



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

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

Camera Features

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

Video

Compression	H.265 Smart Codec, H.264, MJPEG
Resolutions	2560x1920, 2048x1536, 1920x1080, 1280x1024, 1280x720, 1024x768, 640x480, 320x240
Video streams	4 streams
Frame rate (max) ¹	H.265, H.264: 30 fps @2560x1920 60 fps @1920x1080 MJPEG: 12 fps @2560x1920 30 fps @1920x1080 60 fps @1280x720
Image rotation	Hallway, flip, mirror views

Audio

Audio compression	G.726, G711
Audio in/out ²	Built in MIC, 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/SDHC/SDXC 64GB max

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

²: 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 / Profile-G (test tool v16.01)
Maximum user access	10 clients
Security	Multi level ID/Password, IP address filtering, HTTPS, 802.1x port- based authentication
Basic authorization	Yes (Windows standard)
Bandwidth control	QoS, CoS
Camera set-up program	Installation Wizard
Plug-In	Active X
Alarm recording	FTP, email, MicroSD card

General

Dimensions	4.1 inch (H) x 6.1 inch (Diameter) (103mm x 155mm)
Weight	2.05 lbs (928g)
Power requirements	802.3af PoE, 12V DC ± 10 %
Power consumption	12V DC/1.0A
Operation temperature	-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® 8.1 professional, Windows® 7 professional

Accessories

Included	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)

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*



With Smart Codec*

Background (yellow)
with baseline quality

Moving objects with
higher quality

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)

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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	