HT-72461HR

540 Line Color Dome Camera Intensifier Series Wall & Ceiling Mountable



speco technologies

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Amityville, NY 11701
631-957-8700
www.specotech.com

Please read this manual thoroughly before operation and keep it handy for further reference.



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION: To prevent electric shock and risk of fire hazards:

Do NOT use power sources other than that specified.

This installation should be made by a qualified service person and should conform to all local codes.



Package Contents	 3
Precautions	 4
Camera Installation	 5~6
Internal Components	 7
Features	 9~10

Operating Your Camera	11~12
* SET UP * SET UP LENS * SHUTTER SPEED CONTROL * BACK LIGHT * AUTO GAIN (AGC) * WHITE BALANCE * REDUCE NOISE * INTENSIFIER * CAMERA TITLE * COLOR/SYNC * MOTION DETECTION * PRIVACY * REVERSE * DETAIL	1415~182021~22232427~2827~2829~303133
Troubleshooting	35~36
Specifications / Dimensions	37~38
Warranty	39

PACKAGE CONTENTS

Please make sure that the following items are included in the package:

- 1 HT-7246IHR Camera
- **4 Mounting Screws**
- 1 Chameleon Dome Cover

Please leave this manual with the end-user for future reference.

PRECAUTIONS

- THIS DOME CAMERA SHOULD BE ONLY INSTALLED BY QUALIFIED PERSONNEL
- TO PREVENT A FIRE OR ELECTRICAL HAZARD PLEASE USE PROER POWER CABLE THE DOME COVER SHOULD BE TREATED WITH CARE
- DO NOT CELAN THE COVER WITH AN ABRAISIVE CLEANING MATERIAL PLEASE USE A SOFT CLOTH OR TISSUE TO CLEAN THE DOME COVER
- THERE ARE NO USER-SERVIEABLE PARTS INSIDE.
 PLEASE DO NOT DISASSEMBLE THIS CAMERA OTHER
 THAN TO MAKE INITIAL ADJUSTMENTS.
- PLEASE USE A UL APPROVED REGULATED 24 VOLT AC OR 12 VOLT DC POWER SUPPLY
- PLEASE USE APPROPRIATE LOW VOLTAGE POWER CABLE TO PREVENT FIRE OR ELECTRICAL SHOCK.
- PLEASE INSURE THAT YOUR INSTALLATION AREA CAN SUPPORT THE WEIGHT OF THE CAMERA.
- PLEASE HANDLE THIS CAMERA CAREFULLY:
 - DON'T USE A STRONG OR ABRASIVE DETERGENT WHEN CLEANING THE CAMERA.
 - DON'T EXPOSE THE CAMERA TO DIRECT SUN





CHAMELEON DOME INSTALLATION

Connections:

1. When using 12-Volts DC (constant voltage 600mA)-CONNECT POWER TO THE POWER JACK.



2. When using 24-Volts AC (40 VA)

-CONNECT ACCESSORY CABLE TO THE POWER JACK AND CONNECT 24V AC TO THE LEAD.

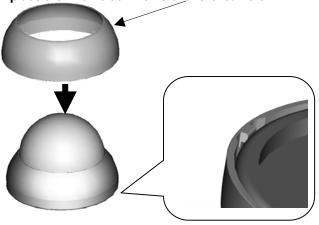


3. CONNECT VIDEO CABLE

-CONNECT BNC CABLE TO THE BNC JACK.

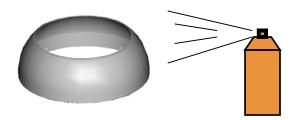


4. If you wish to change the color of the HT-7246IHR, place the Chameleon Dome over the camera



Place the Chameleon Dome over the HT-7246IHR and push until It snaps into position.

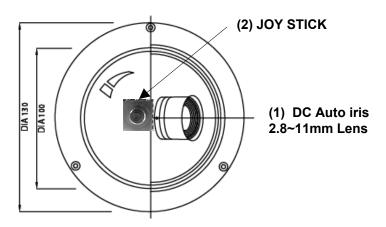
- Notes : Optional painting before installation
- * Painting method for the Chameleon Dome



- * Spray the color of your choice onto the Chameleon cover
- * If necessary, apply a second coat



1. Mechanical



(1) DC AUTO-IRIS LENS

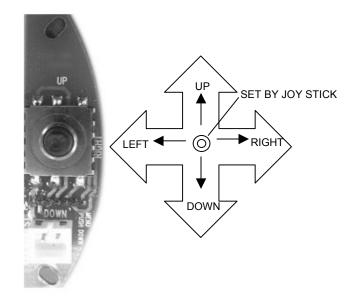
Adjust between $T \leftarrow \rightarrow W$ (TELE $\leftarrow \rightarrow WIDE$) to set the angle (focal length) Set the focus by adjusting $\infty \leftarrow \rightarrow N$

NOTE: BOTH OF THE ABOVE ADJUSTMENTS GET LOCKED INTO POSITION THROUGH THE USE OF "LOCKING HANDLES".

(2) JOY STICK

TO SET THE OSD (ON SCREEN DISPLAY), PRESS THE JOY STICK FOR ONE SECOND AND SET AS DESCRIBED IN THE MANUAL

2. Joy Stick





♣ SLC

When the image is in front of strong background lighting, your camera allows you to get a properly balanced image.

♣ INTENSIFIER

1/3 inch high density CCD and digital processor permit high quality pictures to be captured in very low light conditions.

♣ High Resolution

Horizontal resolution of 540 TV lines is achieved by using a SONY Double Speed CCD with 410,000 pixels, yielding pictures with a high S/N ratio.

♣ Motion Detection

Built in motion detector with adjustable areas of coverage will flash a warning on the screen when motion is detected.

♣ OSD (ON SCREEN DISPLAY)

All camera functions are menu driven for easy use.

♣ Dynamic Noise Reduction

The Intensifier camera has a DSP chip that can remove image noise efficiently showing clean images in low light conditions.

♣ ELECTRONIC DAY / NIGHT

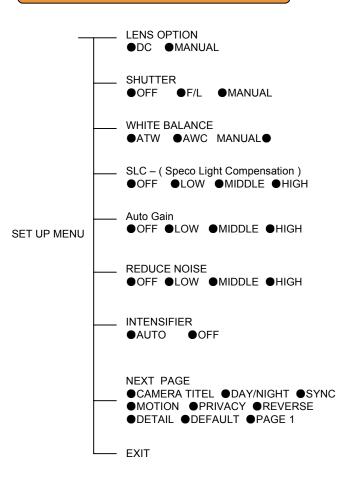
The Intensifier camera can show color pictures in all lighting conditions, or you can have it automatically switch to a B/W picture in low light conditions

MANUAL / AUTO IRIS LENS

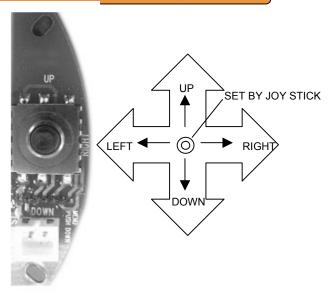
The Intensifier camera will work with auto iris, manual iris and fixed iris lenses.



♦OSD Function



◆OSD Menu Setting



Push the Joy stick for one second, and the OSD appears on the screen. Move the Joy Stick up, down, left & right to control the OSD functions.

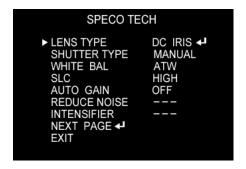


Operating your camera - SET UP

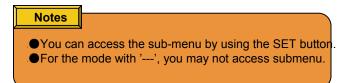


Operating your camera - LENS

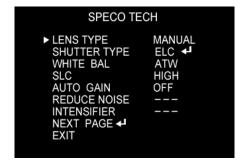
- 1. Press the SET button (JOYSTICK) to access the SETUP mode.
 - •SETUP menu is displayed on the monitor screen.

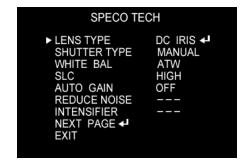


- 2. Select the desired feature using the UP or DOWN button.
- ●Each time you press the UP or DOWN button, the arrow indicator moves up or down.
- Move the arrow indicator to the desired feature item.
- Change the status of the selected feature using the LEFT or RIGHT button.
- 4. When completed, move the arrow indicator to 'EXIT' and press the SET button.

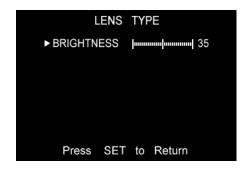


- 1) Setting up the LENS Select the lens pressing the RIGHT button.
- ① On the SETUP menu screen, move the arrow indicator to the lens using the UP or DOWN button.
- ② Select the desired feature using the LEFT or RIGHT button.





Operating your camera - SHUTTER SPEED CONTROL®



► When DC LENS is selected, press the SET button To control the BRIGHTNESS.

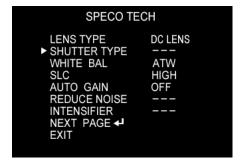


2) Shutter status and speed control

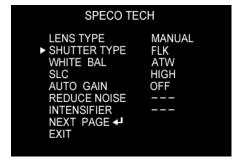
You can control brightness of the screen by the shutter speed.

- ① Press the SET button to display the setup menu and move the arrow indicator to 'SHUTTER' using the UP or DOWN button.
- ② Set 'SHUTTER' to the desired mode using the LEFT or RIGHT button.

▶ OFF : Deactivation



► FLK (1/100): Flicker mode





Operating your camera - SHUTTER SPEED CONTROL 2

► MANUAL: When setting the shutter speed manually, You can select a speed from '1/60' to '1/200,000'sec

SPECO TECH

LENS TYPE MANUAL

SHUTTER TYPE MANUAL

WHITE BAL ATW

SLC HIGH

AUTO GAIN OFF

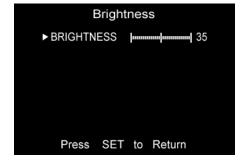
REDUCE NOISE --INTENSIFIER --NEXT PAGE
EXIT

SHUTTER TYPE
► MANUAL 1/60

Press SET to Return

▶ ELC : You can control the BRIGHTNESS.





③ When completed, press 'SET'

Notes

- Avoid pointing the camera directly at a fluorescent lamp.
- When the SHUTTER menu is set to FLK mode, the INTENSIFIER will not work.



Operating your camera - BACKLIGHT

- 3) SLC (Speco Light Compensation) BLC/WDR A built-in SR chip provides intelligent light level control to overcome severe Backlight conditions.
- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'SLC' using the UP or DOWN button.
- ② SET 'SLC' to the desired mode using the LEFT or RIGHT buttons.







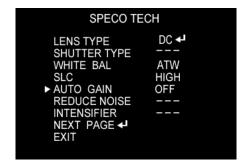


4) AUTO GAIN (AGC)

AGC allows a brighter picture in low light conditions. Higher GAIN level will yield a brighter screen, but you might notice an increase in noise.

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'AGC' using the UP or DOWN button.
- ② SET 'AUTO GAIN' to the desired mode using the LEFT or RIGHT button.







Operating your camera - WHITE BALANCE

5) WHITE BALANCE

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'WHITE BALANCE' using the UP or DOWN button.
- ② Set 'WHITE BAL.' to the desired mode using LEFT or RIGHT button.



Notes

best color.

 Proper White Balance may not be obtained under the following conditions. In these cases select the AWC mode.

► MANUAL : To fine adjust, select the Manual mode. You can increase or decrease the red or blue factor while monitoring the difference on

the screen. Set to 'MANUAL' mode and press the SET button. Increase

or decrease the value for RED(R-Gain) and BLUE(B-Gain), watching

the color of the picture, and press the SET button when you obtain the

- -When the scene contains mostly a high color temperature object, such as a blue sky or sunset.
- -When the scene is dim.
- -If your camera faces a fluorescent lamp directly or is installed in an area with constantly changing illumination.

- ► ATW (Auto Tracking White Balance)
- : When color temperature is 2400~12000K, select this mode. (ex. A fluorescent lamp, outdoor). This is the best setting for most conditions
- ► AWC (Auto White Balance Control)
- : The white balance is automatically adjusted for a specific environment. In order to obtain the best result, press the set button while the camera focuses on white paper. If the environment including the light source is changed, you have to adjust the white balance again.

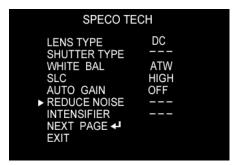


Operating your camera - INTENSIFIER



Operating your camera - INTENSIFIER

- 6) REDUCE NOISE (Dynamic Noise Reduction)
 DNR reduces the video noise on the screen.
- ① Press the SET button to display the SETUP menu and move the arrow to 'REDUCE NOISE' using the UP or DOWN button.
- ② SET 'REDUCE NOISE' to the desired mode using the LEFT or RIGHT button.



▶ OFF : Deactivation

► LOW : Low reduction of the noise

▶ MIDDLE : Middle reduction of the noise

▶ HIGH : High reduction of the noise

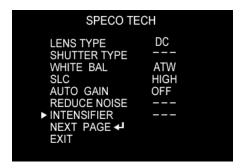
Notes

- If you change the 'GAIN' menu from AGC-L to AGC-H, sensitivity is increased as well as noise on the screen.
- ■When the "Gain" menu is off, REDUCE NOISE will not work.

7) INTENSIFIER

Allows you to get clear images under night or low light conditions.

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'INTENSIFIER' using the UP or DOWN button.
- ② SET 'INTENSIFIER' to the desired mode using the LEFT or RIGHT button.



- ► AUTO: When your camera is under night or low-lighting level, select this mode. This mode allows the camera to switch into B/W in low light conditions.
- ▶ OFF : Deactivation

Notes

- lacktriangle If you press the "auto" button in the Intensifier mode you can Control the amount of intensification from 2X \sim 128X.
- Increasing the amount of Intensification results in brighter pictures under low light conditions, and may increase image lag.
- Increasing the amount of intensification may cause image noise which is to be expected as a normal condition..

24



Operating your camera - CAMERA TITLE ①



Operating your camera - CAMERA TITLE 2

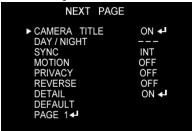
8) NEXT PAGE

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'NEXT PAGE' using the UP or DOWN button.
- ② SET 'NEXT PAGE' to the desired mode using the LEFT or RIGHT button.



(1) CAMERA TITLE

- ① Press the SET button to display the SETUP menu and move the arrow indicator to 'CAMERA TITLE' using the UP or DOWN button.
- ② SET 'ON' using the LEFT or RIGHT button.



Notes

 If the CAMERA TITLE feature is set to 'OFF', the name will not be displayed on the monitor.

- ③ Press SET button to access the SETUP mode.
- 4 You can enter up to 15 characters.
- a. Move the cursor to character-enter location by using the LEFT or RIGHT button.
- b. Select the desired character by using the UP or DOWN button.
- c. Press SET button to confirm the blinking character. The first character is saved and the cursor in the bottom of the screen moves to the next position.
- d. Repeat above steps until you create the full name you want.
- Select the position at which the CAMERA TITLE will be located on the screen.
 - -Move the cursor to 'POS' and press SET button.
 - -Select the position by using the 4-directional buttons, then press the SET button to confirm the position.
- f. When completed, move the cursor to 'END' and press SET button.



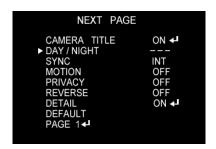
Notes

 If you make a mistake while entering a name move the cursor to 'CLR', press 'SET' button.
 After erasing the character from right to left, correct the character again.



Operating your camera - DAY/NIGHT/SYNC

- (2) COLOR: You can choose color and B/W mode electronically.
- ① Press the SET button to display the setup menu and move the arrow indicator to 'COLOR' using the UP and DOWN button.
- ② SET 'COLOR' to the desired mode using the LEFT or RIGHT button.

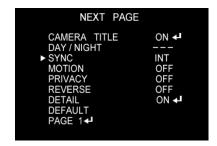


- ▶ COLOR : The camera will always display a color picture
- ► AUTO : The camera will switch into the B/W mode under low light conditions.

Notes

OSD Key may not work for 3 seconds when the COLOR/BW mode is changed.

- (3) SYNC: Two SYNCHRONIZATION modes are available INTERNAL and EXTERNAL LINE-LOCK.
- ① Press the SET button to display the setup menu and move the arrow indicator to 'SYNC' using the UP and DOWN button.
- ② SET to the desired mode using the LEFT or RIGHT button.



- ► INT : Internal synchronization
- ▶ L/L : If you choose 'L/L', you can adjust the desired phase.
 - -Press the SET button.
 - -You can adjust the desired phase from 0 to 270.

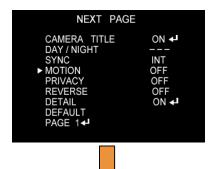
Notes

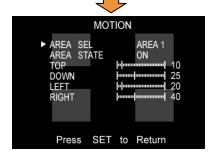
- •When used in 24V AC power the L/L mode can be used.
- ●In 12V DC, the SYNC menu defaults to 'Internal.



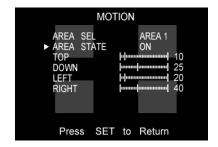
Operating your camera – MOTION DETECTION

- (4) Whenever your camera detects motion, THE WORDS "motion detected" will appear on the screen.
- ① Press the SET button to display the setup menu and move the arrow indicator to 'MOTION' using the UP and DOWN button.
- ② SET 'MOTION' to the desired mode using the LEFT or RIGHT button.





- ▶ OFF : Deactivation
- ► ON : MOTION. activated
 - -Press SET button.
 - -Move the arrow indicator to 'AREA SET' using UP and DOWN button, and then press the SET button.
 - Set the areas you want to observe.







Max. Min.



Operating your camera - PRIVACY



Operating your camera - REVERSE

- (5) PRIVACY: To mask area that you want to be private.
- ① Press the SET button to display the setup menu and move the arrow to 'PRIVACY' using the UP and DOWN button.
- ② SET 'PRIVACY' to the desired mode using the LEFT or RIGHT button.







- ▶ OFF : Deactivation
- ▶ ON : PRIVACY mode activated
 - -Press the SET button.
 - -Move the arrow to the area you want to mask.
 - -Set 'ON' using LEFT or RIGHT button.
 - -Press the SET button and then set the area's bounds as for Motion detection.

(6) REVERSE

- ① Press the SET button to display the setup menu and move the arrow indicator to 'REVERSE' using the UP and DOWN button.
- ② SET 'REVERSE' to the desired mode using the LEFT or RIGHT button.



▶ OFF : Deactivation

▶ ON : Reverse the image RIGHT or LEFT.

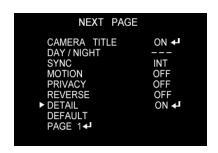


Operating your camera - DETAIL



(7) DETAIL

- ① Press the SET button to display the setup menu and move the arrow indicator to 'DETAIL' using the UP and DOWN button.
- ② SET 'DETAIL' to the desired mode using the LEFT or RIGHT button.





- ▶ OFF : Deactivation
- ► ON: DETAIL control mode (level 0~31)

 When the level is up, the sharpness will increase.

 Control this level to get your best picture quality.

 If the level is too high, you can get an unnatural image with video noise.

- (8) DEFAULT : Use to reset your camera to FACTORY DEFAULT SETTINGS.
- (9) PAGE 1 : Save the setting of NEXT PAGE function, and then move to SET UP menu.



If you have trouble operating your camera, refer to the following.

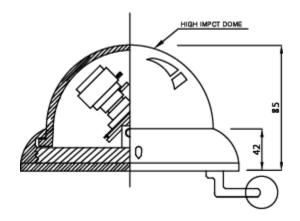
Problem	Solution
Nothing appears on the screen.	Check that the power cord and line connection between the camera and monitor are proper. Check that you have properly connected VIDEO cable the camera VIDEO output jack.
The image on the screen is dim.	 Is lens stained with dirt? Clean your lens with a soft, clean cloth. Set the monitor for the proper condition. If the camera is exposed to too strong light change the camera position. Adjust the lens' focus properly.
The image on the screen is dark.	●Adjust the contrast feature of the monitor. ●If you have an intermediate device, set the 75Ω/Hi-z properly.
The camera is not working properly.	Check that you have properly connected the camera to an appropriate power source.
MOTION DETECTION function is not active.	●Have you set 'MOTION DET.' menu to off? ●Have you set 'MD LEVEL' to too low? ●Have you set 'MD ARAEA' properly

Problem	Solution
The color of the picture is not matched.	●Check that you have properly set the 'WHITE BALANCE' menu
The image on the screen flickers.	●Is the camera facing to direct sunlight or fluorescent lighting? Change the camera position.
L/L mode cannot be selected.	Have you connected your camera to DC power source? Connect it to an AC power source.

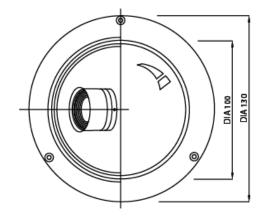


ITEM	HT-7246IHR
Power Source	12VDC & 24VAC (Dual Voltage)
Power Consumption	230mA (DC) / 3.8W (AC)
I mage Sensor	1/3" SONY SUPER HAD CCD, 410,000 pixels
Total Pixels	811(H) x 508(V) , 1/3" CCD
Effective Pixels	768(H) x 494(V) , 1/3" CCD
LENS Type	DC AUTO IRIS VARIFOCAL 2.8~11mm
Maximum Aperture Ratio	1:1.3~2.0
Scanning System	2 : 1 Interlaced 525 Lines / 60 Fields / 30 Frames
Synchronization	Internal / Line Lock selectable
Video Output	1.0V [p-p] NTSC Composite, 75Ω / BNC Connector
Resolution	540 TV Lines
Gain Control	AGC-L, AGC-M, AGC-H, OFF selectable
Electric Shutter Speed	1/60 ~ 1/200,000 sec
INTENSIFIER	Built-in (selectable limit ~ X128)
WHITE BALANCE	W-ATW / S-ATW / AWC / MANUAL
Min. Illumination	0.002Lux (intensifier) 0.3Lux(shutter)
S/N (Y signal)	50dB (Weight On)
REDUCE NOISE	ON / LOW / MIDDLE / HIGH
Motion Detection	MD1 / MD2 / OFF
On Screen Display (O.S.D)	Built - in
PRIVACY Function	ON / OFF (4 Programmable Zone)
Operational Temperature	-29℃ ~ +50℃ (-20°F ~122°F)
Operational Humidity	30% ~90% RH

* SIDE VIEW



* TOP VIEW







LIMITED WARRANTY

THIS WARRANTY IS VALID ONLY ON PRODUCTS PURCHASED AND USED IN THE UNITED STATES OF AMERICA. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL USER.

SUBJECT TO CONDITIONS AND EXCLUSIONS FOUND BELOW, THIS PRODUCT IS WARRANTED AGAINST MANUFACTURING DEFECTS IN MATERIAL AND WORKMANSHIP FOR THE FOLLOWING PERIOD FOR PARTS AND LABOR:

 ProVideo CAMERAS:
 6 YEARS

 ProVideo MONITORS:
 1 YEAR

 BALANCE OF ProVideo LINE:
 1 YEAR*

 * IR LEDs, Time lapse VCR Drum Assemblies & Heads:
 90-DAYS

WE WILL REPAIR OR REPLACE (AT OUR OPTION) ANY PARTS FOUND TO BE DEFECTIVE FOR THE WARRANTY PERIOD SPECIFIED. WE WILL PROVIDE A REPLACEMENT FOR ANY DEFECTIVE PART.

CONDITIONS

- 1. THIS WARRANTY WILL BE HONORED ONLY UPON PRESENTATION OF THE ORIGINAL DATED BILL OF SALE OR SALES SLIP.
- TRANSPORTATION OF THE PRODUCT TO OUR SERVICE STATION IS THE RESPONSIBILITY OF THE USER. REPAIRED OR REPLACED PRODUCT WILL BE RETURNED PREPAID DURING THE WARRANTY PERIOD.

EXCLUSIONS

- THIS WARRANTY SHALL NOT COVER ADJUSTMENT OF CUSTOMER OPERATED CONTROLS AS EXPLAINED IN THE APPROPRIATE MODELOPISTRUCTION MANUAL OR PRODUCTS WHICH HAVE BEEN ALTERED, ABUSED, OR HAVE MISSING OR ALTERED SERIAL NUMBERS.
- THIS WARRANTY SHALL NOT APPLY TO UNCRATING, SETUP, INSTALLATION, OR THE REMOVAL AND REINSTALLATION OF PRODUCTS AFTER REPAIR.
- 3. THIS WARRANTY SHALL NOT APPLY TO REPAIRS OR REPLACEMENTS NECESSITATED BY ANY CAUSE BEYOND THE RESULT OF MANUFACTURE INQUIDING, BUT NOT LIMITED TO, ANY MALFUNCTION, DEPECTS OR FAILURE CAUSED BY OR RESULTING FROM UNAUTHORIZED SERVICE OR PARTS, IMPROPER MAINTENANCE, MODIFICATION OR REPAIR BY THE USER, ABUSE, MISUSE, NESUES, NESUES

THE PORESCING IS IN LIEU OF ALL OTHER EXPRESSED WARRANTIES AND WE DO NOT ALTHORIZE ANY PARTY TO ASSUME FOR US ANY OTHER DELIGATION OR LIABILITY. IN NO EVENT SHALL, WE BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL CRAMAGES ARISING FROM THE USE OF THIS PRODUCT, OR FOR ANY DELAY IN THE USE OF THIS PRODUCT OUT TO CAUSES BEYOND OUR CONTROL.

SOME STATES DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS ANDIOR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CONSEQUENTIAL DAMAGES. THE ABOVE LIMITATIONS ON IMPLIED WARRANTY AND CONSEQUENTIAL DAMAGES MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

NOTE: FOR YOUR PROTECTION IN THE EVENT OF THEFT OR LOSS OF THIS PRODUCT, PLEASE FILL IN THE INFORMATION REQUESTED BELOW AND RETAIN WITH YOUR SALES RECEIPT.

AMITYVILLE NY 11701

MODEL NO:_ LOCATED ON BACK OR BOTTOM SIDE OF UNIT)	SERIAL NO.:
DATE OF PURCHASE:	
WHERE PURCHASED:	PURCHASE PRICE:
Speco Technologies	FOR MORE INFORMATION REGARDING

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