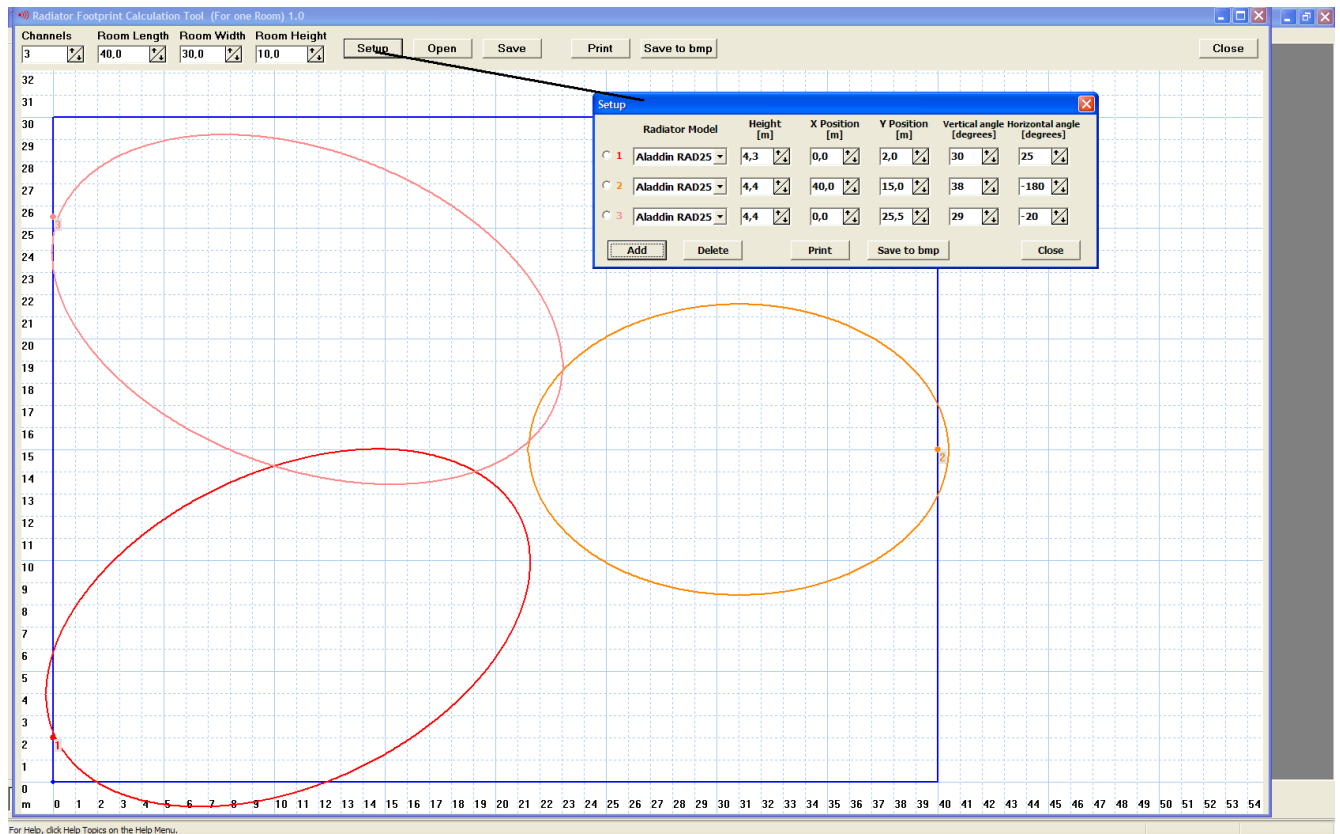


APPLICATION NOTE ...

Date: 8 april 2011
From: TCS
To: Aladdin users

Using Aladdin Footprint calculator

Via setup knob set # of radiators and their respective position parameters , total nr of channels and roomsize. The result of the footprint is shown in the diagram and can be saved or printed



Using Aladdin Delay calculator one radiator

Set signal delay caused by coax cable (see cable specifications) : if delay is not known , select 5nm/m since that is +/- a common value with RG59 coax cables

Set the length of the coax cable from transmitter to first radiator (e.g. 10m)

Set the length of the coax cable from transmitter to second radiator (e.g. 5m)

Click on “calculate Delay Switch”

As results the switch settings are seen that have to be set on side the radiators

IR Calculator

Cable Signal Delay Per Meter: 5 ns/M

Max Cable Length:495(M)

Transmitter Count

☒ One Transmitter ☐ Two Transmitters

transmitter radiator radiator

Master

Radiator	Length(M)	Switch
1	10	0
2		
3		
4		
5		
6		
7		
8		
9		
10		

Radiator	Length(M)	Switch
1	5	1
2		
3		
4		
5		
6		
7		
8		
9		
10		

Radiator	Length(M)	Switch
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Radiator	Length(M)	Switch
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Calculate Delay Switch

Using Aladdin Delay calculator master-slave radiators

Set signal delay caused by coax cable (see cable specifications) : if delay is not known , select 5nm/m since that is +/- a common values with RG59 coax cables

Set the length of the coax cable from transmitter to first radiator connected to master transmitter (e.g. 5m)

Set the length of the coax cable from master transmitter to slave transmitter (e.g. 10m)

Set the length of the coax cable from slave transmitter to first radiator (e.g. 10m)

Set the length of the coax cable from slave transmitter to first radiator (e.g. 10m)

Set the length of the coax cable from first (slave) radiator to transmitter to second (slave) radiator (e.g. 2m)

Click on “calculate Delay Switch”

As results the switch settings are seen that have to be set on side the specific radiators

The screenshot shows the 'IR Calculator' software interface. At the top, 'Cable Signal Delay Per Meter' is set to 5 ns/M, and 'Max Cable Length' is 495(M). The 'Transmitter Count' is set to 'Two Transmitters'. Below this, there are two main sections: 'Master' and 'Slave'. Each section contains a diagram of a transmitter and a table of radiator settings.

Master Section:

- Diagram: A transmitter labeled 'Master' with a cable connected to the first radiator of the first table.
- Table 1 (Radiator 1 to 10):

Radiator	Length(M)	Switch
1	5	3
2		
3		
4		
5		
6		
7		
8		
9		
10		
- Table 2 (Radiator 1 to 10):

Radiator	Length(M)	Switch
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
- Table 3 (Radiator 1 to 10):

Radiator	Length(M)	Switch
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Slave Section:

- Diagram: A transmitter labeled 'Slave' with a cable connected to the first radiator of the first table. The cable length from the master to the slave is set to 5m.
- Table 1 (Radiator 1 to 10):

Radiator	Length(M)	Switch
1	10	0
2		
3		
4		
5		
6		
7		
8		
9		
10		
- Table 2 (Radiator 1 to 10):

Radiator	Length(M)	Switch
1	2	2
2		
3		
4		
5		
6		
7		
8		
9		
10		
- Table 3 (Radiator 1 to 10):

Radiator	Length(M)	Switch
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
- Table 4 (Radiator 1 to 10):

Radiator	Length(M)	Switch
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

A 'Calculate Delay Switch' button is located on the right side of the interface.