Specifications

Helios2+ Chroma Specifications

HTP-RGB-001		
	HTP003S-001	**TRI032S-C**
Sensor Model	Sony DepthSense IMX556PLR CMOS	Sony IMX265 CMOS
Framerate	30 FPS @ 0.3 MP (Normal modes)* 10 FPS @ 0.3 MP (HDR modes)* 103 FPS @ 0.3 MP (High Speed modes)* *See Helios2+ HTP003S for more info.	35.4 FPS (38 FPS) @ 3.2 MP [1]
Power Requirement	PoE+ (IEEE 802.3at) or 18-24 V ±5% through GPIO	PoE (IEEE 802.3af) or 12-24 V through GPIO
Lens Field of View	67° x 51° (nominal)	
Illumination	4 x VCSEL laser diodes, Class 1, @ 850nm	

Helios2 Chroma Specifications

HLT-RGB-001		
	HLT003S-001	**TRI032S-C**
Sensor Model	Sony DepthSense IMX556PLR CMOS	Sony IMX265 CMOS
Framerate	30 FPS @ 0.3 MP (for all operating modes)	35.4 FPS (38 FPS) @ 3.2 MP [1]
Power Requirement	PoE+ (IEEE 802.3at) or 18-24 V ±5% through GPIO	PoE (IEEE 802.3af) or 12-24 V through GPIO
Lens Field of View	67° x 51° (nominal)	
Illumination	4 x VCSEL laser diodes, Class 1, @ 850nm	

Helios2 Wide Chroma Specifications

HTW-RGB-001		
	HTW003S-001	**TRI122S-C**
Sensor Model	Sony DepthSense IMX556PLR CMOS	Sony IMX226 CMOS (BSI Starvis)
Framerate	30 FPS @ 0.3 MP (for all operating modes) 10 FPS @ 0.3 MP (for all operating modes using 3000 µs exposure)	9.1 FPS (9.8 FPS) [1] @ 12.2 MP 29.1 FPS with 2×2 sensor binning (Binning used to achieve full Helios2 Wide frame rate)
Power Requirement	18-24 V through GPIO **(PoE is not supported)**	PoE (IEEE 802.3af) or 12-24 V through GPIO
Lens Field of View	108° x 78° (nominal)	
Illumination	4 x VCSEL laser diodes, Class 1, @ 850nm	

Helios2 Ray Chroma Specifications

HTR-RGB-001		
	HTR003S-001	**TRI032S-C**
Sensor Model	Sony DepthSense IMX556PLR CMOS	Sony IMX265 CMOS
Framerate	30 FPS @ 0.3 MP (for all operating modes)	35.4 FPS (38 FPS) @ 3.2 MP [1]
Power Requirement	18-24 V through GPIO (PoE is not supported)	PoE (IEEE 802.3af) or 12-24 V through GPIO
Lens Field of View	67° x 51° (nominal)	
Illumination	4 x VCSEL laser diodes, Class 1, @ 940nm	

[1]Max FPS based on 10% Device Link Throughput Reserve for packet resend. FPS stated in brackets () based on 0% Device Link Throughput Reserve. LUCID recommends 10% reserve for stream reliability.

SHARED PROPERTIES (ALL CHROMA MODELS)	
Digital Interface	1000BASE-T GigE, M12 (8-pin X-coded) (Helios2 and Triton)
GPIO Interface	8 pin M8 connector (Helios2 and Triton)
Chroma Resolution	0.3 MP 640 x 480 px
Dimensions	60 x 60 x 79 mm
Weight	527 g
Ingress Protection	IP67 (For IP67 protection, unit must be used with IP67 cables)

STANDARD AND CERTIFICATIONS (ALL CHROMA MODELS)	
OS Support	Windows and Linux
Software Support	Arena SDK, C++, C, C#, Python
Storage Temperature	-30 to 60°C

For detailed standard and certifications, see the individual camera pages.

PIXEL FORMATS

See the Pixel Formats page for more details: TRI032S-C TRI122S-C HTP003S-001 HLT003S-001 HTW003S-001

IMAGING PROPERTIES

See associated product pages for imaging properties: TRI032S-C TRI122S-C HTP003S-001 HLT003S-001 HTW003S-001

CAMERA FEATURES

See associated product pages for camera features: TRI032S-C TRI122S-C HTP003S-001 HLT003S-001 HTW003S-001