

Dodeca® 2360 Camera System

The world's first 360°, full motion, high-resolution camera



Dodeca® 2360
Immersive Video Camera.

Immersive Media's flagship product, the Dodeca® 2360 camera system captures high-resolution video from every direction simultaneously.

The world's first 360°, full motion camera, the Dodeca 2360 delivers 100 million pixels or 30 frames per second and supports a number of video formats. And at 2.5 lbs, it is highly portable and easily attached to automobiles, helicopters, backpacks and rigging equipment for any filming requirement.

Patented approach – covers the capture, display and distribution of 360°, interactive video.

360° field of view – full environments can be recorded and transmitted at a resolution of 2400x1200 pixels per frame, 30 frames per second.

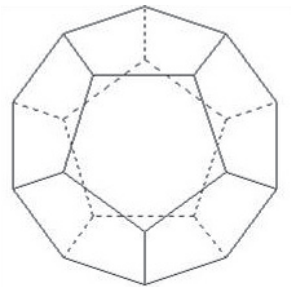
High resolution – eleven video streams build up maximum resolution using more than 100 million pixels per second.

Maximum display options – by virtue of superior resolution, display options are unrestricted.

Geodesic geometry – using the most efficient division of the sphere ensures consistent quality in all directions.

Location-based data – support for GPS, ESRI and ArcGIS data.

Recorded or live – capture spherical video for online distribution and software integration and/or broadcast it in real-time using imLIVE™, Immersive Media's 360° streaming video solution.



Based on the dodecahedron, a 12-sided sphere, the Dodeca 2360 captures high-resolution video from every direction simultaneously at more than 100 million pixels per second or 30 frames per second.

TECHNICAL SPECIFICATIONS

→ CAMERA

Sensors

Eleven Sony 1/3" sensors in modular dodecahedral array.

Control

Common timing and control, with custom image enhancement.

Field of view

Of full array: 360° horizontal, 290° vertical (91.7% of sphere) Max. 96%.

Alignment

Accuracy of framework for modules: +/- 10 arc minutes (1 pixel).

Filters

Each lens accepts standard 30.5mm to 37mm filters and lens hoods.

Resolution

2400x1200 final stitched image size.

Electronic shutter

From 1/2 sec. to 1/9000 sec.
Automatic and manual white balance and custom low light gamma options.

Frame Integration

Automatic for low light modes.

Data transmission

Camera data on gigabit Ethernet PHY, on Cat 5e cable (up to 350') or optional single-mode fiber (over 1 mile).

→ MICRO BASE UNIT

Size and weight

11.5" x 6.75" x 3.75" and 4.75 lbs without hard drives and batteries.

Control

Unified camera control through direct attached control pad or over Ethernet via the Remote Viewer.

Processor

Proprietary unified processor handles up to twelve channels at once.

Compression

All channels are compressed, recorded at 24MB/sec and played back in a synchronized, unified form. Custom multi-channel MJPEG compression of digital video streams.

Image files

Image files can incorporate GPS or other metadata from any external devices through up to two serial ports.

Output

Composite and S-Video outputs of selected monitor view.

Power

12 volts, 60 watts.

Accessories

Remote Viewer for remote on-the-fly configuration managements, video playback and live monitoring. Custom Maxi Base (11 lbs, 75 watts) for use in helicopter applications.



Dodeca® 2360
Micro Base Unit.

IMMERSIVE MEDIA

THE WORLD LEADER and only end-to-end provider of 360°, full motion, interactive videos.

SERVICES – Hire Immersive Media to create 360° video experiences. We do it all, from filming and post-production to technical integration and online distribution.

EQUIPMENT – Purchase a 360° camera system and utilize advanced software tools for post-production, integration, distribution and viewing.

CONTENT – License footage from the Immersive Media Content Library, the world's largest collection of 360° interactive videos.

→ SOFTWARE

The Dodeca 2360 comes with a comprehensive suite of software tools for post-production, integration, distribution and viewing.

Image stitching software – brings together a seamless 360° viewing experience.

Integration software – enables multimedia to be added to each video, including embedded voice, data and navigation.

Distribution software – aligns the videos with Web sites, enterprise applications and service portals.

Immersive Media Software Development Kit (IM SDK) – enables the creation of custom software solutions that feature 360°, interactive videos.

→ ACCESSORIES

From underwater domes to Applanix integration tools to mounting kits for helicopters, vehicles and backpacks, Immersive Media offers a variety of accessories for purchase or rent.

Vehicle mounts**Helicopter mounts****Backpack mounts****Underwater housing****Virtual reality viewing goggles**

→ GET STARTED

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