VLB11SCSFF

550 Line Color Bullet Camera
Focus Free
Wall & Ceiling Mountable

speco technologies®

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

WARNING & CAUTION

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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 lighting flash with an arrowhead symbol, within an equilateral triangle is Intended to alert the user to the presence of un-insulated "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 (serving) instructions in the literature accompanying the appliance

INFORMATION -This equipment has been tested and found to company 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 equipments 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 – Change or modification 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.

DO NOT expose this appliance to rain or moisture.

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

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CONTENTS

PACKAGE CONTENTS

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

1 VLB11SCSFF Camera

3 Mounting Screws

1 Video test Connector

1 Wrench

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

PRECAUTIONS

- **THIS CAMERA SHOULD BE ONLY INSTALLED BY QUALIFIED PERSONNEL**

- **TO PREVENT A FIRE OR ELECTRICAL HAZARD PLEASE USE PROPER POWER CABLE**

- **DO NOT CLEAN THE COVER WITH AN ABRAISIVE CLEANING MATERIAL - PLEASE USE A SOFT CLOTH OR TISSUE TO CLEAN THE COVER**

- **THERE ARE NO USER-SERVICEABLE PARTS INSIDE. PLEASE DO NOT DISASSEMBLE THIS CAMERA OTHER THAN TO MAKE INITIAL ADJUSTMENTS**

- **PLEASE USE A UL APPROVED REGULATED 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
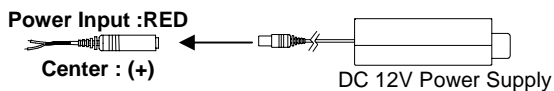
CAMERA INSTALLATION

CONNECT POWER CABLE

1. WHEN USING 12 VOLTS DC (constant voltage 500 mA)

Power Input :RED

Center : (+)

DC 12V Power Supply

2. CONNECT VIDEO CABLE
-CONNECT BNC CABLE TO THE BNC JACK.

CAMERA INSTALLATION

CONTROL BOARD
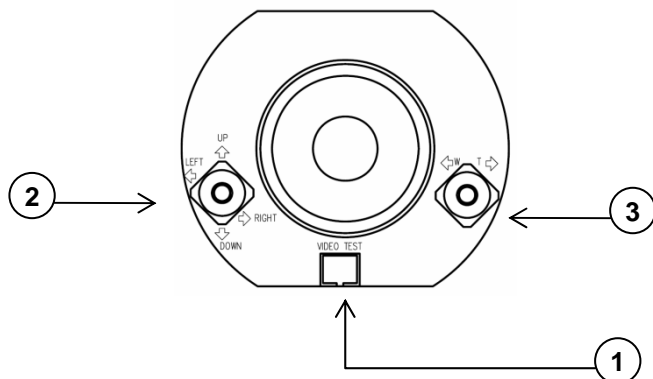
1) Video Test Terminal
 For second video output

2) OSD (On Screen Display) Joy stick
 Press the Joy stick for one second until the OSD menu tree
 appears on the screen. Move the Joy Stick up, down, left &
 right to control the OSD functions.

3) Lens adjustment (for Zoom) Joy stick
 Adjust the Joy stick left or right to control between TELE &
 WIDE, Focus is automatically matched without any adjustment.

CAMERA INSTALLATION

COMPATIBILITY
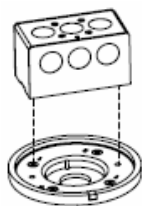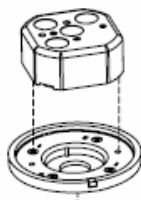
"A" type Box   **"B" type Box**   **CVCTPEXT**
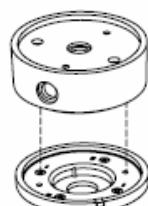
CVCTPLATE
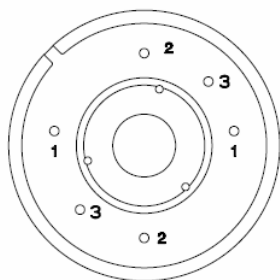
[CVCTPLATE Hole Description]

Hole 1 : CVCTPEXT

Hole 2 : Electrical Box "B" type

Hole 3 : Electrical Box "A" type

CAMERA INSTALLATION

COMPATIBILITY

BCP (USING 7246WMT)
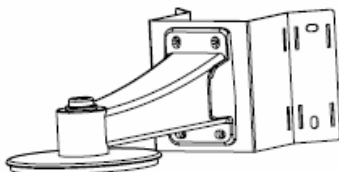
CVCTPEXT

CVCTPLATE
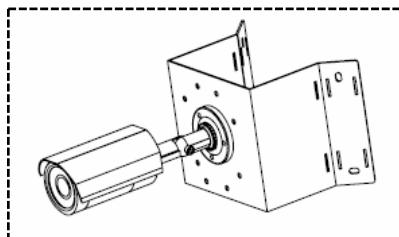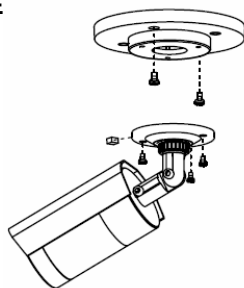
BCP (Direct connection)

FEATURES

FOCUS FREE

With 3.7~10mm FOCUS FREE Auto Iris Motorized Zoom Lens,
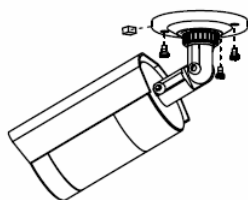Focus can be automatically set up by adjusting zoom position.
No more trips back to the installation to re-focus the camera.
Reduces installation time and service calls.

High Resolution

Horizontal resolution of 550 TV lines is achieved by using a
SONY Super-HAD CCD with 410,000 pixels, and a custom DSP
yielding pictures with a high S/N ratio..

DAY/NIGHT

The camera can show color pictures in all lighting conditions.
 Or you can have it automatically switch to a B/W in low light
conditions

S-WDR (Speco WDR)

This is Digital -WDR feature which enables to obtain clear and high
quality pictures even in strong backlight condition.

S-DNR (Speco DNR)

This can remove image noise efficiently showing clean images in
low light conditions.

SLC (Speco BLC)

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

FEATURES

HLC (High Light Compensation)

This function reverses bright spots in the picture (such as headlights).
It enables the entire system to do a better job of resolving and
displaying grayscale information such as a license plate.

FREEZE

This function freezes the current scene for detailed viewing.

PRIVACY

It also has the ability to mask up to 8 areas of the picture where
Viewing is not desired. Each zone can be independently
programmed via the OSD

OSD

All camera functions are menu driven for easy use.

MIRROR

Picture can be reversed vertically or horizontally.

D-ZOOM

Digital zooming up to 32X.

OSD MENU TREE

LENS
◆ DC

EXPOSURE
◆ SHUTTER ◆ AGC ◆ SLC ┌─ SLC ◆ S-WDR ◆ RETURN
                        └─ HLC

WHITE BALANCE
◆ ATW ◆ AWB ◆ AWC-SET ◆ MANUAL ◆ INDOOR ◆ OUTDOOR

DAY / NIGHT
◆ COLOR ◆ AUTO ◆ EXT ◆ B/W

S-DNR
◆ ON ◆ OFF

SPECIAL
◆ CAM TITLE ◆ D-EFFECT ◆ MOTION ◆ PRIVACY ◆ RETURN / END
        ┌─ FREEZE
        ├─ MIRROR
        ├─ D-ZOOM
        ├─ GAMMA
        └─ NEG.IMAGE

ADJUST
◆ SHARPNESS ◆ BLUE ◆ RED ◆ RETURN / END

RESET
◆ FACTORY ◆ RETURN / END

EXIT
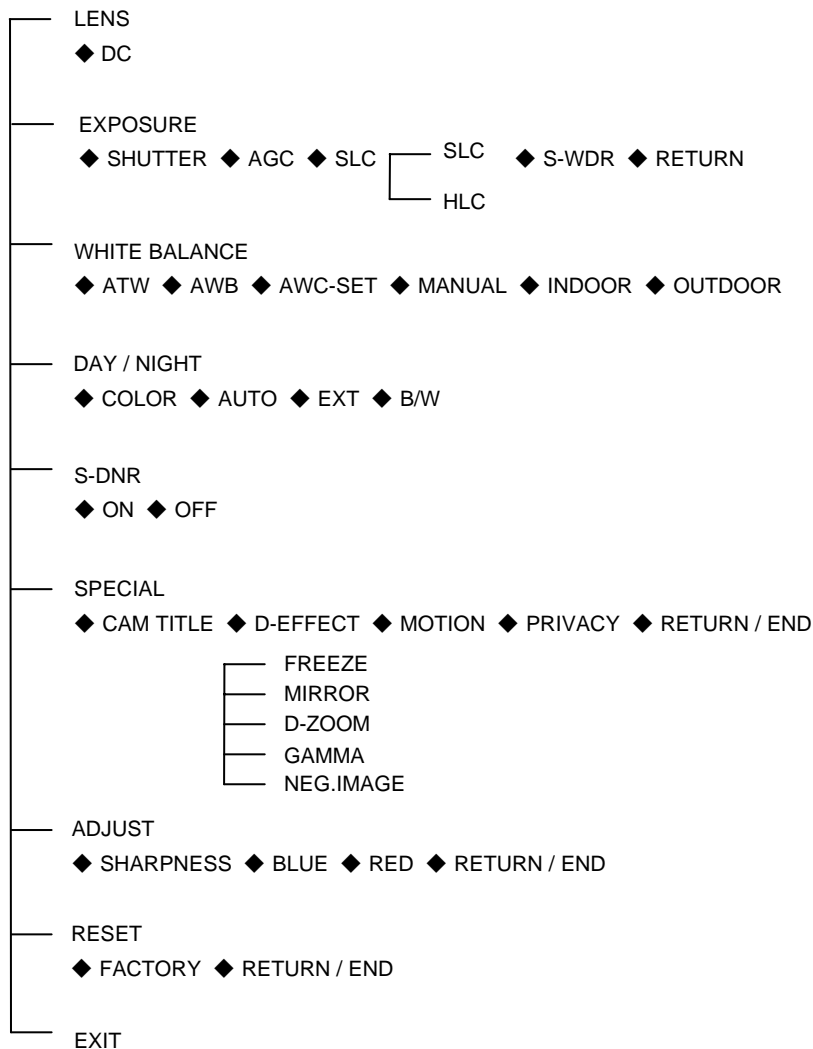
OSD MENU DETAILS

1. EXPOSURE
 [OPTION : SHUTTER / AGC / SLC / S-WDR / RETURN]

 - **SHUTTER**
  1/60, FLK, 1/250, 1/500, 1/2000, 1/5000, 1/10000, 1/100000

 - AGC (Low / Middle / High)
  Adjusts value of AGC gain and increases the GAIN level to brighten the
  picture. (noise / distortion may develop)

 - SLC
  * SLC : Back Light Compensation * HLC : High Light Compensation

 - S-WDR (Digital Wide Dynamic Range)
   To distinguish a subject in both bright and dark areas.
   * INDOOR : Activate S-WDR for Indoor use.
      * OUTDOOR : Activate S-WDR for Outdoor use.

---

2. WHITE BALANCE
[OPTIONS : ATW / AWB / AWC SET / MANUAL / INDOOR / OUTDOOR]

- ATW
 Auto Tracking White Balance when the color temp in 1800˚K~10500˚K.

- AWB
 Automatically adjust White Balance to your specific conditions.

- AWC SET
 Set while pointing the camera towards a sheet of white paper.

- MANUAL
 It allows you to increase or decrease the red or blue factor on screen.

- INDOOR
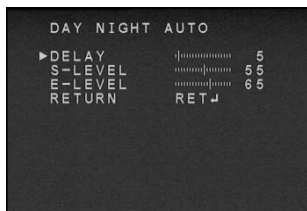 Select this when the color temp. is 4500˚K~ 8500˚K.

- OUTDOOR
 Select this when the color temp. is 1800˚K ~10500˚K

OSD MENU DETAILS

3. DAY / NIGHT
[OPTION : COLOR / BW / AUTO]

- COLOR : Full time color mode
- BW : Full time black & white mode
- AUTO: Automatically detect color or black/white
      * DELAY : Set Delay time to switch Color to B/W.
      * S-LEVEL : Set Start Level of luminance that you define.
      * E-LEVEL : Set End Level of luminance that you define .
      *** Only certified technicians should be allowed to this feature.

```
      DAY NIGHT AUTO
 ►DELAY          |·········· |  5
  S-LEVEL        ·········|·· 55
  E-LEVEL        ·········|·· 65
  RETURN         RET↵
```

4. S-DNR
[OPTION : ON / OFF]

- Reduces noise/distortion on the screen.
 Increasing the DNR level reduces noise but may introduce video artifacts.
 DNR is deactivated if AGC is turned off.

5. SPECIAL - CAM TITLE
[OPTION : ON / OFF]

 - Display a name and/or number on the monitor.

```
     CAM TITLE
         0 1 2 3 4 5 6 7 8 9
         B C D E F G H I J K
         L M N O P Q R S T U V
         W X Y Z ► → ← ↑ ↓ ( )
         ¯ - _ ■ / = & : ~ , .

      ←  →  CLR  POS  END

      NEXTCHIP
      _ _ _ _ _ _ _ _ _ _ _ _
```
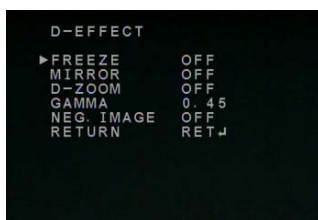
OSD MENU DETAILS

6. SPECIAL – D-EFFECT
[OPTION : FREEZE / MIRROR / D-ZOOM / GAMMA / NEG.IMAGE]

- FREEZE: Freezes the current scene for detailed viewing.
- MIRROR – ROTATE, V-FLIP, MIRROR
- D-ZOOM : Digital zoom of 1 ~32X.
- GAMMA : 0.45 is fixed. Do not adjust it unless certified technician.
- NET. IMAGE : Change colors off like film.

```
D-EFFECT

►FREEZE      OFF
 MIRROR      OFF
 D-ZOOM      OFF
 GAMMA       0.45
 NEG. IMAGE  OFF
 RETURN      RET↵
```

7.SPECIAL - MOTION
[OPTION : ON / OFF]
- To transmit a alert signal when it detects motion of an object on the
  screen. 4 Areas can be selectable.

8. SPECIAL - PRIVACY
[OPTION : ON / OFF]
- Mask up to 8 areas of the screen

9. ADJUST
[OPTION : SHARPNESS / BLUE / RED]
- Adjust sharpness / RED and BLUE characteristics on the picture.

10. RESET
- Restore all factory default settings.

TROUBLESHOOTING

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 correct ● Check that you have properly connected VIDEO cable to the camera VIDEO output jack.
The image on the screen is dim.	● Is the lens stained with dirt? Clean your lens with soft, clean cloth. ● Set the monitor for the proper conditions. ● If the camera is exposed to too strong light change the camera position. ● Adjust the lens' focus.
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, and the surface of the camera is hot.	● 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 AREA' properly

TROUBLESHOOTING

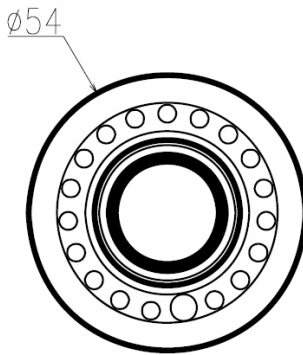| Problem	Solution
The color of the picture is not proper.	● Check that you have properly set the ' WHITE BALANCE ' menu
The image on the screen flickers.	● Is the camera facing to direct sunlight or fluorescent lighting? Change the camera position.

# LED PATTERN

3.7-10mm FF lens
18 Mini IR LEDs (80' Range)

SPECIFICATIONS

| ITEM	VLB11SCSFF
Power Source	12VDC Only
Power Consumption	600mA (DC)
Image 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	Focus Free Lens 3.7~10mm
Maximum Aperture Ratio	1 : 1.3 ~2.0
Scanning System	2 : 1 Interlaced 525 Lines / 60 Fields / 30 Frames
Synchronization	Internal
Video Output	1.0V [p-p] Composite, 75Ω
Resolution	550 TV Line
Gain Control	AGC-L, AGC-M, AGC-H, OFF selectable
Electric Shutter Speed	1/60 ~ 1/200,000 sec
DAY / NIGHT	COLOR / AUTO / BW
COLOR TEMP (White Balance)	ATW / AWB / AWC-SET / MANUAL / INDOOR / OUTDOOR
Min. Illumination	0.3 LUX (F 1.2), 0.00LUX (LED ON)
S/N (Y signal)	52dB (Weight On)
SPECO DNR	ON / OFF
Motion Detection	ON / OFF (4 Programmable Zone)
On Screen Display (O.S.D)	Built - in
PRIVACY Function	ON / OFF (8 Programmable Zone)
Operational Temperature	-29℃ ~ +50℃ (- 20˚F ~122˚F)
Operational Humidity	30% ~90% RH

DIMENSIONS

* FRONT VIEW

69.7

72.4

Ø61

* SIDE VIEW

204.4

69.4

75.8

125

WARRANTY

speco technologies®
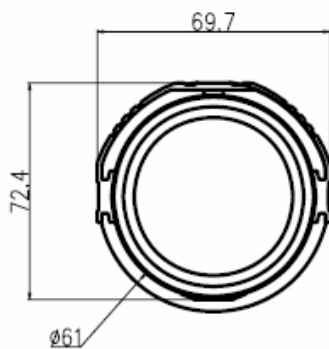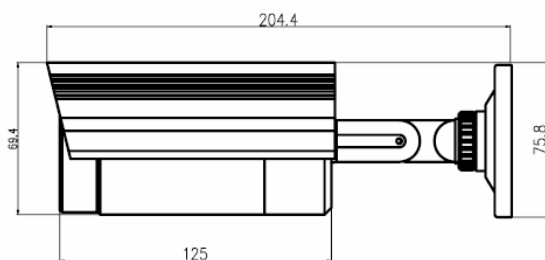
LIMITED WARRANTY

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:

SPECO TECHNOLOGIES CAMERAS:	5 YEARS
SPECO TECHNOLOGIES MONITORS:	1 YEAR
BALANCE OF SPECO TECHNOLOGIES LINE:	1 YEAR*
* IR LEDs, Time lapse VCR Drum Assemblies & Heads:	90-DAYS

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

CONDITIONS

1. YOU MUST OBTAIN A RETURN AUTHORIZATION NUMBER FOR ANY MERCHANDISE BEING RETURNED TO SPECO TECHNOLOGIES, WHETHER FOR RETURN/EXCHANGE OR REPAIR, WHETHER IN OR OUT OF WARRANTY.

2. THIS WARRANTY WILL BE HONORED ONLY UPON PRESENTATION OF THE ORIGINAL DATED BILL OF SALE OR SALES SLIP.

3. TRANSPORTATION OF THE PRODUCT TO OUR SERVICE DEPARTMENT IS THE RESPONSIBILITY OF THE USER. REPAIRED OR REPLACED PRODUCT WILL BE RETURNED PREPAID DURING THE WARRANTY PERIOD.

EXCLUSIONS

1. THIS WARRANTY SHALL NOT COVER ADJUSTMENT OF CUSTOMER OPERATED CONTROLS AS EXPLAINED IN THE APPROPRIATE MODEL'S INSTRUCTION MANUAL OR PRODUCTS WHICH HAVE BEEN ALTERED, ABUSED, OR HAVE MISSING OR ALTERED SERIAL NUMBERS.

2. 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 INCLUDING, BUT NOT LIMITED TO, ANY MALFUNCTION, DEFECTS OR FAILURE CAUSED BY OR RESULTING FROM UNAUTHORIZED SERVICE OR PARTS, IMPROPER MAINTENANCE, MODIFICATION OR REPAIR BY THE USER, ABUSE, MISUSE, NEGLECT, ACCIDENT, FIRE, FLOOD, OR OTHER ACTS OF NATURE, INCORRECT LINE VOLTAGE, DAMAGE OR IMAGE BURNS TO TELEVISION PICTURE TUBES CAUSED BY OR ATTRIBUTABLE TO THE USE OF ANY ACCESSORY, ELECTRONICS GAME OR DEVICE, OR DAMAGE CAUSED TO IMAGE PICKUP DEVICES BY EXCESSIVE LIGHT.

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

SOME STATES DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS AND/OR 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.

MODEL NO.:_____ SERIAL NO.:_____
(LOCATED ON BACK OR BOTTOM OF UNIT)

DATE OF PURCHASE:_____

WHERE PURCHASED:_____ PURCHASE PRICE:_____

Speco Technologies 200 NEW HIGHWAY AMITYVILLE, NY 11701 www.specotech.com	FOR MORE INFORMATION REGARDING SERVICE OR RETURN, CALL US TOLL FREE: 1-800-645-5516 IN METRO NY: 631-957-8700

ALWAYS USE DISCRETION WHEN INSTALLING VIDEO AND/OR AUDIO SURVEILLANCE EQUIPMENT ESPECIALLY WHEN THERE IS AN EXPECTATION OF PRIVACY. INQUIRE REGARDING FEDERAL, STATE AND/OR LOCAL REGULATIONS APPLICABLE TO THE LAWFUL INSTALLATION OF VIDEO AND/OR AUDIO RECORDING OR SURVEILLANCE EQUIPMENT. PARTY CONSENT MAY BE REQUIRED.

MEMO

MEMO

speco technologies®

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Amityville, NY 11701

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www.specotech.com

This manual is based on the date as shown in the right and specifications are subject to Change without notice for quality improvement.

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