

# Invisi-GUARD-2™

## Thru-Beam Photo Eye

Uniquely Designed for the Door and Gate Industries

### Applications

- **Motorized Doors**
- **Motorized Gates**

The Invisi-Guard-2 thru beam photo optic system sends an invisible beam of light from a transmitting unit to a receiving unit. The light beam is intended to function as a protective line guarding a potentially hazardous zone. When the light beam is interrupted by an obstruction, a signal is sent to the motor controls to stop or reverse motion.

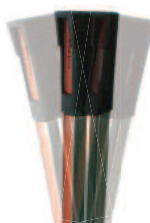
The new contemporary designed IG2 offers a variety of electrical and photo optic configurations available to suit an assortment of applications. The Invisi-guard-2 is suitable for both indoor and outdoor installations.



Emitter and Receiver with Universal Adjustable Mounting Brackets

### OPTIONS:

- ★ Flexible Pedestal Stand
- ★ Rigid Wall Mount Bracket
- ★ Ergonomically designed protective boot cover
- Maximum Range 30 or 50 feet
- Battery powered emitting units



Emitter mounted on Optional Flexible Pedestal Stand with Protective Boot covering



Optional Protective Boot Covering

### FUNCTIONAL BENEFITS:

- ★ **Universal Design Works with Pre and Post 2010 Operators**
- Spans Distances up to 50 feet (model dependent)
- Time Saving Installation
- Vertical or Horizontal Mounting
- Easy Alignment with Positioning Indicators
- ★ **UL325 Compliant for Doors and Gates**
- NEMA 4 enclosure
- ★ **Impact Resistant for rugged environments**
- Easily Replaceable Batteries (no special order)
- Enhanced Sun Guard Protection
- Built in Strain Relief

### SPECIFICATIONS:

Physical		
Dimensions	5"H x 2 3/4"L x 1 5/8"W	
Weight	Emitter Receiver	0.43lbs (Em) 0.49lbs (Rx)
Enclosure Material	Aluminum	
Mounting Method	Wall, Floor or Post	
Alignment Indicator	Yes - Visual Indicator	

Mechanical	
Detection Technology	Infrared Thru-Beam
Operating Temp. Range	-40°F to 185°F -40°C to +85°C
Enclosure Material	Aluminum
Wave Length	940nm
Response Time	<20msec



## TECHNICAL SPECIFICATIONS:

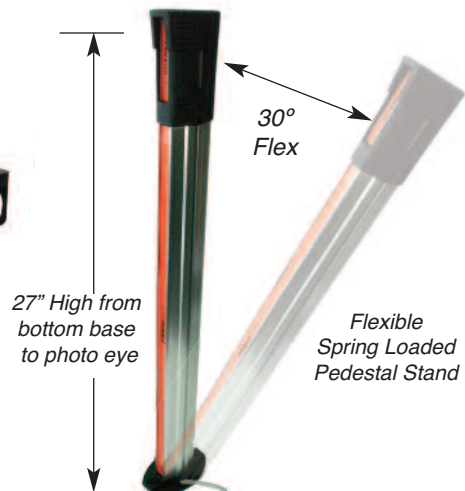
	<b>30Ft. Ext</b> <i>External Powered</i>	<b>50Ft. Ext.</b> <i>External Powered</i>	<b>30Ft. Bat.</b> <i>Battery Powered Emitter</i>	<b>50Ft. Bat.</b> <i>Battery Powered Emitter</i>
Max. Range	30 Ft.	50 Ft.	30 Ft.	50 Ft.
Response Time	<20msec	<20msec	<20msec	<20msec
Alignment Angle	± 10°	± 10°	± 10°	± 10°
Alignment Indicator	Yes - Visual Indicator	Yes - Visual Indicator	Yes - Visual Indicator	Yes - Visual Indicator
Power Supply <b>(Non-Monitored)</b> Emitting (Em) Receiving (Rx)	7-30VAC 8-42VDC (Em & Rx)	7-30VAC 8-42VDC (Em & Rx)	2-AA Lithium 1.5V (Em) 7-30 VAC 8-42VDC (Rx)	2-AA Lithium 3.6V (Em) 7-30 VAC 8-42VDC (Rx)
Current Consumption <b>(Non-Monitored)</b> Emitting (Em) Receiving (Rx) Beam Aligned Beam Mis-Aligned	Em: ~2mA Rx: Beam Aligned: ~10mA Beam Blocked: ~25mA	Em: ~3mA Rx: Beam Aligned: ~10mA Beam Blocked: ~25mA	Em: 350µA Rx: Beam Aligned: ~10mA Beam Blocked: ~25mA	Em: 650µA Rx: Beam Aligned: ~10mA Beam Blocked: ~25mA
Expected Battery Life	n/a	n/a	1 Year	~ 9 Months
Low Battery Indicator	n/a	n/a	Yes - Visual Indicator	Yes - Visual Indicator
Relay Rating <b>(Non-Monitored)</b>	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC	1A @ 24VDC
Certification	UL325	UL325	UL325	UL325
Power Supply <b>(Monitored)</b> Emitting (Em) Receiving (Rx)	6-42VDC with 300-800Ω source resistor (Em & Rx)	6-42VDC with 300-800Ω source resistor (Em & Rx)	2-AA Lithium 1.5V (Em) 6-42VDC with 300-800Ω source resistor (Rx)	2-AA Lithium 3.6V (Em) 6-42VDC with 300-800Ω source resistor (Rx)
Current Consumption <b>(Monitored)</b> Emitting (Em) Receiving (Rx)	Em & Rx Beam Aligned: ~12mA Beam Blocked: ~8mA	Em & Rx Beam Aligned: ~13mA Beam Blocked: ~8mA	Em: 350µA Beam Aligned: ~10mA Beam Blocked: ~6mA	Em: 650µA Beam Aligned: ~10mA Beam Blocked: ~6mA
Indicators Emitting (Em) Receiving (Rx)	Em : Green - Power Rx : Green - Power Red - Fault	Em : Green - Power Rx : Green - Power Red - Fault	Em : Green - Flashing Rx : Green - Power Red - Fault White - Low Battery	Em : Green - Flashing Rx : Green - Power Red - Fault White - Low Battery

### WARRANTY

We will replace within two years of shipment from our factory, any Invisi-Guard-2 subject to normal use which is found to have defective materials or workmanship, as determined solely by our factory representative. Replacements will be shipped to you freight collect. This warranty is void where evidence of misuse or abuse is present.



*IG2 Mounted on Optional Wall  
Mount Bracket  
1 Ft.L x 2" H x 3" W*



IG2\_Spec\_201201212