



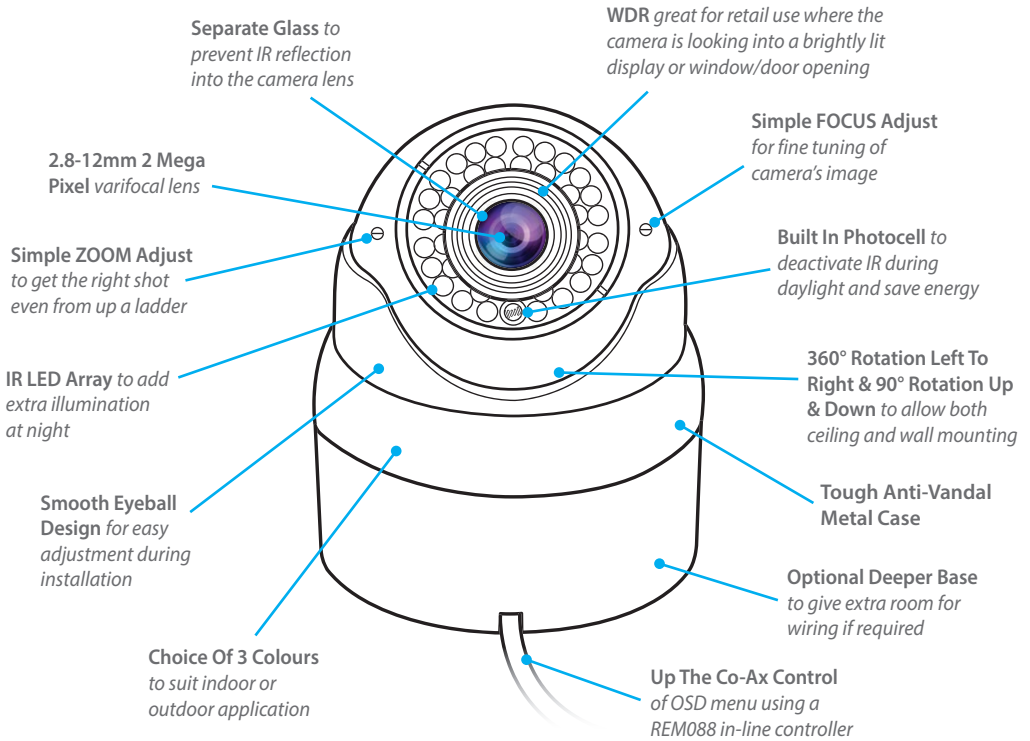
Choice of colours suits most environments

The GEM range of CCTV cameras represent great performance at great value. The popular eyeball design offers a flexible 2.8-12mm varifocal lens to suit most jobs and superb picture quality.

- External or Internal Use
- 3D "Eyeball" Rotation
- Wide Dynamic for Day-Night use
- Separate IR LED array
- Tough Metal Case
- Up the CO-AX OSD control

& Digital Zoom, Privacy Masking, Motion Detect and more!

CAM086U - Key Features & OSD Menu



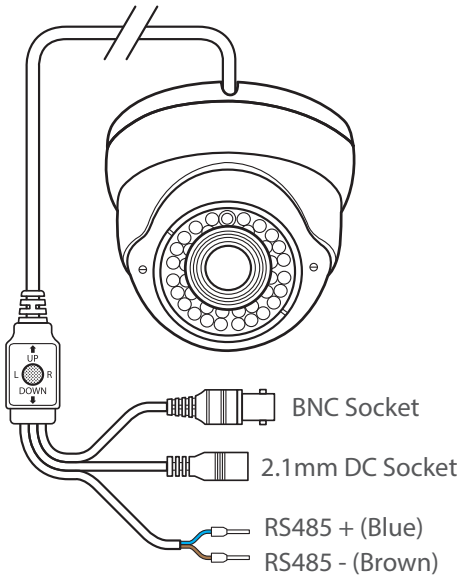
OSD Menu System

| MENU ITEM | SUB MENU | SUB MENU OPTIONS |
|---|---|---|
| SCENE SELECT (FULL AUTO / INDOOR / OUTDOOR / BACKLIGHT / ITS / CUSTOM) | SHUTTER AGC | AUTO / MANUAL / FIX AUTO: 1. AE LEVEL: 01~250 3. SENS UP: OFF / AUTO 2. AGC MAX: 6~44.8DB MANUAL: 1. SHUTTER: 256FLD~1/10000DB 2. AGC MAX: 6~44.8DB FIX: 1. SHUTTER: 256FLD~1/10000DB 2. AGC: 6~44.8DB |
| | WHITE BAL | ATW / PUSH / USER1 / USER2 / MANUAL / PUSH LOCK (DEPENDANT ON SCENE) ATW: 1. SPEED: 000~255 4. ENVIRONMENT: AUTO / INDOOR / SUNNY / SHADE 2. DELAY CNT: 001~255 3. ATW FRAME: 001~255 USER1: 1. B-GAIN: 0~255 2. R-GAIN: 0~255 USER2: 1. B-GAIN: 0~255 2. R-GAIN: 0~255 MANUAL: 1. LEVEL: 00~63 |
| | HLC/BLC | OFF / HLC / BLC HLC: 1. CLIP LEVEL: 000~255 |
| | ATR-EX | ON: 1. CONTRAST: LOW / MID / HIGH 2. CLEAR FACE: OFF / LOW / MID / HIGH |
| | DNR | 1. LEVEL: 0~6 |
| DAY/NIGHT | AUTO / DAY / NIGHT AUTO: 1. BURST: OFF/ON 4. DAY→NIGHT: 000~255 2. CNTL SIGNAL: INT / EXT1 / EXT2 5. NIGHT→DAY: 024~255 3. DELAY INT: 000~255 NIGHT: 1. BURST: OFF/ON | |

| MENU ITEM | SUB MENU | SUB MENU OPTIONS |
|--------------|--------------------------------|---|
| SCENE SELECT | IR OPTIMIZER | OFF / ON ON: 1. MODE: AUTO 2. IR AREA: ---- 3. LEVEL: 0~12 4. IR LED: DAY/NIGHT / OFF / FIX DAY/NIGHT: LEVEL MIN: 001~255 LEVEL MAX: 001~255 FIX: LEVEL: 000~255 5. COLOUR NIGHT: ON / OFF ON: COLOUR GAIN: LOW / MID / HIGH 6. IR SHADE COMP: ON / OFF ON: PATTERN: SET1 / SET2 / SET3 POSH: 000~959 POSV: 000~578 LEVEL: OFF / LOW / MID / HIGH |
| | LENS SHD COMP | ON / OFF ON: 1. PATTERN: SET1 / SET2 / SET3 2. POSH: 000~959 3. POSV: 000~578 4. LEVEL: OFF / LOW / MID / HIGH |
| | DEFOG | ON / OFF (DEPENDANT ON SCENE) ON: 1. LEVEL: LOW / MID / HIGH |
| | FLK LESS | AUTO / ON / OFF AUTO: 1. MODE: SHUTTER FIX / GAIN CNTL ON: 1. MODE: SHUTTER FIX / GAIN CNTL |
| | ANTI CR | AUTO / ON / OFF |
| PIC ADJUST | | 1. BRIGHTNESS: 000~255 2. CONTRAST: 00~63 3. SHARPNESS: 00~15 4. HUE: 000~127 5. COLOUR GAIN: 000~255 |
| E-ZOOM | | ON / OFF ON: 1. MAG: 000~255 2. PAN: 512 3. TILT: 256 |
| DIS | | ON / OFF |
| PRIVACY MASK | | 1. AREA SEL: 1~15 2. DISPLAY: ON / OFF 3. POSITION: EDIT POSITION & SHAPE OF MASK 4. COLOUR: RED / GREEN / BLUE / YELLOW / CYAN / MAGENTA / WHITE / BLACK 5. TRANSP: 0.00~1.00 6. MOSAIC: ON / OFF (SET TRANSP TO 0.00) |
| MOTION DET | | ON / OFF ON: 1. DETECT SENSE: 000~127 2. INTERVAL: 000~127 3. BLOCK DISP: ON / OFF 4. MASK AREA: SET EXCEPTION ZONE 5. MOTION AREA: AREA SEL: 1~4 AREA MODE: ON / OFF TOP: 00~15 BOTTOM: 00~15 LEFT: 00~23 RIGHT: 00~23 |
| SYS SETTINGS | SYNC MODE | 1. INT |
| | LENS | MANUAL / AUTO AUTO: 1. TYPE: DC / VIDEO 2. MODE: AUTO / OPEN / CLOSE 3. ADJUST: AUTO IRIS ADJUSTMENT 4. SPEED: 000~255 |
| | FLIP | 1. OFF / V / H / HV |
| | LCD/CRT | 1. LCD / CRT |
| | COMMUNICATION | 1. PROTOCOL: PELCO-D 2. ADDRESS: 001~255 3. BAUDRATE: 2400~115200 4. DATA BIT: 8BIT 5. PARITY: OFF / ODD / EVEN 6. STOP BIT: 1BIT |
| | CAMERA ID | ON / OFF 1. ON: NAME CAMERA OR EDIT CAMERA NAME |
| LANGUAGE | | ENGLISH / SPANISH / RUSSIAN / PORTUGUESE / GERMAN / FRENCH / CHINESE / JAPANESE |
| VERSION | | FIRMWARE VERSION |
| MAINTENANCE | IN PIX MASK (PIXEL MANAGEMENT) | MANUAL / AUTO / DATA CLEAR MANUAL: 1. REGISTRATION: SET REGISTRATION FOR DEAD PIXELS 2. REG POINT: OFF / WHITE / BLACK 3. CURSOR COLOUR: WHITE / BLACK / RED / GREEN / BLUE 4. BLINK: OFF / ON 5. REG NUMBER: DISPLAYS REG NUMBER AUTO: 1. LEVEL 1: 000~255 2. LEVEL 2: 000~255 3. AUTO: RUN / BACK |
| | CAMERA RESET | 1. CAMERA RESET / BACK |
| EXIT | | SAVE / NOT SAVE / CANCEL / BACK |

CAM086U

Connections



Other Products To Consider



REM088 - UTC Controller

In-line OSD controller allows you to configure the camera via the co-ax cable whilst next to the DVR.



CAM089 - Extra Deep Base

Creates extra room for wiring the camera. Available in Grey, Silver and White.

Specification

| FUNCTION | SPECIFICATION |
|--------------------------|----------------------------|
| Image Sensor | 1/3" SONY ICX811AK Effio-E |
| DSP | SONY CXD4151GG Effio-A |
| Horizontal Resolution | 720TVL |
| Effective Pixels | 976(H) x 582(V) |
| Electronic Shutter Speed | Auto 1/50 ~ 1/100, 000Sec |
| Minimum Illumination | 0.001Lux/F2.0 (0Lux IR On) |
| S/N Ratio | ≥52dB |
| Video Output Level | 1.0V p~p (75Ω, Composite) |
| Lens | 2.8-12mm Varifocal |
| Focus | Manual |
| Lens Type | Manual |
| Pixels | 2 Mega Pixel |
| IR LEDs | 36 |
| IR Range | 30m |

| FUNCTION | SPECIFICATION |
|------------------------|--|
| OSD Menu Language | ENG, SPA, RUS, POR, GER, FRA, CHI, JAP |
| OSD Control | Up The Co-ax, RS485 & In-line Joystick |
| Sense-up | Auto |
| Wide Dynamic Range | Super Wide Dynamic Range |
| Backlight Compensation | BLC / HLC |
| White Balance | Auto / Manual |
| Gain Control | Auto / Manual |
| Noise Reduction | 3D NR |
| Privacy Masking | 15 Areas |
| Operating Temperature | -10°C ~ +50° |
| Supplied Voltage | 12V DC ±10% |
| Current Consumption | 700mA |
| Dimensions | Ø131 x 93mm |
| Weight | Approximately 550g |

All specifications are approximate. System Q Ltd reserves the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, System Q Ltd cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.



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This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this to your trade supplier or local designated collection point as defined by your local council.