Digital Installation Instructions with Embedded Flashlight Control

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Title
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Abstract
Disclosed is an application for a digital device capable of turning on an illumination source from within an application that provides instructions to the user on how to install a product. A flashlight icon is embedded in the application and accessible while a user is reading instruction within a dark location.

Disclosure
Many instruction documentation has begun to go digital, as such, paper instructions are no longer included with product. For many products, the installation may take place in a dark place like a basement, closet, or cabinet. As a result, the installer is holding their digital device to read instructions while also trying to install the product. Often times, the installer will turn open the installation application and then toggle to a flashlight application to turn on the devices illumination source. However, this can be challenging and often the installer forgets to turn off the illumination source after use thereby draining battery life.

Disclosed is an application for use on a digital device such as a mobile phone, tablet, or other device capable of downloading and using apps and having an illumination device like a camera flash, LED, or other light source. The application comprises installation instructions for installing a product. The product could be plumbing fixtures like faucets, fittings, showers, and valves; but may also include products like lighting, drawers, cabinets and other products that could be installed in dark locations. However, a dark location is not a prerequisite of the use of the invention and the invention may be used for any product where additional lighting would benefit the user. The instructions may be in multiple formats like text, video, audio, or other medium that helps the installer understand the steps in installing the product. Additionally, the application may include other information like product information, manufacturer information, websites, or communication methods.

Within the installation section of the application, or any other section of the application, access to the illumination function is available for the installer. Fig. 1 shows the installation of a faucet. As the user installs the product they are typically required to crawl under the sink and into a cabinet where either a flashlight or other illumination device is needed to see what they are doing. While following the instructions in the application, the user may select the flash light icon shown in Fig. 1 which immediately turns on the illumination source on the digital device (most likely a mobile phone or tablet). As the user works through the installation of the product the flashlight icon is
available for use. Optionally, an illumination level may be available to the user which allows the user to vary the amount of light output from the illumination source. These could predetermined values or a fully adjustable scale from 0-100%.

While viewing the instructions in the app, the user touches the flashlight on/off toggle icon which turns the illumination device on or off. The app connects to the central control of the device which allows access to the illumination device. This is typically done through APIs but other methods are possible. Upon pressing the icon, the connection and instructions are sent to the central control system to illuminate the light source. If the user wishes to change the output level of the light source they can select the level icon which adjusts the power to the light source which effectively changes the output level of the light source.

In typical installations, once the installer completes installation of the product, they close the installation instructions and move on. Occasionally, the installer will forget that the light source is still illuminated and the battery will lose power more rapidly. To prevent this, upon closure of the installation instructions, the application will communicate with the light source to turn off.

![Image](https://www.tdcommons.org/dpubs_series/3075)

Fig. 1