



Installation Tips

VICON TECHNICAL SERVICES GROUP

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A system installation is always a reflection on the dealer/installer. Some of the tips outlined below will determine if that reflection is positive or negative. A “showcase” installation will ensure proper operation of the system, ease of maintenance and service, and long-term customer satisfaction. While it is beyond the scope of this (or any) manual to establish “best practices” for an installer, below are some guidelines.

- Read and understand installation instructions and documents. This includes rack elevations, camera locations and any other documentation provided by the Architect/Engineer, General Contractor, System Designer or Equipment Manufacturer.
- Arrange all components to be mounted in the console(s)/rack(s) in accordance with the appropriate drawings. The design should provide for a neat appearance and accessibility for servicing equipment.
- When installing a console with a desk surface, immediately after installation, protect the desk surface with excess cardboard for the remainder of the installation period to prevent scratches, etc.
- When unpacking equipment, ensure that the included installation manuals and accessory kits are placed in a central location for later use.
- Do not stretch coaxial video, fiber cables, or UTP (unshielded twisted pair) or subject them to sharp bends.
- Do not staple coaxial video, fiber optic cables, or UTP as a means of support.
- Do not pull cable ties excessively tight as to deform the cable jacket.
- Keep cables out of contact with hot pipes or any other heat source. Even if there is not enough heat to cause obvious damage to the cable, transmission characteristics can be affected.
- Keep cable out of contact, and at least 12 inches away, from electrical sources such as fluorescent light ballasts or transformers.
- Use only three-piece crimp style BNC connectors on video cable.
- Wiring within consoles should be routed horizontally and vertically in neatly tied bundles. Stray point-to-point wiring should be avoided.
- Cable bundles should cross from one rack to the next at the top, center, or bottom only, leaving sufficient working room within the rack.
- Wiring for matrix switchers, or any other multiple input-output devices should be tie-wrapped so that all connectors in a bundle can be removed and reinstalled without the possibility of cross connecting.
- Where wiring is routed through sheet metal or over rack frame members, the metal edges should be protected with flexible grommeting or edge dressing (such as automobile door edge trim).

- Double-sided foam tape should never be used to secure any terminal boxes, relay bases or circuit boards, etc. All device mounting should be of a mechanically secure permanent nature.
- All excess length AC cords should be tie-wrapped out of the way.
- All rack-mounted equipment and blank panels should be installed using nylon washers to protect the face of the equipment. Care should be taken not to scratch or otherwise damage the equipment finish or appearance.
- Any excess cable at a camera location should be coiled and supported to prevent cable from falling when adjacent ceiling tiles are removed.
- All in-ceiling camera housings should utilize safety chains or wires to provide additional mounting protection.
- Exposed wires run to wall-mounted cameras should be tie-wrapped to the mount or fed through the tubing mount to present a professional appearance.
- Cables should be labeled at each end with legible, write-on type or mechanically printed self-laminating vinyl labels
- Test all fiber cable runs for budget loss. The budget loss should not exceed the specifications of the specific unit. (Please refer to specification sheets)
- All D-shell style connectors should utilize hold-down screws.
- All unused ports on the V1400X-IDL Distribution Line Units must have end of line jumpers in them.
- All video looping outputs should be terminated with 75 ohm terminators when not used for other purposes.
- All unused equipment should be tested and turned off.
- All mating Phoenix-style connectors supplied as part of an accessory kit for a particular type of equipment should be installed on each unit, whether in use or not, to prevent their loss. Unused D-shell connectors, adapter connectors, etc., should be collected in one place and inventoried.
- Any deviations from installation drawings should be documented for the As-Built drawings.
- An inventory list of installed, or excess equipment should be provided at the conclusion of the installation.