

Guinness Book World Record is Set by the Lunar World Record Team Using Lumenera Cameras

The largest ground-based digital lunar mosaic is created using SKYnyx2-0 and INFINITY2-1 CCD cameras

An Incredibly Ambitious Project Delivers a Beautiful Record Breaking Image

The Lunar World Record Team, featuring some of the world's foremost amateur astronomy imagers from the UK, gathered to create a high resolution image of the moon larger than any other taken by ground-based astronomers. The end result was a Guinness World Record setting image. Proceeds from the sale of reprints of this image are being donated to the Cystic Fibrosis Trust.

Image of the Moon is Created, Eclipsing Any Other

The aim was to image the Moon at very high focal lengths using Lumenera's professional astronomy cameras, combined with high-end amateur telescopes and special software, to capture close to 1.2 million video frames of the 9-day old Moon over a single night.

Each telescope would take an image of a small section of the lunar surface at high resolution and these would be assembled, like a giant jigsaw puzzle, into a complete image. 288 individual images were meticulously pieced together and color balanced to create a seamless single mosaic. The record breaking mosaic is 87.4 megapixel in resolution with a Moon diameter of approximately 9550 pixels, allowing for features as small 0.6 miles to be seen.

To achieve the high focal length needed for the Guinness World Record the Lunar World Record Team chose Lumenera's SKYnyx2-0 and INFINITY2-1 CCD cameras. The cameras, running at 30 fps, were used with a red filter



Highlights

- Lumenera's professional astronomy cameras were used to capture close to 1.2 million video frames of the 9-day old Moon over a single night.
- 288 individual images were meticulously pieced together and color balanced to create a seamless single mosaic of the Moon.
- The Lunar World Record Team chose Lumenera's SKYnyx2-0 and INFINITY2-1 CCD cameras.
- The cameras, running at 30 fps, were used with a red filter which included IR block coating to prevent blooming and glare in the night time images.



which included IR block coating to prevent blooming and glare in the night time images. The team also used Lumenera's LuCam Software to gather the captured data from the cameras.

World Record is Set for a Worthy Cause

All proceeds from the use of the final image are being donated to the Cystic Fibrosis Trust, a charity designated by Sir Patrick Moore, the astronomer. In addition, all team members contributed their time for free on this record setting project.

About Lumenera

Lumenera Corporation, a division of Roper Technologies, headquartered in Ottawa, Canada, is a leading developer and manufacturer of high performance digital cameras and custom imaging solutions. Lumenera cameras are used worldwide in a diverse range of industrial, scientific and security applications.

Lumenera solutions provide unique combinations of speed, resolution and sensitivity in order to satisfy the most demanding digital imaging requirements. Lumenera customers achieve the benefit of superior price to performance ratios and faster time to market with the company's commitment to high quality, cost effective product solutions.

For further information about Lumenera, please visit www.lumenera.com or call 613-736-4077.

Lumenera's SKYnyx2-0



Lumenera's INFINITY2-1

