



360 degree rapid imaging



SECTORS

A wide range of sectors benefit from iSTAR's rapid 360° data capture capabilities.

GEOMATICS

Scenes of crime Collision investigations Public order events Tactical visual documentation

MILITARY

Rapid Reconnaissance Tactical Response Planning Pre Visualisation Threat Assessment

HERITAGE

Visual Documentation Heritage Documentation 3D Digital Visualisation 3D Modelling & Mapping

ENGINEERING

Airborne Photography & Mapping Asset Management Visual Documentation Mining & Monitoring

MEDIA

Street Mapping Spherical Interior Imaging Broadcast Immersive Media Virtual Tours

GOVERNMENT

HM Revenue and Customs Border Control Immigration Security Ports and Harbours



APPLICATIONS

iSTAR is well suited for any application requiring high-resolution, fast, accurate 360° images and video that not only captures the location precisely but also the position.

Typical applications include forensic image documentation, situation awareness, asset documentation, geospatial documentation and vehicle-base photogrammetry.



RGB point cloud colourisation



360° monitoring and surveillance





Rapid reconnaissance



"Street view" type imaging



Crime scene investigation



Destination marketing



Asset management and visual documentation





KEY TECHNICAL CAPABILITIES



SPHERICAL VIDEO STREAMING

For surveillance and mobile capture applications, iSTAR can record images at a high frame rate and at high resolution that can be processed as immersive video. Raw data can be captured directly to a computer or to a connected SSD (hard drive) to allow for true mobile data capture.

For remote monitoring applications, a "live" spherical data stream can be viewed directly from iSTAR either over WiFl to a tablet device or to a dedicated computer via Ethernet.



MEASUREMENTS FROM DATA

iSTAR is a high precision capture system engineered and calibrated precisely to deliver highly accurate data. This enables accurate measurements to be extracted from the images (and video) captured. iSTAR's typical accuracy is 10mm over 10 meters (+/- 1mm).

A wide range of third-party software applications can be used in conjunction with iSTAR to extract this data.



DATA WITH POSITIONING

GPS receivers can be connected to iSTAR to record the position and location of the data captured. iSTAR has been tested and is compatible with a wide range of industry standard receivers including high end IMU's for higher accuracy.

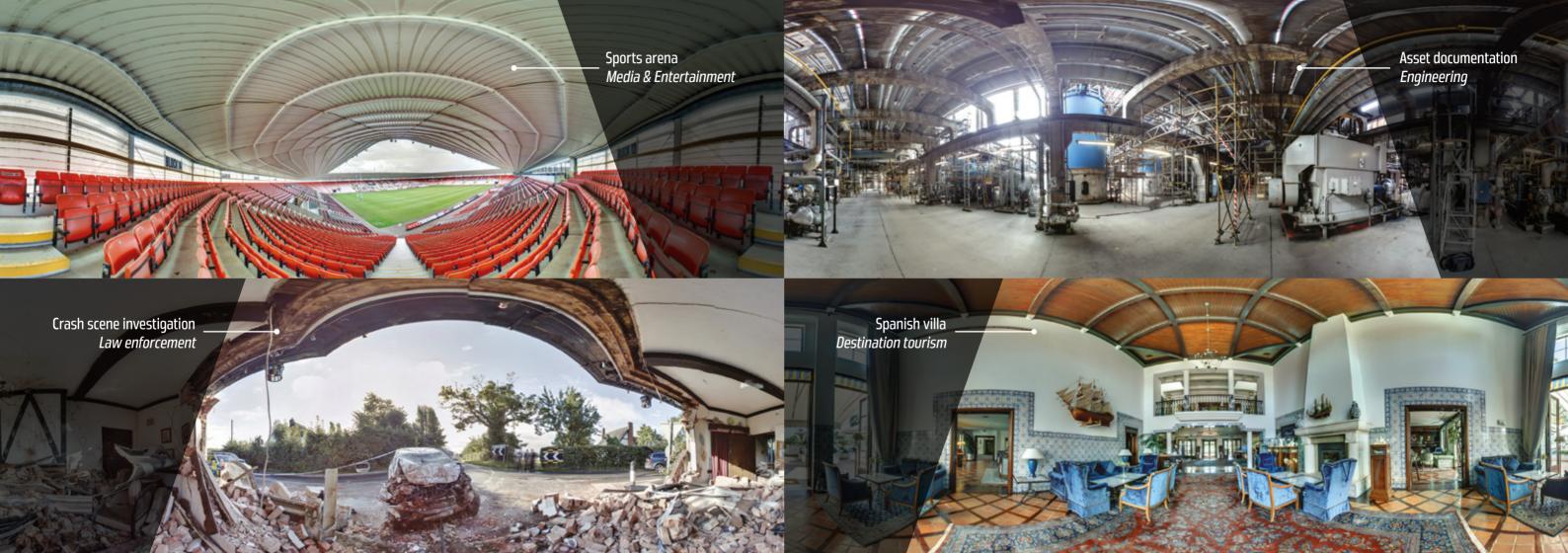
iSTAR's internal sensors record the compass positioning as well as tilt variations during capture. The data is written directly to the images and the EXIF data and is retained throughout the post-processing work-flow.



HDR & EXPOSURE FUSION

A key feature of iSTAR is it's high dynamic rage capabilities (HDR) with an impressive EV range of 27 f-stops. This enables iSTAR to capture the true colours and a light variant in a scene ensuring no data is lost.

iSTAR can be set to capture a single exposure, three, or set to fully automatic where the location is automatically analysed prior capture to determine the best EV capture range.



iSTAR was very impressive. It's size, ease of use, portability and image quality make it a worthy companion for our FARO Focus Laser Scanners.

Andrew Maltby Mrics. Director. Maltby Surveys

To us iSTAR was a revelation! It has become one of the first bits of kit that comes out of the car and is used by every member of the team.

Colin Humphreys. Forensic Collision Investigator. Warwickshire Police

I am really liking what this unit can do in the dark with HDR. I can see how the iSTAR could be applied to crime and accident scenes, but just as well to caves, tunnels, manufacturing...

Eugene Liscio. Forensic Expert. Ai2-3D

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