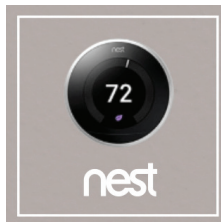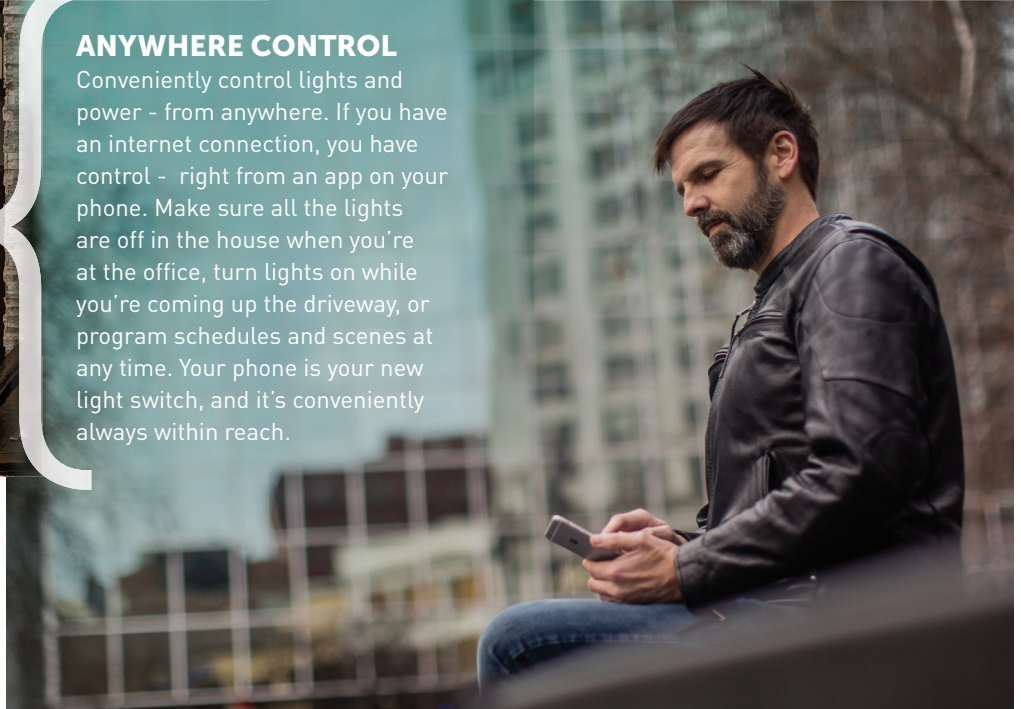# SMART LIGHTING
What's in it for me?

ANYWHERE CONTROL
Conveniently control lights and power - from anywhere. If you have an internet connection, you have control - right from an app on your phone. Make sure all the lights are off in the house when you're at the office, turn lights on while you're coming up the driveway, or program schedules and scenes at any time. Your phone is your new light switch, and it's conveniently always within reach.

amazon alexa

Google Home

72
nest

ring

SmartThings

COMPATIBILITY
Make your house a smart home by connecting smart light switches with other smart devices in your home, such as your Nest thermostat, Ring doorbell, Amazon Alexa, and more. Compatibility with other smart home products increases lifestyle benefits, putting full control of your home in the palm of your hand.

VOICE CONTROL
Just say, "Alexa, turn on the lights". Pair an assistant such as Amazon Alexa or the Google Assistant with your smart lights so you never have to lift a finger, all you have to do is ask. Control on and off, dimming and more, to set the exact lighting you want, where and when you need it.

CONVENIENCE AND FUNCTIONALITY

Never have to wonder if you remembered to turn the lights off ever again- just check your phone and see. Or simply program schedules to have lights go on and off at a certain time of the day every day, to best suit your family's time at home. Set lighting scenes for events or occasions, such as "Movie Night" or "Dinner Time" to group lights and have them automatically adjust to the perfect levels. Smart lighting works on your schedule, adjusting for every mood, time of day or task at hand, to make life easier.

SAFETY AND SECURITY

Take comfort in the ability to control your lights and power from anywhere. With smart lighting, you can make it look like you're home even when you're away, program pathway lighting to illuminate dark halls or stairs at night, or flood the home with light when there's a noise downstairs. Smart lighting adds a new layer of security so you can be more aware of what is going on in your home at any time.
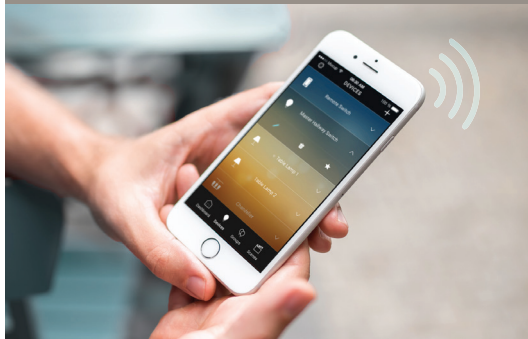
AN ADVANCED IOT SOLUTION

The Internet of Things is rapidly growing the need for connected solutions in the home. Smart lighting provides users with a connected IoT solution to access lights from anywhere, but is also paired with the ability for automatic updates so your smart lighting system remains current long after installation.

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A smart device is defined by its ability to connect to a network and to other devices, and to share and interact remotely.

Using smart dimmers and schedules, users can save up to 50% on energy consumption!

SMART SWITCH

SMART PLUG IN

SMART BULB

SMART FIXTURE

Make sure the lighting solution you choose is compatible with your existing smart devices to create a fully unified smart home.

SMART DEVICES are a familiar aspect of most of our lives, but did you know that you can make your lights smart too?

By making the lights in your home smart, you can:
- Turn off the lights in your house from the office (or anywhere)
- Make it look like you're home when you're on vacation
- Schedule lighting scenes, such as "Movie Night", and more

Here we discuss some emerging smart lighting methods and their differences.

SMART SWITCHES AND DIMMERS: WHAT ARE THEY?

Smart switches and dimmers look similar to and install in place of your existing switches and dimmers, but they have the ability to connect with other devices and the Internet via wireless protocols such as Bluetooth, Wi-Fi, and other networks using a specialized hub.

HOW DO SMART SWITCHES AND DIMMERS WORK?

Smart switches and dimmers can be controlled remotely from an app on your phone. Voice control options are also available, either natively or with an assistant such as Amazon Alexa or the Google Assistant. Many have options for creating a lighting scene or organizing a group of lights to be scheduled to turn on at a certain time. These devices can operate interactively with other smart products or autonomously, to assist in daily activities and make life easier. Plug-in units are also available, which make it easy to add smart lighting without replacing your existing switches. Smart outlet options extend control beyond just lights to make plug-in electronics smart as well.

SMART BULBS: WHAT ARE THEY?

A smart bulb is an internet-capable light bulb that allows you to control that light from any location with an internet connection.

HOW DO SMART BULBS WORK?

Smart light bulbs work in various ways – like smart switches and outlets, some have Wi-Fi radios built into them, while others require a hub, or work with Bluetooth or Z-Wave. The network makes it possible for an app to control the bulb from your smart phone. So, instead of using a smart switch to command the light bulb, the "smart" is built into the bulb. Color options are popular among smart bulbs allowing users to change the color of the light from an app. Smart bulbs are typically limited to LEDs, so it is important to match the bulb and wattage with the fixture type to ensure compatibility.

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Smart Lighting 101

SMART LIGHTING FIXTURES: WHAT ARE THEY?

Light fixtures, such as lamps and pendant lights can be smart as well. Designers have teamed up with smart device companies to create lighting fixtures with the latest smart capabilities, providing similar benefits of smart devices and smart bulbs.

HOW DO SMART FIXTURES WORK?

Smart light fixtures work in the same way as other smart devices, communicating via wireless protocols including Wi-Fi, ZigBee, Z-Wave and more. In many cases, the bulbs are built-in to the smart fixture, so the fixture is replaced when the bulb burns out. Few manufactures offer smart fixtures today, so the variety of options is limited.

Lighting has the ability to influence mood changes, sleep cycles, and perception of space. Being fully in control of your lights can have a significant impact on your life.

From keeping your home secure with away lighting, to saving energy by using just the right light level, smart lighting is a simple way to feel more comfortable in your home.

	Smart Switches & Dimmers	Smart Bulbs	Smart Fixtures
App control	**Yes**	**Yes**	**Yes**
Voice control	**Yes**	**Yes**	**Yes**
On-Off	**Yes**	**Yes**	**Yes**
Dimming	**Yes**	**Yes**	Some
Grouping	**Yes**	**Yes**	**Yes**
Scheduling	**Yes**	No	**Yes**
Colored Light	No	**Yes**	**Yes**
Hub Required	Some	Some	**Yes**
Outlet Control	**Yes**	No	No
Compatibility with other smart products	**Yes**	Limited	Limited
Compatibility with Fixtures	**Yes**	Limited	N/A
Compatibility with bulbs	**Yes**	N/A	Limited
Compatibility with switches	N/A	Limited	Limited
Installation Required	**Yes**	N/A	**Yes**
Price	$$	$$	$$$

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The market for smart lighting is expected to reach 24 billion by 2024, according to new research reported by Global Market Insights[1]. So what's all the buzz about? Smart lighting provides several advantages that can make our lives easier. Here, we shed some light on the subject, discussing the new trends that make smart lighting the next best thing.

1 ANYWHERE CONTROL

Remote access is probably the number one reason why people want to make their lights smart. By simply accessing an app on your smart phone or tablet, you can orchestrate your lights from anywhere. Make sure lights are off when you're at work, turn on entryway lights for a house sitter, or light up your outside lights as you arrive home.

2 SCHEDULING LIGHTS & CREATING SCENES

With smart lighting, you can program lighting schedules to have lights go on and off automatically for enhanced safety and convenience. Program lights to dim or turn off with sunrise or with your family's weekday departure time. Schedule lights to go on and off to make it look like you are home when you're away on vacation. Activate nightlights at 8pm to signal that it's time for lights out. Set under-cabinet and hallway lights at a low dim after bedtime for safe access to drinks or the bathroom. You can also create lighting scenes to "set the mood" in any room, to whatever that mood may be. Set up scenes for events such as "Movie Night" or "Party Time", to turn on just the right lights, dimming levels, light color, and more for the perfect ambiance every time.

3 VOICE CONTROL

Assistants are becoming more and more common in today's homes, and with Amazon Alexa or the Google Assistant, you can command smart lights without lifting a finger. Tell Alexa to turn kitchen sconces on when your hands are busy washing dishes or you're up to your elbows in pizza dough. When helping the kids with homework or art projects, ask Google to turn the dining room table light on at 100%- without leaving your post.

[1] https://globenewswire.com/news-release/2018/04/16/1471786/0/en/Smart-Lighting-Market-to-surpass-24bn-by-2024-Global-Market-Insights-Inc.html

4 ENERGY SAVINGS

Smart lighting can also save energy and money. With anywhere access, you can see which lights are on or off at any given time and control lights at any time, so you use only the lights you need. Dimming capabilities allow even greater control of lights, with potential savings of up to 50% on energy consumption. Occupancy or motion sensors can also save energy and money by activating when someone enters a room.

5 CONTROLLING MORE

It's not just about lights. Modern homeowners want the comfort and convenience of many smart devices serving many functions. Choose compatible products that can "talk" to each other and work together to make life easier. Create one "Goodnight" scene that reduces the temperature on your thermostat with Nest, secures all door locks and activates sensors with Ring, and turns off all downstairs lights, simultaneously illuminating hallways and activating nightlights. Smart lights can keep your family safe, give you constant accessibility and control, and save money and energy; but they really exist to make your life easier and better.

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