

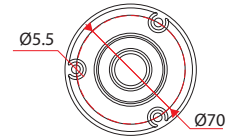
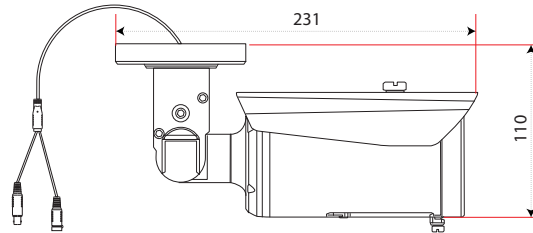
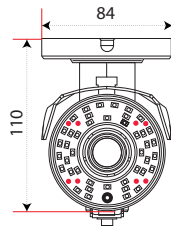
HDMBIR120 / HDMBIR120W 4-in-1, Full HD 1080p Outdoor Bullet Cameras

HD-ANALOG ★
Northern

Semi Autofocus 2.8 ~ 12mm Lens, 120' IR Ranges

PRODUCT FEATURES

- Multi Format (TVI, CVI, AHD, 960H)
- Semi-Autofocus 2.8 ~ 12mm Lens
- Full HD 1080p Resolution
- 42 IR LED's / 120' IR Range
- Easy Access OSD Hatch
- Video Test Output & Cable
- True Day/Night Mechanical IR Cut Filter
- Digital Wide Dynamic Range
- Cable Management Mount
- Sense-up / Slow Shutter Speed
- UTC & Joystick Controllable OSD
- 12 Volt DC Power
- 3D Digital Noise Reduction
- 1/2.9" Sony CMOS Sensor
- IP66 Weatherproof



CAMERA DIMENSIONS / LINE ART

CAMERA COMPONENT DESCRIPTIONS



SPECIFICATIONS

| Model No. | HDMBIR120 | HDMBIR120W |
|-------------------------------------|--|------------|
| Image Sensor | 1/2.9" CMOS Sensor | |
| Total Pixels | 1984 x 1225 | |
| Active Pixels | 1920 x 1080 | |
| Resolution | 1920 x 1080 (1080p) | |
| Scanning System | Progressive Scan | |
| OSD (On Screen Display) | Dual OSD Access: Built in Joystick Controlled / UTC Controlled (coaxial control) | |
| Digital WDR (Wide Dynamic Range) | Auto / Off / On - 0 ~ 8 Adjustable | |
| DNR (Digital Noise Reduction) | 2D & 3D, Low, Middle, High, Off | |
| Video Output | TVI, CVI, AHD & 960H (Selectable via Dipswitch) | |
| Lens Type / Viewing Angle | TDN Semi Auto-Focus 2.8 ~ 12mm Lens / 28° ~ 90° | |
| Sense-up | Off / Auto (x2 ~ x30 Selectable) | |
| Shutter Speed | Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30 | |
| IR Cut Filter | Built in Mechanical | |
| Minimum Illumination | Color 0.1 Lux, B/W 0.05 Lux, IR LED ON 0.0 Lux | |
| IR LED Count / Range | 42 IR LED's / 120' Range / 850nm | |
| S/N Ratio | More than 52dB | |
| Automatic Gain Control | 0 ~ 15 Adjustable | |
| Sync System | Internal | |
| Gamma Characteristics | γ = 0.45 typ | |
| White Balance | AWB / ATW / AWC -> Set / Indoor / Outdoor / Manual | |
| Back Light Compensation | Off / BLC / HSBLC | |
| HBLC (High Back Light Compensation) | On / Off | |
| Day/Night | EXT / Auto / Color / B/W | |
| Mirror | Mirror / V-Flip / Rotate / Off | |
| Languages | English, French, Spanish, German, Italian (see OSD Menu for more) | |
| Brightness | 0 ~ 100 Adjustable | |
| Motion Detection | On/Off (4 Zone Selectable) | |
| Privacy Mask | On/Off (4 Zone Selectable) | |
| Power Input | 12VDC Only | |
| Power Requirement | 150mA / 600mA IR LED ON | |
| Overall Camera Dimensions | 9.1" x 3.3" x 4.3" (231mm x 84mm x 110mm) | |
| Housing / Color | Gray | White |
| Weight | 1.6lb | |
| Operating Temperature | -14°F ~ 122°F | |
| Weatherproof Rating | IP66 | |

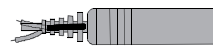
* All specifications subject to change without notice for quality improvement

CAMERA CABLE CONNECTION

Insert power lead into power connector:
be sure proper voltage is supplied and observe polarity.

Insert video lead into BNC connector:
push, then twist to lock BNC connector in place.

Power Input



Center : (+)

Video Input



OSD CONTROL

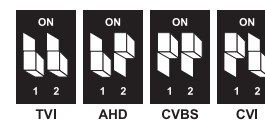
Press Up/Down to Zoom In/Out

Press Left/Right for Fine Focusing

Press in on the OSD button to access the OSD menu and sub-menus

While in the OSD menu - press up, down, left and right to navigate/change OSD settings

FORMAT SELECTOR SWITCH



PACKAGE CONTENTS

Mounting Hardware Packet, L-Style Wrench, Mounting Template

HDMBIR120 / HDMBIR120W 4-in-1, Full HD 1080p Outdoor Bullet Cameras

Semi Autofocus 2.8 ~ 12mm Lens, 120' IR Ranges

LENS ADJUSTMENT

(1) Loosen Screw on the OSD Panel at the bottom of Housing.

(2) Open OSD Panel.

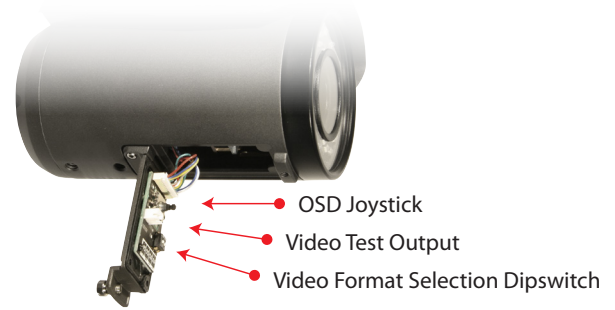
(3) Press U/D for Zoom In/Out.

Move to Desired Zoom Level & Stop Pressing Joystick—
The Lens Will Focus Automatically.

If Image is blurred, se L/R to Fine Focus or
Press U/D again to AutoFocus.

❖ Lens Adjustment Can Also Be Performed via UTC Enabled DVR.

LENS & IR ADJUSTMENT ACCESS



OSD MENU TREE

MAIN MENU

1. LENS

2. EXPOSURE

3. BACKLIGHT

4. WHITE BAL

5. DAY&NIGHT

6. NR

7. SPECIAL

8. ADJUST

9. AF

10. EXIT

DC

OFF

ATW

EXT

SAVE&END

1. LENS

2. EXPOSURE

3. BACKLIGHT

4. WHITE BAL

5. DAY&NIGHT

6. NR

7. SPECIAL

8. ADJUST

9. AF

10. EXIT

MANUAL/DC#

#

OFF/BLC#/HSBLC#

ATW/AWB/AWC-SET/INDOOR/OUTDOOR/
MANUAL#

AUTO#/COLOR/B/W#/EXT#

#

#

#

SAVE&END#/RESET#/NOT SAVE#

LENS

DC LENS MODE

1. MODE

2. IRIS SPEED

3. RETURN

INDOOR

8

RET

1. MODE

2. IRIS SPEED

3. RETURN

INDOOR/OUTDOOR#

0-15

RET#

EXPOSURE

EXPOSURE

1. SHUTTER

2. AGC

3. SENS-UP

4. BRIGHTNESS

5. D-WDR

6. DEFOG

7. RETURN

AUTO

7

AUTO

56

OFF

OFF

RET

1. SHUTTER

2. AGC

3. SENS-UP

4. BRIGHTNESS

5. D-WDR

6. DEFOG

7. RETURN

AUTO/ 1/30 / 1/60 / FLK / 1/240 / 1/480 /
1/1000 / 1/2000 / 1/5000 / 1/10000 / 1/50000 /
X2 / X4 / X6 / X8 / X10 / X15 / X20 / X25 / X30

0-15

AUTO#

1-100

OFF/AUTO/ON#

OFF/AUTO#

RET#

DEFOG

1. POS/SIZE

2. GRADATION

3. DEFAULT

4. RETURN

0

RET

1. POS/SIZE

2. GRADATION

3. DEFAULT

4. RETURN

POSITION/SIZE/RET AGAIN

0-2

#

RET#

BACKLIGHT

BLC

1. LEVEL

2. AREA

3. DEFAULT

4. RETURN

MIDDLE

RET

1. LEVEL

2. AREA

3. DEFAULT

4. RETURN

MIDDLE/LOW/HIGH

POSITION/SIZE/RET AGAIN

#

RET#

DAY&NIGHT

B/W

1. BURST

2. IR SMART

3. RETURN

OFF

OFF

RET

1. BURST

2. IR SMART

3. RETURN

OFF/ON

OFF/ON#

RET#

D&N AUTO

1. D--N (AGC)

2. D--N (DELAY)

3. N--D (AGC)

4. N--D (DELAY)

5. RETURN

18

58

6

45

RET

1. D--N (AGC)

2. D--N (DELAY)

3. N--D (AGC)

4. N--D (DELAY)

5. RETURN

1-255

0-60

1-255

0-60

RET#

NR

NR

1. 2DNR

2. 3DNR

3. RETURN

MIDDLE

MIDDLE

RET

1. 2DNR

2. 3DNR

3. RETURN

HIGH/MIDDLE/LOW/OFF

HIGH/MIDDLE/LOW/OFF

RET#

SPECIAL

SPECIAL

1. CAM TITLE

2. D-EFFECT

3. MOTION

4. PRIVACY

5. LANGUAGE

6. DEFECT

7. RS485

8. RETURN

ON

OFF

OFF

ENG

RET

1. CAM TITLE

2. D-EFFECT

3. MOTION

4. PRIVACY

5. LANGUAGE

6. DEFECT

7. RS485

8. RETURN

OFF/ON#

FREEZE/MIRROR/NEG.IMAGE/RETURN

OFF/ON#

OFF/ON#

ENG#/CHN1#/CHN2#/GER#/FRA#/ITA#/SPA#
POL#/RUS#/POR#/NED#/TUR#/KOR#/JPN#/
HEB#/ARB#

#

#

RET#

D-EFFECT

1. FREEZE

2. MIRROR

3. NEG. IMAGE

4. RETURN

ON

OFF

OFF

RET

1. FREEZE

2. MIRROR

3. NEG. IMAGE

4. RETURN

OFF/ON

OFF/MIRROR/V-FLIP/ROTATE

OFF/ON

RET#

DEFECT

1. LIVE DPC

2. WHITE DPC

3. BLACK DPC

4. RETURN

ON

ON

ON

RET

1. LIVE DPC

2. WHITE DPC

3. BLACK DPC

4. RETURN

OFF/ON

OFF/MIRROR/V-FLIP/ROTATE

OFF/ON

RET#

ADJUST

ADJUST

1. SHARPNESS

2. MONITOR

3. LSC

4. VIDEO OUT

5. RETURN

AUTO

LCD

ON

PAL

RET

1. SHARPNESS

2. MONITOR

3. LSC

4. VIDEO OUT

5. RETURN

OFF/AUTO#

LCD#/CRT#

OFF/ON

NISC/PAL

RET#

AF

AF

1. AF MODE

2. ONE SHOT AF

3. TDN AF

4. LENS INIT

5. RETURN

SEMI

ON

RET

1. AF MODE

2. ONE SHOT AF

3. TDN AF

4. LENS INIT

5. RETURN

SEMI/AUTO/MANUAL

#

OFF/ON

#

RET#

EXIT

EXIT

1. EXIT

RESET

1. EXIT

SAVE&END#/RESET#/NOT SAVE#