

Multi Network Cube Configurations

Multiple network laser cubes can be connected together using a hub or network switch to allow LaserOS software to project on up to 6 (maybe more) laser cubes at the same time.

The preferred connection method in all multi cube configurations is a wired connection via the cube's ethernet port (due to bandwidth reasons).

The simplest connection method is to have all laser cubes acting as ethernet clients, and then connect them to a hub which is acting as a DHCP server.

If there are more laser cubes than there are available ethernet ports on the user's HUB, a network switch will be required to allow further laser cube's to be connected.

If no DHCP hub is available, one of the laser cubes can be configured to be an ethernet DHCP server, and with the use of a network switch, all remaining cubes can be connected to the network switch and configured as ethernet clients.

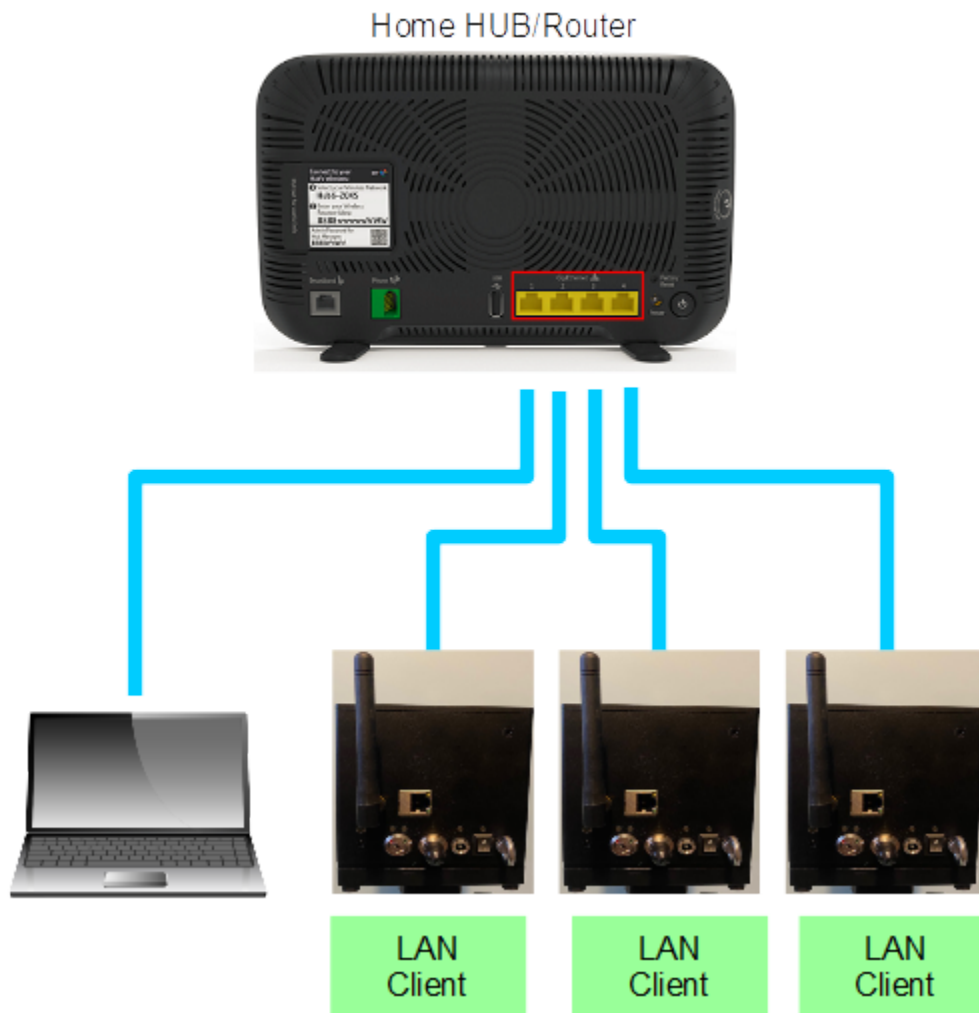
The server cube will then assign IP addresses to all the client laser cubes including the desktop PC or Phone running the laserOS software.

LaserOS has been tested to run with up to 6 network laser cubes simultaneously over the ethernet port with a D-Link 8 port gigabit network switch.

Example network configurations are shown on the following page.

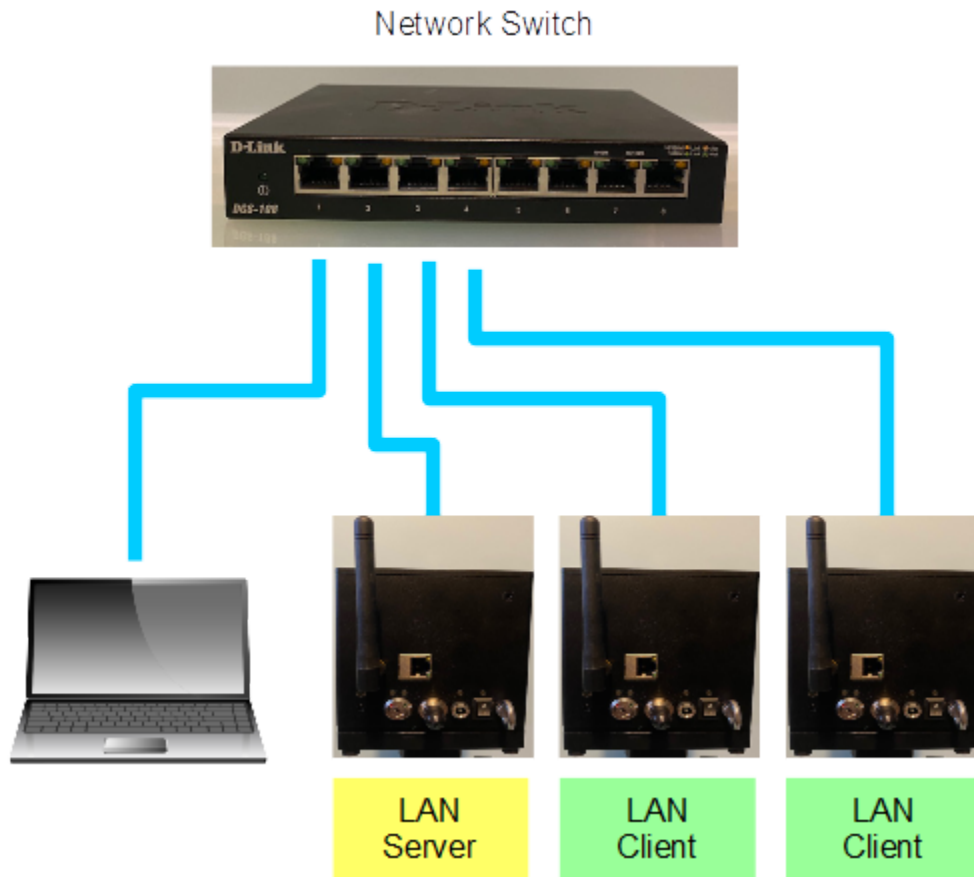
LAN Setup Example 1

This configuration can be used when the user has all of their devices connected to a home HUB (broadband router). The user's hub will then allocate IP addresses to any network laser cubes connected as long as they are all set to be LAN clients.



This configuration could also be used with an additional network switch in order to increase the number of available ethernet ports, allowing more network laser cubes to be connected.

LAN Setup Example 2



In LAN Setup example 2, The following equipment is required:

- Laptop or Mobile phone with USB to ethernet adapter
- 8 port 100M/1G ethernet switch (D-Link shown in the example)
- 2-6 Network Laser Cubes.

In this configuration, No DHCP hub is required as this will be performed by the first network cube. The first network cube (LAN server) is acting as the DHCP server and will assign the other devices on the network an IP address.

The other devices need to be set as LAN clients (PC/mobile phone will normally always act as a client on a computer network).

With an 8 port network switch, up to 6 laser cubes can be controlled by LaserOS from the laptop.