



ViewSonic®
See the difference™

VIEWSONIC EUROPE LIMITED PIXEL POLICY

ISO 9241 is a multi-part standard from the International Organization for Standardization (ISO) covering ergonomics of human-computer interaction. It is managed by the ISO Technical Committee 159. It was originally titled Ergonomic requirements for office work with visual display terminals (VDTs).

ISO-9241-302, 303, 305, 307:2008 pixel defects

Of particular interest to the lay computer user are the definitions of flat-panel TV and monitor pixel defects provided in the ISO-9241-3xx series of standards.

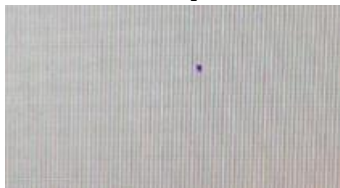
Bright Dot Defects

A bright dot defect is a group of three sub-pixels (one pixel) all of whose transistors are not working. This allows all light to pass through to the RGB layer, creating a bright white pixel that is always on. Bright dot defect can be checked on a full black pattern.



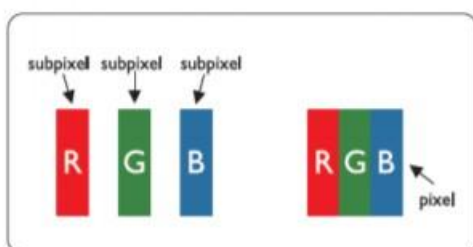
Dark Dot Defects

A dark dot defect is usually caused by a transistor in the transparent electrode layer that is stuck "on" or "Off" by different panel type. It continuously runs a charge across the liquid crystal material, so no light ever passes through the RGB layer. Dark dot defect can be checked on a full white pattern.



Partial Sub-Pixel Defects

A partial sub-pixel defect is a pixel that is always "on", usually caused by a transistor not getting any power, and therefore continuously allowing light at that point to pass through to the RGB layer. This means that any given pixel will stay red, blue, or green, and will not change when attempting to display an image. These pixels may only show up using certain applications, or they may be on all of the time.



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ViewSonic has one of the best pixel warranty of any monitor manufacturer. Our monitors conform to an International standard covering all ergonomic aspects of displays.

For ViewSonic computer monitors, we offer pixel figures as table below.

For ViewSonic VP Series products, additionally, we exceed the ISO specification by offering zero defective pixels.

LCD Monitor Pixel Policy				
Resolution	Pixel QTY	Bright Dot (White Pixel)	Dark Dot (Black Pixel)	Combination of Bright + Dark
2560 x 1440 Or smaller	3,686,400	N≤2	N≤4	N≤5
3840 x 2160 Or larger	8,294,400	N≤5	N≤5	N≤8

Large Format Display Pixel Policy				
Resolution	Pixel QTY	Bright Dot (White Pixel)	Dark Dot (Black Pixel)	Combination of Bright + Dark
1920 x 1080 Or smaller	2,073,600	N≤5	N≤5	N≤8
3840 x 2160 Or larger	8,294,400	N≤8	N≤10	N≤16