

 **ISG**
INFRASYS

K-90 Talisman XL
with DIGITEK II



OPERATING MANUAL

 **WARNING**

Read and understand all instructions prior to using this product. Any tampering and/or disassembly of the thermal imager will void all warranties and could cause equipment damage. Maintenance and/or repairs beyond those described herein shall only be performed by an authorized ISG Service Center. Failure to observe this information could result in death or serious injury.

 **WARNING**

Thermal imaging is not a technology designed to replace current firefighting tactics. Thermal imaging is a tool that allows a trained firefighter to be more effective and make better decisions. Failure to observe this information could result in death or serious injury.

CONTENTS

	PAGE
1. SPECIFICATIONS	8
2. SYSTEM COMPONENTS.....	9
3. CHARGING THE BATTERIES	10
4. OPERATOR CONTROLS	11
5. OPTIONAL ACCESSORIES.....	12
5.1 Digital Direct Temperature (DDT).....	12
5.2 Wireless Transmission	14
5.3 Video Overlay	14
5.4 2X Zoom.....	15
5.5 Fast Attack Truck Mount.....	15
7. CLEANING AND MAINTENANCE	16
8. RETURN AUTHORIZATION (RA)	17
9. WARRANTY	18
10. IMPORTANT EXPORT INFORMATION	20

COMPANY BACKGROUND

For more than ten years, thousands of firefighters in thousands of fire departments all across the country have come to rely on see-through-smoke technology provided by ISG/Infrasys.

ISG/Infrasys is the world leader in design and development of innovative thermal imaging technology for firefighters. ISG/Infrasys is the only manufacturer of firefighting thermal imagers in the country to design and use our own engine technology from the ground-up for use specifically in firefighting environments. As a result, users of ISG/Infrasys imagers enjoy the best image quality and the best high-temperature endurance for use in the harshest and most challenging firefighting environments.

ISG/Infrasys was founded in 1998 as a wholly owned subsidiary of UK based ISG Thermal Systems Ltd. Today, ISG/Infrasys is an independent company based in suburban Atlanta, GA. ISG/Infrasys is one of the largest providers of firefighting thermal imaging products in the world.

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WARNING

Users of thermal imagers, regardless of brand or type, are required to read the operation manual prior to using.

The ISG K-90 TalismanXL Thermal Imaging System is not life support equipment and should not be used as such. Thermal imaging is not a technology designed to replace current firefighting tactics. Rather, it is a tool that will allow the firefighter to be more effective and make better decisions. Never use the K-90 TalismanXL Thermal Imaging System as the sole source of navigation.

1. All users must be thoroughly trained with the K-90 TalismanXL's proper operation and limitations prior to use. This includes general understanding of thermal images and how they are interpreted. Improper use of the equipment in a hazardous atmosphere could result in death or serious injury.
2. The K-90 TalismanXL Thermal Imaging System must only be used by personnel trained on the usage and limitations of the System. That includes usage in simulated fire conditions such as controlled live burn situations. Usage of the K-90 TalismanXL Thermal Imaging System by unauthorized, unfamiliar or untrained users may result in death or serious injury.
3. The K-90 TalismanXL Thermal Imaging System is complex electro-optical equipment and just like any other machinery, electronic systems are subject to potential failures. If a failure occurs, the user will no longer have access to the special thermal images provided by the K-90 TalismanXL System. Tactical usage of this equipment must not deviate from standard operating procedures used by personnel who do not have the benefit of the equipment.
4. Failure to follow standard operating procedures in a hazardous atmosphere could result in death, serious injury or disorientation should an equipment failure occur.
5. The K-90 TalismanXL Thermal Imaging System must be serviced only by authorized personnel. The K-90 TalismanXL includes high voltage components. Removing the cover causes a potential shock hazard. Never remove the cover.
6. The K-90 TalismanXL Thermal Imager will not provide images through glass, water, or shiny objects. These surfaces act like mirrors to the system. The K-90 TalismanXL will only interpret the surface temperature of these objects.
7. The K-90 TalismanXL Thermal Imaging System will not provide thermal images underwater. The K-90 TalismanXL will only interpret the surface temperature of the water.
8. Users should be conscious of the battery life at all times. Only enter a hazardous environment when a full battery charge is indicated on the battery charge indicator.
9. The K-90 Talisman Thermal Imaging Systems is not rated as "Intrinsically Safe." Do not use the system in environments or atmospheres where static or a spark will cause explosion.


WARNING

10. Repeated exposure to high temperature environments without adequate periods for the unit to self cool may result in degradation, loss of the thermal image or damage to the internal components. Be sure to allow adequate cool-down periods between high temperature exposures.
11. Exposure to high temperature environments for an extended period of time may result in degradation or loss of the thermal image. Be sure not to overexpose or heat saturate the equipment beyond the design tolerances of the system.
12. The service life of the K-90 TalismanXL depends in part on how it is used and the environmental conditions in which it is used. Under heavy usage, or under extreme environmental conditions, the service life of the equipment may vary.
13. Batteries supplied with the K-90 TalismanXL have been selected based on specific performance values. Replacement batteries must be obtained ONLY from an Authorized ISG Service Center.
14. The K-90 TalismanXL incorporates special automatic electric temperature control systems. Run time on each battery may decrease slightly when used in cold temperature environments.

It is important to often test the equipment to ensure that equipment is functional before entering a hostile environment. Always perform a visual check on the equipment to validate that it has not been damaged or degraded prior to use.
15. Never use the K-90 TalismanXL as the sole source of navigation. If system failure occurs, you may become disoriented or lost in a hostile environment which could result in death or serious injury.
16. Failure to exit a hostile environment immediately on observation of the low battery warning may result in system failure in a hostile environment which could result in death or serious injury.
17. The K-90 TalismanXL provides a thermal image in normal vision impairing conditions. The user could become distracted from safety precautions and protocols, leaving a partner or the communications range of the incident command structure which could result in death or serious injury.
18. While every effort has been made to ensure that your K-90 TalismanXL is both tough and reliable, the camera is a sophisticated electro-optical system that will fail if it is abused or exposed to environments beyond its design envelope.

Failure to observe these warnings could result in death or serious injury.

1. SPECIFICATIONS

Physical Characteristics

Weight (nominal):	4.1lbs
Dimensions:	4.5" x 11.4" (including visor)
Shell Material:	GRP
Color:	Yellow
Handstrap Material:	Kevlar

Infrared Characteristics

Detector:	Barium Strontium Titanate (BST) Solid State
Spectral Response:	8µm to 14µm
Thermoelectric Cooler	Sensor Solid State Thermoelectric Processor, Auxiliary Blower, Chassis heat dissipater
Dynamic Range:	Automatic, variable, Dynamic Range Control
Focus Range:	Automatic, 1.0m to infinity
IR Protection Window:	Yes
Sensitivity:	50mK (nominal)
Field of View:	59°

Electrical Characteristics

Video Standard:	NTSC, (American TV Standard Compatible)
Controls:	Power On/Off Transmitter On/Off (if fitted) Video Overlay (if fitted) 2X Zoom (if fitted)
Image Optimization:	Automatic, No operator adjustment required
Sleep Mode:	Not Required
Video Output:	1.0 V, Terminated into 75 Ohms, BNC
Start Up Time:	<60 Seconds (30 sec. typical)
Battery Technology:	Rechargeable NiMH
Recharge Cycles:	1000+

Display Characteristics

Technology:	Flat Screen (CRT)
Size (Diagonal):	3.5" (90mm)
Resolution (pixels):	320 x 240

Operational Characteristics

Operating Time:	NiMH - 4.85 Hours (nominal) AA Alkaline - 3.05 Hours (nominal)
Sub-zero Start Up:	Yes
Operating Temperature:	5°F to ~840°F (- 15°C to ~450°C)
Water Resistance:	IP 67, 3' 3" (1.0m) depth
Contaminant Resistant:	Yes

2. SYSTEM COMPONENTS

Your K-90 TalismanXL comes complete with the following:

- 1 K-90 TalismanXL Thermal Imaging Camera
- 2 Hard Shell Carrying Case
- 3 Battery Charger with Power Supply and car cord
- 4 NiMH Batteries (2)
- 5 AA Battery Adapter
- 6 Pistol Grip Handle
- 7 Lanyard
- 8 CD with Operating Manual in PDF format

In the event that any of the above items are not supplied, please contact ISG.



3. CHARGING THE BATTERIES

Note: For first time use, allow new batteries to remain in the charger for approximately 14-16 hours after the GREEN LED stops flashing.

1. Plug the AC adapter into a 110V AC wall outlet.
2. Insert the 2.1mm plug into the charger base. The charger will be in standby mode and the RED LED will flash.
3. Align the battery with the battery receptacle as illustrated. Firmly insert the battery into the charger. The GREEN LED will flash indicating the battery is charging.



Note: If the RED LED continues to flash with the battery installed in the charger, this is an indication that either the battery is not making connection or that the battery is not capable of holding an adequate charge to operate the camera for any length of time.

ISG batteries and chargers have a 90 day warranty. In the event that the batteries are not charging, call ISG immediately.

4. When the battery is fully charged, the GREEN LED will stay illuminated indicating that the battery is charged and is in maintenance mode.

Note: Do not expose the charger to water.

Do not place charger near any combustible materials while charging batteries.

Charge batteries in a well ventilated area.

Batteries supplied with the K-90 TalismanXL have been selected based on specific performance values. Replacement batteries must be obtained ONLY from an Authorized ISG Service Center.

3.1 Inserting the Battery into the Camera

1. Locate the battery compartment on the bottom base of the camera. Release the battery lock by pushing the latch lock up and forward (toward the lens).
2. Place the battery inside the battery compartment so that the metal side mates with the camera's contact points.
3. Close the battery compartment cover. Lock the cover by pushing the latch back (towards the back end of the camera), then down (applying pressure) to seal the battery compartment.



CAUTION

NEVER allow battery terminals to short together. This will cause battery failure. Store in Pelican case with contact plate facing down. (Don't place batteries in pocket with keys/coins or loose in a bag, etc.)

Failure to observe these instructions may result in minor or moderate injury and/or equipment damage.

3.2 AA Battery Adapter

The K-90 TalismanXL also comes equipped with one AA battery adapter. The adapter uses 10 standard alkaline AA batteries. The adapter should be considered a backup for the rechargeable batteries.

1. To open, push one end of the adapter in **as shown**.
2. Insert the AA batteries into the clip. Make sure the polarity is correct.

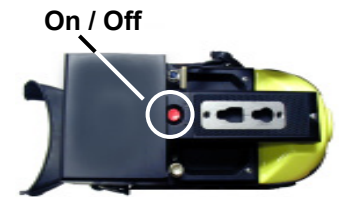


Note: Use ONLY brand new, high quality, AA alkaline cells.

4. OPERATOR CONTROLS

4.1 Switching the Unit On/Off

1. To turn the thermal imager on, press the red button on the bottom of the camera.
2. The GREEN LED indicator light on the viewing screen will illuminate.
3. In approximately 15 to 30 seconds (up to 60 seconds in very cold weather) the infrared sensor will activate.
4. To turn the thermal imager off, press the red button on the bottom of the camera.



4.2 Low Battery Indicator

The K-90 TalismanXL is equipped with an on-screen battery level indicator in the form of 10 vertical bars that appear next to the word "battery" on-screen. The bars disappear as you use up battery capacity. The words "Low Battery" appear on the screen when there are 3 bars remaining.



4.3 Using the Handstraps

The ISG K-90 TalismanXL thermal imager is equipped with two easy to use and adjustable handstraps on either side of the camera that fits firefighting gloves. The handstraps promote a secure grip on the camera.

1. To adjust, loosen the buckle on the handstrap to give it enough room to slide your hand between the handstrap and the camera. Take care not to over loosen the side straps to the extent that they offer no support.
2. Slide your hand through the strap so that your fingers grab the side of the case.



4.4 Attaching the Pistol Grip Handle

All K-90 TalismanXL thermal imagers are also equipped with a detachable quick connect pistol grip handle.

1. To install the pistol grip, match the two attachment ports on the camera with the male side of the attachments on the pistol grip. Slide the pistol grip into place. You should hear and feel the pistol grip lock in. **IMPORTANT: DO NOT** use the pistol grip unless you've determined you have positively locked it in place.
2. To unlatch the pistol grip, unlock the positive mechanism by pushing the lock tab and slide the pistol grip toward the front of the camera.



NOTE: The pistol grip slides in either way to give the user reversible options on how to orient the pistol grip.

5. OPTIONAL ACCESSORIES

1. Digital Direct Temperature Measurement (DDT)
2. Wireless Transmission
3. Video Overlay
4. 2X Zoom
5. Fast Attack Truck Mount



5.1 Digital Direct Temperature Measurement (DDT)

DDT is a non-contact temperature measurement feature that allows firefighters to determine the surface temperature of objects from a remote location.

If installed, DDT is operational at all times and cannot be switched **Off** or **On**. When DDT is installed, the internal viewfinder will be equipped with crosshairs in the center of the screen. To measure the temperature of an object, it must be placed inside the crosshairs.

The accuracy of the relative temperature is affected by many factors, including the “emissivity” of the object. An object’s emissivity is its ability to either absorb or reflect heat energy. The better the characteristic to absorb heat (the higher the emissive value), generally the more accurate the temperature reading.

Emissivity and its Effects on DDT

The DDT installed in the K-90 TalismanXL assumes an emissivity of 0.95. That is, for objects with emissivity of 0.95, the DDT will return temperature readings with maximum accuracy. The value of .95 was chosen because most objects found in normal, traditional structural firefighting environments will have an emissivity value close to 0.95. This will give the firefighter the most accurate average temperature possible, under these conditions.

The cross-tabulation in the tables following will give the user a general idea of the effective (real) temperature versus the observed temperature, given varying emissivity levels. The higher the material’s emissivity, the more accurate the DDT reading will be.

WARNING

When looking at shiny objects such as chrome, unpainted aluminum, unpainted stainless steel, and other metals, the DDT temperature readings can be significantly distorted. It should be noted that when viewing a fire scene, DDT is measuring the temperature of an object and NOT the air temperature. Failure to observe this warning could result in death or serious injury.

ACTUAL VS. DISPLAYED TEMPERATURES FOR DIFFERING EMISSIVITY

		Temperature of Surrounding, deg C 20															
Displayed Temperature, deg C																	
		0	20	40	60	80	100	150	200	250	300	350	400	450	500		
0.1	20	138	209	267	317	428	529	624	717	809	899	989	1078				
0.2	20	93	146	190	231	321	404	484	561	638	713	789	863				
0.3	-72	20	74	116	154	188	268	341	413	482	551	619	687	755			
0.4	-38	20	62	99	131	162	234	301	367	431	495	558	621	684			
0.5	-23	20	55	87	116	144	209	272	334	394	454	514	573	632			
0.6	-14	20	50	78	104	130	191	250	308	366	423	479	536	592			
0.7	-8	20	46	71	96	119	176	233	288	343	397	452	506	560			
0.8	-4	20	43	66	88	110	165	218	271	324	376	429	481	533			
0.9	-1	20	41	62	83	103	154	206	256	307	358	409	460	510			
1	1	20	39	58	78	97	146	195	244	293	342	392	441	490			

Typical Emissivity Values

MATERIAL (METAL)	EMISSIVITY	MATERIAL (NON-METAL)	EMISSIVITY
Aluminum		Asbestos	0.95
Un-oxidized	0.02 – 0.1	Asphalt	0.95
Oxidized	0.2 – 0.4	Brick	0.90 – 0.98
Roughened	0.1 – 0.3	Ceramic	0.95
Brass		Clay	0.95
Burnished	0.3	Concrete	0.95
Oxidized	0.5	Cloth	0.95
Copper		Glass (plate)	0.85
Polished	0.03	Gravel	0.95
Roughened	0.05 – 0.1	Ice	0.98
Oxidized	0.4 – 0.8	Limestone	0.98
Iron		Paint	0.90 – 0.99
Un-oxidized	0.05 – 0.2	Paper	0.95
Oxidized	0.5 – 0.95	Plastics (opaque)	0.95
Rusted	0.5 – 0.7	Rubber	0.95
Steel		Sand	0.90
Cold-rolled	0.7 – 0.9	Snow	0.90
Ground sheet	0.4 – 0.6	Soil	0.90 – 0.98
Polished	0.1	Skin (human)	0.95 – 0.98
Oxidized	0.7 – 0.9	Water	0.93
Stainless	0.1 – 0.8	Wood (natural)	0.90 – 0.95

5.2 Wireless Transmission

If fitted, the Video Transmitter is always **Off** following Power Up. To switch the Transmitter **On**, press and hold the BLACK Power button until the TX Active Symbol appears on the Display. Immediately release the button. To switch the Transmitter Off, press and hold the BLACK Power button until the TX Active symbol disappears.



Connecting the Receiver to a Monitor

1. Plug the AC wall adapter or the 12 volt car cord into the receiver.
2. Connect one end of the 10 ft. antenna cable to the antenna, the other end to the receiver. The ends have different connector types and are not interchangeable.
3. Connect the supplied video cable to the receiver (BNC jack) and the video monitor (TV). Be sure the video cable's RCA connector is fitted to the "Video IN" jack of the monitor.
4. Plug the AC wall adapter into a suitable 120VAC wall outlet, or plug the 12 volt car cord into a 12 Volt DC accessory jack (cigarette lighter). The red LED should illuminate indicating power on.
5. The video monitor should have the proper input selected. IT WILL NOT BE CHANNEL 3 or 4, etc. Typically it is Line, Line In, Aux, L1, R1, etc.
6. Power up thermal imager and activate the video transmitter. Select the proper channel on the receiver and video should be displayed.



NOTE: The video monitor typically used is a small TV or TV/VCR combination. The unit must have an RCA type "Video IN" connector. **It is not possible to adapt to and use the "Cable" or "Antenna" input connector.**

5.3 Video Overlay

The Video Overlay system is an optional feature that allows firefighters to obtain a standard video image of the scene, superimposed on the thermal image. When a K-90 TalismanXL camera is equipped with Video Overlay, there will be a button on the top of the camera. Press the button to activate the Video Overlay. The effect is a combination of a Thermal Image and a Video Image display of the scene. Press the button again to deactivate Video Overlay. Video Overlay can be purchased and retrofitted to K-90 TalismanXL cameras at any time. Call ISG to schedule a factory upgrade.

Video Overlay OFF



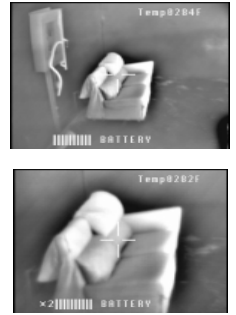
Video Overlay ON

5.4 2X Zoom



The Digital Zoom capability allows the scene information to be brought closer to the viewer more quickly from a safe distance. This optional feature can be used when evaluating warehouses, long hallways, attics, large structure size-up, search and rescue, RIT recovery, and hazmat.

If you are looking at the camera's viewing screen, the 2X Zoom button is located on the right side. To activate and deactivate, depress the 2X button one time.



5.5 Fast Attack Truck Mount

When not in use, store the K-90 TalismanXL Imager (and charger) in its carrying case or the Fast Attack Truck Mount (FA). The FA can be mounted vertically or horizontally for ready access. This unit will not charge the battery internal to the camera. It will, however, hold a battery charger and spare battery in the Auxiliary Battery Holder (ABH).



Auxiliary Battery Holder

The ABH is designed to be attached to the tall rear wall of the main body of the FA assembly as shown. ALWAYS POSITION THE BOLTS SO THAT THE HEAD OF THE BOLT FACES THE CAMERA.

After attaching the Velcro tabs provided, place the battery charger into the ABH. See CHARGING BATTERIES for more information.-

Connecting Power

The K90 Battery Charger was designed to operate with standard 12 volt automobile current. Attach the positive RED wire on the power cable to 12 volt DC + POSITIVE and the BLACK wire to 12 volt DC – NEGATIVE (GROUND). There is a 4 amp AGC fuse protecting the power circuit. The charger is in standby mode when the RED LED is flashing.

ALWAYS SECURE THE BATTERY IN PLACE BY USING THE ELASTIC STRAP PROVIDED. The elastic strap is designed to hold the battery and spare charger securely in the event of a vehicular roll-over, and should be replaced if it loses its elasticity. This strap will also keep the battery from moving while the vehicle is in motion, thereby causing the charger to constantly re-initialize.

6. CLEANING AND MAINTENANCE

Following use, the K90 TalismanXL should ALWAYS be cleaned and inspected for damage.

1. Inspect all lenses for soot / dirt buildup. Clean if necessary.
2. Normal "intended use" scratches on the high efficiency aspheric lens do not degrade picture quality, however chips may affect lens transmission. Inspect IR lenses for chips.
3. Inspect the unit for structural, heat, and/or chemical damage.
4. Inspect all battery contacts for damage.
5. Inspect battery charger.
6. Inspect all batteries and battery adapters for damage or leakage.
7. Check all switches including the battery charger for proper indication that systems are running correctly.
8. Inspect battery charger contact points for corrosion or damage.
9. Make sure battery charger is charging.
10. Inspect all lenses for heat or chemical damage, cracks and breaks.
11. Inspect the mechanical hardware to make sure no screws have loosened or are missing.
12. Store your Thermal Imager in the optional Fast Attack or in the delivery case provided.
13. The thermal imager should be cleaned using warm soapy water and nonabrasive cleaners. Allow the thermal imager to completely dry before replacing in its carrying case. **Note: Avoid solvents and abrasive cleaners.**
14. It is recommended that the display is treated with anti-fog solutions as used on SCBA/BA facemasks.
15. To ensure long service life, it is recommended that the thermal imager and its accessories are stored in temperate environment (58°F - 95°F, moderate humidity) at all times.



WARNING

Failure to follow these instructions could result in death, serious injury and/or equipment damage.



WARNING

In the event that damage is detected (ie. cracked or broken window or housing), the imager should be IMMEDIATELY withdrawn from service and returned to an authorized service center for repair. Failure to observe this warning could result in death or serious injury.

7. RETURN AUTHORIZATION (RA)

Should any ISG / INFRASYS Thermal Imager or Fast Attack ever need repair, see instructions below.

Note: Prior to returning the thermal imager, the device should be fully decontaminated. ISG / INFRASYS reserves the right to send the unit back to the user for decontamination.

1. First, locate the **SERIAL NUMBER (SN)**. Camera SNs are located inside the battery compartment. Fast Attack SNs are located on the bottom of the unit. Keep these numbers available on file should the imager be in use.
2. Call ISG / INFRASYS to obtain an **RETURN AUTHORIZATION NUMBER** (877) SEE-FIRE or (678) 442-1234.

Please have all of the following information readily available when calling:

- The unit's Serial Number (i.e.. K1K- ; FA -)
- Department name
- Primary contact person
- Best available contact (cell or email)
- Physical shipping address (all cameras are shipped and tracked via FedEx)
- Detailed description of problem

When shipping a product back to ISG / INFRASYS, if possible, place it inside its original shipping container. Be sure it is sealed appropriately. It is recommended that all accessories (batteries, charger) are returned as well for inspection.

Clearly mark the container with the RA Number on the OUTSIDE for proper processing.

Ship directly to ISG / INFRASYS, the Authorized Repair Center:

ISG / INFRASYS
305 Petty Road, Ste B
Lawrenceville, GA 30043

Note: ISG / INFRASYS will not be responsible for damages or losses incurred during shipping.

16. WARRANTY INFORMATION

ISG / INFRASYS warrants the K-90 TalismanXL thermal imager to the original owner to be free of defects in material and workmanship under intended use and service for one year from the date of purchase. ISG's obligation under this warranty is limited to the replacement or repair, at ISG's option, of articles if returned to ISG in Georgia, or an authorized distributor, with shipping charges prepaid by the owner, and which, upon inspection by ISG, shall prove to have been defective in normal, "intended use" and service. Maintenance and field replaceable items (batteries, battery chargers, AC/DC adaptors, straps, display covers and all accessories), if defective, are covered under warranty for a ninety (90) day period.

This warranty does not apply to equipment malfunction or damage resulting from accident, alteration, misuse, or non-intended abuse of the equipment including, but not limited to, power surges, over exposure to heat, defective power supply, abnormal wear and tear or other perils outside the design tolerances of the system. In addition, this warranty does not apply to elastomer or rubber components since they can be adversely affected by undue exposure to heat, sun, water, ozone, or other deteriorative elements. The decision as to what constitutes normal use shall be made solely by ISG.

To maintain this warranty, the purchaser must perform maintenance and inspections as prescribed in the operation and maintenance manual which shall include prompt replacement or repair of defective parts.

This warranty is expressed in lieu of all other warranties, expressed or implied, and all other obligations and liabilities on ISG's part. ISG neither assumes nor authorizes any other firm or person to assume on ISG's behalf any liability in any way connected to the sale of ISG Products.

PLEASE RETURN THE BOTTOM PORTION OF THIS PAGE VIA MAIL, OR FAX TO:

WARRANTY SHEET FOR ISG K-90 TALISMAN XL
ISG / INFRASYS, 305 Petty Road, Ste B, Lawrenceville, GA 30043
Fax Number (678) 442-1295

SERIAL NUMBER: _____

DEPARTMENT NAME: _____

CONTACT NAME: _____

PHYSICAL ADDRESS: _____

CITY / STATE / ZIP: _____

PHONE: (_____) _____

ALTERNATE PHONE: (_____) _____

FAX: (_____) _____

IMPORTANT EXPORT INFORMATION

This infrared camera is considered dual-use military equipment and is export controlled under DOC CCL 6a003.

It is a criminal act to export this camera and any of its components thereof outside the United States without obtaining an approved export license from the US DOC, DOD or DOS.

If you wish to export these items, please notify ISG / INFRASYS who will assist you in obtaining the proper export documentation.

NOTES

All Rights Reserved

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Issue 10A