HTD8SCS Series
540 Line Color Dome Camera
Wall & Ceiling Mountable

speco technologies®

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

WARNING & CAUTION

● Contents

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Operating Your Camera

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PACKAGE CONTENTS

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

  1 CAMERA & Easy Mount Plate

  ACCESSORIES:
  4 MOUNTING SCREWS
  4 SET SCREWS
  1 RUBBER CABLE CAP
  1 VIDEO TEST LEAD
  1 WRENCH

  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 PROPER POWER CABLE**

- **PLEASE USE AN APPROVED REGULATED 12 VOLT DC POWER SUPPLY LIKE THE SPECO PSW-5**

- **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.
  - DO NOT EXPOSE THE CAMERA TO DIRECT SUN

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CAMERA INSTALLATION

1. Assembly

	Easy Mount Plate
	Rubber Cap used when cables go through the mount
	Mounting Screws (4ea)
	SET Screws (2ea)
	Camera Base
	Camera Body
	OSD Joystick & Video Test Connector
	Focus & Zoom Controller
	Front Case
	SET Screws (2ea)
	Outer Housing

5
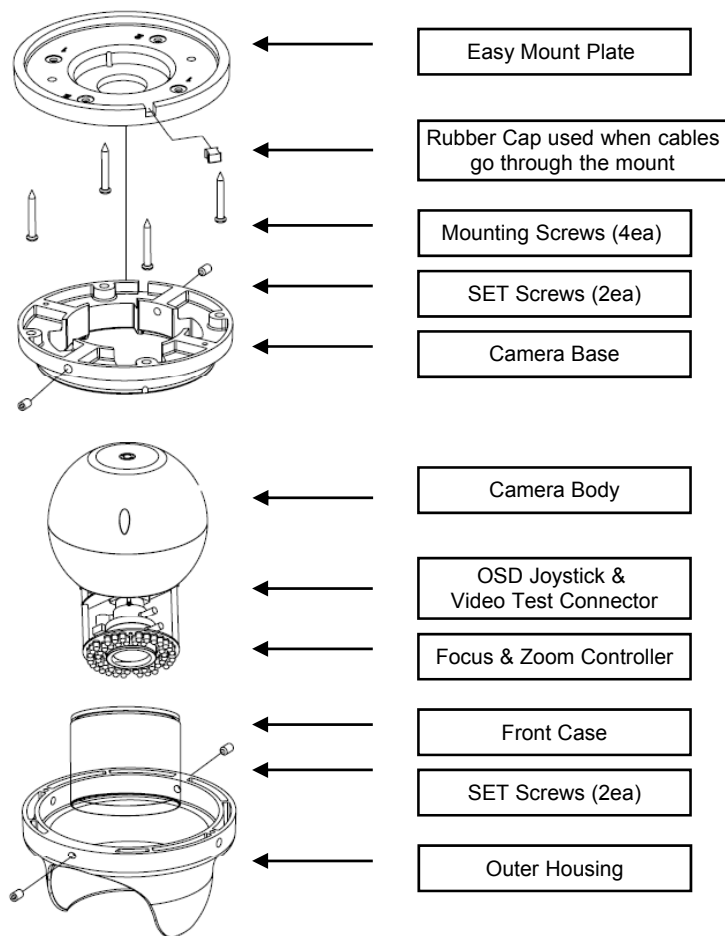
CAMERA INSTALLATION

2. Compatibility

7246WMT   **CVC-TPEXT**   **"A" type Box**   **"B" type Box**
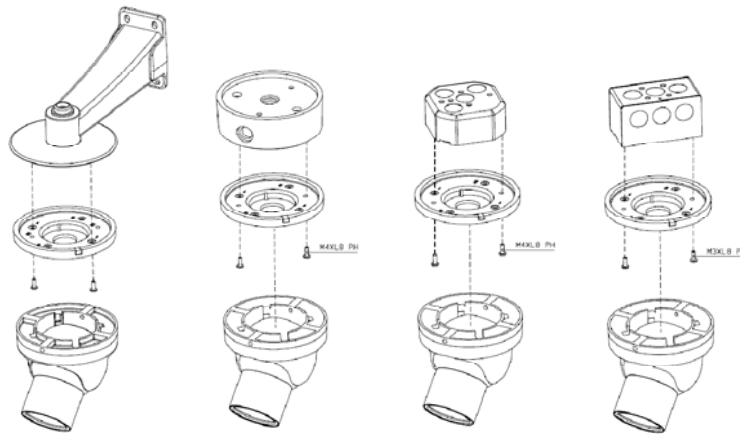
BCP(Using 7246WMT)   [CVCTPLATE Hole Description]

Hole 1 : 7246WMT / CVCTPEXT

Hole 2 : Electrical Box "A" type

Hole 3 : Electrical Box "B" type

6
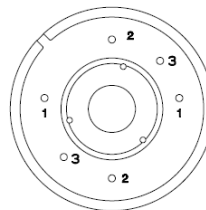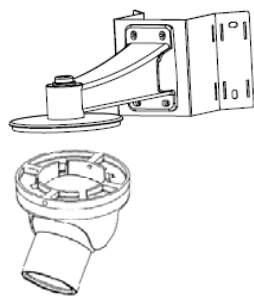
INTERNAL COMPONENTS
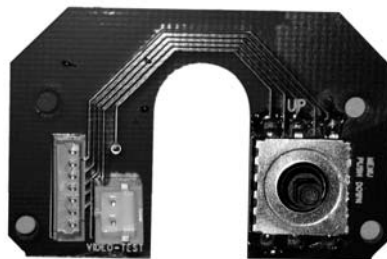
Video Test Terminal   OSD Joystick Switch

UP   SET
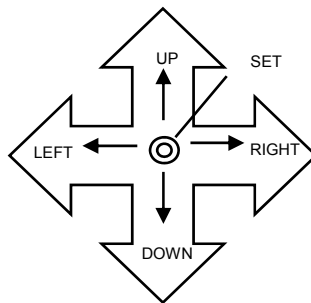
LEFT   RIGHT

DOWN

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.

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● Features

BLC

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

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.

OSD

All camera functions are menu driven for easy use.

ELECTRONIC DAY/NIGHT

The 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

Motion Detection

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

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● Operating your camera

```
┌─────────────────────────────────────────┐
│ OSD Function                             │
└─────────────────────────────────────────┘
```

— LENS
   ◦ DC   ◦ MANUAL

— SHUTTER
   ◦ AUTO   ◦ FLK   ◦ FIXED   ◦ MANUAL

— BLC
   ◦ OFF   ◦ ON

— AGC
   ◦ OFF   ◦ ON

— WHITE BAL.
   ◦ ATW   ◦ AWB   ◦ FIXED   ◦ MANUAL

— FUNCTION
   — RETURN

   — CAMERA ID
      ◦ ON   ◦ OFF
   — MIRROR
      ◦ ON   ◦ OFF
   — DAY / NIGHT
      ◦ COLOR   ◦ AUTO   ◦ B/W
   — MOTION DET
      ◦ ON   ◦ OFF
   — PRIVACY
      ◦ ON   ◦ OFF
   — GAMMA
      ◦ 0.05~1.00   ◦ USER
   — LANGUAGE
      ◦ ENGLISH ◦ 한국어 ◦ 汉语   ◦ 漢語   ◦ 日本語
   — RESET

— ADJUST
   — CONTRAST

   — SHARPNESS

   — CB_GAIN

   — CR_GAIN

   — RETURN

— RETURN

9
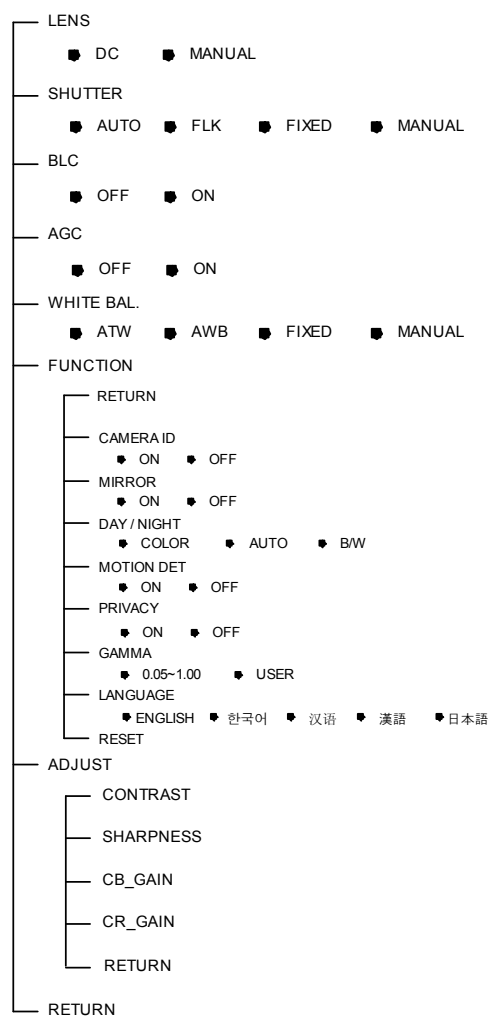
● Operating your camera – SETUP

1) LENS
<DC / MANUAL>

Selects Lens Type.

2) SHUTTER
<AUTO / FLK / FIXED / MANUAL>

Adjusts shutter settings.
Flicker-less mode (FLK) reduces on-screen flickering.
Electronic Shutter Control (AUTO) adjusts brightness level on screen.
Manual mode allows you to adjust the shutter speed
from1/60~1/120,000 of a second (NTSC), or 1/50~1/100,000(PAL).
FLK is the only option available when the camera lens is set to the
recommended DC mode.

3) BLC
<ON / OFF>
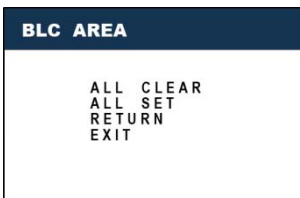
Provides light level control to overcome severe
backlighting conditions.

4) AGC
<ON / OFF>

Adjusts value of AGC gain. Increase the GAIN level to brighten the
picture. (noise / distortion may develop)

10

5) WHITE BAL.
<ATC / AWB / FIXED / MANUAL>

Controls color on the screen.
Select Auto Tracking White Balance (ATW) when the color
temp. is 2400°K~12000°K (for example when under a fluorescent
light or outdoors).
Manual mode allows you to increase or decrease the red
or blue factor on screen.
Auto White Balance Control (AWC) automatically adjusts
the white balance to your specific environment.

6) FUNCTION

(6-1) RETURN

Return to the main SETUP menu.

(6-2) CAMERA ID

<OFF / ON>

ID SETUP

CAMERA ID
CCTV 1   ↵ C
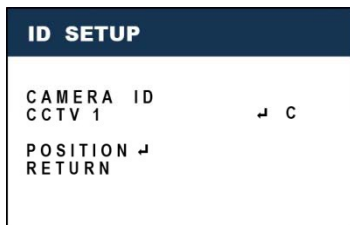
POSITION ↵
RETURN

Display a name and/or
number on the monitor.
To add a camera title:

CAMERA ID : Select character by moving joystick up and
                        down.
C = Delete the entire name and start again.
POSITION = Position the camera title on the screen.
                        Push down the button to set the position.

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(6-3) MIRROR
<ON / OFF>

> Produce a horizontal mirror image on screen.

(6-4) DAY / NIGHT
<AUTO / COLOR / BW>

> AUTO = Automatically switches between color or black/white.
> Delay – When the Day & Night function starts or stops (0~15sec)
> Start Level – Set the brightness level to determine where the Day &
> Night function start to operate
> End Level – Set the brightness level where the Day & Night
> function switches back
> COLOR = Full time color mode
> B/W = Full time B/W mode

(6-5) MOTION DET
<ON / OFF>

MOTION	
AREA	
MOTION TH.	037
▬▬▬▬▬▬▬▬▬	
MOTION TRACE	OFF
RETURN	

MOTION AREA
ALL CLEAR
ALL SET
RETURN
EXIT

> AREA = Select motion detection area.
> MOTION TH = Select low luminous motion threshold value.
> MOTION TRACE = Display motion trace.

(6-6) PRIVACY
<ON / OFF>

PRIVACY	
AREA SEL	AREA0
AREA STATE	ON
LEFT	150
RIGHT	170
TOP	029
BOTTOM	056
COLOR	006
RETURN	

12

AREA SEL = Select a motion detection grid (top left, top ,right, bottom left,
              bottom right) to modify.
AREA STATE = Activate or deactivate the selected grid.
LEFT/RIGHT/TOP/BOTTOM = Alter the dimensions of the selected grid.
COLOR = Select color of privacy area.

(6-7) GAMMA
<ON / USER>

Sharpen the image on screen.
Excessive sharpening may cause picture noise.

(6-8) LANGUAGE (English / 한국어 / 汉语/漢語 / 日本語)

Choose the language that should be displayed.

(6-9) RESET

Restore all factory default settings.

7) ADJUST

Adjust level of sharpness / contrast / CB_Gain /
CR_Gain.

8) EXIT(SAVE)

Save OSD settings and exit the SETUP menu.

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SPECIFICATIONS

ITEM	540TV Lines IR DOME CAMERA
Power Requirements	12 Volts DC
Image Sensor	1/3", SONY SUPER HAD CCD 410,000 pixels
Effective Pixels	768(H) x 494(V) (NTSC)
Maximum Aperture Ratio	1 : 1.3 ~2.0
Scanning System	2 : 1 Interlaced 525 Lines / 60 Fields / 30 Frames
Video Output	1.0V [p-p] NTSC Composite, 75Ω
Resolution	540 TV Line
Lens Type	2.8~11MM DC Auto Iris
Back Light Compensation (BLC)	AUTO / OFF – Dynamically Adjustable
Gain Control	ON / OFF - Dynamically Adjustable
Electric Shutter Speed	1/60 ~ 1/120,000 sec - Dynamically Adjustable
WHITE BALANCE	ATW / FIXED / AWB / MANUAL
Min. Illumination	0. 00Lux (48 IR LED ON)
S/N (Y signal)	50dB (Weight On)
Motion Detection	ON / OFF – 4 Zones
On Screen Display (O.S.D)	Built - in
PRIVACY Function	ON / OFF (4 Programmable Zone)
Operational Temperature	-29℃ ~ +50℃ (- 20℉ ~122℉)
Operational Humidity	30% ~90% RH

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DIMENSIONS

* FRONT VIEW

ø 66

146

* SIDE VIEW

92

ø130

15

WARRANTY

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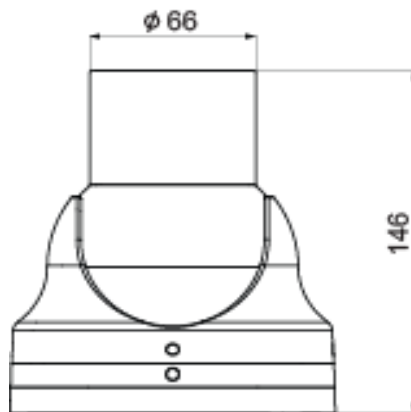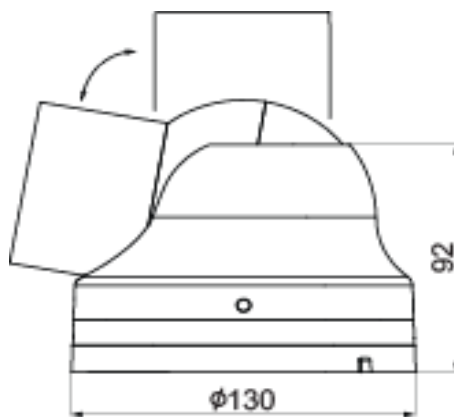
LIMITED WARRANTY

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:_____

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200 NEW HIGHWAY	SERVICE OR RETURN, CALL US
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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
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MEMO

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200 New Highway

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