

## PLS180 PALM LASER TOOL APPLICATIONS

### Electrical Installation

The **PLS180** Palm Laser is a self-leveling, compact and durable tool that projects bright, crisp laser-generated lines. These lines are accurate to within 1/8" in 30'. The operating range of the **PLS180** is determined by the brightness of the lighting on the job site. Most job site conditions will allow for a working range of 60' to 100'. The **PLS180** has four distinct modes of operation: the first mode projects a horizontal "level" line and the second mode projects a vertical, plumb line. The third mode projects both plumb and level lines together. The fourth mode overrides the self-leveling features of modes one, two and three and projects a plumb and level line that can be positioned to project a sloped line.

The electrical contractor incorporates the use of the **PLS180** for most alignment tasks found on job sites. After the contractor establishes offsets or grid patterns, the **PLS180** can be placed in the second mode to provide a plumb chalk line. The contractor matches the laser reference line to work on both the walls and ceilings of the project. This is especially advantageous when installing long runs of lighting such as recessed cans and fluorescent fixtures. Plumbing up chases and aligning roadways can be done quickly and accurately using the **PLS180** as well. In mode one (level), an electrician can attach the **PLS180** to the PLS wall bracket and install switches and receptacle boxes perfectly level throughout the job site without having ever to pick up a tape measure! On residential projects, the electrician can place the **PLS180** in a corner of the room and project a level reference line on the studs for guidance when drilling holes for the installation of conduit.

The **PLS180** Palm Laser tool includes a magnetic wall bracket and custom leather carrying- pouch. Detailed directions about its operation and how to inspect the tool in the field for proper factory accuracy are included.

## PLS180 PALM LASER TOOL APPLICATIONS

### Framing and Acoustical Ceilings

The **PLS180** Palm Laser is a self-leveling, compact and durable tool that projects bright, crisp laser-generated lines. These laser lines are accurate to within 1/8" in 30'. The operating range of the **PLS180** is determined by the brightness of the lighting on the job site. Most job site conditions will allow for a working range of 60' to 100'. The **PLS180** has four distinct modes of operation: the first mode projects a horizontal "level" line. The second mode projects a vertical "plumb" line. The third mode projects both the plumb and level lines together. The fourth mode overrides the self-leveling features of modes one, two and three and projects a plumb and level line that can be positioned to project a sloped line.

The **PLS180** may be used in mode two to project a plumb line on the floor and ceiling for rapid and accurate installation of track for commercial steel framing projects. Because the **PLS180** is compact and self-levels quickly, it holds a huge advantage over costly and cumbersome rotating lasers for this type of work. Place the **PLS180** in mode one (level) and the contractor can align framing members such as headers for windows and doorways. The framing of soffits can be used in this mode as well. The **PLS180** holds a clear advantage over traditional rotating lasers for the installation of acoustic ceilings. Because the **PLS180** is much brighter and easier to set up than most rotating lasers, the contractor will have a bright, crisp line which he can evenly project throughout the room. This would be nearly impossible with a traditional rotating laser, as the laser would have to be placed in "dither" mode to begin to match the brightness of the **PLS180**.

The **PLS180** Palm Laser tool includes a magnetic wall bracket and custom leather carrying- pouch. A separate adjustable mount for attaching the **PLS180** to wall angle is available for an additional charge. Detailed directions about its operation and how to inspect the tool in the field for proper factory accuracy are included.

## PLS180 PALM LASER TOOL APPLICATIONS

### Finish Carpentry/Tile Glazing Installation

The **PLS180** Palm Laser is a self-leveling, compact and durable tool that projects bright, crisp laser-generated lines. These laser lines are accurate to within 1/8" in 30'. The operating range of the **PLS180** is determined by the brightness of the lighting on the job site. Most job site conditions will allow for a working range of 60' to 100'. The **PLS180** has four distinct modes of operation: the first mode projects a level horizontal line. The second mode projects a vertical plumb line. The third mode projects both the plumb and level lines together. The fourth mode overrides the self-leveling features of modes one, two and three and projects a plumb and level line that can be positioned to project a sloped line.

The **PLS180** excels at projects involving finish carpentry. Because the tool is self-leveling, the contractor can place the **PLS180** on just about any surface, such as the side of a ladder or on top of a job box and project a level reference line. This is especially advantageous when installing chair rail, cabinetry and even wallpaper. Speed the installation of ceramic tile by following crisp and bright lines on the floor and walls. Because the tile installer is using a **PLS180** laser tool, there are no concerns about covering up the laser reference line with thin set mortar and losing the alignment. The bright beam of the **PLS180** reflects off most surfaces found on job sites. The glazing contractor can use the **PLS180** for installation of channel and clips for curtain walls, storefront projects and mirrors.

The **PLS180** Palm Laser tool includes a magnetic wall bracket and custom leather carrying-pouch. A separate adjustable mount for attaching the **PLS180** to wall angle is available for an additional charge. Detailed directions about its operation and how to inspect the tool in the field for proper factory accuracy are included.

## **PLS180 Palm Laser Tool with PLS-SLD detector Applications**

The PLS180 Palm Laser is a self-leveling, compact and durable tool that projects bright, crisp laser-generated lines. The operating range of the **PLS180** for interior applications is determined by the brightness of the lighting on the jobsite. Most jobsite conditions will allow for a working range of 60' to 100'. The **PLS180** has five distinct modes of operation: the first mode projects a level line. The second mode projects a plumb, vertical line. The third mode projects both plumb and level lines together. The fourth mode overrides the self-leveling features of modes one, two and three and projects a cross-beam that can be positioned to project a sloped line. The fifth mode is for "pulsing" the tool so it may work in concert with the **PLS-SLD** laser detector. By depressing the "Pulse On" button located on the far right side/bottom of the control panel, the **PLS180** will now work with the included **PLS-SLD** detector outside with an accuracy of a 1/4" in 100'.

### **A sampling of outdoor job-site applications:**

- Leveling of form boards for foundations
- Layout for rough-in, for both electrical & mechanical installations
- Layout for exterior siding such as for "shiplap" style
- Swimming pool construction of tile and coping
- Concrete flatwork
- Plumb & level layout of masonry block
- Aligning clips for curtain wall installations
- Layout of control lines for signage and painting applications
- Vertical layout for structural steel columns
- Layout for decks and fences and landscaping

The **PLS180 System** comes complete with a durable carrying case, the **PLS180** laser tool, the **PLS-SLD** laser detector, a belt pouch, and a magnetic wall bracket. Detailed directions about its operation and how to inspect the tool in the field for proper factory accuracy are included.