

BLACK DIAMOND

**51" Rear projection
Television with
Progressive Scan**



BLD-5188

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1250 Line Progressive Scan

What is progressive scan?

According to the theory of electronic technology, in order to remove the flickers between scanning lines and increase the definition in picture quality of a television, the line scanning frequency of a television must be raised.

For most conventional televisions, the line scanning frequency is 15.625kHz, which results in the number of the scanning lines being 625.

Black Diamond rear projection televisions use the latest electronic technology which is called "Progressive Scan". Using progressive scan technology increases the number of scanning lines from 625 to 1250 by raising the line scanning frequency of a television from 15kHz to 31.5kHz, plus by shifting the frequency from 15kHz signal to 31.5kHz signal. The iris closes the lens to freeze the image captured by the CCD. The picture lines of one field are then consecutively read into two field memories and recorded. As this method records the actual image data (field A and B) captured at precisely the same moment, the vertical resolution is much higher than still images recorded in the conventional Photoshot mode.

What is the advantage of 1250 line progressive scan?

1250 line Progressive scan can remove the flickers between scanning lines and line scanning structure lines making the picture more stable and clearer. The vertical and horizontal visual angles are also enlarged. The brightness of picture is heightened obviously.

Comparison with 100Hz conventional scan

Descriptions	100Hz conventional scan	1250 line progressive scan
Forming of picture	Two pictures added through scanning alternatively	Picture formed simultaneously by scanning consecutively
Large amount of flickers	Removed	Removed
Flickers between scanning lines	Still exist	Removed
Line scanning structure lines	Obvious	Thin
Brightness	Enhanced	Enhanced
Visual angles	Small	Large

Specifications

- ◆ 51" (127cm) Rear Projection Television
- ◆ 1250-line progressive scan
- ◆ 236 programs preset
- ◆ Hyperband CATV ready
- ◆ Program naming
- ◆ Still picture
- ◆ Blue background noise reduction
- ◆ Mute
- ◆ Dynamic colour transient improvement
- ◆ Dynamic light transient improvement
- ◆ Dynamic digital focus system
- ◆ Computer picture enhance circuit
- ◆ Dynamic noise reduction
- ◆ Auto dark balance rectification
- ◆ Comb filter (NTSC/PAL)
- ◆ English OSD
- ◆ Recall
- ◆ On/Off timer
- ◆ Auto off without signal
- ◆ 4 picture modes: Soft, Nature, Rich, User
- ◆ Digital I2C bus control
- ◆ FS tuner
- ◆ Digital frequency tracing
- ◆ Hi - Fi sound system
- ◆ AV stereo
- ◆ Woofer
- ◆ Surround
- ◆ 4 sound modes: Surround, Speech, Theatre, Music
- ◆ 1 side & 2 rear AV inputs
- ◆ 1 rear AV input
- ◆ 1 side & 1 rear S-video
- ◆ 1 rear DVD component input
- ◆ 1 side VGA interface

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