

### RTC バッテリー

正しくないタイプのバッテリーに交換すると、バッテリーが爆発する恐れがあります。

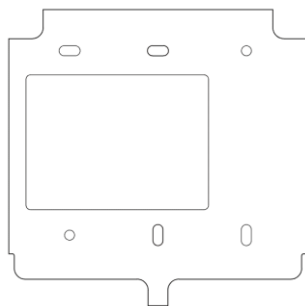
バッテリーの廃棄は、地域または国際的な該当する廃棄物規制に従ってください。

# はじめに

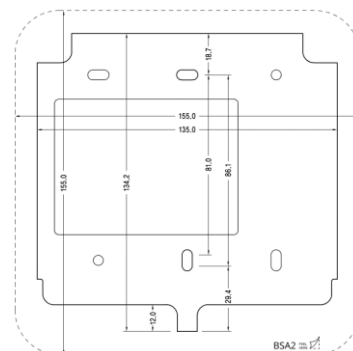
## 部品



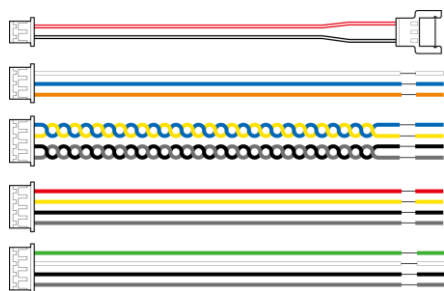
BioStation A2



壁用ブラケット



穴あけ用テンプレート



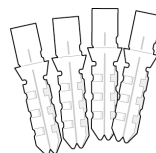
接続ケーブル  
(2ピン1組、3ピン2組、4ピン4組)



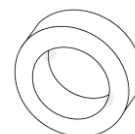
ダイオード



120 Ω 抵抗器



PVC アンカー x 4



フェライト磁心



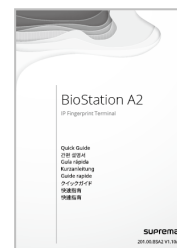
固定ねじ x 4



ブラケット固定ねじ  
(星形)



オープンソースの  
ソフトウェアガイド

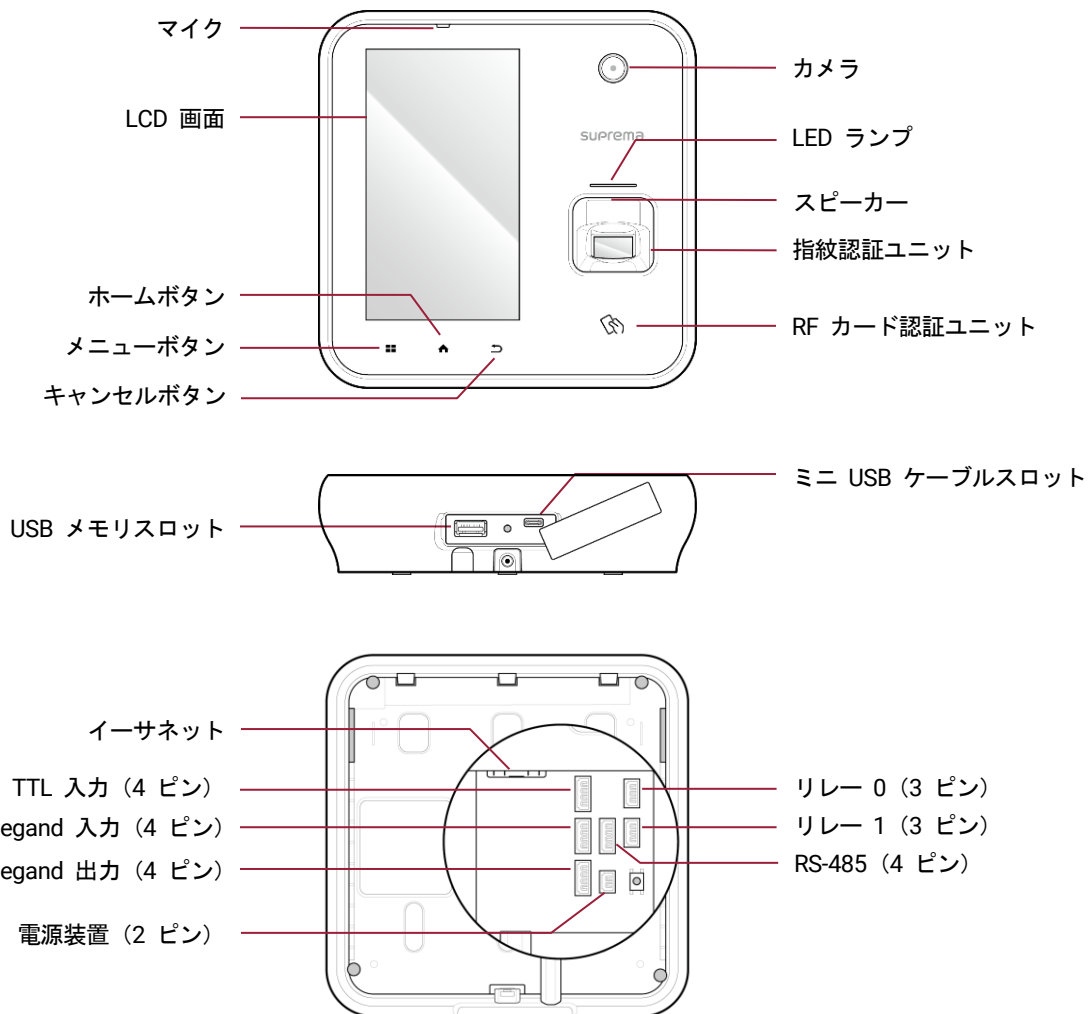


クイックガイド

### 注意

- 部品は設置環境によって異なる場合があります。

## 各部品の名前と機能



名前	説明
マイク	インターフォンが接続されているときに、ユーザーの音声を伝えます。
LCD 画面	操作用の UI があります。
メニューボタン (■)	メニューのリストを表示します。
ホームボタン (🏠)	ホーム画面に移動します。
キャンセルボタン (↶)	前の画面に戻ります。
スピーカー	音を鳴らします。
LED ランプ	製品の動作状態を LED ランプの色で示します。
指紋認証ユニット	入室用に指紋をスキャンする部品。
RF カード認証ユニット	入室用にカードをスキャンする部品。
USB メモリスロット	USB メモリを接続します。
ミニ USB ケーブルスロット	今後サポートされます。
TTL 入力 (4 ピン)	TTL 入力ケーブルを接続します。

RS-485 (4 ピン)	RS-485 ケーブルを接続します。
リレー 0、1 (3 ピン)	リレーケーブルを接続します。
電源装置 (2 ピン)	電源ケーブルを接続します。
イーサネット	イーサネットケーブルを接続します。
Wiegand 入力 (4 ピン)	Wiegand 入出力ケーブルを接続します。
Wiegand 出力 (4 ピン)	Wiegand 入出力ケーブルを接続します。

## ケーブルとコネクタ

### 電源装置



ピン	名前	色
1	PWR +VDC	赤 (白のストライプ)
2	PWR GND	黒 (白のストライプ)

### リレー



ピン	名前	色
1	RLY NO	白
2	RLY COM	青
3	RLY NC	オレンジ

### RS-485



ピン	名前	色
1	485 TRXP	青
2	485 TRXN	黄
3	485 GND	黒
4	SH GND	グレー

### TTL 入力



ピン	名前	色
1	TTL IN0	赤
2	TTL IN1	黄
3	TTL GND	黒
4	SH GND	グレー

### Wiegand 入力および出力



ピン	名前	色
1	WG D0	緑
2	WG D1	白
3	WG GND	黒
4	SH GND	グレー

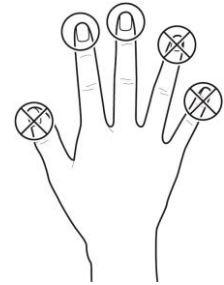


## 指紋を登録する方法

指紋の認証率を上げるために、指紋を正しく登録してください。BioStation A2 では、ユーザーの指紋入力角度と位置が変化しても指紋を認識できます。指紋を登録する際に次の点に注意すると、認証率が上がる場合があります。

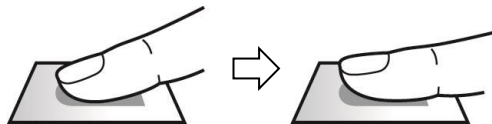
### 指紋を入力する指を選ぶ

- 特定の指の指紋を使用できない場合、例えば片手で荷物を持ち上げていたり、指に怪我をしていたりする場合に備えて、ユーザーごとに最大 10 個の指紋を登録できます。
- 指紋がうまく認識されない場合は、2 回連続して同じ指で登録すると認証率が上がる場合があります。
- 指に切り傷がある場合や、指紋がはっきりしない場合は、別の指の指紋を登録します。
- 指紋をスキャンする際に人差し指または中指を使用することを推奨します。指紋センサーの中央に別の指を正確に置くことが難しい場合は、認証率が低下する場合があります。



### 指紋の登録方法

- 1 [Scan the fingerprint.] というメッセージが指紋の登録用の LCD 画面に表示されたら、指紋を登録する指を指紋認証ユニットに置き、認証率を上げるために指を軽く押し付けます。



- 2 ビープ音の後に再入力画面が表示されたら、登録した指の指紋を再度スキャンします（登録する指の指紋を 2 回スキャンします）。

#### 注意

##### 指紋の登録に関する注意

指紋認識時には最初に登録した指紋と照合されるため、最初の指紋登録が最も重要です。指紋を登録する際は次の点に注意してください。

- 指をセンサーに密着させてしっかりと押し付けます。
- 指紋の中央をセンサーの中央に合わせます。
- 指に切り傷がある場合や、指紋がはっきりしない場合は、別の指の指紋を登録します。
- 画面の指示に従って、指を動かさずに指紋を正しくスキャンします。
- 指を動かしてセンサーとの接触面が小さくなったり指の角度が変わったりすると、指紋認証が行われない場合があります。



##### 指紋認識が失敗した場合

BioStation A2 は、季節の変化や指の状態にかかわらず、指紋を認識できます。ただし、認証率は、外部環境や指紋入力方法によって異なる場合があります。

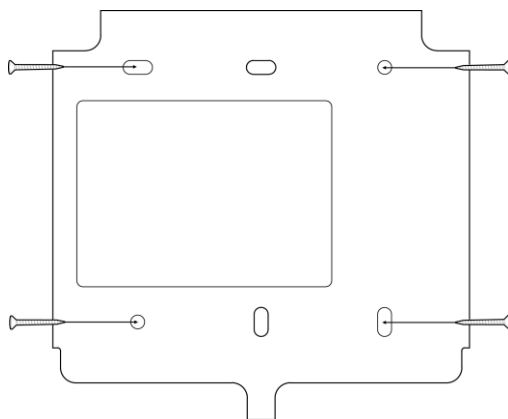
指紋認証がスムーズにいかない場合は、以下の措置を講じることをお勧めします。

- 指が水や汗で濡れている場合は、指を乾かしてからスキャンします。
- 指が乾燥し過ぎている場合は、指先に息を当ててから指をスキャンします。
- 指を切った場合は、別の指の指紋を登録します。
- 最初に登録した指紋が正しくスキャンされていない場合があるため、「指紋の登録に関する注意」に従って、もう一度指紋を登録してください。

# 設置場所

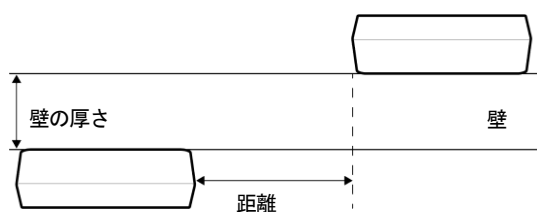
## ブラケットと製品の固定

- 1 付属のドリル用テンプレートを使用して、ブラケットを取り付ける正しい位置を決定します。固定ねじをブラケットに通して、BioStation A2 の取り付け位置にブラケットをしっかり固定します。

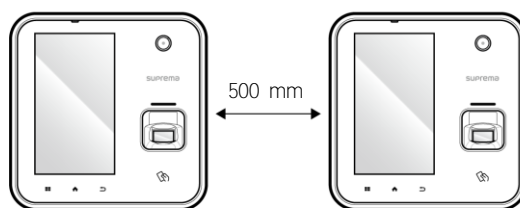


### 注意

- コンクリート壁に BioStation A2 を設置する場合は、ドリルで穴を開け、PVC アンカーを挿入して、固定ねじで固定します。
- RF 干渉を回避するには、最小分離距離を維持する必要があります。

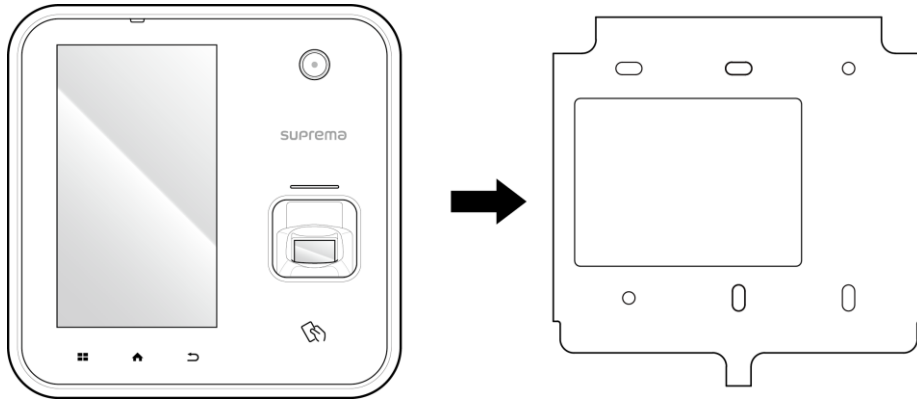


### 壁

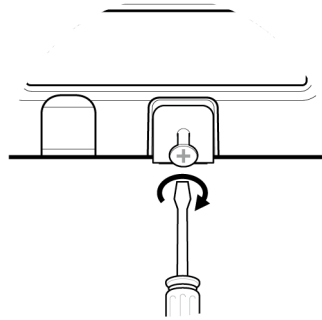


壁の厚さ	距離
100 mm	500 mm
120 mm	400 mm
150 mm	300 mm

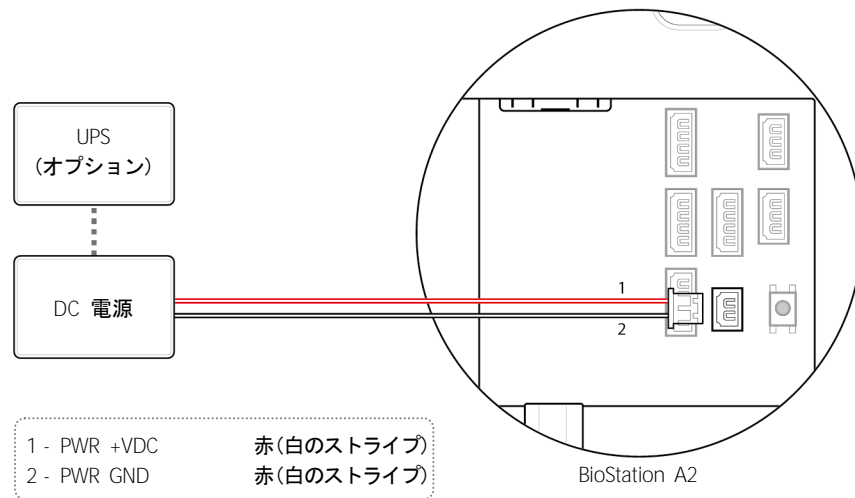
- 2 ケーブルカバーを組み付け、BioStation A2 を固定ブラケットに取り付けます。



- 3 BioStation A2 の製品固定ねじを回して、BioStation A2 をブラケットに組み付けます。



## 電源装置の接続



### 注意

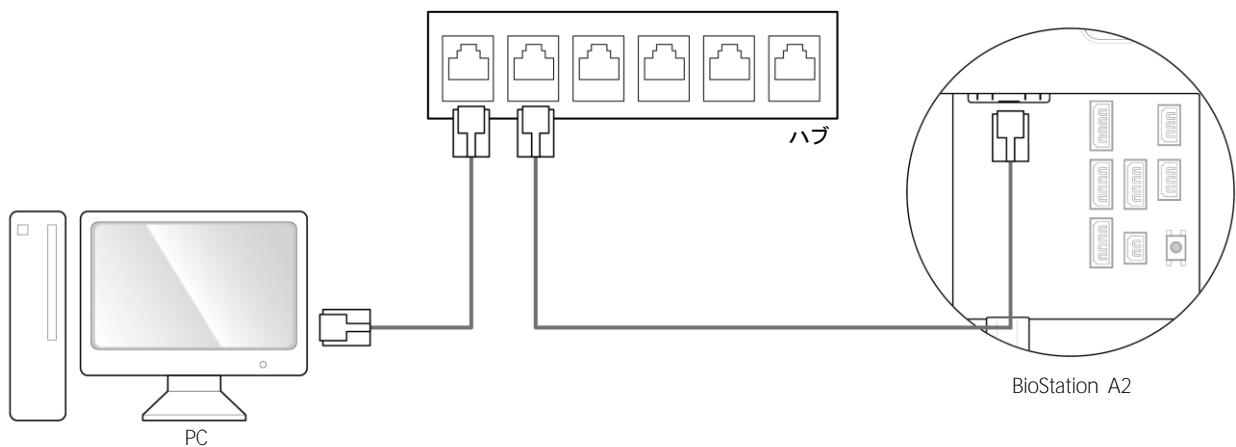
- IEC/EN 60950-1 の認可を受けた 1,500 mA 以上の DC 12 V (± 10 %) 電源アダプタを使用します。別のデバイスを電源アダプタに接続して使用する場合は、端末と別のデバイスに必要な合計電力消費量以上の電流容量を備えたアダプタを使用してください。
- Secure I/O 2、電子ロック、および製品ごとに独立した電源を使用してください。これらのデバイスを同じ電源に接続して使用すると、デバイスが正常に機能しない場合があります。
- デバイスを DC 電源 (またはアダプタ) と PoE 電源の両方に同時に接続しないでください。

## ネットワーク接続

### TCP/IP

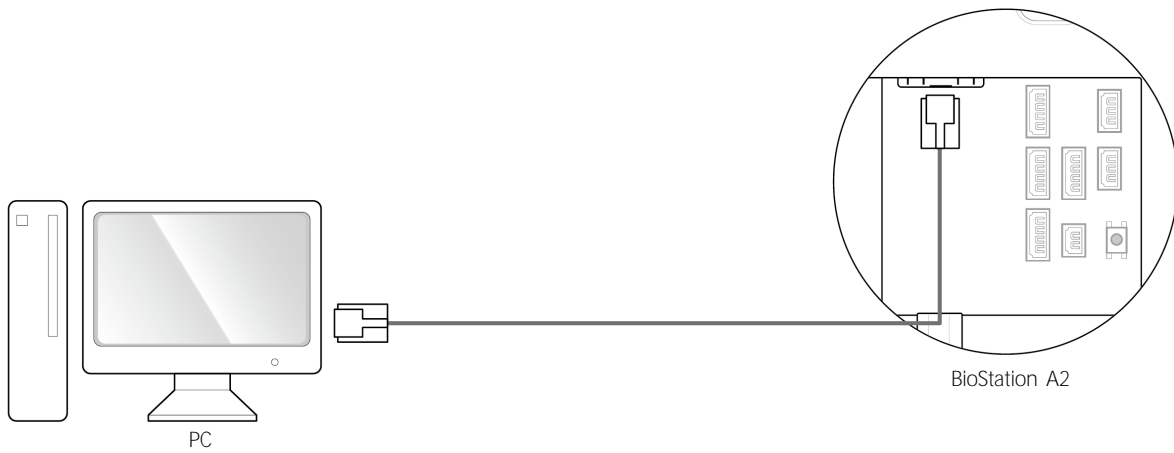
#### LAN 接続 (ハブに接続)

一般的なタイプの CAT-5 ケーブルを使用して、製品をハブに接続できます。

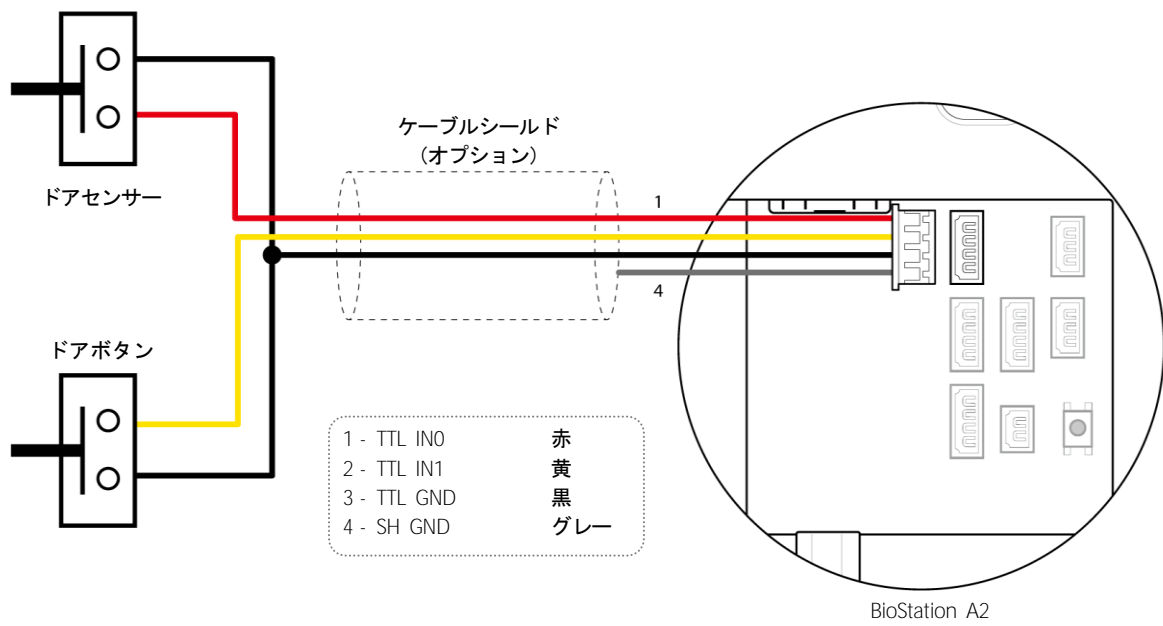


### LAN 接続 (直接 PC に接続)

BioStation A2 には、通常のストレートタイプの CAT-5 ケーブルまたはクロスケーブルを使用して直接 PC に接続できるように、自動 MDI/MDIX 機能が搭載されています。



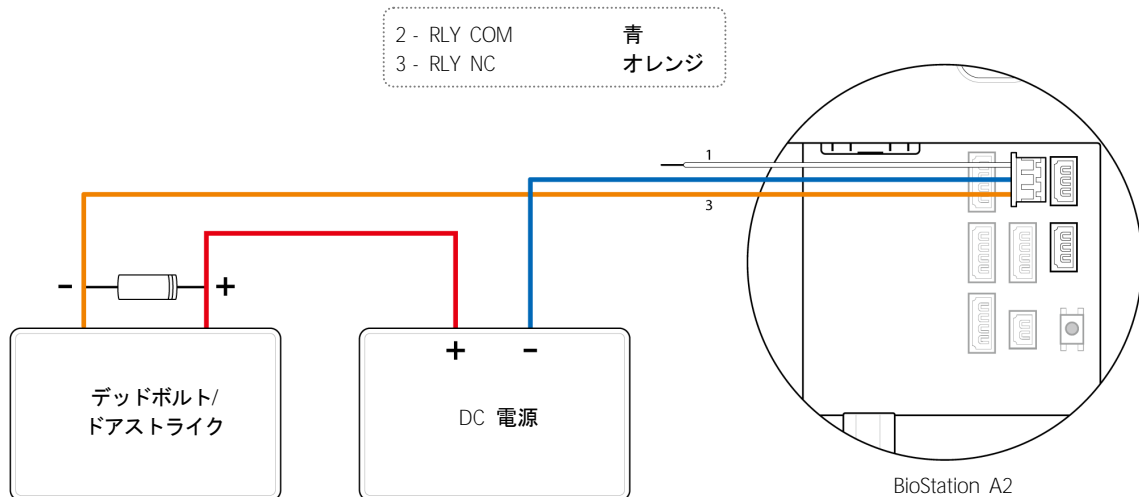
### TTL 入力および出力の接続



## リレー接続

### フェールセーフロック

フェールセーフロックを使用するために、下の図のように N/C リレーを接続します。通常、フェールセーフロック用のリレーには電流が流れています。リレーが作動して電流が遮断されると、ドアが開きます。停電や外部の要因のために製品に接続した電源が切断された場合は、ドアが開きます。

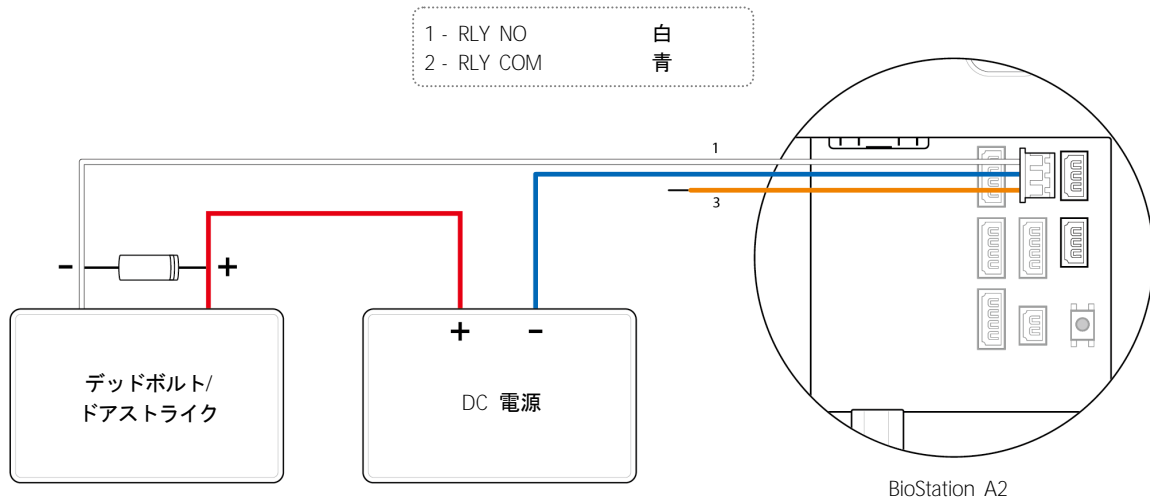


#### 注意

- 図のようにドアロックワイヤーの両側にダイオードを取り付けて、ドアロックの作動時に発生する逆電流からリレーを保護します。
- ダイオードの設置方向に注意してください。ダイオードはドアロックの近くに取り付けます。
- BioStation A2 とドアロックには別々の電源を使用してください。
- Suprema のスタンドアロン型インテリジェントリーダーには、外部コントローラなしでドアを直接ロック/アンロックできる内部リレーが内蔵されており、利便性が向上しています。ただし、セキュリティを必要とする入退管理の用途では、ドアのロック解除を引き起こす可能性のある改ざん攻撃を防止するため、リーダーの内部リレーの使用はお勧めしません。このような用途では、ドアの安全な側に設置された Suprema の Secure I/O 2、DM-20、CoreStation などのロックコントロールには個別のリレーユニットを使用することを強くお勧めします。

## フェールセキュアロック

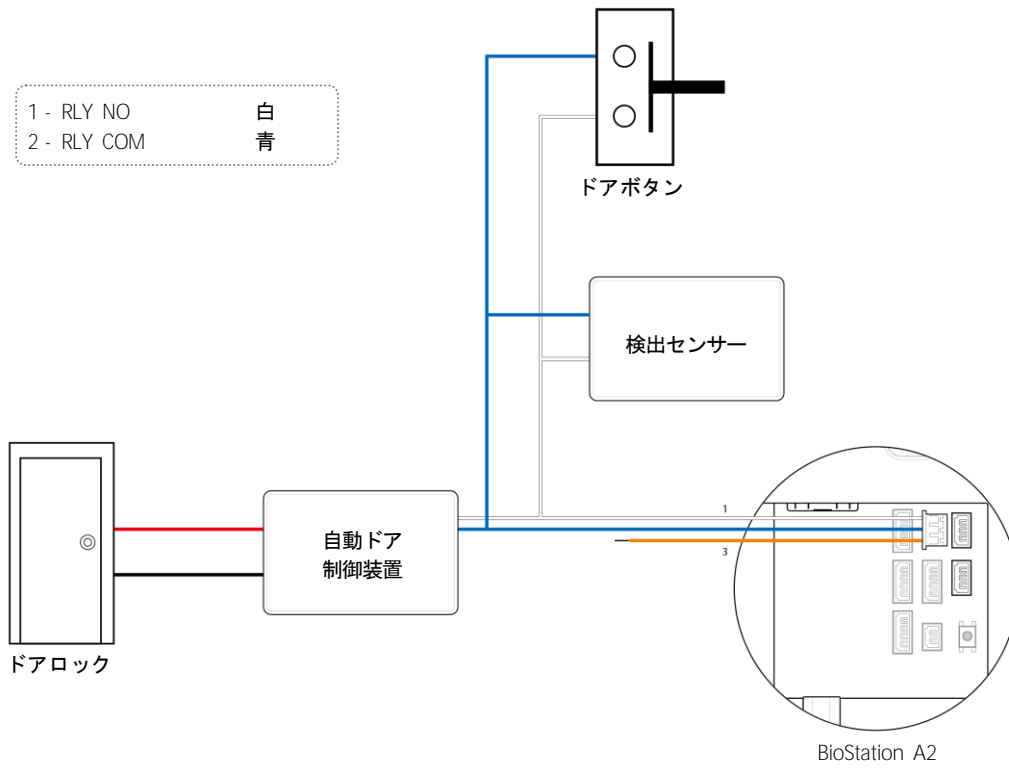
フェールセキュアロックを使用するには、下の図のように N/O リレーを接続します。通常、フェールセキュアロック用のリレーに電流は流れていません。電流がリレーによって作動すると、ドアが開きます。停電や外部の要因のために、製品に接続した電源が切断された場合は、ドアがロックします。



### 注意

- 図のようにドアロックワイヤーの両側にダイオードを取り付けて、ドアロックの作動時に発生する逆電流からリレーを保護します。
- ダイオードの設置方向に注意してください。ダイオードはドアロックの近くに取り付けます。
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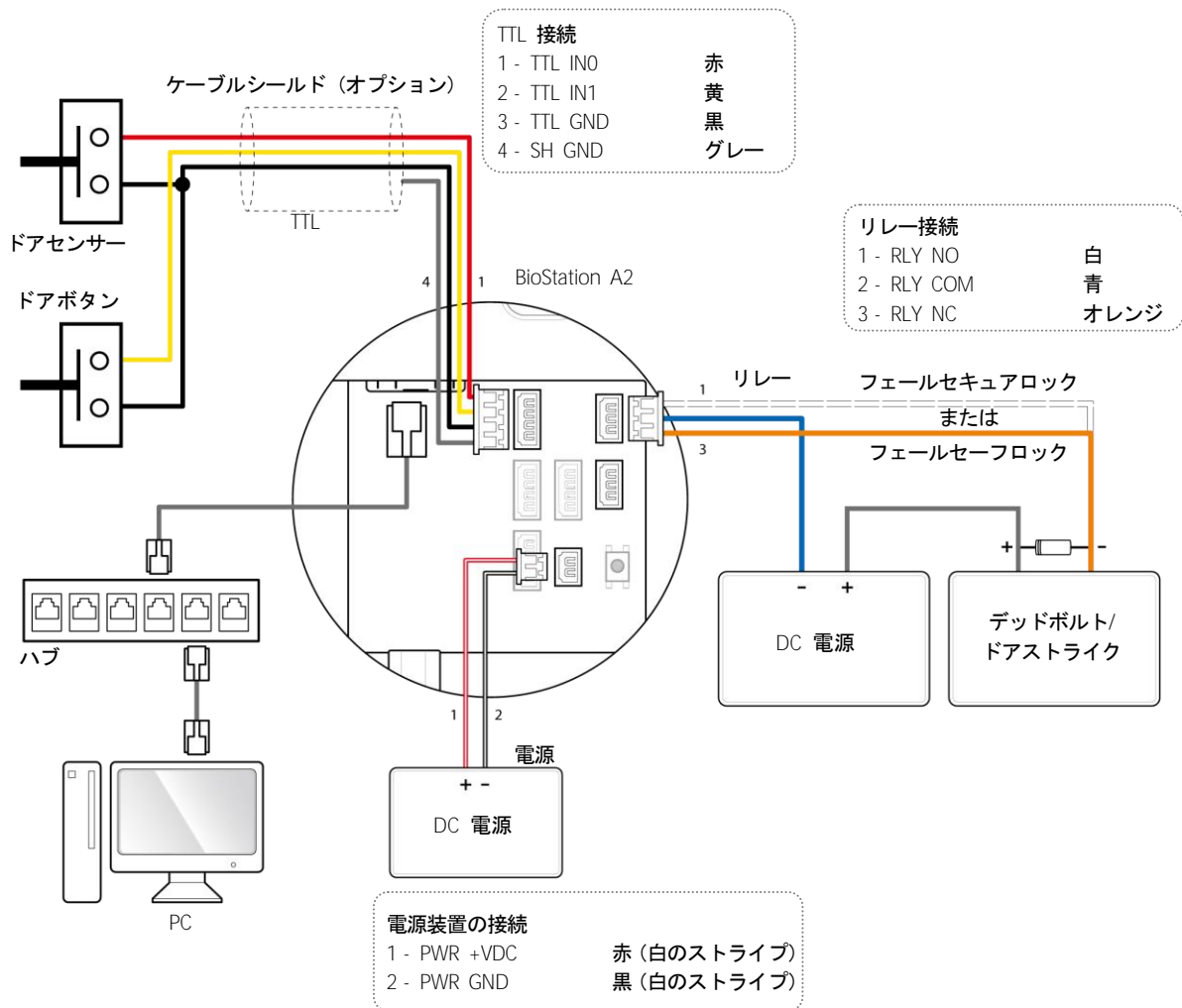
## 自動ドア接続





## スタンドアロンでの接続

BioStation A2 は、個別の I/O デバイスを接続せずにドアロック、ドアボタン、およびドアセンサーに直接接続できます。



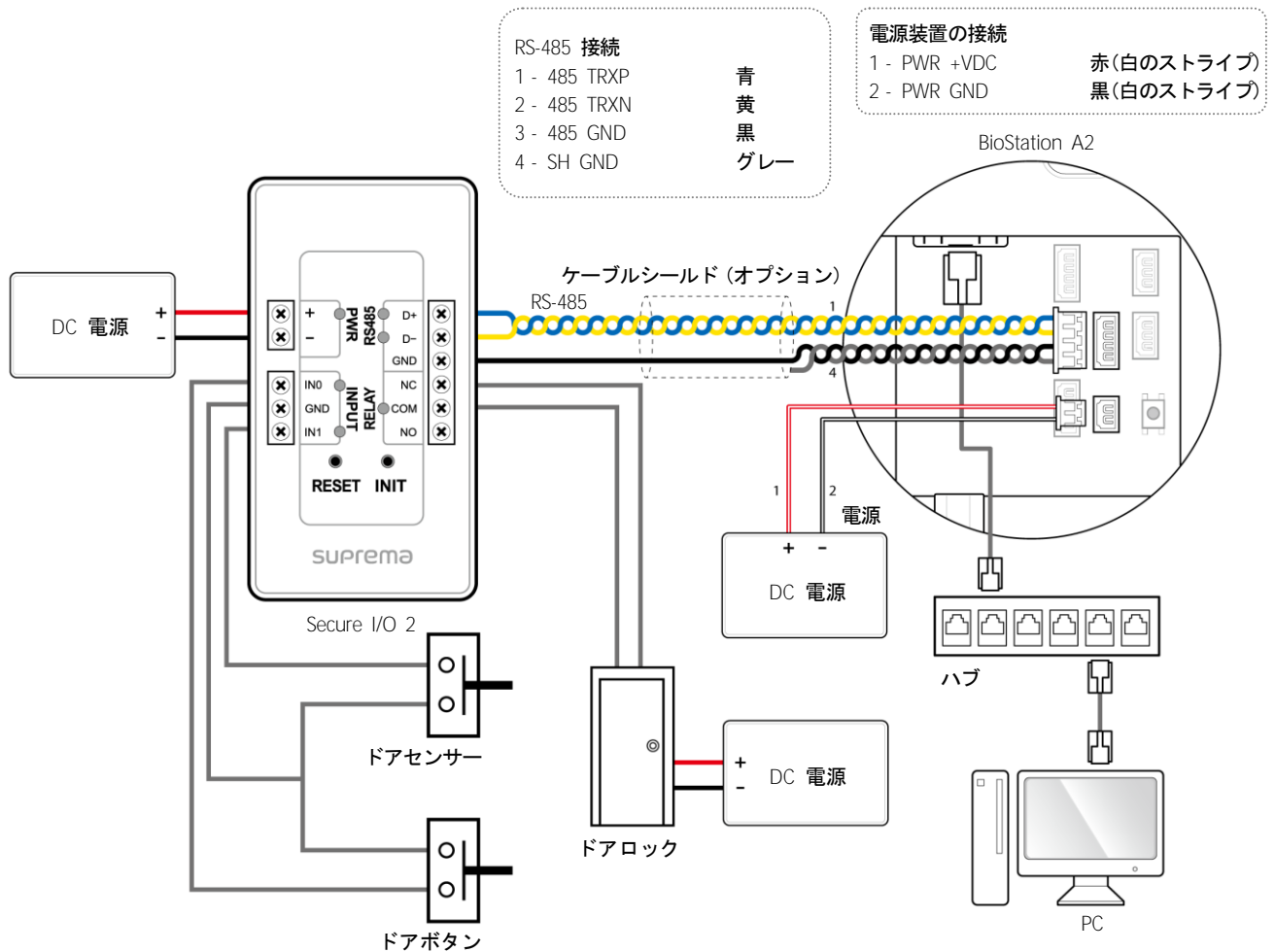
### 注意

- Suprema のスタンドアロン型インテリジェントリーダーには、外部コントローラなしでドアを直接ロック/アンロックできる内部リレーが内蔵されており、利便性が向上しています。ただし、セキュリティを必要とする入退管理の用途では、ドアのロック解除を引き起こす可能性のある改ざん攻撃を防止するため、リーダーの内部リレーの使用はお勧めしません。このような用途では、ドアの安全な側に設置された Suprema の Secure I/O 2、DM-20、CoreStation などのロックコントロールには個別のリレーユニットを使用することを強くお勧めします。
- BioStation A2 は、RS485 ケーブルでスレーブデバイスと接続したマルチドアコントローラとして使用できます。スレーブデバイスはダミーリーダーとして使用され、認証はマスターデバイスで実行されます。
- Xpass がマスターデバイスに接続されている場合は、カード認証のみを使用できます。
- 接続できるスレーブデバイスの最大数は、認証方式、ユーザー数、およびデバイス数によって異なります。また、スレーブデバイスの数が指紋認証の速度に影響します。
- 1 台のマスターデバイスで 31 台のスレーブデバイスを制御できます。RS485 の帯域幅では、最高 7 台の指紋認証デバイスを接続できます。
- 詳細については、Suprema 技術サポートチーム (support@suprema.co.kr) にお問い合わせください。

## Secure I/O 2 への接続

Secure I/O 2 は、RS-485 ケーブルで BioStation A2 に接続できる I/O デバイスです。BioStation A2 と Secure I/O 2 の間の接続が失われたり、外部要因により BioStation A2 への電源が切断されたりしても、セキュリティを維持できます。

- RS-485 ケーブルには、最大長が 1.2 km の AWG 24 ツイストペアを使用します。
- RS-485 のデジチェーンで接続する場合は、デジチェーン接続の両端に終端抵抗 (120 Ω) を接続してください。中央の線に接続すると、信号レベルが小さくなり、通信性能が低下します。必ずデジチェーン接続の両端に接続してください。

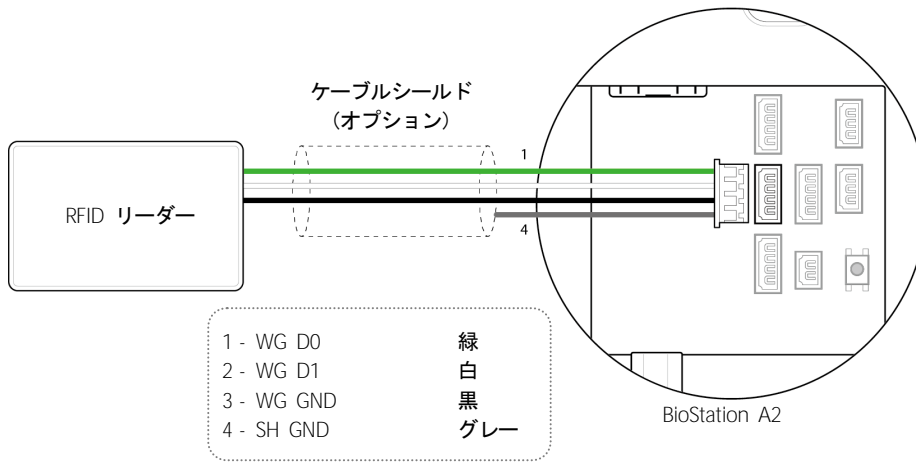


### 注意

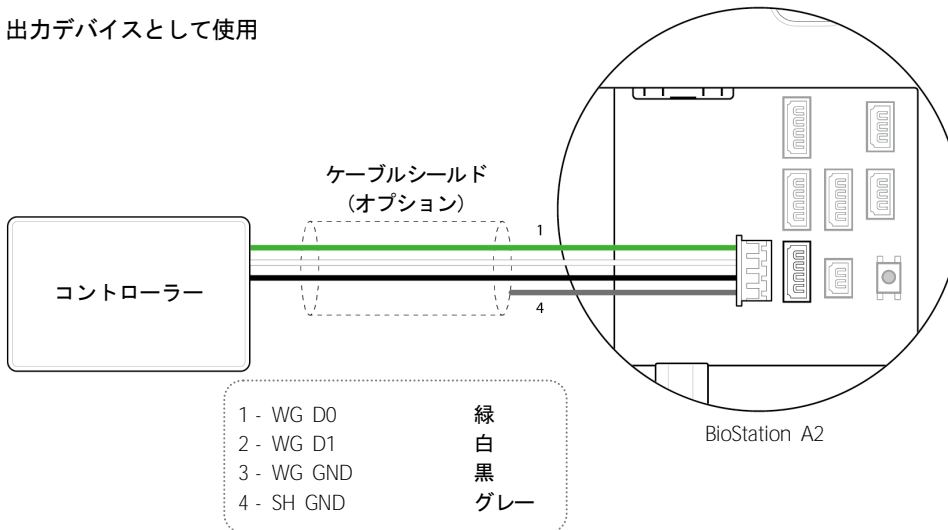
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# Wiegand 接続

Wiegand 入力デバイスとして使用



Wiegand 出力デバイスとして使用



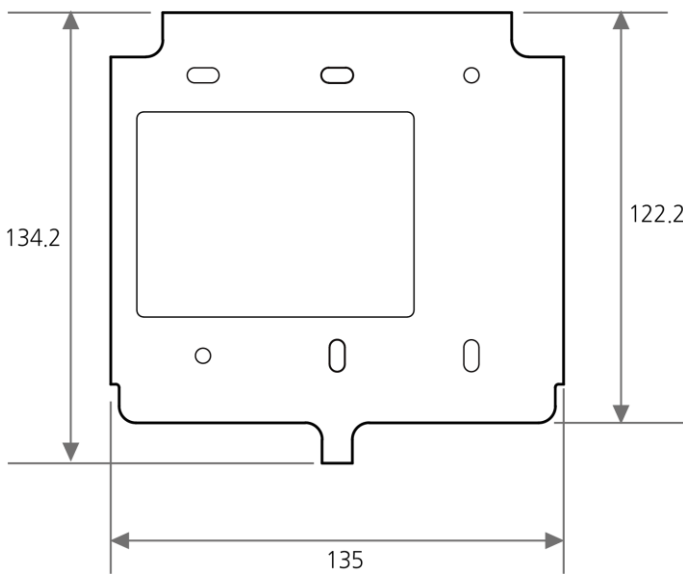
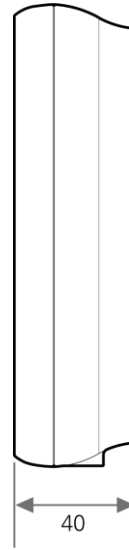
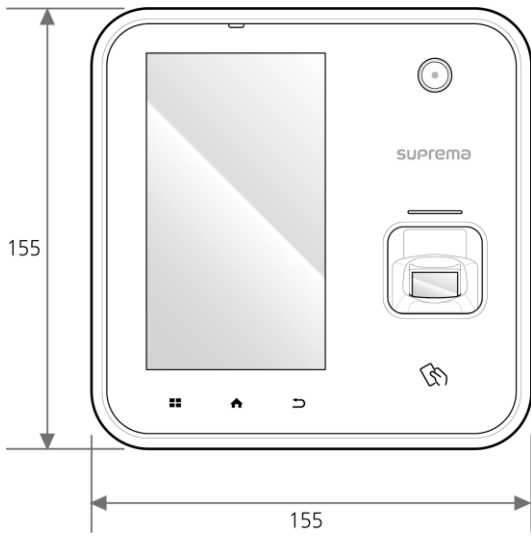
# 製品仕様

カテゴリ	機能	仕様
認証情報	生体認証	指紋
	RF オプション	<ul style="list-style-type: none"> <li>BSA2-OEPW : 125 kHz EM</li> <li>BSA2-OHPW : 125 kHz HID Prox</li> <li>BSA2-OIPW : 13.56 MHz iCLASS SE/SR/Seos, NFC</li> <li>BSA2-OMPW : 13.56 Mhz MIFARE、MIFARE Plus、DESFire/EV1、FeliCa、NFC</li> </ul>
	RF 読み取り範囲*	EM/HID Prox : 50 mm、MIFARE : 50 mm、DESFire : 50 mm、Felica : 30 mm
	LFD	サポート対象
全般	CPU	1.0 GHz 4 コア
	メモリ	8GB Flash + 1GB RAM
	LCD タイプ	5 インチカラー TFT タッチ
	LCD 解像度	480 x 854
	LED	マルチカラー
	サウンド	24 ビット/音声 DSP (エコーキャンセル)
	動作温度	-20 °C~50 °C
	保管温度	-40 °C~70 °C
	動作湿度	0%~80%、結露しないこと
	保管湿度	0%~90%、結露しないこと
	カメラの種類	CMOS 2 M ピクセル
	カメラ解像度	1600 x 1200
	カメラ角度	対角 122°、水平 64.7°、垂直 103.3°
	寸法 (W x H x D)	155 mm x 155 mm x 40 mm
重量	デバイス : 440 g ブラケット : 89 g (ワッシャーとボルトを含む)	
証明書	CE、FCC、KC、RoHS、REACH、WEEE	
指紋	画像寸法	272 x 320 ピクセル
	画像のビット深度	8 ビット、256 グレースケール
	解像度	500 dpi
	テンプレート	SUPREMA/ISO 19794-2/ANSI 378
	エクストラクタ/マッチャー	MINEX 認定および準拠
	LFD	サポート対象
キャパシティ	最大ユーザー数 (1:1)	500,000
	最大ユーザー数 (1:N)	100,000
	最大テンプレート数 (1:1)	1,000,000 (指 1 本あたりテンプレート 2 個)
	最大テンプレート数 (1:N)	200,000 (指 1 本あたりテンプレート 2 個)
	テキストログの最大数	5,000,000
	画像ログの最大数	50,000
インターフェイス	Wi-Fi	サポート対象
	イーサネット	サポート対象 (10/100 Mbps、自動 MDI/MDI-X)
	RS-485	1 チャンネルホストまたはスレーブ (選択可能)
	Wiegand	1 チャンネル入力、1 チャンネル出力
	TTL 入力	1ch Input
	リレー	リレー 2
	USB	USB 2.0 (ホスト)
	SD カード	microSD カード (32 GB までに対応)
	PoE	対応 (IEEE 802.3af 互換)
タンパー	サポート対象	
電気関連	電源	電圧 : 12 VDC 電流 : 最大 850 mA
	スイッチ入力 VIH	最小 : 3 V 最大 : 5 V
	スイッチ入力 VIL	最大 : 1 V
	スイッチプルアップ抵抗	4.7 kΩ (入力ポートは 4.7 kΩ でプルアップされます)。
	Wiegand 出力 VOH	4.8 V 以上
	Wiegand 出力 VOL	0.2 V 未満
	Wiegand 出力プルアップ抵抗	1 kΩ の内部プルアップ
リレー	電圧 : 最大 30 VDC 電流 : 最大 1 A	

\* RF 読み取り範囲は、インストール環境によって異なります。

# 寸法

(单位 : mm)



## FCC 準拠情報

このデバイスは、FCC 規則第 15 部に準拠しています。

動作は、次の 2 つの条件に従います。

- (1) このデバイスは、有害な電波干渉を引き起こしてはなりません。また、
- (2) このデバイスは、望ましくない動作を引き起こす可能性のある電波干渉を含め、受信したあらゆる電波干渉を許容する必要があります。

注意：この装置は、FCC 規則の第 15 部に従って、クラス B デジタルデバイスの制限に準拠していることがテストおよび確認されています。これらの制限は、居住地域での設置において有害な電波干渉から適切に保護するためのものです。この装置は、無線周波エネルギーを生成、使用、および放射する可能性があり、指示に従って設置および使用しないと、無線通信に有害な電波干渉が発生することがあります。ただし、特定の設置で電波干渉が発生しないことを保証するものではありません。この装置のオフとオンを切り替えてみて、この装置によってラジオやテレビなどの受信に有害な電波干渉が発生することが判明した場合は、次の方法で電波干渉を解消してみてください。

- 受信アンテナの方向や場所を変更する。
- 装置と受信機の位置を離す。
- 受信機が接続されている回路とは別の回路のコンセントに機器を接続する。
- 販売店や、ラジオまたはテレビの経験豊富な技術者に相談する。

製造元によって明示的に承認されていない変更を行った場合、FCC 規則に基づき、ユーザーの装置を操作する権限が無効になる場合があります。

この機器とそのアンテナを、他のアンテナや送信機と一緒に設置または操作しないでください。  
RF 被曝の要件を満たすため、アンテナとこの機器の使用者の間隔を 20 cm 以上空ける必要があります。

## EU 適合宣言 (CE)

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詳細については、次の連絡先にお問い合わせください。

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Version 3, 29 June 2007

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