



JBmia Data Projector Group answers to Questions, regarding to projectors of Exemption Request Form – 4f

Question3B : You mention the HLD LED new technology for its applications in the projector market, what prevents a retrofit of this technology to existing projectors?

Answer :

HLD LED Technology is a combined technology of LED projector and HLD rod. The structure is shown in page 48 in our application “HLD LED DLP projector”.

Therefore, in addition to no backward compatibility of LED projector, addition of HLD rod prevent further from retrofit of the HLD LED technology to existing projectors.

As shown in page47~49, there are three reasons why retrofit solutions are not possible, (1) architecture, (2) cooling, (3) size of light source. (1)(2)(3) are applicable to LED projector part of HLD LED projector.

From architecture difference, light route for splitting and combining three colors must be different. And light source driver circuit must be different by Voltage-Current characteristic of light source, and number of light sources.

As for cooling difference, Lamp projector must cool dot of very high temperature bulb by air. LED projector must cool whole module, which LED devices are mounted.

As for light source size, shape and number of light sources are different.

HDL LED technology needs to add more retrofit barrier in addition to mentioned LED projector technology barrier.

Structure and appearance of HLD rod is shown in page 48 in our application. HLD rod part makes HLD LED projector bigger and heavier than LED projector.

And to drive and cool HLD rod, light source driver circuit and the cooling must be strengthened additionally.

As mentioned above, in addition to technology barriers of architecture, cooling and size, HLD rod technology barriers make backward compatibility impossible.