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Cctv installation procedure pdf

The purpose of this method statement is to provide guidelines and steps for the cctv installation of security systems by describing the Work to be executed, how it is to be executed and making references to other technical standards and relevant national/international standards and project quality plan and its aspects of the work to be undertaken. This procedure covers Installation of CCTV System including brackets, supports wiring & accessories etc. There can be different project specifications which might require separate and customized methods specific to different projects and cctv equipment. Tools & Equipment Requirements For CCTV Installation Electrician tool Kit Drill machine Tools and spanner sets Crimping tool with crimping bits for all required sizes Line Tester Multimeter Pipe bend and threading machines. Continuity Tester Programming software tools Special tools as per manufacturer requirements Method Of CCTV Installation For Cameras Prepare all the materials, equipment and tools that will be necessary during the execution time. Drawing for installation shall be approved and shall be coordinated with other services. Room clearance & proper access shall be provided as per approved program. Location/area shall be ready for site installation. Prior to the installation, the area where the items to be installed shall be inspected to ensure architectural works and finishing are complete and area is free from dust. Ensure that the approved shop/schematic/coordination drawings are current and available with installation team. Avoid installing the cameras close to sources of powerful electromagnetic radiation, such as radio or TV transmitters or close to fluorescent lamps or objects reflecting light, or under unstable light sources, which may cause flickering. Indoor Fixed Dome IP Camera Ceiling Flush Mount Exact location of the CCTV camera shall be as per approved CCTV Installation layout plan as well and to be coordinated at site to ensure easy access for maintenance in future. Select a location to install the Camera and prepare the ceiling and/or ceiling tile. All the above false ceiling CCTV should have the facility to access the IP Data point for future maintenance. For the CCTV which needs to be fixed on the false ceiling mark with exact dimension to make hole by false ceiling contractor. Attach the template that comes with the Camera to the ceiling and then drill a hole according to the diameter hole marked on the template. Drop down the camera cables through the hole. Drill another small hole for a screw to secure the camera. Remove camera lower dome cover by turning the cover counter clockwise. Pull all the field wiring and power and video connectors. Plug the network cable into the RJ-45 network port on the side of the camera. Where applicable, connect the necessary wiring for alarms and relays. Install the support back plate. Mount the camera on the ceiling using the appropriate hardware. Adjust the Monitoring direction for the camera to adjust the lens in a desired direction. Secure the camera top cover in place. Indoor Fixed Dome IP Camera – Pipe Bracket Mount Select a location to install the components and applicable mount as per approved cctv installation Layout plan Use the four hole in flanges as template to mark as drill hole in which to position secure mount. Drill the hole into ceiling Feed the wires through the mount Assemble pipe mount to ceiling Connect all wires to camera Assemble camera to mount and fix with screws Install camera dome housing cover Identification to be made as per approved tagging materials. Indoor Fixed Dome IP Camera – Channel Support Mount Select a location to install the components and applicable mount as per approved CCTV layout plan. Fix C channel both end to the both side wall. Take data cable through the channel and connect into the camera Install the camera center of the channel with proper nut, bolt & washer Manually adjust the zoom and focus of the lens to the desired field of view Installation of Fixed Wall IP Camera with Housing Wall Mount Select a location to install the components and applicable mount as per approved CCTV Mark and drill the camera housing mounting base or GI Extension bracket hole size into the wall. Prepare the mounting surface: Drill the Camera Housing mounting base or GI Extension bracket hole size into the wall. If applicable, Fix Suitable G.I extension supports bracket into Concrete wall (Behind Cladding wall) Install the mount: Install the Camera Housing wall mounting base to the smooth vertical surface or GI extension bracket. If necessary to prevent water damage, apply sealant around the bolt holes between the mount and mounting surface. Install housing into wall bracket. Pull the wires (Data and power) through the arm starting from the bottom of the mounting plate; pull the wires out through the threaded opening at the bottom of the arm. Adjust the monitoring direction for the camera to adjust the housing in a desired direction. Install the Camera Inside housing using the appropriate hardware. Install the lens Remove the cover from the camera lens mount. Screw the lens onto the lens mount. Be careful to prevent dust from entering the space between the lens and the imager. If necessary, use clean, compressed air to remove any foreign matter. Make sure the lens does not touch the camera imager when installed. Connect the auto iris lens to the 4-pin connector located on the side of the camera. Plug the network cable into the RJ-45 network port on the side of the camera. Focus the lens: View the camera image using the service port or a Web browser. Press the auto back focus button once to center the focus mechanism. The button is located on the rim of the back box. Manually adjust the zoom and focus of the lens to the desired field of view. Secure the camera using camera housing and tighten the nuts on the studs. Identification to be made as per tagging – Label given in the approved shop drawings. Analog Fixed Camera + Encoder For Elevators Exact location of the CCTV Installation Of camera shall be as per approved CCTV drawings. Select a location to install the Camera and prepare the elevator ceiling. Insider Elevator Car For the CCTV which needs to be fixed on the elevator false ceiling mark with exact dimension to make hole by false Elevator contractor. Attach the template comes with the Camera to the ceiling and then drill a hole according to the 70 mm diameter hole marked on the template. Drop down the camera cables through the hole. Drill another small hole for a screw to secure the camera. Remove camera Lower Dome cover by unscrewing the camera housing ring. Pull all the field wiring and power and video connectors. Mount the camera on the ceiling using the appropriate hardware. Adjust the Monitoring direction for the camera to adjust the lens in a desired direction. Secure the camera top cover in place. Elevator Machine Room Select a location to install the Encoder as per approved CCTV System Device Layout plan as well and to be coordinated at site to ensure adjacent location to the elevator Control Panel Prepare the mounting surface: Drill the Enclosure hole size into the wall. Fix Junction box on wall surface near the Elevator Control panel. Connect the necessary power and data Conduit into Junction box. Fix the encoder and camera power supply units inside the junction box. Plug the network cable into the RJ-45 network port in Encoder. Pull Co-axial cable from the Elevator control panel to Junction box. The cables are part of elevator Traveling and provided by Elevator contractor. Plug Co-axial cable into BNC Connector port in encoder. Make all electrical connections. Identification to be made as per approved tagging. Facebook Twitter LinkedIn More Installing a CCTV camera system can an expensive affair. Don't worry, just follow these simple steps and do the installation yourself. Planning before installing a CCTV camera The most important aspect of installing a CCTV camera system is choosing the right spots for camera and DVR to maximize camera coverage and minimize cable length (which in-turn reduces the in line losses that affect video quality). For indoor placement of best home security cameras, choose a corner in the room from where most entry points into the room are visible. A power socket should also be in close proximity. For outdoors, choose a higher spot covering the door, window approaches, garages etc. Choose the spots above 10ft so that it cannot be knocked down easily. Mounting the camera Place the camera unit at the desired place, make guide marks for drilling. Drill holes and hammer in the screw mouldings. Now, screw the power cable of the camera in a socket. Placing the DVR DVR of the CCTV is the place where the surveillance hard disk is present. Thus all your CCTV recording reside inside a DVR. It is highly recommended to keep the DVR inside a locked compartment so that even if an intruder spots the DVR, he/she can't destroy the recorded videos. This is a vital step to ensure a bullet proof security system for your home. Managing the cables Image Credits: cabletiesandmore.com Plan the pathway for all the cables from cameras to DVR unit. Use wire moldings to keep the wire managed and safe. Nail the moldings along the path and put the Siamese surveillance wire inside. Connecting the wires Steps to connect the BNC port: The video cable is connected via a BNC port. Remove about 1.5cm of outer covering of the video cable which should now expose the braids. Slide the crimping barrel onto the cable with wider diameter facing towards the end of the cable. Now remove the white insulator covering the innermost cable. Now insert this exposed cables into the BNC port and screw the crimping barrel. This makes a secure connection. Connect the DVR output port to the screen on which you want the video feed. READ ALSO: Reasons that can cause fuzzy security camera feed Power on the system Image Credits: wikimedia.org Start by powering ON the cameras followed by the display and the DVR. Setup the DVR according to the user manual provided with the DVR. Go over every camera's feed to confirm each camera is working properly and providing the desired viewing angle. If you're currently shortlisting which CCTV system to get, do consider the following: For any queries regarding installation of a surveillance system, please comment in the section below. Security System Finder | Our team of security experts will guide you to the best security systems for your unique needs Today's market offers a number of great indoor and outdoor security cameras that a handy homeowner can install themselves. All you need to decide is where to put them. Our complete guide to home security camera installation is the game plan you need to strategize, position and install your surveillance devices. Not every home is the same, but everyone's property deserves to be protected. Security cameras are a great tool to achieve a sense of security, as they give you extra eyes on your property at all times. Your property's layout, budget and home security priorities are different than your neighbor's so there is no one-size-fits-all rule for security camera minimums. But this guide will help you consider all the aspects of your home security setup and identify which ones are absolute musts based on the vulnerabilities in your home. You might assume that intruders always sneak into side entrances, but statistics show that 34% of burglars use the front door. It's also where package thieves are likely to strike. A camera at your main entrance keeps tabs on everybody that comes in and out of your home, from family members and babysitters to maintenance people, delivery people and more. (Pro tip: Video doorbells are great picks for the front door. You can use them as the primary camera or in conjunction with another outdoor camera aimed at the yard or garage.) Doors that are out-of-sight allow visitors to enter undetected, whether they're invited or not. Nearly one-fourth of all break-ins happen through the back door. To ensure full knowledge of everyone who enters and exits, add cameras to your secondary doors, especially if one of them is used as often or more often than your front door, or if one (like a basement door) seems particularly enticing or accessible to a potential intruder. Garages are a common target of burglars because they're one of the weakest entry points. A camera pointed at your garage and/or driveway keeps a watchful eye on bikes, tools, grills, sports equipment, cars and everyone that handles them. If your garage is detached, the camera helps you stay connected. If the garage is attached, the extra layer of security monitors another possible entryway into your home. If there's a gate at the end of your driveway, you may want a camera there to spot anyone attempting to get in. Monitoring the yard will help you keep tabs on anyone scoping out your house from the outside. It's also handy for capturing the activities of kids, animals and trespassers. Placing cameras in gathering points like the kitchen or living room is a great way to see if the kids are doing what they're supposed to do, if the babysitter is attentive, what the pets are getting into, or to check on household help like cleaners and repairmen. Consider prioritizing any rooms that have large ground-floor windows — that way you can see if anyone tampered with them or uses one as a break-in point. Place a camera in the main thoroughfares inside your home, and it will be difficult for someone to move about undetected. If someone breaks in through a bathroom, bedroom or another unmonitored area, they'll still be captured on camera if they move about the house. Places that violate your neighbor's privacy - Cameras are great for your safety, but you need to be mindful of the privacy of others in your neighborhood. Specific laws regarding cameras and privacy vary from state to state, so it's wise to check local laws (and with the local homeowners association) to make sure you won't have to undo your installation. In general, homeowners are allowed to have outdoor security cameras that cover a broad area, and it's usually OK to capture your neighbor's public-facing property in the background of your footage. Legally, problems arise if your camera captures areas where your neighbors have an expectation of privacy (for example, if your cameras can see into their bedrooms or bathrooms) or if you use the footage for non-security purposes. Keep in mind that these rules apply to video surveillance only. Audio recording without knowledge and consent is illegal in most circumstances. Bedrooms and bathrooms - The urge to keep a watchful eye on kids or elderly folks in your household is understandable. However, some areas have a warranted expectation of privacy. Plus, if you use a monitoring service, you run the risk of a hacker tapping into a camera that has access to your private spaces. Luckily, there are plenty of alternatives. Baby monitors are smart choices for very young kids' rooms. Motion detectors and glass break sensors, as part of a connected home security system, can be added to doors and windows. Personal medical alert systems are strong choices for seniors. Once you decide which locations to monitor, you also need to strategize how you will place and install the security cameras to cover the intended areas. Install cameras 8-10 feet from the ground. This height is low enough to capture fine details but high enough to be out of easy reach of thieves and vandals. Don't point cameras directly at the sun. Bright light causes glare and high contrast in your footage, which makes it hard to tell what's going on. Consider the movement of the sun and angle your cameras for indirect light. Decide whether you want the camera to be visible or hidden. Visible security cameras are effective burglary deterrents, but they are also targets for theft and vandalism. Some homeowners choose to prominently install a fake decoy camera and back it up with a real one that's slightly more concealed, while others add heavy-duty hardware or casing around the camera to make it more difficult to damage. Protect the camera from the elements. Top outdoor security cameras have ample weather- and waterproofing, but they are not all created equal. Choose a camera that's appropriately rated for your climate, and place it under eaves or in another semi-protected area if you can. Corners are your friends. Hanging an indoor camera in the corner of a room usually gives you the largest possible vantage point. Windows can cause reflection issues. Pointing a camera out the window might degrade its image quality. Many security cameras have infrared (IR) light technology, which aids in motion detection and enables the cameras to function in low light. IR light can reflect off of windows and other glass objects and obscure your footage, especially in the dark. If your footage looks washed out or whited out, there is likely a reflection problem going on. If it's necessary to point a camera out the window, positioning the lens as close as possible to the glass and/or backlighting the outdoor area (perhaps with motion detector lights) are two glare-minimizing measures to try. It can also be helpful if your camera has wide dynamic range (WDR) technology. Angle for indirect light. Again, direct light will wash out your footage. With indoor cameras, be mindful of lamps, light fixtures and bright windows. Avoid facing your camera directly toward any of these light sources. Follow these installation rules of thumb to potentially save yourself a headache. Test your equipment before committing to the full install. Operate the camera and make sure it functions as expected. If possible, perform a dry run in the camera's intended area (mount it with tape, a single nail or another temporary fix) so you can monitor and evaluate the feed. Can you see everything you want to see? Is the Wi-Fi signal strong enough? Is there glare or an obstacle blocking the field of view? Don't install your camera using hardware or tools that may damage its components. It's tempting to jerry-rig a camera setting to achieve the perfect position. Don't take measures that could damage or strain the casing, electrical components or lens. Remember you will need to occasionally clean or maintain the camera. Outdoor cameras are especially prone to dirt or pollen accumulation on the lens. Don't install it in a way that makes it impossible to maintain. Deciding whether to install your own surveillance cameras depends on the type of cameras and your personal comfort level. If the information in this article or the manufacturers' instructions make your head spin, there's no need to tackle it alone. However, these devices have gotten increasingly approachable and accessible over time and are often set up for simple self-installation. Security cameras that you'll be monitoring yourself (as opposed to professionally monitored security systems) usually have the simplest installation. Many of these cameras communicate via Wi-Fi and only need hard wiring to their power source. Smaller cameras like video doorbells and peephole cameras frequently use batteries, which is even more user-friendly. Outdoor security cameras can present more of a challenge, especially if the home's exterior has limited power sources, if you don't have many tools or if you are concerned about affecting your home's appearance. In these cases, you may want to hire a professional with experience on prior camera installs. Finally, there are some circumstances where you can't install your own cameras. Many leading providers of monitored home security systems (such as ADT and Vivint) require professional installation to make sure everything is in working order. In these cases, a trained technician visits your house to relieve you of this responsibility altogether. If you're dedicated to doing it yourself and you want a professionally monitored security system, you do have plenty of DIY options: SimpliSafe, Frontpoint and Protect America are all strong choices.

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