



DALS Launched its first smart home products in 2017 and with over 250,000 devices sold as of December 2021, we have developed an application expertise.

In 2019, we launched our new DAL Connect platform which quickly established its leadership with its Wi-Fi direct product ecosystem. In 2022, DALS is launching its DAL Connect PRO product assortment, which uses a Bluetooth mesh technology; allowing for a much higher number of devices installed on a network as well as several other features.

Both DAL Connect and DAL Connect PRO products work together and can easily co-exists on the same application.

**One APP –
One smart ecosystem
with technology options**

There are many benefits to smart lighting



Experience

White color temperature, and a wide array of fun colors, are easily changeable, allowing you a multitude of lighting comfort.



Save

Save on energy and increase your home's security by using schedules or turning on/off the light remotely when no one is home.



Control

Easily control your lighting with smart switches, your phone, or a voice assistant for even more convenience.



Create

With the Dals Connect app, you can program your own lighting scenes for specific conditions and tasks like watching movies, daytime or nighttime reading, parties, etc. Within a scene, you can change the brightness, color temperature and even use different hues.

What are the main differences between DALS Connect and DALS Connect PRO?



dals **CONNECT**

Quick start – direct features

DALS Connect products use Wi-Fi wireless technology which is used widely to connect computers, tablets, smartphones, smart devices, and others to the internet. Wi-Fi is shared through a router to all Wi-Fi enabled devices. This technology allows for a lot of range and a lot of devices, although there are some limitations as well. Wi-Fi has a relatively high absorption rate and works best for line-of-sight uses. A residential wireless access point usually has a range of about 30 feet and a maximum of 20 devices, depending on the type of wireless access point.



dals **CONNECT PRO**

Higher number of devices – independent network

DALS Connect PRO uses Bluetooth-mesh technology. It works on the principle that each Bluetooth device on the mesh network can relay commands to another device, through the connection from the previous device. Bluetooth-mesh networking is a standard based on Bluetooth Low Energy that allows for many-to-many communication over Bluetooth radio. You can use your smart phone or tablet to control large groups of products even without an internet connection.

Dals Connect Pro hub

You can also add the Dals Connect Pro hub, to connect up to 128 DALS Connect PRO products to the cloud as a single internet connection (as opposed to DALS Connect products where each product has its individual connection). You can also use multiple hubs for projects with more than 128 devices, with each hub acting as an internet connection as well. Cloud connection allows you to use your products with voice command platforms (such as Google Home and Amazon Alexa) as well as allowing for remote control.



Not all Wi-Fi routers are created equal. A 30\$ router will not perform the same or support the same number of devices as a 350\$ router. The number of antennas will greatly increase your Wi-Fi range.



Most smart devices only operate on the 2.4 GHz spectrum, whereas most routers nowadays share the same band for 5 GHz and 2.4 GHz. If you experience issues with disconnecting devices or trouble adding new devices, try separating your 5 GHz and 2.4 GHz band on your router. Your internet service provider can help you set this up.

Which one is best for me?

Thanks to the Dals Connect Application, you don't have to use multiple apps to control all of your smart devices, even if you decide to mix and match communication technologies.

The Dals Connect App can support Bluetooth-mesh devices mixed with Wi-Fi devices, and you can add cloud connectivity to your Bluetooth-mesh devices using the Dals Connect Pro hub. All of these will work together, but which one is right for you? Let's find out.

	DALS Connect	DALS Connect PRO	DALS Connect PRO Hub
Uses the DALS Connect App	•	•	•
Can be controlled from multiple devices at once	•		•
Range of operation from the controller (Wi-Fi router or another Bluetooth-mesh device)	30 FT	10 FT	10 FT
Number of supported smart devices	20	100*	128
Can be controlled locally (without internet)		•	•
Requires multiple access points to extend the range	•		
Secure connection	•	•	•
Can be used with voice-controlled assistant	•		•

**The actual maximum number of Bluetooth devices supported in a mesh network is much higher (32 767) but achieving these numbers would require professional network installations and mesh network segmentation.*



You can use a free network scanner tool to determine the limited range of your router. Wireless strength is represented as dBm (decibel-milliwatts) and a good Wi-Fi signal will usually range between -30 and -65 dBm. Anything lower than -65 dBm will most likely experience issues.



The technology you choose doesn't have to be all the same. You can easily combine Bluetooth Mesh devices with Wi-Fi devices thanks to the Dals Connect App. It all depends on the application. If you wish to have smart recessed devices for your exterior soffits, you would opt for Dals Connect Pro products to gain maximum range and inter-connectivity, and could combine them with Wi-Fi products for your living room. The choice is up to you!