



HD-SDI

Megapixel over Coax CCTV

KPC-HD30M

- 2.1 megapixel
- Only 1.2" square
- WDR, 3D-DNR, OSD
- 3 Lens Options

Ordering Information

KPC-HD30MB
3.7mm(3Mpx) Board Lens

KPC-HD30MB8
8mm(1.3Mpx) Board Lens

KPC-HD30MP4
4.3mm(1.3Mpx) Super-cone Pinhole Lens



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Key Features

- Ultra compact size 1.2" square 2.1 megapixel HD-SDI camera weighs only 1-1/4 ounce fits anywhere
- HD-SDI/HDCCTV Megapixel real time 1920x1080 or 1280x720 HD video over coax for superlative image detail
- Supports video outputs of 1080p30/25; 720p60/50 (field select)
- Sens-Up of up to 32X DSS boosts low light performance (use of DSS values greater than 4X should only be used after careful consideration of application conditions)
- "Double Shutter" Wide Dynamic Range plus Adaptive Contrast Enhancement (ACE/DWDR) functions handle bright and unbalanced lighting conditions
- HSBLC & BLC to handle backlight and highlight specific conditions
- 3D DNR improves picture clarity while enabling DVRs to improve disk storage utilization
- Included bracket allows flexible mounting and aiming
- 3.7mm megapixel lens captures the desired field of view
- Multi-language OSD setup menu with multiple functions (image flip, privacy mask, digital zoom, defog, camera title, motion detect, etc.)
- SD/analog TV Out for setup, aim and focus using a standard hand held test monitor
- Power Source only 120mA from 12VDC

Lens Options

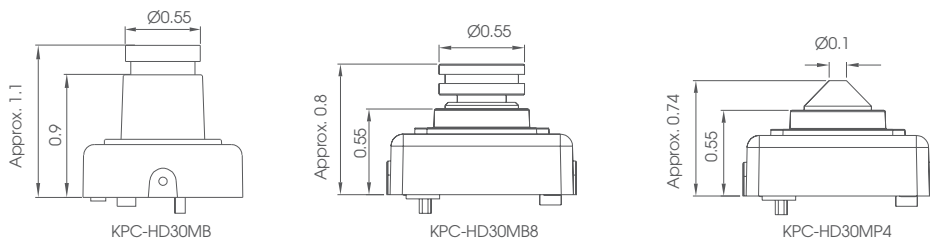
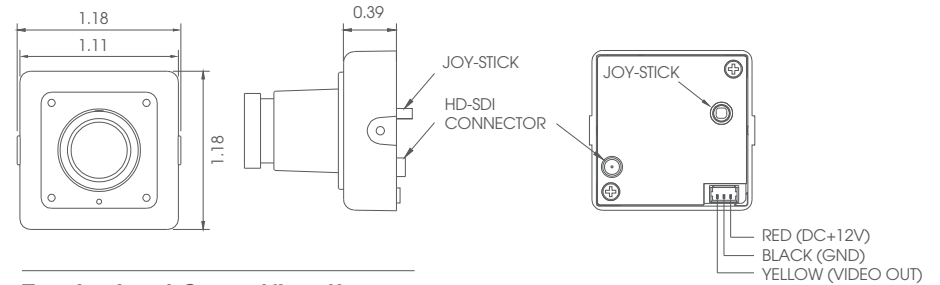


Diagram (Unit: inch)



Technical Specification

Pickup Device	1/3" 2.1 Megapixel Color CMOS sensor
Total Pixels	1944 x 1092
Effective Pixels	5.28 mm x 2.97 mm (16:9 aspect ratio; 6.06 mm diagonal)
Sensitivity	0.1lux/F=1.8; 0.2lux/F=2.5. Use of DSS can improve practical light sensitivity by 4X or more; ; use of DSS values greater than 4X should only be used after careful consideration of application conditions
S/N Ratio	More than 52dB
Video Format Main Output	HD-SDI
Resolution Main Output	Field select 1080p or 720p
Video Mode Main Output	Field select 1080p 30/25; 720p 60/50
Main Output Connector	BNC-F
Video Format Service Video Output	NTSC/PAL selectable
Service Video Output Connector	BNC-F
Electronic Shutter	Auto/Manual selectable 1/30(20); 1/60(50); 1/120(100); 1/250; 1/700; 1/1.1K; 1/1.6K; 1/2.5K; 1/5K; 1/7K; 1/10K; 1/30K
Lens Choices (megapixel board type)	f=3.7mm/F2.5 (3M) / f=8mm/F1.8 (1.3M) Super-cone Pinhole f=4.3mm/F2.0 (1.3M)
Day/Night Control	Digital D&N (Auto/Color/B&W)
Wide Dynamic Range / Back Light Compensation	Off/BLC/WDR (WDR adjustable for level; BLC adjustable for area) (WDR option employs "Double Shutter" Wide Dynamic Range Compensation)
Digital Wide Dynamic Range	Adaptive Contrast Enhancement (ACE)
Auto Gain Control	Yes (12-60 dB)
Auto White Balance	Auto/Auto Ext/Push Lock/Manual
DNR	3D DNR; Off/Low/Mid/High selectable
OSD Menu	Yes (controlled from 3-axis joystick control)
OSD Language	English, Russian, Spanish, German, French, Portuguese, Chinese
Image Flip	Off/H Flip/V Flip/HV Flip (rotate 180°)
Privacy Zones	Up to 15 zones, with adjustable color and transparency
HSBLC	Adjustable for level, mode (day/night/all), and mask color
Digital Zoom	Up to 20X
Defog	Image clarity improvement in diffused light environments low/middle/high
Power Sources & Consumption	12V DC: 120mA max.
Dimensions	1.18 inch x 1.18 inch x 1.11 inch (30 mm x 30 mm x 28.2 mm)
Weight	1.23 oz. (35 g)
Operating Temperature	-10 °C ~ 50 °C ; 14 °F ~ 122 °F
Storage Temperature	-20 °C ~ 60 °C ; -4 °F ~ 140 °F
Humidity	20% ~ 80%, non condensing
Mounting Provision	Tilt/Swivel bracket provided
Certifications	FCC, CE

OMNI EZ HD TVI

KEZ-c2CRB37: 3.7mm Lens
KEZ-c2CRB43: 4.3mm Lens
1080p HD Over Regular Coax or UTP
Outdoor Miniature Cylinder Camera



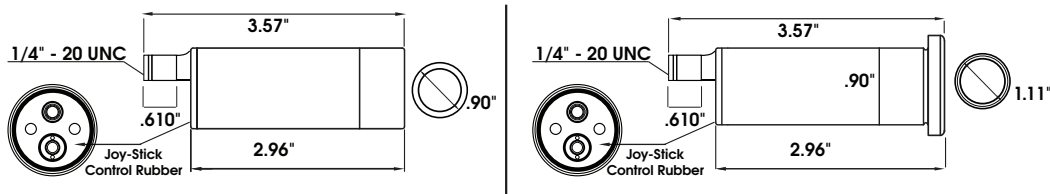
Features

- Superlative HD resolution of 1080p30 for amazing image quality and useful digital zoom
- Field select 1080p 30/25
- HD-TVI HD BNC output
- Operation over 'almost any' wire
 - Over 1000 feet on standard RG59 coax; longer distances on RG6
 - Up to 500' on one pair from a Cat5e cable (using optional KA-HDBAL1 balun pair).
- 1/2.7" progressive scan CMOS sensor
- 3.7, 4.3mm megapixel lens to capture the desired field of view
- Easy mounting with 3-Axis positioning for convenient wall or ceiling mounting
- Simple and easy to use OSD setup menu
 - Up-the-cable control from OMNI EZHD recorders (or other compatible Coaxitron® control equipment)
 - On-camera 3-axis joystick
 - Programmable Back Light Compensation (BLC) and Highlight Compensation (HLC)
 - Adjustable 2D Noise Reduction to increase low light picture clarity and conserve DVR HDD disk space
 - Privacy masking for 8 configurable zones
 - Lens shading compensation for even exposure out to the lens periphery
- IP67 weatherproof metal housing with 3-axis mount included
- Choice of black or white housing color to blend or contrast with the décor
- Operating temperature range of 14°F~122°F
- 12VDC operation with low current draw



Technical Specifications:

Imaging Device	1/2.7" 2MP Progressive Scan CMOS
Video Format	1080p HD-TVI 30/25Hz (OSD selectable)
Picture Elements	1930 (H) x 1088 (V)
Cell Size	3.0µm x 3.0µm
Maximum Image Resolution	1920 (H) x 1080 (V)
Horizontal Resolution	More than 1080 HTVL (1080p mode)
Lens Type	Megapixel Fixed Focal Length f=3.7mm, 4.3mm board type
Video Output Connector Type	BNC 75Ω
Sync. Mode	Internal
OSD Menu	Multiple functions using on-camera 3-axis joystick and/or up-the cable (UTC) control
OSD Languages	English, Chinese
OSD Control	Full OSD Menu access via on-camera 3 axis joystick plus up-the-cable (UTC, Coaxitron® type) signaling
Electronic Shutter	Auto, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/3000, 1/10000
BLC	(0~16 selectable)
HLC	Adjustable area, 0~255 for mask and threshold values
Auto Gain Control	1~5 (Max. 30dB)
White Balance	AUTO indoor / AUTO Outdoor / USER / PUSH / Manual
Flickerless	Off, 50Hz, 60Hz
Day/Night Type	Digital Day/Night
Day & Night	Auto, color, B/W
2D-DNR	Auto
Image Control	Flip, Mirror, Gain, Hue, Sharpness, Contrast
Motion Detection	Off/On for programmable zone with sensitivity adjust (pixel change detection)
Privacy Mask	Two, with adjustable size and position
Lens Shading Compensation	Off/On
Other OSD Functions	Camera Title with position, Font Color; Image Sharpness
Power Source	12VDC
Power Consumption	12VDC:90mA
Operating Temperature	14 °F ~ 122 °F (-10 °C ~ 50 °C)
Environmental	IP67 weatherproof
Mechanical	Metal housing and mount; housing equipped with ¼-20 thread at rear
Positioning	3-axis flexible positioning for wall or ceiling mounting Mount included
Dimensions	Body Ø 0.9" (23mm); 3.7mm lens model front cap Ø 1.11" (28.2mm) Overall length 3.57" (90.75mm); Body only 2.96" (75.25mm) See diagrams for outline details.
Weight	2.15 oz. (67g)
Certifications	CE / FCC / RoHS



OMNI EZ HD TVI

KEZ-c2CIB37: 3.7mm Lens
KEZ-c2CIP43: 4.3mm Pinhole Lens

1080p HD Over Regular Coax or UTP
Indoor Miniature Cylinder Bullet

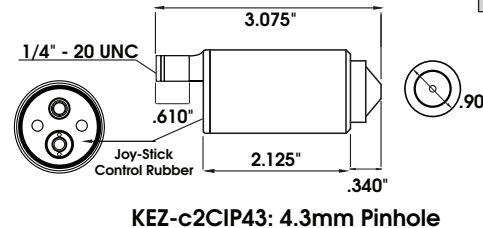
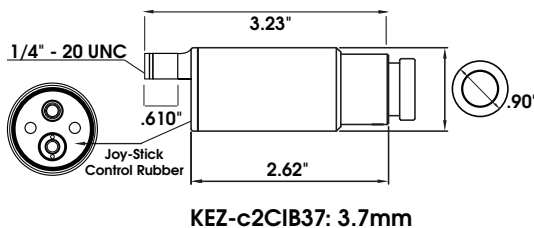


Technical Specifications:

Imaging Device	1/2.7" 2MP Progressive Scan CMOS
Video Format	1080p HD-TVI 30/25Hz (OSD selectable)
Picture Elements	1930 (H) x 1088 (V)
Cell Size	3.0µm x 3.0µm
Maximum Image Resolution	1920 (H) x 1080 (V)
Horizontal Resolution	More than 1080 HTVL (1080p mode)
Lens Type	Megapixel Fixed Focal Length f=3.7mm, 4.3mm board type
Video Output Connector Type	BNC 75Ω
Sync. Mode	Internal
OSD Menu	Multiple functions using on-camera 3-axis joystick and/or up-the cable (UTC) control
OSD Languages	English, Chinese
OSD Control	Full OSD Menu access via on-camera 3 axis joystick plus up-the-cable (UTC, Coaxitron® type) signaling
Electronic Shutter	Auto, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/3000, 1/10000
BLC	(0~16 selectable)
HLC	Adjustable area, 0~255 for mask and threshold values
Auto Gain Control	1~5 (Max. 30dB)
White Balance	AUTO indoor / AUTO Outdoor / USER / PUSH / Manual
Flickerless	Off, 50Hz, 60Hz
Day/Night Type	Digital Day/Night
Day & Night	Auto, color, B/W
2D-DNR	Auto
Image Control	Flip, Mirror, Gain, Hue, Sharpness, Contrast
Motion Detection	Off/On for programmable zone with sensitivity adjust (pixel change detection)
Privacy Mask	Two, with adjustable size and position
Lens Shading Compensation	Off/On
Other OSD Functions	Camera Title with position, Font Color; Image Sharpness
Power Source	12VDC
Power Consumption	12VDC:90mA
Operating Temperature	14 °F ~ 122 °F (-10 °C ~ 50 °C)
Environmental	Indoor, 80% Max Humidity
Mechanical	Metal housing and mount; housing equipped with 1/4-20 thread at rear
Positioning	3-axis flexible positioning for wall or ceiling mounting Mount included
Dimensions	KEZ-c2CIB37: Body Ø 0.9" (23mm); Overall Length* 3.23" (82mm) KEZ-c2CIP43: Body Ø 0.9" (23mm); Overall Length 3.075" (78.1mm) *Not including lens See diagrams for outline details.
Weight	2.15 oz. (67g)
Certifications	CE / FCC / RoHS

Features

- Superlative HD resolution of 1080p30 for amazing image quality and useful digital zoom
- Field select 1080p 30/25
- HD-TVI HD BNC output
- Operation over 'almost any' wire
 - Over 1000 feet on standard RG59 coax; longer distances on RG6
 - Up to 500' on one pair from a Cat5e cable (using optional KA-HDBAL1 balun pair).
- 1/2.7" progressive scan CMOS sensor
- 3.7 board, 4.3mm pinhole megapixel lens to capture the desired field of view
- Easy mounting with 3-Axis positioning for convenient wall or ceiling mounting
- Simple and easy to use OSD setup menu
 - Up-the-cable control from OMNI EZHD recorders (or other compatible Coaxitron® control equipment)
 - On-camera 3-axis joystick
 - Programmable Back Light Compensation (BLC) and Highlight Compensation (HLC)
 - Adjustable 2D Noise Reduction to increase low light picture clarity and conserve DVR HDD disk space
 - Privacy masking for 8 configurable zones
 - Lens shading compensation for even exposure out to the lens periphery
- Metal housing with 3-axis mount included
- Choice of black or white housing color to blend or contrast with the décor
- Operating temperature range of 14°F~122°F
- 12VDC operation with low current draw



OMNI EZ HD TVI

KEZ-c2MIP4: Pinhole Lens
KEZ-c2MIB4: Board Lens

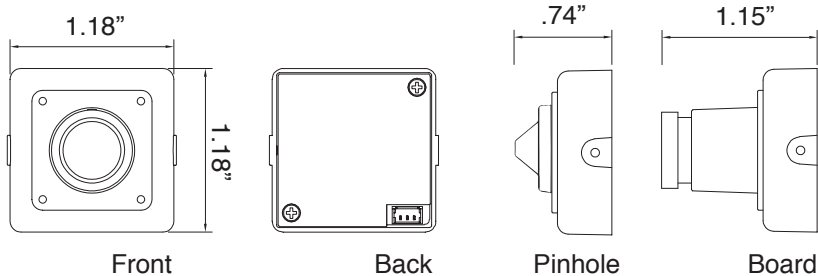
1080p HD Over Regular Coax or UTP
Miniature Square 1080p Camera
with board type or pinhole lens

Features

- Ultra Compact Size
- 1/2.7" Progressive Scan CMOS
- EZHD-TVI: 1080p 30 FPS
- Up the Cable menu control
- Digital Day/Night
- For indoor applications
- DC 12V power



Dimensions: Inches



KEZ-c2MIP4: Pinhole



KEZ-c2MIB4: Board



Technical Specifications:

Image Device	1/2.7" PROGRESSIVE SCAN CMOS
Effective Pixels	1930 (H) x 1088 (V)
Unit cell size	3.0um (H) x 3.0um (V)
Video output mode	HD-TVI : 1080P 30fps(25fps)
Transmission Distance	HD-TVI : Color 300m@RG59 , BW 500m@RG59
Menu Access	Up the Cable control
Shutter speed	Auto, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/3000, 1/10000
BLC	BLC (1~16 selectable)
HLC	Adjustable area, 0~255 for mask and threshold values
AGC	1~5 (Max. 30dB)
Flickerless	Off, 50Hz, 60Hz
2DNR	AUTO
White Balance	AUTO indoor / AUTO Outdoor / USER / PUSH / Manual
Lens	Board type 3.7mm / Pinhole type 4.3mm
Day&Night	Auto, color, B/W
Privacy Zones	Two, with adjustable size and position
Image Control	Flip, Mirror, Gain, Hue, Sharpness, Contrast
Temperature/Humidity (non condensing)	Operation : 5°F~122°F(-15°C~50°C) Storage : -4°F~140°F(-20°C~60°C) Humidity less than 80%
Power Consumption	DC12V ±10% Max.100mA
External Control	UTC (Up The Cable OSD Menu Control)
Dimension	Body 1.18" x 1.18" (30mm x 30mm) Depth: w/board lens 1.15" (29.3mm) w/pinhole .74" (18.8mm)
Mounting Bracket	2-axis bracket included; adds .05"~.4" to height, .05"~.9" to depth
Video and Power Cable	Detachable; >23" long (58.5cm)
Weight	Approx. 30g / 1 oz. plus cable

OMNI EZ HD TVI

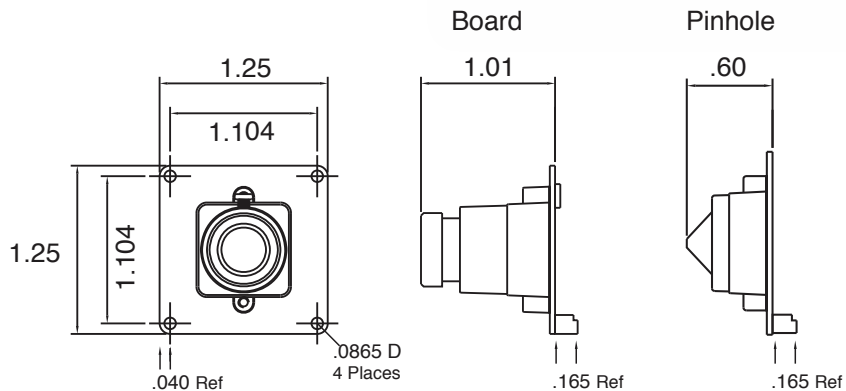
ACE-c2MIP4: Pinhole Lens
ACE-c2MIB4: Board Lens

1080p HD Over Regular Coax or UTP
 Miniature Square 1080p Camera
 with board type or pinhole lens

Features

- Ultra Compact Size
- 1/2.7" Progressive Scan CMOS
- EZHD-TVI: 1080p 30 FPS
- Up the Cable menu control
- Digital Day/Night
- For indoor applications
- DC 12V power

Dimensions: Inches



ACE-c2MIP4: Pinhole



ACE-c2MIB4: Board

1080p

30 FPS

Digital Day/Night

**UTC
Up The Cable
OSD Control**

DC12

Indoor

Miniature Module

Technical Specifications:

Image Device	1/2.7" PROGRESSIVE SCAN CMOS
Effective Pixels	1930 (H) x 1088 (V)
Unit cell size	3.0um (H) x 3.0um (V)
Video output mode	HD-TVI : 1080P 30fps(25fps)
Transmission Distance	HD-TVI : Color 300m@RG59 , BW 500m@RG59
Menu Access	Up the Cable control
Shutter speed	Auto, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/250, 1/500, 1/1000, 1/3000, 1/10000
BLC	BLC (1~16 selectable)
HLC	Adjustable area, 0~255 for mask and threshold values
AGC	1~5 (Max. 30dB)
Flickerless	Off, 50Hz, 60Hz
2DNR	AUTO
White Balance	AUTO indoor / AUTO Outdoor / USER / PUSH / Manual
Lens	Board type 3.7mm / Pinhole type 4.3mm
Day&Night	Auto, color, B/W
Privacy Zones	Two, with adjustable size and position
Image Control	Flip, Mirror, Gain, Hue, Sharpness, Contrast
Temperature/Humidity (non condensing)	Operation : 5°F~122°F(-15°C~50°C) Storage : -4°F~140°F(-20°C~60°C) Humidity less than 80%
Power Consumption	DC12V ±10% Max.100mA
External Control	UTC (Up The Cable OSD Menu Control)
Dimensions	Body 1.25" x 1.25" Depth with pinhole Lens .765" With Board Lens 1.175"
Video and Power Cable	Detachable; >23" long (58.5cm)
Weight	Approx. 15g / .5 oz. plus cable

For more information please contact:



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ACE-c2MIP4: 4.3mm Pinhole Lens | ACE-c2MIB4: 3.7mm Board Lens