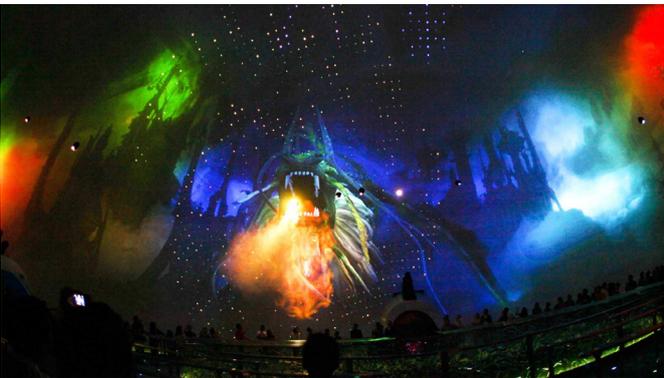


**project: syntropy (Germany - Sweden - China - South Korea)** develops immersive interactive simulation-, training- and entertainment environments. Many years of development and over one hundred projects world-wide have resulted in highly scalable turnkey full-dome cinema attractions.

**Dragon’s Treasure - City of Dreams, Macau**

The entrance dome (‘The Bubble’) is the main attraction of the entire City of Dreams Resort in Macau.



project: syntropy was contracted to adapt and install their most flexible ProjectionTools auto-alignment system for the gigantic installation and to perform the initial calibration of ‘The bubble’. We developed dedicated software modules for ‘The Bubble’ and installed a multi-camera ProjectionTools auto-alignment system in the dome, which allows for re-calibration of the whole projection system within very short time with a quality which is not achievable otherwise. Therefore maintenance time for the complete installation could have been reduced to a minimum.

**Facts of ‘The Bubble’**

The City of Dreams – the largest recreational resort in Macau SAR – has an ellipsoid dome projection – the Bubble – with 20m in height, 36m in length and 27m in width at the centre of its attractions. The ellipsoid projection surface of 1.700 sqm consists of specially coated sheet metal plates and is powered by 15 Christie HD+30k projectors, delivering a resolution of 36 mega-pixels. It is integrated into a complex steel structure and aluminium sub-structure with a total payload of 60tons for the screen, audio, lighting and special effects. It is the world’s largest special effects projection dome and costed nearly USD 40 million. It runs a 10-minute multi-media show called ‘Dragon’s Treasure’: the movie is supported by lots of practical effects, fire, smoke and over 29.000 LED lights.



The featured film was especially developed for this use featuring a 36 mega-pixels resolution and requiring its own unique server structure with the capability to render and play-back in real time with 60 frames per second



Next Generation Media Based Attractions

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