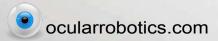
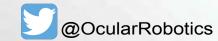


RobotEye Catalog 2015









VISION SYSTEMS 3D LIDAR SCANNERS **RE05** REV25 3D LIDAR Scanner Camera Pointing Vision RE08 REV25-ST 3D LIDAR Scanner Stabilized Vision Package REV60 Camera Pointing Vision NAKED REV60-ST Stabilized Vision Package REN25 RobotEye Unit **HYPERSPECTRAL** REN60 REHS25 RobotEye Unit Hyperspectral Imaging CUSTOM SYSTEMS







Contact us for more information.

Product Name	Product Category	Product Description	Product Features	Applications	Documentati
RobotEye RE05 3D LIDAR	LIDAR	The RobotEye RE05 3D LIDAR is the world's smartest 3D laser scanner, enabling on-the-fly adjustment of the scan region and scan resolution. This light-weight, small and ruggedized laser sensor has an unmatched scanning range of 360° in azimuth and 70° in elevation with the ability to acquire 3D point densities of up to 100 points per degree along each axis. The RE05 can be operated by any networked device independent of its operating system. RE05 software booket enables easy control of the scanner and data acquisition. The RobotEye RE05 has been designed for an array of applications in the fields of robotics, automation, defence and securer, mining, agriculture, and materials handing.	360° scanning range in azimuth 70° scanning range in elevation ability to acquire 3D point densities of up to 100 points per degree along each axis up to 30 kHz measurement rate full field, bounded elevation and rejet on scan modes on-the-fly adjustment of all the above scan parameters on-the-fly adjustment of all the above scan parameters centimates continued accurate very continued accurate to the scan parameters very continued to the sca	autoromous vehicle navigation pipul and high resolution 3D mapping industrial process automation industrial process automation industrial safety security and surveillance as-bull 3D reconstruction	*
RobotEye RE08 3D LIDAR	LIDAR	The RobotEye RE08 3D LIDAR is the world's snarrest long-range 3D laser scanner, enabling on-the-fly adjustment of the scan region and scan recipion and scan region and scan region and scan recipion and scan region and scan recipion and recipion	390° canning range in azimuth 70° scanning range in elevation ability to acquire 30 point densities of up to 200 points per degree along each axis 25 ktz pulse rate with up to 5 returned measurements per pulse in high speed mode 5 ktz pulse rate with up to 5 returned measurements per pulse in high range mode 5 ktz pulse rate with up to 5 returned measurements per pulse in high range mode on the fly adjustment of all the above camp parameter up to 150 m range for natural targets (500 m range for high reflectivity targets) in high range mode up to 100 m range for natural targets (500 m range for high reflectivity targets) in high speed mode oner-centimetre accuracy operation in any physical orientation operation in any physical orientation (NPT class protection	autonomous vehicle navigation inpid and high resolution 3D mapping mobile robotics industrial process automation inine subormation and automation and automation and automation and automation and automation and automation arised automation attention at	
RobotEye REV25 VISION	VISION	The RobolEye REV25 VISION enables the direction of view of the camera to be changed with unmatched speed and precision. RobolEye VISION systems are the only imaging systems that simultaneously deliver ultra-high speed and precision. Nothing is hidden from the eye of the REV25. This small, lightweight and ruggedized vision system has the ability to track extremely first-moving objects, or even track multiple objects simultaneously with a single RobolEye REV25. A single RobotEye REV25 and only has the capability respace multiple cameras with a network, but its unique dynamic capabilities enable instant and desiled struting of any state or mobile larget. RobotEye REV25 has been considered to the respective properties of the respective properties of the respective properties. The respective properties are respectively and surveillance, the events broadcasting, situational awareness, robotics, manufacturing, automation, and emergency response.	- 380° range of motion in eximuth - 70° range of motion in elevation - full control over motion in both azimuth and elevation - full control over motion in both azimuth and elevation - shills to reach (1,000°/s velocity and 100,000°/s² acceleration - on-the-fly adjustment of all imaging parameters including the imaged region and resolution - hardware synchrozization of Robotifye, camera and dosternal events - hardware synchrozization of Robotifye, camera and dosternal events - ability to track multiple targets with a single camera - wide range of camera options - liP65 class protection - operation in any physical orientation	Transportation security rifical infrastructures security control infrastructures security sport broadcasting sport broadcasting light resolution capture of high-speed events and objects of gas-puss panoramic imaging telepresence	2
RobotEye REV60 VISION	VISION	The RobotEye REV60 VISION couples the unmatched dynamic performance and wide range of motion of the REV25 with a wide apenture for applications where time or photons are a sparsity. RobotEye REV60 has similar application areas to the REV25 with particular relevance to the fields of intelligent security and surveillance, defence-in-depth, and border protection.	- 380°: range of motion in azimuth - 70° range of motion in elevation - \$\frac{4}{16}\] control over motion in both azimuth and elevation - \$\frac{4}{16}\] control over motion in both azimuth and elevation - \$\frac{4}{16}\] control over motion in both azimuth and elevation - \$\frac{4}{16}\] control over motion in both azimuth and elevation - \$\text{only to face}\] for a limiting parameters including the imaged region and resolution - \$\text{only to face}\] high-speed targets - \$\text{ability to track high-speed targets} - \$\text{ability to track high-speed targets} - \$ability to track milliple targets with a single camera - \$\text{ability to track milliple targets with a single camera - \$\text{ability to track milliple targets with a single camera - \$\text{ability to track milliple targets with a single camera - \$\text{ability to track milliple targets with a single camera - \$\text{ability to track milliple targets with a single camera - \$\text{ability to track milliple targets with a single camera - \$\text{ability to track milliple targets milliple targets and \$\text{ability to track milliple targets millip	military installation security critical infrastructures security sports broadcastiny 360° slusational swareness high resolution capture of high-speed events and objects seport surveillance	supplied on req
RobotEye REV25-ST VISION STABILIZED	VISION	The Robot-Eye REV25-ST VISION is a 3-axis ultra-high performance stabilized vision system which brings the VISION capabilities of the REV25 to any mobile platform on land, in air and at see. While simultaneously stabilizing, this small, lightweight and ruggedized vision system has the ability to track extremely fast-moving objects, or concurrently track multiple objects from any mobile platform. RobotEye REV25-ST has been designed for mobile platforms in an array of applications in the fields of ISR, aerospace and defense, unmanned systems, and emergency response.	BOO 14x stabilization update frequency stabilization in world coordinate frame 380° range of motion in azimuth 70° range of motion in azimuth 70° range of motion in elevation full control over motion in both azimuth and elevation shilly to reach 10,000°/a velocity and 100,000°/s² acceleration on-the-by adjustment of all imaging parameters including the imaged region and resolution Particures synchronization of Robotibye, camera and exemal events ability to track multiple targets with a single camera wide range of camera options operation in any physical orientation 1966 class protection	I land and marine border protection airborne surveillance 360° battlefield situational awareness emergency response vehicles security whicles submarine situational awareness telegresence	
tobotEye REV60-ST VISION STABILIZED	VISION	The RobotEye REV60-ST VISION is a wide aperture 3-axis ultra-high performance stabilized vision system which brings RobotEye REV60 VISION capabilities to any mobile platform on land, in air and at sea. RobotEye REV60-ST has similar application areas to the REV25-ST with particular relevance to the fields of homeland security, ISR, aerospace and defense, border security, and maritime surveillance.	800 1½ stabilization update frequency stabilization in world coordinate frame stabilization in world coordinate frame 70' range of motion in elevation full control over motion in both azimuth and elevation sability to reach \$.400'/s velocity and \$60,000'/s\circ* acceleration on-the-6/y adjustment of all imaging parameters including the imaged region and resolution hardware synchronization of Robotility, camera and external events ability to track high-speed dargets ability to track high-speed dargets wide range of camera options operation in any physical orientation iP65 class protection	I land and marine border protection I informe surveillance I ports forbaddasting Soft butlefield situational awareness Soft butlefield situational awareness Soft butlefield situational awareness Soft butlefield Soft butle	supplied on req
RobotEye REHS25 HYPERSPECTRAL	HYPERSPECTRAL	The RobotEye REHS25 HYPERSPECTRAL transforms any single point spectrometer into a mapping hyperspectrometer. This hyperspectral imaging system couples the wide field of view and pointing precision of the RobotEye with any commercial off-the-shall single point spectrometer to scholar practic image with high spatial and spectral resolution. Physical separation of the RobotEye REHS25 standard processing and the RobotEye REHS25 has wide optical throughput covering 450-2500 nm and can be mounted on any mobile platform for applications in precision agriculture, oil and gas, forestry management, environmental monitoring, and industrial automation.	400-2500 nm optical throughput 580° range of motion in azimuth 70° range of motion in elevation 10° underly adjustment of all scarc parameters including the imaged region and spatial resolution 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and external events 10° hardware synchronization of Robod'se, spectrometer and externa	earial surveillance and reconnaissance nutrient and water status of crop pollution and emission monitoring identification oil and gas reserves imineral reserve identification airborne remote sensing forest fire monitoring leake detection industrial sorting and classification automated flood processing	*
RobotEye REN25 NAKED	NAKED	The RobotEye REN25 NAKED brings the world's fastest and most precise sensor pointing capability to any sensor payload, including thermal, visible and terahertz cameras, and laser rangefinders. This unit has been designed for OEM integration in the defense and aerospace, security and surveillance, robotics and automation, precision agriculture and virtual reality markets.	360" range of motion in eizeruuth 70" range of motion in elevation ability to reach 10,000"/s velocity and 100,000"/s acceleration on-the-ly adjustment of all RobotEye parameters ability to add any ensorr unit operation in any physical orientation	OEM integration for aercospace and defense security and surveillance precision agriculture vintual reality and telepresence robotics factory automation	2
RobotEye REN60 NAKED	NAKED	The wide aperture PobutEye RENGO NAKED brings the world's fastest and most practice sensor politing capability to any sensor payload, including thermal, visible and terahertz cameras and laser rangelinders. This unit has been designed for OEM integration in applications where time or photons are a sparsity such as defense and serceptors, security and surveillance, customs and border protection.	360° range of motion in azimuth 70° range of motion in elevation ability to reach 3,000° a velocity and 60,000°/s² acceleration on-the-fly adjustment of all RobotEye parameters operation in any physical orientation operation in any physical orientation	OEM integration for • aerospace and defense • security and surveillance • customs and border protection	supplied on red



