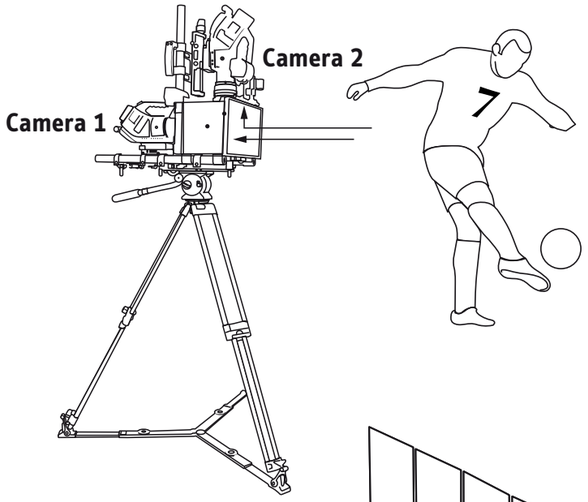
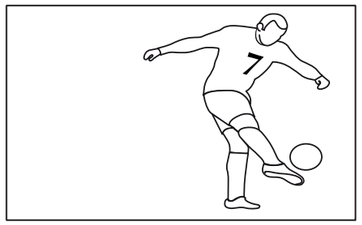
It all starts here

To produce moving images that appear to be three dimensional, two separate images need to be captured at the same time. The cameras used are standard High Definition cameras, which act like a pair of eyes and focus on the left and right angle of an image.

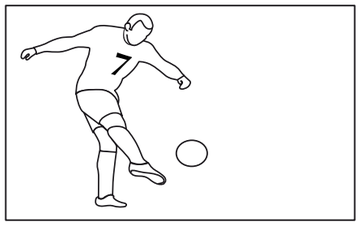


WHAT EACH CAMERA SEES

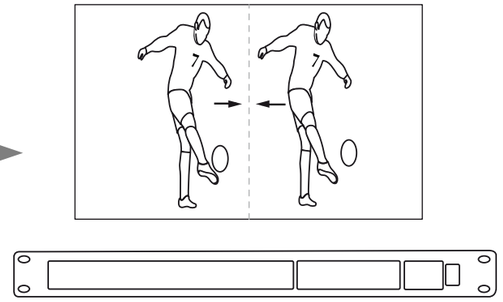
Camera 1 focuses on the left angel of a moving image



Camera 2 focuses on the right angle of a moving image

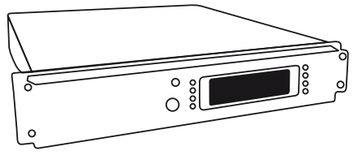


The two images from both cameras are then edited so that the colours match exactly and focus and depth are consistent to ensure smooth transitions between the two images. The images are then converted into one three dimensional image via a 3D processor.

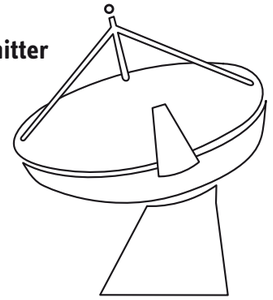


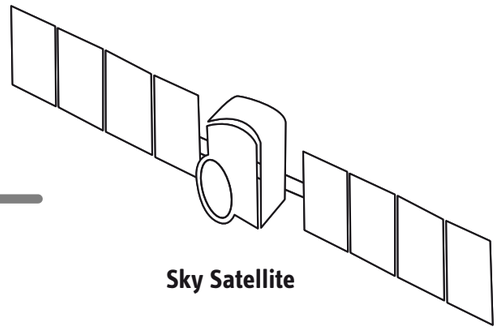
3D Processor

A digital encoder is used to compress the three dimensional image into a high definition quality digital image which can then be transmitted over to the Sky Satellite in Space.

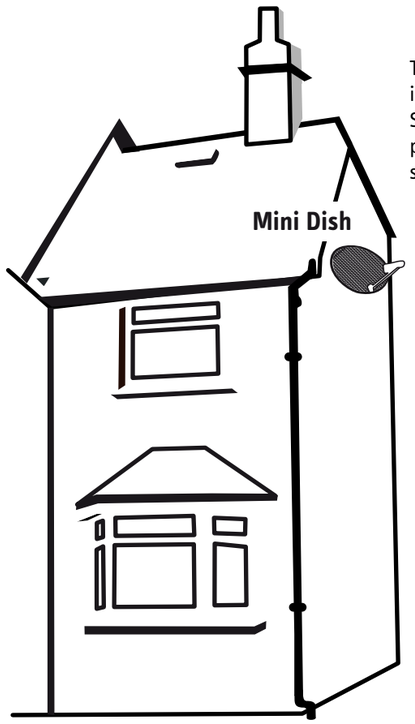


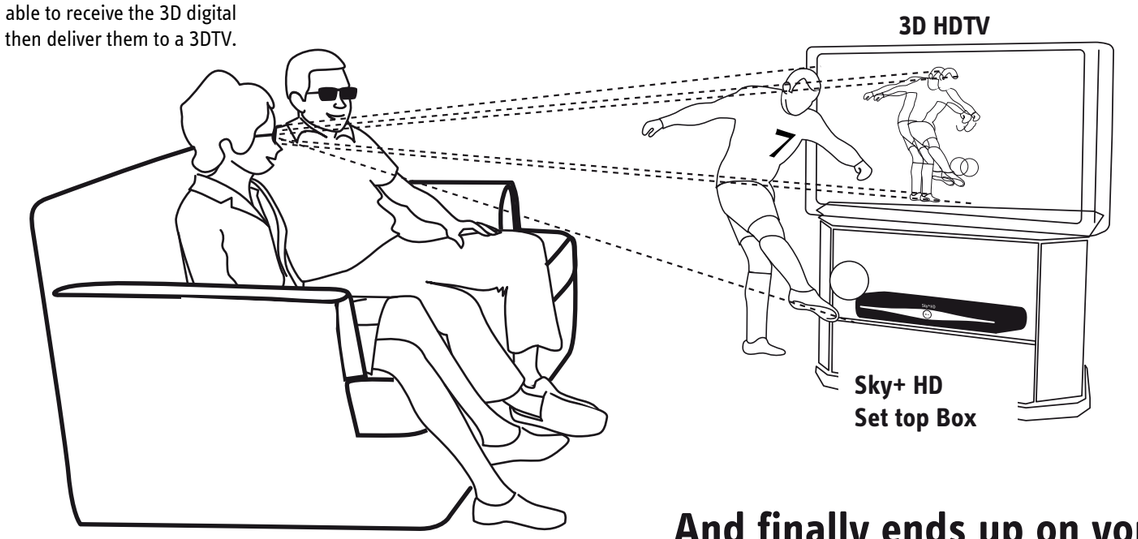
Digital HD encoder





The Sky Satellite in space sends a signal of this digital image to the Sky Mini Dish and Sky+ HD box in the home. Sky+HD set-top boxes already have the necessary processing power to be able to receive the 3D digital signals, store them and then deliver them to a 3DTV.





To view the three dimensional image the viewer needs to wear 3DTV glasses which prevent the left eye from seeing the image intended for your right eye and vice versa. The brain then processes each image to create one single image, providing a level of depth and focus which means that the content is able to move to and from the foreground and therefore becomes three dimensional.

And finally ends up on your TV