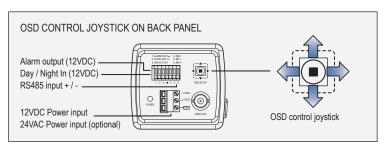
# INDX®







#### MAIN OSD MENU FEATURES

- iWDR
- 3D-DNR
- OSD
- RS485
- iN-MO
- MASK
- **ECLIPSE**
- D.I.S
- VIDEO SENS-UP
- BLC
- D.ZOOM
- iLPR
- MIRROR A.V.P

- Intelligent Wide Dynamic Range (On/Off)
- 3D Digital Noise Reduction (On/Off)
- On Screen Display menu setup
- RS485 remote OSD menu setup
- Protocol: Pelco D
- Selectable Baud Rate: 4800 ~ 57600bps.
- Intelligent Area Motion Notification (8 areas)
- Privacy Zone Masking (8 areas)
- Highlight Compensation Filter (8 zones)
- Digital Image Stabilizer (On/Off)
- Auto: x1 ~ x128 / Fix: x2, x4, x8....x512
- Backlight Compensation (On/Off)
- Digital Zoom with Pan / Tilt function
- Intelligent License Plate Recognition with separate individual shutter speed selection for day & night (On/Off)
- Support horizontal & vertical video flip
- Adjustable Video Parameters
- Programmable video Sharpness, Brightness, Contrast, Hue, Color Level, Red & Blue gain

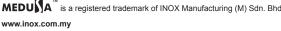
Manufactured by;

#### **INOX SECURITY PTY. LTD.**

- Canada (Incorporation No. BC 0722077)

#### INOX MANUFACTURING (M) SDN. BHD.

**MEDU \ A** <sup>™</sup> is a registered trademark of INOX Manufacturing (M) Sdn. Bhd.





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#### PRODUCT OVERVIEW

Model: M80 / M85 (IR READY)

Ultra Fine Resolution Color Box Camera

- 1/3" SONY Super HAD II
- 650 TV Lines
- Color: 0.0003 Lux / B/W: 0.00003 Lux
- iWDR Wide Dynamic Range
- OSD menu setup
- RS485 remote OSD menu setup
- Color or B/W night view (selectable)
- IR Ready (M85)
- Support Manual & Auto Iris camera lens
- IP50

#### FEATURES & FUNCTION

iWDR, 3D-DNR, OSD, RS485, iN-MO, MASK, ECLIPSE, D.I.S, VIDEO SENS-UP, BLC. D.ZOOM, iLPR, MIRROR, A.V.P



#### **TECHNICAL SPECIFICATIONS**

IMAGE DEVICE HORIZONTAL RESOLUTION

MINIMUM ILLUMINATION

SCANNING FREQUENCY SYNC SYSTEM

SIGNAL-TO-NOISE RATIO

IR READY

OSD iWDR

iN-MO MASK

VIDEO SENS-UP DAY/NIGHT MODE

VIDEO OUTPUT PARAMETERS

OSD CAMERA NAME DISPLAY

BLC

IMAGE FREEZE FUNCTION

DIGITAL ZOOM WHITE BALANCE

ELECTRONIC SHUTTER

AGC

VOLTAGE INPUT POWER CONSUMPTION OPERATING TEMPERATURE OPERATING HUMIDITY

CASING CONSTRUCTION

IP RATING **DIMENSIONS** 

- 1/3" SONY Super HAD II - 650 TV lines
- Color: 0.0003 Lux (Sens-Up Auto, F1.2) / 0.1 Lux (Sens-Up Off)
- B/W: 0.00003 Lux (Sens-Up Auto, F1.2) / 0.001 Lux (Sens-Up Off) - PAL: 15.625KHz(H) / 50Hz(V) NTSC: 15.734KHz(H) / 59.94KHz(V)
- More than 52dB (AGC Off)
- M80 (N/A), M85 (Yes)
- Yes 5 languages: English, Chinese, French, Russian, Spanish
- Yes selectable iWDR level, Low / Medium / High / Super
- 8 areas adjustable area height, width,
- position and sensitivity level
- 8 zones adjustable area height, width,
- position and with 8 color selection
- Auto: x1 ~ x128 / Fix: x2, x4, x8....x512
- Yes selectable Auto / Color / B/W
- Programmable Sharpness, Brightness, Contrast,
- Hue, Color level, Red Gain & Blue gain
- Yes 16 digit / selectable On/Off
- Yes selectable Low / Medium / High level
- Yes via OSD control
- Yes with digital pan/tilt function
- Selectable: ATW / Color-Roll / Push Auto / Manual - Selectable: Auto / A.FLK / Manual - PAL: 1/50s ~ 1/90.000s
- NTSC: 1/60s ~ 1/90.000s
- Yes selectable Auto / Low / Medium / High / Off
- DC 12 volts / 24 VAC (optional)
- 125mA ± 5% (without lens) - 0°C ~ 50°C
- Within 80% RH (non-condensing)
- Aluminium die-cast front & back cover
- Extruded aluminium center body - IP50
- 64mm (W) x 64mm (H) x 100mm (L) (body only)

Authorised Dealer:



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#### INTRODUCING...

# MEDUNA

#### STATE OF THE ART - DIGITAL SIGNAL PROCESSOR

The main core technology behind all IN□X® PRO-Series surveillance cameras. This unique and powerful MEDUSA DSP is the main engine that brings out the performance of those cameras

The DSP are rich in outstanding features such as 650 TV lines of video resolution, Intelligent Wide Dynamic Range (iWDR), Advanced 3D-Digital Noise Reduction (3D-DNR) for reducing recording storage requirements up to 98% due to unwanted noise causing motion recording, Low light capabilities of up to 0.00003 Lux, Motion Detection, Digital Image Stabilizer (DIS), Privacy Zone Masking, Highlight Compensation filter (Eclipse), Adjustable Video Parameters (A.V.P) for acurate video color & brightness, Back Light Compensation (BLC), Digital Zoom and Horizontal or Vertical Mirror image flip

In addition, all these features are programmable with the On Screen Display menus (OSD) in the camera itself or can be remotely setup through RS485 from the command center via DVR or joystick controller



### 650 TV Lines fine resolution

INOX Pro-series cameras with built in Medusa DSP delivers 650TV lines of ultra fine resolution video images for professional users which demands superior video image quality for identification purposes





420 TV Lines

Medusa - 650 TV Lines

# 3D-DNR Digital Noise Reduction

With the 3D-DNR function, video images produced by the MEDUSA DSP are significantly lesser noise with clearer images compared with the older 2D-DNR feature and conventional DSP without DNR feature

RS485 remote OSD menu setup

Built in with RS485 data communication input for remote OSD menu setup at the command center via DVR, Joystick controller or through





Without DNR - video noise

internet on a PC

Medusa 3D-DNR - less noise

# Motion detected

A.V.P Adjustable video parameters Adjustable video brightness, sharpness, contrast, color level, hue, blue & red gain accordingly to the installation area environment. A.V.P function are most useful for professional users who demands perfect video quality





ECLIPSE highlight compensation

Useful feature for users to identify clearer license plate at the incoming

vehicle when strong headlamps are being ON during the night. Eclipse

are selectable to only activate during night with 4x pre-programmable

Without Eclipse

(Glaring license plate)

## **iLPR** License Plate Recognition

Feature for capturing fast moving objects or vehicle without blurring effect during video playback. Furthermore, shutter speed for both day & night are selectable individually for maximum result (example: Day- 1/1600 • Night-1/1000) Recommanded Model: M85





Without iLPR feature (TRUE IMAGE) (Playback / Car speed at approx 70km/h) (Playback / Car speed at approx 70km/h)



### 0.00003 lux low illumination

Continues to deliver excellent video quality in COLOR MODE even in extreme low lighting scenes. Thanks to our MEDUSA DSP with it's extreme low-lux capabilities that makes INOX Pro-series CCTV cameras one of the most impressive surveillance cameras in the CCTV industry





# iN-MO Intelligent motion alert

MEDUSA DSP supports 8x programmable motion preset area in the camera point of view to detect motion movements. When motion are detected in the preset area, the camera will automatically highlight the  $\,$ 



preset area to notifiy and alert users that movement has been detected. Furthermore, motion preset area are programmable with sensitivity level accordingly to the installation environment. This function is extremely useful to alert users for intruders in the restricted zones when monitoring multiple screens at the same time

# D.I.S Digital Image Stabilizer

Without iWDR (TRUE IMAGE)

OSD menu setup

setup function

Camera installations on high mounting pole often causes video to be shaky or blurring effect due to high winds or ground movements. With D.I.S technology, these situations are greatly reduced or totally solved

**INTERIOR INTERIOR (Wide Dynamic Range)** 

Detail video on the inside & outside, a true solution for situations where there are bright & dark areas or under strong backlighting

circumstances in the camera point of view. Most suitable for areas

which have big glass windows or where light enters from various angles

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





With Medusa - iWDR (TRUE IMAGE)

ENTER

#### MASK Privacy zone masking When privacy is needed, users are capable to set up to 8x privacy zones to block specific areas in the video. Privacy zones masking size, position

& color can be set accordingly to the users requirement via OSD





Masking - Off

Masking - Or

Medusa Eclipse ON