



**INNOVATIVE**  
HIGH DEFINITION SURVEILLANCE



**OMNI**  
**EZ** HD TVI

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 **KEZ-c2TR28V1 2XIR**

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1080p HD Over Regular Coax or UTP  
Outdoor Turret with IR, True Day/Night, OSD, 2.8-12mm,  
IP66, 164' Super Beam Smart IR Range, 12VDC

KEZ-c2TR28V12XIR: 2.8-12mm



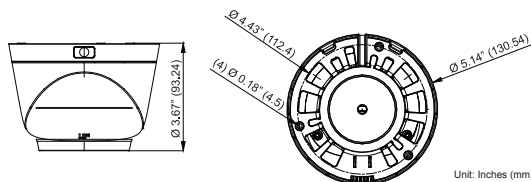
# OMNI EZ HD TVI

## KEZ-C2TR28V1 2XIR

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### Features

- Superlative HD resolution of 1080p30 for amazing image quality and useful digital zoom
- HD-TVI HD BNC output, plus CVBS analog BNC output for alternative connection/monitoring and ease of service\*\*
- 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).
- 1/3" progressive scan CMOS sensor with .01 lux native light sensitivity
- Externally adjustable 2.8~12mm F=1.4 Varifocal Megapixel lens to capture the desired field of view (92°~32° FOV)
- 120dB True Wide Dynamic Range to handle the most challenging of bright or unbalanced lighting conditions\*\*
- Digital slow shutter (Sens-Up) low light enhancement\*
- True Day/Night zero light operating range of 164 feet<sup>1</sup> or more from Super Beam IR LED
- Smart IR automatic exposure level adjust to achieve the desired IR brightness despite reflections and bright spots
- Easy mounting using 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)
  - True Wide Dynamic Range for bright or unbalanced scene lighting conditions\*\*
  - Digital Wide Dynamic range option
  - Programmable Back Light Compensation (BLC) and Highlight Suppression Back Light Compensation (HSBLC)
  - Adjustable 3D + 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
  - Defog improves image contrast in the presence of haze or smoke that obscures image details
- Smart digital zoom\*\* expands a selected area within the field of view to full screen when motion is detected
- Smart focus to adjust the lens by maximizing the easy to see on screen numeric readout to optimize focus
- IP66 weather resistant
- Operating temperature range of -4°F~140°F
- Optional Pole mount KA-BRPM1; Junction box KA-TRJB1; Corner Mount KA-BRCM1; Wall mount arm KA-TRWM1



### Technical Specifications

Imaging Device	1/3" Progressive Scan CMOS
Video Format	Main Output: 1080p30/25 HD-TVI (30/25Hz OSD selectable) Secondary Output: CVBS (OSD selectable NTSC/PAL) aux video**
Effective Picture Elements	1920 (H) x 1080 (V)
Horizontal Resolution	More than 1080 HTVL
True WDR Range**	120dB
Sensitivity	0 lux IR on; .01 lux @ F1.2 (AGC On)
Day/Night Type	True Day/Night with ICR motorized filter control
Lens Type	Megapixel Varifocal Type 2.8~12mm F=1.4 IR corrected
Angle of view	92°(2.8mm) ~ 32°(12mm)
IR LED	One Super Beam LED, 850nm (Can be disabled in OSD if desired)
IR Range <sup>1</sup>	164' / 50m
Smart IR Exposure Adjust	Active when IR enabled
S/N Ratio	Over 52dB
Video Output Connector Type	TVI and CVBS: BNC 75Ω
Sync. Mode	Internal
OSD Menu	Multiple functions using UTC Control
OSD Languages	English, Spanish, Portuguese, German, Russian, Japanese, Mandarin, Cantonese, French, Korean, Italian, Polish, Dutch, Turkish, Hebrew, Arabic
UTC Control	Full OSD Menu access via up-the-cable (Coaxitron® type ) signaling
Smart Focus	Display of on screen index of relative focus; optimize number for best focus
Scene Optimization	Choose: Indoor, Indoor 1, Outdoor, Low Light
WDR/BLC/HSBLC	OFF/WDR/BLC/HSBLC Selectable, WDR: Low, Middle, High; adjustable brightness and offset, BLC: Low, Middle, High with adjustable area size/position, HSBLC: On/Off for 4 areas, adjustable area size/position and level; full time or night-only
Auto Gain Control	0~15
Electronic Shutter	Auto; or 1/30 (25), FLK, to 1/50,000
White Balance	ATW; AWC->SET; Manual
Color Correction	Nominal Gamma 0.45, adjustable; or, separate adjustment for red and blue levels
Day & Night	Auto True D/N with motorized ICR, controlled by photo sensor; IR LEDs may be disabled. Optional color-only and B/W only modes under OSD control
Digital Slow Shutter [DSS]	DSS low light boost Off/Auto 2~30*
2D-DNR	On/Off
3D-DNR	Off/On: Smart Noise Reduction with adjustable level; adjustable AGC range limits
Digital Zoom	2X~62X with virtual P/T (area selection)
Smart Digital Zoom	Select programmable area and sensitivity level; while in-area motion/pixel change is detected, image zooms to full screen display of selected area and holds for user selected time; size of area to be shown full screen selected defines zoom ratio when active.
Brightness	1~100
Defog	Adjustable area size/position; gradient off, low, middle, high
Digital Wide Dynamic Range	On/Off
Mirror	Off / H-flip, V-flip, rotate
Motion Detection	Off/On for 4 programmable zones (pixel change detection)
Privacy Mask	Off/On with full programmability for 8 selectable zones
Lens Shading Compensation	Off/On
DPC (Defective Pixel Correction)	Live mode with level adjust; static mode with level, DSS and AGC adjust
Smart Digital Focus	OSD of numeric indication of degree of image focus
Other OSD Functions	Flickerless; Camera Title with position, Font Color; Image Sharpness; CRT/LCD display optimization; Negative Image
Power Source	12VDC
Power Consumption	12VDC:585mA
Operating Temperature	-4 °F ~ 140 °F (-20 °C ~ 60 °C)
Environmental	IP66 weather resistant
Mechanical	Metal ball, plastic base. External lens adjust. Wire leads on camera cable to toggle WDR state.
Positioning	3-axis flexible positioning for wall or ceiling mounting Pan: 0~360° Tilt: 0~90° Rotate: 0~360°
Dimensions	Ø5.14" × 3.67" [Ø130.54 × 93.24mm]
Weight	.66 lbs./ .3 Kg
Mounting Options	Pole mount KA-BRPM1; Junction box KA-TRJB1; Corner Mount KA-BRCM1; Wall mount arm KA-TRWM1
Certifications	CE / FCC / RoHS

\*DSS levels above 4X should be used only after careful consideration of scene dynamics \*\*True WDR processing and downscaling from 1080p to CVBS both demand significant processor resources. CVBS output and digital zoom are disabled when True WDR is active; where full time CVBS output is desired, Digital WDR is an OSD menu option. WDR status is easily controlled from a switch provided next to the CVBS test point and OSD joystick.\*As with all IR cameras, IR range will vary based on scene IR reflectivity and illumination. KT&C America reserves the right to make changes to improve our products at any time without notice; we are not responsible for misprints.