

13 JAN 3DZ TILE BROADCAST FORMAT SOLVES LOT OF ISSUES

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We announced in December 2010 the 3D TILE stereoscopic 3D broadcast format launched by SISVEL (Italy). Now SISVEL is making the headlines again with a new variant of their clever way to squeeze a stereoscopic 3D 720p stream in a single 1080p channel. The new transmission scheme is dubbed "3DZ Tile Format" because it includes now a quarter-resolution depth map making display on any glasses-free 3DTV possible. Details and sample here under.

One of the magic of the 3DZ Tile format is that it has an MPEG4 parameter called "cropping rectangle" set to 720p size. This means that any good old decoder sees only the top left rectangle of the 1080p 3DZ frame and displays that as a 2D 720p picture; Everything looks like a standard 2D video. However, on a decoder including the 3DZ codec, the right image is reconstructed from its parts stacked on the bottom and on the right of the left image so it is able to display a proper stereoscopic 3D video.

3DZ Tile Format



A 3D Tile Format Sample



For a "3DZ Tile format", imagine the same as above with a grayscale image in the lower right corner.

The 3DZ Magic

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And on autostereoscopic 3D TV sets, the depth map in the lower right corner allows the multiview decoder algorithms to recreated as many accurate views as needed between the left and right images (most glasses-free TV sets are displaying 5 to 9 views).

Partners using the 3D TILE format

Numerous partners are already using the previous version of the "3D Tile Format" technology: local, national and international broadcasters (Quartarete, 50canale, Europa7, VTV Broadcom, CNTV 3D channel, SES), industry partners (Vestel, Sim2, Antik Technology, Utah Scientific, CVE, BLT, Triaxes, Elecard, Dimenco, Gammared, Allied Telesis) and 3D content producers.

SISVEL

Sisvel Technology (Italy) is dedicated to research, development, and technical consultancy in the media technology industries. Sisvel Technology is working diligently to provide compelling solutions to broadcasters throughout the 3D entertainment ecosystem - from chipsets, TV and set-top box manufacturers to TV and IPTV broadcasters.

For more info, visit [SISVEL Technology](#).

<http://www.stereoscopynews.com/hotnews/3d-technology/compression-a-transmission/2902-3dz-tile-broadcast-format-solves-lot-of-issues.html>