



# IK-WD31A

## 3MP Indoor Dome

### Versatile indoor dome with Smart Codec

The Toshiba IK-WD31A is an indoor IP camera with a suite of 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 make it flexible for almost any indoor 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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3MP Vandal Dome

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## Camera

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

## Camera Features

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

## Video

<b>Compression</b>	H.264 Smart Codec, H.264, MJPEG
<b>Resolutions</b>	2048x1536, 1920x1080, 1280x1024, 1280x720, 1024x768, 640x480, 320x240
<b>Video streams</b>	3 streams
<b>Frame rate (max) <sup>1</sup></b>	20 fps @2048x1536 30 fps @1920x1080 60 fps @1280x720 (WDR-OFF)
<b>Image rotation</b>	Hallway, Flip, Mirror Views

## Audio

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

## Interface

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

## Network

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

## General

<b>Dimensions</b>	4.3 inch (H) x 6.3 inch (Diameter) (109mm x 159.3mm)
<b>Weight</b>	1.67 lbs (758 g)
<b>Power requirements</b>	802.3af PoE, 12V DC ± 10 %
<b>Power consumption</b>	12V DC / 2.1A
<b>Operation temperature</b>	14°F to 122°F (-10°C to 50°C)
<b>Operation humidity</b>	~ 90%
<b>Approvals</b>	FCC Class B, IC Class B, UL 60950-1, CSA C22.2 No. 60950-1
<b>Warranty</b>	2 years

## System Requirements

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

## Accessories

<b>Included</b>	Screws (x3), Anchors (x3), AV Out cable (x1), Torx driver (x1), Alignment sticker (x1), CD-ROM (x1), Quick Start guide and Important Safeguards (x1), Warranty Card (x1)
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<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.

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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 object 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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  - Torx driver
  - Quick start guide
- Anchors (x3)
  - Alignment sticker
  - Safeguards
- AV Out cable
  - CD-ROM
  - Warranty card

## Optional Accessories

Accessory Type	Part Number	Description	Photo
Mounting Adapter Plate	JK-JBA2	Mounting adapter plate for installation in an electrical box	
In-Ceiling Housing	JK-CMWD01AT	In-Ceiling Housing	
Wall Mount	JK-WM14	Wall Mount Bracket	