



# IK-WR51A

## 5MP Outdoor Dome IP Camera

### Vandal-proof, rugged IP video surveillance

The Toshiba IK-WR51A is a 5MP outdoor vandal IP camera with many high-end features and specifications. Five megapixel resolution, remote zoom, and remote focus make covering large areas easy, while H.265 Smart Codec reduces network bandwidth. Adaptive IR LEDs and Hallway view qualify the IK-WR51A for almost any application. ONVIF compliant and 802.3af Power over Ethernet ensure compatibility with any system.

- 5MP resolution with remote optical zoom and remote focus
- H.265 Smart Codec reduces network bandwidth without sacrificing quality
- Adaptive IR LEDs automatically adjust intensity
- Hallway view rotates image 90 degrees for portrait orientation
- ONVIF Profile-G
- Power over Ethernet (802.3af)
- MicroSD card for edge recording
- True WDR and True D/N captures images in difficult lighting
- IP66, IK10 rated protection

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## Camera

<b>Image sensor</b>	1/1.8 inch CMOS 5MP
<b>Effective pixels</b>	2560 x 1920 (4:3)
<b>Lens</b>	Varifocal f=4 - 9mm, F=1:1.3 to 1:2.2
<b>Lens type</b>	Remote zoom, remote focus
<b>Zoom</b>	2.25x optical, 12x digital
<b>Angle of view</b>	45° - 93° horizontal, 34° - 68° vertical
<b>Min. Illumination</b>	0.01 lux / F1.3 (Night mode, LED-OFF, Gain 100%, 1/30 sec) 0 lux w/IR on
<b>IR illuminators</b>	Adaptive IR LED, 30m 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, Manual
<b>BLC</b>	Yes
<b>Privacy mask</b>	Yes
<b>Motion detection</b>	Yes
<b>Tamper protection</b>	Yes

## Video

<b>Compression</b>	H.265 Smart Codec, H.264, MJPEG
<b>Resolutions</b>	2560x1920, 2048x1536, 1920x1080, 1280x1024, 1280x720, 1024x768, 640x480, 320x240
<b>Video streams</b>	4 streams
<b>Frame rate (max) <sup>1</sup></b>	H.265, H.264: 30 fps @2560x1920 60 fps @1920x1080 MJPEG: 12 fps @2560x1920 30 fps @1920x1080 60 fps @1280x720
<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/SDHC/SDXC 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

<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 / Profile-G (test tool v16.01)
<b>Maximum user access</b>	10 clients
<b>Security</b>	Multi level ID/Password, IP address filtering, HTTPS, 802.1x port- based authentication
<b>Basic authorization</b>	Yes (Windows standard)
<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>	4.1 inch (H) x 6.1 inch (Diameter) (103mm x 155mm)
<b>Weight</b>	2.05 lbs (928g)
<b>Power requirements</b>	802.3af PoE, 12V DC ± 10 %
<b>Power consumption</b>	12V DC/1.0A
<b>Operation temperature</b>	-22°F to 122°F (-30°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>Vandal resistance</b>	IK10
<b>Environmental</b>	IP66
<b>Warranty</b>	2 years

## System Requirements

<b>Web browser support</b>	Internet Explorer® Ver. 8.0 or later
<b>Supported OS</b>	Windows® 8.1 professional, Windows® 7 professional

## Accessories

<b>Included</b>	Screws, Anchors, Torx Wrench, Silica Gel and tape, Waterproof connector, Conduit, Alignment sticker, CD-ROM, Quick Start Guide and Important Safeguards, Warranty Card
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An indoor version of the IK-WR51A camera is available (part number IK-WD51A)

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## Innovative features of the IK-WR51A 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

- Quick start guide
- Screw and anchor kit
- Torx wrench
- Conduit
- CD-ROM
- Important safeguards
- Silica gel and tape
- Alignment sticker
- Warranty card
- Waterproof connector

## Optional Accessories

Accessory Type	Part Number	Description	Photo
Corner Mount	JK-CMA12	Corner mount adapter. Requires use with JK-PHO51 and JK-WM12	
Pendant Mount	JK-PHO51	Pendant mount adapter	
Pole Mount	JK-PMA12	Pole mount adapter. Requires use with JK-PHO51 and JK-WM12	
Pendant Head	JK-PMH12	Pendant head adapter. Requires use with JK-PHO51	
Pendant Pipe	JK-PMP12	Pendant pipe. Requires use with JK-PMH12	
Wall Mount	JK-WM12	Wall mount. Requires use with JK-PHO51	
Adapter Plate	JK-JBA3	Adapter plate for mounting to 4-11/16" junction box	