



# IK-WR31A

## 3MP Vandal Dome

### Indoor/outdoor vandal dome with Smart Codec

The Toshiba IK-WR31A is a vandal dome IP camera with many high-end features and specifications. Three megapixel resolution, 4x optical remote zoom and remote focus make covering large areas easy, while H.264 Smart Codec reduces network bandwidth. Adaptive IR LEDs and Hallway view increase camera versatility in almost any application. ONVIF compliant and 802.3af Power over Ethernet ensure compatibility with any system.

- 3MP resolution with remote optical zoom and remote focus
- H.264 Smart Codec reduces network bandwidth without sacrificing quality
- Adaptive IR LEDs automatically adjust intensity
- Hallway view rotates image 90 degrees for portrait orientation
- ONVIF compliant for maximum compatibility
- Power over Ethernet (802.3af)
- MicroSD card for edge recording
- True WDR and True D/N captures images in difficult lighting



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## Camera

Image sensor	1/3" CMOS 3MP
Effective pixels	2048 x 1536 (4:3)
Lens	Varifocal f=2.8 - 12mm, F=1:1.8
Lens type	Remote zoom, remote focus
Zoom	4x optical, 3x digital
Angle of view	29° - 82° horizontal 22° - 61° vertical
Min. Illumination	0.03 lux / F1.8 (Night mode, LED-OFF, Gain 100%, 1/30 sec), 0 lux w/IR on
IR illuminators	Adaptive IR LED, 20m range

## Camera Features

Day/Night	Yes, IR cut filter
Wide Dynamic Range	True WDR
White balance	Manual, AWB (2500K - 10000K),
Gain (AGC)	Auto
BLC	Yes
Privacy mask	Yes
Motion detection	Yes
Tamper protection	Yes

## Video

Compression	H.264 Smart Codec, H.264, MJPEG
Resolutions	2048x1536, 1920x1080, 1280x1024, 1280x720, 1024x768, 640x480, 320x240
Video Streams	Three streams
Frame rate (max) <sup>1</sup>	20 fps @2048x1536 30 fps @1920x1080 60 fps @1280x720(WDR-OFF)
Image rotation	Hallway, Flip, Mirror Views

## Audio

Audio Compression	G.726, G711
Audio In/Out <sup>2</sup>	MIC In (plug-in power 3.3V, 200kΩ), Line OUT (1 Vrms)

## Interface

Ethernet connectors	10 Base-T/100 Base-TX, RJ45 connector
Digital In/Out	1 in/1 out
SD card slot	MicroSD 64GB max

<sup>1</sup>: Varies in accordance with the object, image quality, network environment and performance of the personal computer used.

<sup>2</sup>: The sound may not be clear depending on the conditions of the lines.

## Network

Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, and 802.1X
ONVIF	Profile-S (test tool v14.06)
Maximum user access	10 clients
Bandwidth control	QoS, CoS
Camera set-up program	Installation Wizard
Plug-In	Active X
Alarm recording	FTP, email, MicroSD card

## General

Dimensions	4.5 inch (H) x 6.8 inch (Diameter) (115mm x 173mm)
Weight	2.89 lbs (1310 g)
Power requirements	802.3af PoE, 12V DC ± 10%
Power consumption	12V DC / 2.1A
Operation temperature	PoE: -4°F to 122°F (-20°C to 50°C) 12V DC: -22°F to 122°F (-30°C to 50°C)
Operation humidity	~ 90%
Approvals	FCC Class B, IC Class B, UL 60950-1, CSA C22.2 No. 60950-1
Vandal resistance	IK10
Environmental	IP66
Warranty	2 years

## System Requirements

Web browser support	Internet Explorer® Ver. 8.0 or later
Supported OS	Windows® XP, Vista® Business, Windows 7 professional

## Accessories

Included	Screws (x4), Anchors (x4), AV Out cable (x1), Mounting Plate (x1), Gasket (x1), Torx Wrench (x1), Silica Gel and tape (x1), Hex Nut (x1), Waterproof Connector (x1), Bushing (x1), Alignment sticker (x1), CD-ROM(x1), Quick Start guide and Important Safeguards (x1), Warranty Card(x1)
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Toshiba America Information Systems, Inc.  
Surveillance & IP Video Products, Imaging Systems Division  
9740 Irvine Boulevard, Irvine, California 92618  
1-877-855-1349 • [www.toshibasecurity.com](http://www.toshibasecurity.com)

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Innovative features of the IK-WD31A Camera

## Smart Codec

**Smart Codec** can effectively reduce the video packet size while maintaining good video quality. It allocates more bandwidth to moving objects or areas of interest, resulting in lower bandwidth and storage requirements.



Without Smart Codec\*



Background (yellow) with baseline quality

Moving objects with higher quality

With Smart Codec\*

## Adaptive IR

**Adaptive IR** automatically adjusts the IR LED intensity in order to avoid over exposure of close objects.



Adaptive IR On\*



Adaptive IR Off\*

## Hallway View

**Hallway View** rotates the camera view 90 degrees for a "portrait" mode. This allows move coverage for areas such as retail aisles, warehouses or office corridors.



Standard View\*



Hallway View\* (90° rotation)

\* Simulated image

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## Included Accessories

- AV out cable (x1)
- Warranty card
- Waterproof connector & Bushing (x1)
- Silica gel and tape (x1)
- CD-ROM
- Quick start guide
- Gasket (x1)
- Hex nut (x1)
- Alignment Sticker/Mounting Plate
- Safeguards
- Torx wrench (x1)
- Screws and anchors (x4)

## Optional Accessories

Accessory Type	Part Number	Description	Photo
Junction Box Adapter	JK-JCB12	Fits 4" x 4" square electrical box	
Corner Mount Adapter	JK-CMA12	Corner mount adapter. Requires use with JK-PHO14 and JK-WM12	
Dome Housing	JK-PHO14	Pendant adapter	
Pole Mount Adapter	JK-PMA12	Pole mount adapter. Requires use with JK-PHO14 and JK-WM12	
Pendant Head	JK-PMH12	Pendant head adapter. Requires use with JK-PHO14	
Pendant Pipe	JK-PMP12	Pendant pipe. Requires use with JK-PMH12	
Wall Mount	JK-WM12	Wall mount. Requires use with JK-PHO14	
Wall Mount	JK-WM14	Wall Mount Bracket	