



GS-403 IRVDC INSTALLATION SHEET

New & Improved Features:

- 1/3" Sony Super HAD* CCD Image Sensor
- 20-Bit Video Signal Processing
- Hi-Resolution 480 TV lines (Max.)
- Hi-Speed 12-LED Infrared Illuminator
- Hi-Impact Vandal Resistant Housing and Dome
- 3-Axis (XYZ) Camera Positioning
- 10°-90° Vertical / 360° Horizontal / 180° Rotation
- 3.7 mm F2.0 Lens
- Outdoor, Weather Proof Housing
- 1/2" Conduit, Side and Rear Ports

Specifications:

TV System	NTSC / PAL
Image Sensor	1/3-inch Sony Super HAD* CCD
CCD Total Pixels	542 (H) × 496(V) / 542(H) × 586(V)
CCD Effective Pixels	512 (H) × 492(V) / 512(H) × 582(V)
Scanning System	525 lines, 60 fields/sec.
Resolution	480 TV lines (Max.)
SYNC System	Internal
Minimum illumination	0 Lux (LED ON) 0.5Lux (LED OFF) 5600 °K
Lens	3.7 mm F2.0
Electronic Shutter	1/60-1/120,000 sec
Signal to Noise Ratio	60dB Typ. / > 52 dB (AGC OFF)
White Balance	Auto high speed white Balance (1 FRAME)
Video Output	1.0Vp-p composite video @ 75 ohm
Gamma Correction	0.45
Gain Control	AGC
Operating Temperature	-20 °C to 50 °C
Operating Humidity	Within 85 % RH
Power Supply	DC 12V / 100 mA (LED OFF) 210 mA (LED ON)
Dimension / Net weight	Φ 4.33" × 3.26" H (110mm x 83mm) / 650g

Specifications are subject to change without notice.

WARNING:

1. Do Not Point Camera Directly Into Sun
2. Use Power Connectors To Extend Power Circuit
3. Observe Correct Voltage and Polarity
4. Failure To Observe Warnings May Void Warranty

ACCESSORIES: This package includes :

- Installation and Instruction sheet
- Power Extention 12" Pigtail w/ Plug (male)
- Power Extention 12" Pigtail w/ Jack (female)
- Mounting Mollys & Screws (4ea), Security Alan Key
- 1/2" Conduit Hole Plug, 1/2" Conduit Entention Adpt.



(a) Ceiling Mounted

(b) Wall Mounted



NOTE: Read All Installation Instructions, Notes and Specifications Prior To Installation.

INFRA-RED: The GS-403 IRVDC Color Camera utilizes 12 High-Speed Long-Life (warranty 90-day) LEDs with an IR Transmission angle of 60° to illuminate an indoor range of up to approximately 16 ft (3.3m). Indoor and outdoor IR illumination range can be less depending on the IR reflection and adsorbent characteristics of objects in the surrounding environment.

CAMERA: This camera utilizes a new 1/3" 20-bit DSP (digital signal processor) chip for exceptional day-time color and night-time IR sensitivity. The video processing system incorporates circuits for:

- > Gama Correction = Improved Color & Light Balance
- > Improved Signal-To-Noise Ratio = Less Low Light Noise
- > Auto High Speed White Balance with Zero Color Rolling
- > Very Low Smaear, 6db average.

HOUSING: Vandal-Resistant Hi-Impact housing. Heavy Metal Base with Security Screw access. Dome cover is G-53 rated High Impact Polycarbonate.

INSTALLATION:

- 1) Housing may be ceiling or wall mounted.
(See Note 5 as a shim may be needed)
- 2) Remove 4-Security Screws, Dome Retaining Ring and Dome Cover and Mask.
- 3) Wire access to housing may be through housing rear conduit port or via 1/2 port and conduit from side or rear of housing. Make sure that all conduit port caps and fittings are secure and water tight. A ring of silicone is advised.
- 4) Mount Housing using 4-screw holes (as required) in housing back.
plate with dab of silicone in each hole.
- 5) Adjust lens for proper AOV (Angle Of View) and focus.
NOTE: because the LEDs are mounted internally around the lens - they will touch the housing base and dome cover - preventing an absolute 0°) horizontal lens position view. The AOV is 10-90° Vertical.
For a ceiling or wall mounting where an absolute horizontal or vertical mounting plane view is required, it may be necessary to slightly "shim" the back under-side of the housing to compensate.
- 6) Make Video-BNC and Power connections inside the housing or in adjacent weather-proof box as installation requires. Use the Power-Pigtail Connectors (provided) to extend the power circuit to the power supply and for easy removal if warranty replacement if necessary.
- 7) Replace the dome cover carefully - making certain that the Lens Hood seats firmly against the dome cover to prevent IR-LED reflection and "shine-through".
* Also...closing in this position may require careful pressure as housing is designed to be small and compact.