PRODUCT TECHNICAL DATASHEET

INOX ®

Business - SERIES

COMPACT SIZE: 35mm x 35mm x 13mm

PRODUCT OVERVIEW
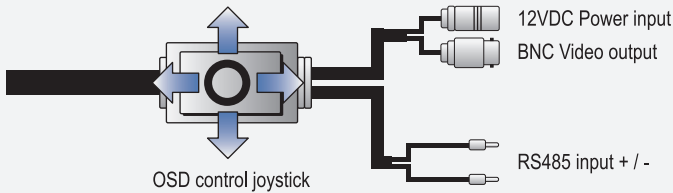
Model: **SSM7**
Hi-Resolution Color Miniature Camera

- 1/3" SONY Super HAD II
- 600 TV Lines
- Day: 1 Lux / Night: 0.001 Lux
- OSD menu setup
- RS485 remote OSD setup
- Color or B/W night view (selectable)
- 3.7mm HI-RES Pinhole Lens
- Extreme low power consumption (40mA only ± 10%)
- IP50

● FEATURES & FUNCTION

DWDR, 2D-DNR, OSD, RS485, MASK, AGC, LSC, HLC, ATW/Manual/AWB, Motion Notification, Shutter: Auto/Manual

SSII DIGITAL SIGNAL PROCESSOR **Inside**

OSD CONTROL JOYSTICK ON CABLE

12VDC Power input
BNC Video output

RS485 input + / -

OSD control joystick

MAIN OSD MENU FEATURES

●	DWDR	- Digital Wide Dynamic Range (On/Off)
●	2D-DNR	- 2D Digital Noise Reduction (On/Off)
●	OSD	- On Screen Display menu setup
●	RS485	- RS485 remote OSD setup
		● Selectable Protocol: Pelco-D/Pelco-P
		● Selectable Baud Rate: 2400 ~ 57600bps.
●	MASK	- Privacy Zone Masking (8 zones)
●	AGC	- Auto Gain Control (Auto/High/Medium/Low)
●	LSC	- Lens Shadow Correction (On/Off)
●	HLC	- Highlight Compensation (On/Off)
●	MOTION	- Motion Notification (Adjustable 4 zones)
●	MIRROR	- Horizontal video flip (On/Off)
●	BLC	- Backlight Compensation (On/Off)
●	DISPLAY	- Selectable display (CRT/LCD/USER)
●	BRIGHTNESS	- Adjustable video brightness
●	CONTRAST	- Adjustable video contrast
●	SHARPNESS	- Adjustable video sharpness
●	GAMMA	- Adjustable video gamma (LCD & USER only)

TECHNICAL SPECIFICATIONS

IMAGE SENSOR	- 1/3" SONY Super HAD CCD II
DIGITAL SIGNAL PROCESSOR	- SS-II Digital Signal Processor
VIDEO RESOLUTION	- 600 TV Lines
MINIMUM ILLUMINATION	- Day: 1 Lux / Night: 0.001 Lux (AGC high)
SYNC SYSTEM	- Internal
WHITE BALANCE	- ATW 1, ATW 2, AWC-Set, Manual
GAIN CONTROL	- Auto / High / Low / Medium
SCANNING SYSTEM	- 2:1 interface
S/N RATIO	- More than 48db
ELECTRONIC SHUTTER	- PAL: 1/50 ~ 1/100000 sec.
	- NTSC: 1/60 ~ 1/100000 sec.
GAMMA CORRECTION	- LCD mode: 0.45 / USER mode: 0.45, both programmable via OSD menu
IRIS	- AES
CAMERA LENS	- 3.7mm HI-RES fixed iris pinhole lens
VIDEO OUTPUT	- Composite 1.0Vp-p at 75 Ohms
OPERATION TEMPERATURE	- 5° C to 60° C
OPERATIONAL HUMIDITY	- Within 85% RH
POWER SUPPLY INPUT	- DC 12 volts
OPERATING CURRENT	- 40mA ± 10%
DIMENSIONS	- 35mm (W) x 35mm (H) x 13mm (L) (not including bracket & lens)
CASING CONSTRUCTION	- Aluminium die-cast body
CAMERA NETT WEIGHT	- Approx. 100 grams.

Authorised Dealer:

CE

SS II ™

HIGH RESOLUTION
DIGITAL SIGNAL PROCESSOR

INOX ®
security at a higher level

MOTION DETECT

DIGITAL WDR

MASK

0.001 LUX

OSD

VIVID COLOR

LSC

600 TV LINES

RS485

SS II

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600 TV Lines hi-resolution

With the built in SS-II DSP as its core technology, the camera delivers high resolution video images for professional users which requires identification video for their security surveillance purpose

420 TV Lines

SS-II 600 TV Lines

VIVID COLOR video

Produces true vivid color video for both day & night operation Perfect solution for verification & identification purpose when evidence is needed

Conventional DSP

SS-II DSP

DWDR Digital WDR

Clearer & more detail video images. DWDR eliminates dark shadow areas in the video screen produced by the camera. This function are extremely useful for installation scenes that contain both bright & dark areas

Without DWDR or Off

SS-II DWDR On

0.001 lux low illumination

Excellent low lighting capabilities. Cameras with built in SS-II DSP continues to produce bright & clear video quality even in low lighting installation areas.
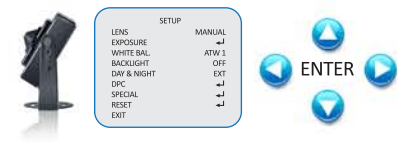

Conventional DSP - Color Mode at night with minimal lights

SS-II - Color Mode night scene with minimal lights

OSD menu setup

Each & every camera installation area have different lighting conditions with other various factors that will cause the camera not to produce the best video quality wanted. To get the most perfect & required video quality, users are capable to adjust video settings & features of the camera accordingly to the installation area with the built in OSD menu setup function

```
                    SETUP
LENS                MANUAL
EXPOSURE                ↵
WHITE BAL.          ATW 1
BACKLIGHT           OFF
DAY & NIGHT         EXT
DPC                    ↵
SPECIAL                ↵
RESET                  ↵
EXIT
```
ENTER

MOTION notification

Supports 4X programmable motion zones in the video screen to detect motion movements. Extremely useful function to alert users for intruders in the restricted zones when monitoring multiple camera screens at the same time
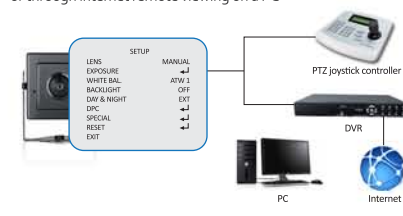

Motion Detection OFF

Motion Detection ON

RS485 remote OSD setup

Built in with RS485 data communication input for remote OSD menu setup at the command centre via DVR, Joystick controller or through internet remote viewing on a PC

```
                SETUP
LENS            MANUAL
EXPOSURE            ↵
WHITE BAL.      ATW 1
BACKLIGHT       OFF
DAY & NIGHT     EXT
DPC                ↵
SPECIAL            ↵
RESET              ↵
EXIT
```

PTZ joystick controller

DVR

PC

Internet

LSC lens shadow correction

Correction of shadow effect caused by certain camera lens at the 4 corners of the video image. Value of the correction can be set accordingly to requirement through the camera OSD menu setup

Other DSP without LSC

SS-II DSP with LSC On

DNR Digital Noise Reduction

Reduce video noise during low lighting / night scenes. Cameras with DNR function produces lesser noise on the video compare with conventional DSP without DNR function

Other DSP without DNR

SS-II DSP with DNR