



See the Unseen™

NIGHTDRIVER

Raytheon's Night Vision System is the world's first automotive thermal imaging driving aid. The system features an infrared virtual image projected on a Head-Up Display (HUD). This far infrared technology aids nighttime driving visibility so drivers may see road hazards in time to avoid accidents.



SEE UP TO 5 TIMES FARTHER

With night vision, drivers may see up to five times the distance of standard headlights. During nighttime driving, when more than half of all traffic fatalities occur, drivers may gain valuable reaction time when they need it the most.

**Increases
reaction
time up
to 15
seconds!**

**Detects
obstacles
up to 5
times
farther
than
headlights!**

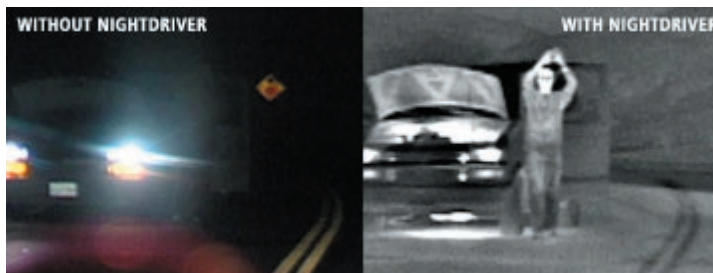
GET A CLEARER VIEW OF THE ROAD AHEAD

The Night Vision system projects a real-time electronic, black and white image on the combiner Head-Up Display in the driver's peripheral view, just below the light of sight. Warm objects such as people, animals, and debris are more easily detected and avoided. From dark residential areas and country roads to city streets and highways, Night Vision can help you see more.



SEE PAST HEADLIGHT GLARE

In addition to its "see in the dark" capability, NIGHTDRIVER is unaffected by ambient light and helps drivers see past oncoming headlight glare.



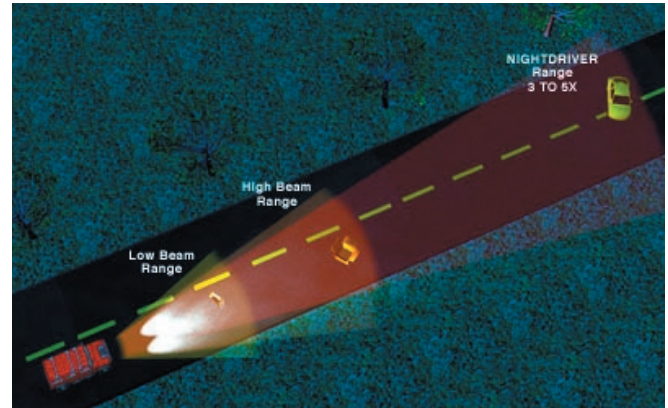
ENHANCES PERSONAL SAFETY

The system allows you to preview the surrounding area before you exit the vehicle.

* Night vision is a driving aid and is not to be used solely for the operation of vehicles on roadways.

HOW IT WORKS

Originally developed for the military, the infrared technology in NIGHTDRIVER has been battle-tested and proven reliable in the most demanding conditions imaginable. NIGHTDRIVER measures the small temperature differences of everything in view. The system converts these temperature differences into an electronic signal, which it displays like a black-and-white TV image. This image appears on a Head-Up Display within the driver's line of sight. Available at a glance but totally unobtrusive, the image location lets drivers use it naturally just like a rearview mirror.



NIGHTDRIVER SPECIFICATIONS		
Focal Plane Array	Type & Material	Uncooled Ferroelectric
	Pixel Count	160x120
	Spectral Response	7-14 um
Thermal Imaging Performance	Start-up Time	~45 seconds
	Contrast/Brightness	Automatic, with advanced image processing features
	Range to Detect a Person	Up to 1500ft (457m)
Optics	Focus Distance	~28 ft (8m) to infinity
	Focus Method	Fixed
	Field of View	Camera (12°x9°) Head-up Display HUD (10°x4°)
Video	Output Format	NTSC Compatible
	IR Polarity	White Hot- Black Cold
Power	Input Voltage	9.5 to 16 VDC
Physical Characteristics	Size	Camera 6.6"W x 6" H x 4.25" D (17 x 15 x 11 cm) HUD (opened) 8.9"W x 4.5" H x 7.0" D (23 x 11 x 18 cm) HUD (closed) 8.9"W x 1.25" H x 7.0" D (23 x 3 x 18 cm)
	Weight	Camera 2 lbs. (0.9kg) HUD 2 lbs. (0.9kg)
	Mounting Provisions	Vehicle mount
Environmental	System Operating Temp	-40°C to 75°C
	Camera Water Resistance	Carwash qualified (not submersible)
	EMC Compliance	FCC Part 15
Ordering Information	Up-fitter Kit	HUMMER H1 Kit
	Includes: Camera, HUD, Wire Harness, Mounting Kits & Manual (requires customization by professional installer)	Includes: Camera, HUD, Wire Harness, Custom Mounting Kits & Manual
	Part number 4973612-1	Part number 3216628-1