



Camera Installation and Connection

Installation

Choose an appropriate bracket from the two included (Short or Long).

To change the bracket, remove the screws on each side of the camera, remove the current installed bracket and then replace it with a new version. Reinstall the attaching screws to secure the bracket to the camera.

For specific locations, there are two extended arms which will allow the camera to be positioned forward.

- 1. Remove the bracket by loosening the securing screws and axis screws on both sides.
- Place the two extended arms and secure the supplied axis screws to the camera. Then set the positioning screws back onto the camera. Note: slightly tighten the axis screw and make sure the
- Note: slightly tighten the axis screw and make sure the extended arms are still rotatable.
- 3. Use the axis screws to install the bracket onto the extended arms and then secure the positioning screws. Adjust the position required and tighten the positioning screws so as to fix the camera to the desired view angle.

Note: Some installations require the bracket to be installed in the ATM machine before attaching to the camera.

In the accessory bag you have securing screws or thumb knobs that can be used to secure the camera. Choose which works best for the installation. Once the camera is mounted and positioned, secure the camera by tightening screws.

Connection

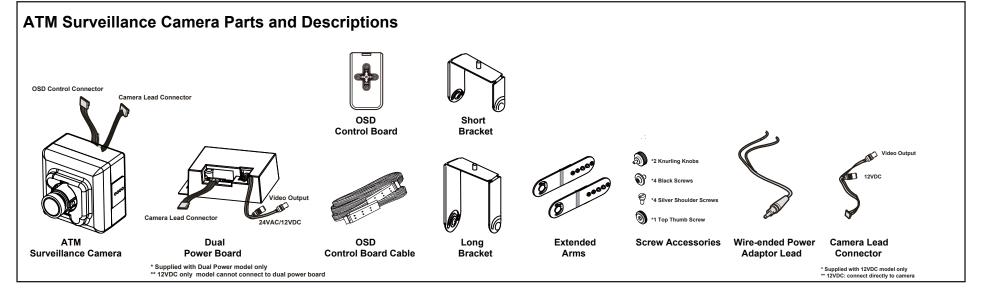
Dual Voltage Version

Mount dual power board in desired location then attach the camera lead. Next use the wire ended barrel plug to attach the appropriate power source and plug into the mating connector coming off the dual power board. Attach video cable and installation is complete.

12VDC Version

Attach the camera lead then use the wire ended barrel plug to attach the appropriate power source and plug into the mating connector in the wire harness. Attach video cable and installation is complete.

Make sure power is off before any connection is made.



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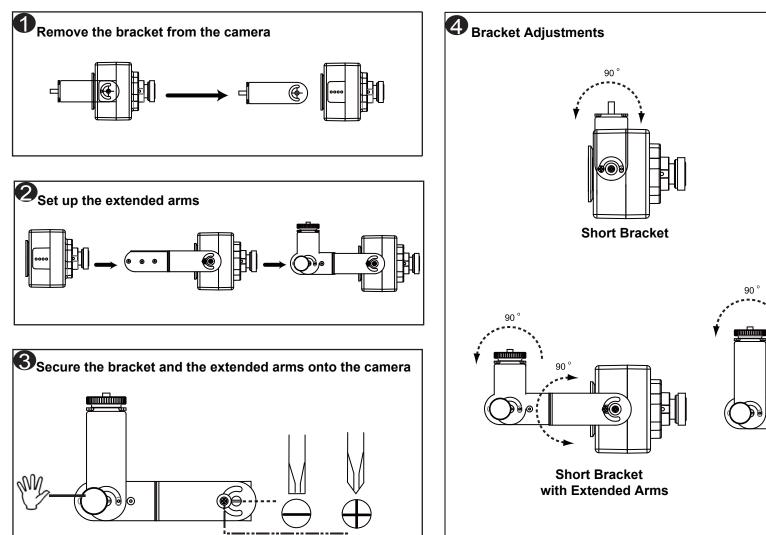
Long Bracket

Long Bracket

with Extended Arms

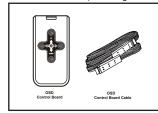
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Installation

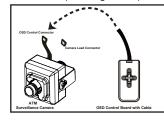


The OSD Control Board and Programming

Connect the OSD Control Board Cable to the OSD Control Board (see image below)

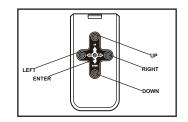


Connect the OSD Control Board to the Camera (see image below)



With power applied to the camera and a video monitor connected, press and hold the [ENTER] key for three seconds to access the OSD top level menu. A map of the setup menu options will be shown as the right of this sheet presented.

To navigate through the menus, use the arrow keys on the control board and use the [ENTER] key to select the menu field desired.



IMPORTANT:

When any changes made to the camera configuration, use the "SAVE SETTINGS" option in the "SAVE/RESTORE" menu to save. Otherwise any changes made will be lost when the camera is next reset or has its power cycled.

Control Menu Map

| | - |
|---|--|
| | on the control board for three seconds to view the menu. |
| PAGE1 SCENE SELECT ····· FULL AUTO···· | SHUTTER / AUTO |
| INDOOR | AGC AGC MAX 6.0DB ~ 44.8DB SENS UP AUTO / OFF |
| BACKLIGHT ITS CUSTOM | MANUAL SHUTTER 256ELD ~ 1/10000 |
| CUSTOM | AGC MAX 6.0DB ~ 44.8DB |
| | AGC MAX |
| | WHITE BAL ATW (*1) DELAY CNT 001 ~ 255 WHITE BAL ATW (*1) DELAY CNT 001 ~ 255 PUSH ENVIRONMENT INDOOR / SUNNY / SHADE / AUTO |
| | ATW FRAME 001~255 |
| | PUSH SOURCENTRONMENT SUNNY/SHADE/AUTO |
| | USER1 RGAIN |
| | BGAIN 000 ~ 255 USER2 RGAIN 000 ~ 255 |
| | BGAIN 000 ~ 255 |
| | ···· MANUAL ······ LEVEL ···· 00 ~ 63 |
| | PUSH LOCK |
| | • HLC/BLC OFF HLC CLIP LEVEL 000 ~ 255 BLC(*2) |
| | |
| | ATR-EX(*3) ATR-EX CONTRACT LOW / MID / HIGH / OFF |
| | WDR CONTRAST LOW /MID / HIGH |
| | CLEAR FACE OFF / LOW / MID / HIGH DNR LEVEL |
| | DAY/NIGHT DAY NIGHT BURST ON/OFF |
| | NIGHTONVOFF |
| | AUTO OTTL SIGNALINT/EXT1/EXT2 DELAY_CNT |
| | DELAY CNT DAY->NIGHT |
| | Second Se |
| | IR OPTIMZER OFF |
| | ON , MODE AUTO CENTER |
| | IR AREA |
| | BOTTOM 0~ 6 |
| | |
| | ••• WEIGHT ••••• 00~ 15 |
| | |
| | IR LED OFF FIXLEVEL 000 ~ 255 |
| | DAY/NIGHT LEVEL MIN 001 ~ 255 |
| | LEVEL MAX 001 ~ 255 |
| | COLOR NIGHT OFF |
| | •• ON COLOR GAIN ······· LOW / MID / HIGH |
| | IR SHADE COMP OFF OFF ON SET1 / SET2 / SET3 |
| | POSH 000 ~ 959 |
| | POSV 000~490 LEVEL 0FF / LOW / MID / HIG |
| | LENS SHD COMP OFF |
| | ••• ON_r••• PATTERN •••• SET1 / SET2 / SET3 •• POSH •••• 000 ~• 959 •• POSV ••••••• 000 ~~ 490 |
| | DEFOG(*5) OFF |
| | ON LEVEL LOW / MID / HIGH |
| | FLK LESS OFF |
| | AUTO MODE GAIN CNTL SHUTTER FIX |
| | ON MODE GAIN CNTL SHUTTER FIX |
| | ANTI CR AUTO/OFF/ON |
| PICT ADJUST | HTNESS |
| CON SHAF | TRAST |
| HUE | PINESS |
| COLC | |
| DIS ON/C |)FF |
| EZOOM OFF | ···· MAG/PAN/TILT |
| PRIVACY MASK AREA DISPL | SEL 1~15 |
| POSI | |
| COLC | WHITE / BLACK / RED /GREEN / BLUE / YELLOW / CYAN / MAGENTA |
| TRAN | ISP 0.00 / 0.50 / 0.75 / 1.00 |
| | AIC OFF / ON |
| VIOTION DET ····· OFF | DETECT SENSE |
| 0.12 | BLOCK DISP |
| | MASK AREA AREA SEL 1~4 |
| | MODE TOP |
| | BOTTOM |
| | RIGHT |
| SYS SETTING ······ SYN | NC MODE ······ INT/LL(*6) IS ······· MANUAL |
| | AUTO |
| | MODE |
| | ADJUST SPEED |
| ···· FLI | P OFF/V/H/VH |
| | MMNUNICATION PROTOCOL |
| | ADDRESS BAUDRATE |
| | DATABIT |
| | PARITY STOPBIT |
| :XIT_ | MERA ID ···· OFF ··· ON_ ···POS |
| | |
| AGE2 ANGUAGE ····· ENGLISH/中文/E | SPANOL/PORTUGUES/PYCCKNN/FRANCAIS/DEUTSCH/日本語 |
| ERSION | |
| IAINTENANCE | ASKMANUALREGISTRATION |
| CAMERA | CURSOR COLOR |
| | BLINK REG.NUMBER |
| XIT, SAVE NOT SAVE CANCEL | AUTO RUN BACK |
| CANCEL | DATA CLEAR |

Menu Description

| SET | UP MENU | | | | | |
|---|---|--|--|--|--|--|
| | | T – The six modes can be selected. | | | | |
| 00 | CUSTOM | This mode turns off the auto scene recognition. All functions canbe set and | | | | |
| | adjusted manually | | | | | |
| | | | | | | |
| | FULL AUTO | This mode supports various shooting scenes. It is not specialized to any particular scene, so it allows average shooting in any situation. | | | | |
| | INDOOR | This mode is specialized to indoor scenes, such as indoor shop surveillance. It allows natural shooting with high contrast. | | | | |
| | OUTDOOR | This mode is specialized to outdoor scenes, Such as outdoor plaza surveillance. It allows natural shooting with high contrast. | | | | |
| | BACKLIGH | T – This mode is specialized to scenes that mix indoor and outdoor conditions, such as entranceway surveillance. | | | | |
| | ITS | Monitoring and optimizing model of road. | | | | |
| | 110 | wontoning and optimizing model of road. | | | | |
| | | | | | | |
| PIC | CT ADJUST | This Camera system provide functions that enable users to easily adjust the | | | | |
| | | image quality to suit the image output device used. | | | | |
| | | Adjusts the brightness. | | | | |
| | Contrast | Adjusts the image contrast (light and shade differences). | | | | |
| | Hue | Adjusts the sharpness. Adjusts the hue. | | | | |
| | | – Adjust the color gain. | | | | |
| E7 | | | | | | |
| EZ | , | st the digital zoom | | | | |
| | EZoom MAG | - ON / OFF. | | | | |
| | PAN | Magnification rate = ZOOM (0~255) Horizontal position settings. | | | | |
| | TILT | - Vertical position settings. | | | | |
| DIS | | age Stabilizer. | | | | |
| | 0 | K – The mask function hides one or more areas which the user does not want | | | | |
| FN | AREA SEL | to be displayed on the screen. | | | | |
| | | | | | | |
| | DISPLAY | – Mask to ON or OFF. | | | | |
| | POSITION | Privacy regional choice | | | | |
| | COLOR | – Sets the color blend: RED/ GREEN/ BLUE/ YELLOW/ CYAN/ MAGENTA/ | | | | |
| | | WHITE/ BLACK | | | | |
| | TRANSP | Sets the brightness blend ratio: 0%, /50%/75%/100% | | | | |
| | MOSAIC | Open or close the mosaic function | | | | |
| мот | ION DET | By using the motion detection function, it is possible to create surveillance cameras which are capable of detecting moving objects. | | | | |
| | DETECT SE | ENSE – Select mask area (1-15). | | | | |
| | INTERVAL | Sets the MD detection interval. Subjects are detected when an interval | | | | |
| | | exceeding the set number of fields has elapsed from the previous motion | | | | |
| | | detection. | | | | |
| | BLOCK DIS | SP – Motion detection result frame display selection. | | | | |
| | | Outputs the results of the motion detected in each block. | | | | |
| | | A – MD (Motion Detection) setting menu, for setting the no-detection area. AREA – Sets the position of the monitoring frames in pixel or line increments. | | | | |
| SYS | S SETTING | | | | | |
| | SYNC MOD | DE – External synchronization is a function with synchronization of the phase | | | | |
| | | between an output video signal and an external reference signal. Use line | | | | |
| | | lock mode to minimize color rolling. | | | | |
| | LENS | - Set the lens type. | | | | |
| | FLIP – Select digital Flip / Rotate state Off / V(Top / bottom reversal) / H(Left / right reversal) | | | | | |
| / HV(Rotation by 180 degrees) LCD / CRT – Set the monitor type LCD or CRT. | | | | | | |
| | | CATION (OPTION) – Sets the position of the monitoring frames in pixel or | | | | |
| | SOMMONIC | line increments | | | | |

COMMUNICATION (OPTION) - Sets the position line increments. CAMERA ID - Sets the camera ID to ON or OFF.

EXIT-MENU SAVE

- Save the settings (settings are saved). NOT SAVE – Exit menu without saving. CANCEL – Changes (restore settings to those selected when the menu was displayed).

BACK - Return to previous menu.

RETURN – Return to page on the hierarchical level immediately before. LANGUAGE – LANGUAGE select between: English, ChineseSpanish, Russian, Portuguese, German, French, Japanese.

VERSION Version Display

MAINTENANCE – Equipment maintenance

W.PIX MASK - W.PIX Repair set

CAMERA RESET - Reset the camera

Note *1 This can not be changed from ATW except CUSTOM mode . *2 BLC can be selected on CUSTOM mode. *3 This can not be changed except CUSTOM mode. *4 This is MID on FULL AUTO, OUTDOOR and ITS mode, LOW on INDOOR mode, HIGH on BACKLIGHT mode. *5 This can not be changed except CUSTOM mode. *6 The default SYNC Mode is set as INT. The SYNC Mode can be selected as LL on OSD menu but the actual mode is INT when the power is DCI2V. This is be schemest adjustment escreence.

This item has subsequent adjustment screens

General Specifications

| General Speci | licatio | ns | | | | |
|-------------------------------|----------|-------------------------------------|--|--|--|--|
| TV System | | | NTSC | PAL | | |
| Image Sensor | | Sony 1/3" Super HAD-II Wide Dynamic | | | | |
| Effective Picture |) | | 976(H) x 494(V) | 976(H) x 582(V) | | |
| Scanning Frequ | ency | | 60Hz | 50Hz | | |
| Resolution | | | 700 TVL | | | |
| Minimum Illumination | | | 0.3Lux(F1.2,50IRE,AGC ON) | | | |
| S/N Ratio | | 50dB (100 IRE, F1.2) | | | | |
| Video Output | | | Composite (75 Ω BNC unbalanced connector) | | | |
| Input Terminal | | | DC Jack with fly lead attached | | | |
| Power Source | | | 12 VDC ±10% / 24 VAC ±20% | | | |
| Power Consumption | | | 2.2W Max. | | | |
| Operating Temperature | | | -10°C ~ +50°C | | | |
| Storage Tempera | ature | | -20°C ~ +60°C | | | |
| Functional Sp | ecifica | tions | | | | |
| Sense Up | | | ON / OFF | | | |
| 0 | AE | s | NTSC: 1/60 ~ 1/100000 | PAL: 1/50 ~ 1/100000 | | |
| Shutter Speed | МЕ | S | 1/50 (1/60), 1/120 (1/100) |), 1/250, 1/500, 1/1K, 1/2K, 1/4K, 1/10K | | |
| Wide Dynamic F | Range (V | VDR) | OFF/ATR-EX/WDR | | | |
| High-Light Compensation (HLC) | | | ON/OFF | | | |
| Backlight Compensation (BLC) | | | Full Range | | | |
| AGC Gain Control | | | 44.8 dB | | | |
| Day/Night | | | SDN(AUTO ,COLOR ,NIGHT) | | | |
| White Balance Control | | | ATW / Manual / Push / Push Lock / USER1,2 | | | |
| Auto White Balance Range | | | Indoor: 1800K~10500K Outdoor: 6500K~10500K | | | |
| Mirror | | | OFF/V-FLIP/H-FLIP/HV-FLIP | | | |
| Defog | | | ON/OFF | | | |
| Sync System | | | INT /LL | | | |
| Motion Detection | | | 4 Areas | | | |
| Privacy Zone | | | Up to 15 Masks | | | |
| Digital Noise Reduction | | | 3D DNR | | | |
| Digital Zoom | | | 255X Max | | | |
| DIS | | | ON/OFF | | | |
| | | | | | | |

Lens Specifications

| Focal Length | 2.8mm | 2.5mm |
|----------------------------|-------------|--------|
| F-No. | F1.8 | F2.5 |
| Iris Range | Fixed Range | |
| Diagonal | 128.0° | 142.7° |
| Angle Of View : Horizontal | 98.0° | 113.4° |
| Vertical | 81.5° | 85.9° |

Regulatory Compliance

Emissions:

Immunity





FCC COMPLIANCE:

This equipment complies with Part 15 of the FCC rules for intentional radiators and Class B digital devices when installed and used in accordance with the instruction manual. Following these rules provides reasonable protection against harmful interference from equipment operated in a commercial area. This equipment should not be installed in a residential area as it can radiate radio frequency energy that could interfere with radio communications, a situation the user would have to fix at their own expense.

CISPR 22 WARNING:

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

POWER SUPPLY REQUIREMENTS:

For use with listed Audio/Video Product and only connected to 15W or less power supply. Power supply should be a NEC Class 2 / LPS Supply.

EQUIPMENT MODIFICATION CAUTION:

Any equipment changes or modifications not expressly approved by the seller could cause a hazardous condition and invalidate FCC compliance, thus voiding the users authority to operate the equipment.