

Before ProVision Security Solutions can begin their installation process, certain aspects of your build-out must be complete. The following information outlines these requirements. Please review these with your contractor and/or other vendors. For detailed questions about the additional requirements, please contact Caitlin Carver at PSS. Caitlin can be reached at 866.315.0777, x430.

1. Internet Access: Broadband access (DSL, cable, etc.) with a static IP address. The static IP address is an address that does not change and is required for remote computer support and remote viewing of the CCTV system through the DVR. Most Internet Service Providers (ISP) that provide broadband access also provide a modem with their service. They typically do not provide a router, but if they do, it will need a built-in 10/100 switch and a 4-port switch. Also ask your ISP for the user name and password to access the router, we will need to port forward to the DVR for remote access.

A router allows multiple PCs, and other devices, such as the DVR, to access the Internet simultaneously. It also provides a firewall to protect the local network from malicious attacks. If your ISP cannot provide a router with the requirements listed above, we will include one in your price quote.

2. Door Strike: For this component, you should contact a local, and trusted, locksmith. Your builder may have a preferred vendor for this type of work. It's best to contact the locksmith early in the build-out; doing so will allow any special order items to arrive on time. **The recommended door latch is a normally secure electronic door strike. PSS strongly encourages the installation of the electronic door strike, rather than a magnetic lock.**

The requirements for the electronic door strike are:

- The strike will need to be MOV resisted; this type of resistor will protect the controller from any surges the strike may emit. MOV resistors are available at [Radio Shack](#).
- The strike will need to operate off 12 VDC.
- The locksmith will need to provide a 12 or 24 VDC plug-in transformer, such as a Revere Industries RTD12/5RT, or equivalent, that meets the specifications of the strike manufacturer. Revere Industries products are available at [Wm. B. Allen Supply Co., Inc.](#)
- Provide and install armored loop, if needed.
- Install the control cable from the strike to the duplex outlet above the door and test lock.

It is not recommended by PSS, but if a magnetic lock is required, than an override key needs to be installed on the exterior of the door. This allows entry to the facility when the access control program is not available, or provides an additional keyed entrance, if necessary.

For emergency access to the facility, **local authorities may require the installation of a Knock-Box**. This box stores a spare key on the exterior of the building. To verify if this is a requirement, please contact both your local police and fire departments. If a knock-box is required, the local authorities can recommend where to purchase one.

Note: The main door or doors (there may be 1 or 2) require a free exiting device, such as a crash bar or paddle. These doors **MUST swing outward**. If the door currently doesn't swing outward, adjustments will need to be made prior to installation.

Electrical Outlets: The outlet requirements are listed below:

- One duplex 110 outlet above **each** main entrance door. This outlet will be used by the electronic door strike and the access control system.
- One duplex 110 outlet above **each** tanning room for the access control system. For facilities with a false ceiling, the outlet should be installed above the ceiling, if possible. For facilities with an open ceiling, the outlets should be placed between 10' to 12' AFF.
- One double duplex outlet in the office, near the computer desk. The outlet must be within 3 feet of the final placement of the desk that will hold the main computer, and it should be installed at standard outlet height.
- One duplex outlet near **each** television. The outlets must be within the television electrical cord limits, which is generally within 7 feet of the unit.
- One double duplex outlet within 3 feet of the final placement of the DVR, security panel, sound amplifier/receiver and CCTV power supply. If it is requested that the security panel and/or CCTV power supply be installed above the ceiling, then a duplex 110 outlet will need to be installed there as well. Before proceeding, check with your contractor to see if local codes allow this type of installation.

4. Low Voltage Wiring: A phone jack needs to be installed within 3 feet of the final placement of the security panel. The cable used must be a home-run cable. To allow for equipment stacking, the phone jack should be installed next to the double duplex outlets.

The phone line for the security alarm cannot be shared by other devices, e.g., courtesy phone, DSL, fax, or credit card terminal. For these items, a second telephone jack, and perhaps a third, will need to be installed in the office. The location of these additional outlets is to be determined by the final placement of your furnishings.

Note: If the Internet router/switch (which will be located in the office) is more than 5 feet from a second computer, DVR, network printer, or card access vending machine, additional computer lines (such as a CAT 5 E cable) will need to be installed.

5. Security System: A motion detector will be installed near the security panel, to ensure protection from tampering. The power source for the security panel will be supplied by a double duplex outlet (see 3. *Electrical Outlets* for details.)

The security system will be integrated with an Alarm Monitoring Service. This service is free of charge.

Wireless panic buttons are powered by (2) Energizer 386, 1.5V, Silver Oxide Cells. You will need to change the batteries when the LED on the pendant pulses 1.5 times per second, or when the panel instructs you to do so. Please keep sufficient batteries on hand to replace all units at one time.

Wireless door contacts are powered by a DL123A, 3 Volt Lithium Battery. This battery will need to be changed when the panel instructs you to do so. Please keep one backup battery per unit on hand for replacement.

Wireless glass breaks are powered by a DL123A, 3 Volt Lithium Battery. This battery will need to be changed when the panel instructs you to do so. Please keep one backup battery per unit on hand for replacement. The glass break is omni-directional, which means it measures the decibel level in all directions. It protects plate glass from 3/32" to 1/4", up to 25 feet. It protects tempered, wired, or laminated glass from 1/8" to 1/4", up to 20 feet. **Glass break detectors are sensitive to high decibel sounds. Because of this, they are not installed in areas that may produce similar decibel levels, which can cause false alarms. They are generally installed in storage rooms or back entrance areas that are separated from the rest of your facility.**

6. Tailgate System: This system is installed 10 inches AFF, with one unit on either side of the door(s). The doorframe will need at least 2.5 inches of horizontal clearance on both sides of the door for the two units to be installed; the units are approximately 36 inches long. A ¾ inch hole, with bushings, will need to be cut into the top of the vertical door frame, on both sides, with a pull string to the accessible ceiling space, or to a low voltage frame next to the duplex 110V outlet if an open ceiling.

7. TV Mounting: Unistruts may be required in ceiling installations where the trusses are made out of metal. The unistruts must be supplied by the landlord or contractor. Unistruts typically attach at the bottom of the metal truss and span across two trusses, and the opening must face the floor. Unistrut specifications are 1 5/8" x 1 5/8" - 12 gauge. *Minimum two points of contact required.*

Very Important: Wall mounts require an external wall plate that is designed for use on 25 gauge or heavier metal studs to safely span the load between two studs (applies to 16", 20", or 24" center). Wall plates can also be used on wood studs. A typical commercial building uses the heavier gauge studs mainly on the perimeter (outside) walls and thinner gauge for internal walls. Please check with your contractor regarding the design and gauge of the metal studs.

The exact measurements of your televisions, along with the model name, number, and manufacturer, must be listed on the Pre-Quote Profile. Or, if you prefer, this information can be sent directly to stevev@provisionsecurity.com. These measurements will help us determine which TV mounts are necessary for installation.

8. Tanning Beds: The tanning beds must have a cutoff switch that has an output of 0-12VDC only. This is the only type of voltage that can be integrated with the ProVision access control system.

9. Installation of Equipment: The installation will begin only after the flooring/carpeting and the painting has been completed.

10. General: Conduit systems may be a requirement of your State and / or local regulations. Contact your general construction manager to see if this is a requirement.

Contact your local authorities for information regarding alarm permits. Occasionally emergency professionals require businesses to apply for an alarm permit.

If you have any questions pertaining to the requirements outlined in this document, please contact Caitlin Carver at 866.315.0777, x430 or caitlinc@provisionsecurity.com.