1. Wiring Layout for Bio-View

![Diagram of wiring layout for Bio-View]

- RG-59 plus power to video distribution
- Cat 5 to scanner
- Cat 5 to phones
- Bio-View from Holovision
- 1 or 3 relays (depending upon which model is specified)

2. Introduction to Bio-View Stand-alone Access Control Systems (SA1 and SA3)

Holovision’s SA1 and SA3 biometric access system is designed to control:
- Access through doors equipped with electronic strikes, electric locks, maglocks, etc.
- Operation of alarm systems configured with momentary key-switch
- Garage or gate operator operated by an electric opener
- Any device that is operated by an on/off switch

Holovision’s Bio-View eliminates the need for memorizing access codes, or carrying keys, cards, or fobs.

In a typical installation, (depending upon which system is installed) one, two, or three fingers can be used as shown in this example:
- First Finger controls an electric strike
- Second Finger controls arming/disarming of an alarm system
- Third Finger disarms the security system, and sends a silent duress signal.

3. Integration

**Basic Relay Monitoring** - the system being controlled monitors the relay for a momentary change in status between open and closed.
4. Basic Operation - Access Control

**Enrollment** - This is a one-time procedure for each user. This involves swiping finger over the Bio-View scanner to extract and store a binary code template that represents the fingerprint's unique biometric signature. No image is stored in the scanner.

**Identification** - This step involves a user swiping his/her finger over the outside scanner. The binary template of the fingerprint is matched against stored information, and access is granted or denied.

5. System Specifications

**Access Control**

- **Finger Capacity**: 99 fingers
- **Maximum number of scanners**: 1

**Model SA1** - 1 relay NO, NC. Activates for 1-60 seconds
**Model SA3** - 3 relays NO, NC. Activates for 1-60 seconds

**Time Schedules** - None. All users have access all of the time

6. Hardware Description - Access Control

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<th>QTY</th>
<th>DESCRIPTION</th>
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| 1 per system | **Fingerprint Scanner** - *(used for enrollment & authentication)*
  
  - Is an outside unit that has dual purpose: a) user enrollment; b) user authentication
  - It should be installed in a location that is visible and easy accessible to users.
  - The unit is spray-waterproof, and as such the mounting location should provide adequate protection against heavy rain, snow, showers, and intense sunshine exposure.
  - To ensure proper operation of the fingerprint scanner, it should be installed at the proper height from the ground to the center of the 400 series rough-in box (50").
  - The fingerprint scanner is connected to the control unit by 4 conductors (2 data and 2 power). Data and power conductors should not be run in the same cable. Please refer to the wiring diagram for more info. | ![Fingerprint Scanner](image1)

| 1 per system | **Control Unit** - *(used for relay control and programming)*
  
  - Is an inside unit that has dual purpose: a) system programming; b) relay control
  - It should be installed away in a separate and controlled location to prevent tampering.
  - The control unit can be ordered with 1 or 3 contact closures.
  - The control unit provides contact closures with normally open and normally closed relays (NO and NC)
  - For the system with 3 relays (SA3):
    - Each relay is controlled by a different finger that is assigned during the enrollment process of the finger.
    - A single scanner controls all relays. Only one scanner can be connected to the control unit.
  - Each relay can be connected to any electrical device or lock such as door strike, magnetic lock, garage door, etc. (Note: these are not supplied by Holovision) | ![Control Unit](image2)

| 1 per system | **Power Supply**
  
  - The system is shipped with a 9 VAC power supply.
  - Power is applied to the Control Unit (inside unit).
  - Fingerprint Scanner (outside unit) is powered by the control unit (inside unit) using 2 conductors cable. Data and power conductors should not be run in the same cable.
  - If battery operation is desired, the system can operate on regulated 12 VDC. 12VDC power supply is not included. | ![Power Supply](image3) |