

Difference between Beam Penetration and Shadow Mask:

Sr. No.	Basis	Beam Penetration	Shadow Mask
1.	Colors produced	In this method, there is the production of only four colors i.e., red, green, yellow, orange.	In this method, there is the production of millions of colors.
2.	Color dependency	As in this method only four colors are produced it is because of the speed of the electron gun.	As in this method millions of colors are produced because it depends upon the intensity value of the three available guns.
3.	Number of electron guns used.	In this method, only one electron gun is used.	In this methods, three electron guns are used; i.e red, green and blue.
4.	Picture quality	As we know in this different colors and shades are not possible. So, it's picture quality is poor.	As we know in this different colors and shades are possible. So, it's picture quality is quite good.
5.	Realistic view	This method is not suitable for providing the realistic view.	This method is suitable for providing the realistic view.
6.	Resolution	This method provides high resolution.	Whereas, this method does not able to provide high resolution.
7.	Cost	It is cheaper than shadow mask method.	It is an expensive method.
8.	Application	It is used in random scan system to display color.	It is used in raster scan system to display color.