

LYRA™

Helicopter Large FOV Dome Visual Display Systems

3D perception offers a catalog of turn-key, preconfigured Northstar™ visual display systems for different simulation applications.

The Lyra range of products are front-projected dome displays, ideal for helicopter simulators. In comparison to collimated display options, front projection can offer a larger image with a continuous field of view throughout the chin and skylight windows, as well as optimized image contrast and uniformity.

System designs are flexible to accommodate specific program requirements and can allow for static or motion cabins, differing projector type and resolution, screen gain/contrast, and field of view. To date, Lyra systems have been delivered for the following aircraft simulators:



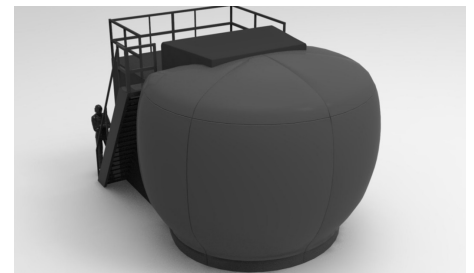
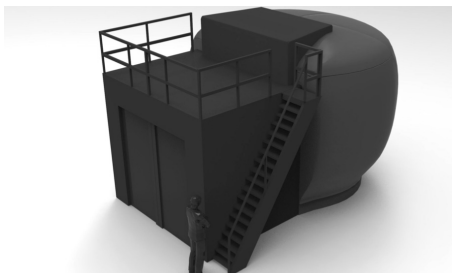
- Airbus UH-72A Lakota
- Bell MRH 407
- Bell UH-1
- Boeing MH-7 Little Bird
- Sikorsky VH-60N
- Sikorsky CH-53E Super Stallion
- Sikorsky MV-22B Osprey

System Options

System	Radius	Approx. Dimensions			HFOV	VFOV	Resolution	Brightness	Projection - OTW & HUD		
		L	W	H					Qty	Type	Resolution
Lyra 200	4 m	7 m	8 m	5 m	200°	+30°/-30°	5 arc min/OLP	15 Ft L	5	Laser or LED	WQXGA (2560x1600)
Lyra 210	3.25 m	5 m	8 m	6 m	210°	+30°/-50°	6 arc min/OLP	6 Ft L	6	UHP Lamp	WUXGA (1920x1200)
Lyra 220	3.5 m	6 m	6 m	5 m	220°	+25°/-55°	7 arc min/OLP	9 Ft L	7	UHP Lamp	WQXGA (2560x1600)
Lyra 240	3.25 m	7 m	6 m	5 m	220°	+35°/-60°	6 arc min/OLP	7 Ft L	13	UHP Lamp	WQXGA (2560x1600)

Features

- Proven and mature 3D perception Northstar™ platform
- Precision image autocalibration via Aurora™ sensor-instrumented screen
- Dynamic Optical Blenders™ for optimal image at any time of day
- Scenario management for time of day, NVG, eyepoint locations, etc.
- IG independent image processing and autocalibration architecture
- Centralized system control including full projection control
- Integrated maintenance platform and light closeout options
- Adaptable configurations to meet program requirements



Specifications subject to change without notice | Revised Nov 2019