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# Toshiba IP Video Monitoring/Surveillance Cameras

## IP NETWORK CAMERAS

## ANALOG CAMERAS



CAMERA MODEL	IK-WB02A	IK-WR01A	IK-WB21A	IK-WB15A	IK-6210A	IK-6410A	IK-6550A	IK-64DNA	IK-65WDA	IK-1000	IK-VR01A	IK-DF02A	IK-DP30A
Image sensor	1/3" IT CCD	1/3" IT CCD	1/4 Super CCD	1/4 Super CCD	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD	1/3" IT CCD (IR)	1/3" IT CCD	1/2" EMCCD, Peltier Cooled	1/3" IT CCD	1/3" IT CCD	1/4" IT CCD
Maximum resolution	640 x 480	640 x 480	1280 x 960	1280 x 960	350 TV Lines	480 TV Lines	540 TV Lines	570 TV Lines (B/W), 480 (C)	520 TV Lines	420 TV Lines	480 TV Lines	520 TV Lines	480 TV Lines
Minimum illumination	0.2 lux @ F=1.0	0.2 lux @ F=1.0	0.13 lux @ F=1.6	0.18 lux @ F=1.9	0.2 lux @ F=1.0	0.2 lux @ F=1.0	0.2 lux @ F=1.2	0.003 (B/W), 0.1 (C) @ F=1.2	0.001 lux @ F=1.2	0.00025 lux @ F=1.2	0.2 lux @ F=1.0	0.5 lux @ F=1.0	0.01 lux @ F=1.0
Compression	Motion JPEG	Motion JPEG	Motion JPEG	Motion JPEG	--	--	--	--	--	--	--	--	--
Frames per second	Up to 30	Up to 30	Up to 30	Up to 30	--	--	--	--	--	--	--	--	--
Lens	not included	3.0mm to 8.0mm	4.00mm to 88mm	2.8mm to 7.3mm Varifocal	not included	not included	not included	not included	not included	not included	3.0mm to 8.0mm	Varifocal 2.8mm to 10mm	4.1mm to 73.8mm
Zoom	--	--	22x optical	2.6x optical	--	--	--	--	--	--	--	--	16x Optical, 12X Digital
Lens changeable	CS-Mount	Yes	No	No	CS-Mount	CS-Mount	CS-Mount	CS-Mount	CS-Mount	C-Mount	Yes	--	--
Ethernet network	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	10 Base T/ 100 Base TX (RJ45)	--	--	--	--	--	--	--	--	--
Power over Ethernet	802.3af	802.3af	--	802.3af	--	--	--	--	--	--	--	--	--
Auto white balance (AWB)	Yes	Yes	Normal/ wide	Normal/ wide	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AWB range	2500° K to 10000° K	2500° K to 10000° K	--	--	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	2500° K to 10000° K	--	2500° K to 10000° K	2500 K to 10000° K	3000 K to 7500° K
Synchronization system	Internal or AC line lock	Internal or AC line lock	--	--	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock	Internal or AC line lock
Day/night imaging	Yes	--	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes (Color)	Yes	Yes	Yes
Sharpness	--	--	Sharp/Standard/Off	Yes	--	--	Low/Mid/High	--	Low/Mid/High	--	--	--	--
Color gain	--	--	Yes	Yes	--	--	--	--	--	--	--	--	--
Digital noise reduction	--	--	--	Yes	--	--	Yes	--	Yes	Adaptive Recursive	--	Yes	Yes
Automatic gain control	--	--	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	350°	360° Continuous
Pan	--	--	350°	112°	--	--	--	--	--	--	--	146°	92°
Tilt	--	--	60°	54°	--	--	--	--	--	--	--	--	--
Optional external memory	SD card	--	SD card	SD card	--	--	--	--	--	--	--	--	--
Motion detection	--	--	Yes	Yes	--	--	--	--	--	--	--	--	--
Backlight compensation	Center-bottom (Dip-SW)	Center-bottom (Dip-SW)	Yes, selectable	Yes, selectable	Yes	Yes	Yes	Yes	Wide Dynamic (133x)	7 Mode, 16 Area Photometry	Center-bottom (Dip-SW)	Yes	Yes
Audio	Mic in/ Line out	--	Mic in/ Line out	Mic in/ Line out	--	--	--	--	--	--	--	--	--
Alarm I/O	--	--	Yes	Yes	--	--	--	--	--	--	--	--	--
Hybrid camera	IP and analog	IP and analog	--	--	--	--	--	--	--	--	--	--	--
Power	PoE, 24V AC & 12 V DC	PoE, 24V AC & 12 V DC	12 V DC	PoE, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC	24 V AC, 12 V DC
Power consumption	3 watts	4 Watts	10 Watts	10 Watts	4.5 Watts	4.5 Watts	4.5 Watts	4.5 Watts	4.5 Watts	6W (77° F), 12W (104° F)	4 Watts	3.5 Watts	3.5 Watts
Environmental rating	--	IP66	--	IPX3	--	--	--	--	--	--	IP66	--	--
Safety standard	UL2044	UL2044	UL2044	UL6500/cUL	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044	UL2044
Emission standard	FCC Class A, DOC Class A	FCC Class A	FCC Class A	FCC Class B	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A	FCC Class A
RoHS compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	--	Yes	Yes	Yes
Software	Camera Finder	Camera finder	Camera finder	Camera finder	--	--	--	--	--	--	--	--	--
Operating system	Linux	Linux	Linux	Linux	--	--	--	--	--	--	--	--	--
Vandal resistant	--	Yes	--	--	--	--	--	--	--	--	--	--	--
<b>ACCESSORIES</b>													
Enclosure w/sunshield*	FB-3010HB	--	FB-3610-92-HB-C	FB-3610-93-HB-C	FB-3010HB	FB-3010HB	FB-3010HB	FB-3010HB	FB-3010HB	FB-3010HB	--	--	JK-PHI/JK-PHO-S
Vandal resistant enclosure*	--	--	FB-3612-92-HB-C	--	--	--	--	--	--	--	--	--	JK-RPHI/JK-RPHO
Ceiling enclosure (2' x 2')	--	--	FBK1609-92-C	--	--	--	--	--	--	--	--	--	JK-CTA (requires JK-H01A)
Wall bracket	--	--	FSM-WB21	--	--	--	--	--	--	--	--	--	--
Wall mount	FSM-3009	--	FSM-3610	FSM-3610	FSM-3009	FSM-3009	FSM-3009	FSM-3009	FSM-3009	FSM-3009	--	--	JK-WM
Ceiling mount	FSM-3009	--	FSP-3610	FSP-3610	FSP-3009	FSP-3009	FSP-3009	FSP-3009	FSP-3009	FSP-3009	--	--	JK-H01A
Pole mount	--	--	FSA-3610	FSA-3610	--	--	--	--	--	--	--	--	JK-PMA
Corner mount	--	--	FSC-3610	FSC-3610	--	--	--	--	--	--	--	--	JK-CMA
Parapet Mount	--	--	FSRP3610 roof mount FSMP3610 wall mount FSCP3610 corner mount	FSRP3610 roof mount FSMP3610 wall mount FSCP3610 corner mount	--	--	--	--	--	--	--	--	JK-PM
Optional lens <i>* for inside/outside use</i>	Fujinon (see price sheet)	Fujinon YV3.3x15R4A-SA 15mm to 50mm @ F=1.5	--	--	Fujinon (see price sheet)	Fujinon (see price sheet)	Fujinon (see price sheet)	Fujinon (see price sheet)	Fujinon (see price sheet)	Fujinon (see price sheet)	--	Fujinon YV3.3x15R4A-SA 15mm to 50mm @ F=1.5	--

## CAMERA KITS



**WB02-KIT3-8**  
All-in-one kit includes:  

- IK-WB02A camera
- 2.9-8.0 mm AI lens
- 24 V AC, 20 VA transformer
- 6-inch universal mount (indoor use)



**WB02-KIT5-50**  
All-in-one kit includes:  

- IK-WB02A camera
- 5.0-50.0 mm AI lens
- 24 V AC, 20 VA transformer
- 6-inch universal mount (indoor use)

# Toshiba Digital Video Recorders

Toshiba America Information Systems, Inc.  
Surveillance & IP Video Products Group  
9740 Irvine Boulevard  
Irvine, CA 92618  
877.855-1349  
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## RECORDER MODEL Analog Channels IP Channels

	<b>XVR</b> 4, 16 CH OPT 4 CH	<b>DVR</b> 8, 16 CH --	<b>EVR</b> 8, 16, 32 CH --	<b>HVR</b> 8, 16, 32 CH 4, 16 CH	<b>IPR</b> -- 8, 16 CH	<b>NVR</b> -- 8, 16 CH	
<b>Resolutions</b>	720 x 480 (NTSC) 720 x 240 (NTSC) 360 x 240 (NTSC) 640 x 480 (NTSC) 640 x 240 (NTSC) 320 x 240 (NTSC)	720 x 480 (NTSC) 720 x 240 (NTSC) 360 x 240 (NTSC) 640 x 480 (NTSC) 640 x 240 (NTSC) 320 x 240 (NTSC)	720 x 480 (NTSC) 720 x 240 (NTSC) 360 x 240 (NTSC)	720 x 480 (NTSC) 720 x 240 (NTSC) 360 x 240 (NTSC) 640 x 480 (NTSC) 640 x 240 (NTSC) 320 x 240 (NTSC)	Resolutions depend upon the IP camera resolution	Resolutions depend upon the IP camera resolution	
<b>Video Input</b>	BNC x 4, 16	BNC x 8, 16	BNC x 8, 16, 32	BNC x 8, 16, 32	Up to 16	Up to 16	
<b>Video Output</b>	BNC x 16, SVGA x 1 (required)	BNC x 8, 16	BNC x 8, 16	BNC x 8, 16	SVGA x 1 (monitor not included)	SVGA x 1 (monitor not included)	
<b>Recording Rate</b>	<b>120 PPS</b> 120 PPS=CIF 120 PPS=2CIF 60 PPS=4CIF <b>60 PPS</b> 60 PPS=CIF 60 PPS=2CIF 30 PPS=4CIF	<b>480 PPS</b> 480 PPS=CIF 240 PPS=2CIF 120 PPS=4CIF <b>120 PPS</b> 120 PPS=CIF 120 PPS=2CIF 60 PPS=4CIF	<b>240 PPS</b> 240 PPS=CIF 120 PPS=2CIF 60 PPS=4CIF <b>60 PPS</b> 60 PPS=CIF 30 PPS=4CIF	<b>480 PPS</b> 480 PPS=CIF 240 PPS=2CIF 120 PPS=4CIF <b>240 PPS</b> 240 PPS=CIF 120 PPS=2CIF 60 PPS=4CIF	<b>480 PPS</b> 480 PPS=CIF 240 PPS=2CIF 120 PPS=4CIF <b>120 PPS</b> 120 PPS=CIF 60 PPS=2CIF 30 PPS=4CIF	Up to 480 PPS (30 PPS x 16 cameras)	Up to 480 PPS (30 PPS x 16 cameras)
<b>PTZ Controls and Protocols</b>	RS-232/422/485 (75+ protocols)	RS-232/422/485 (75+ protocols)	RS-232/422/485 (75+ protocols)	RS-422/232/485 (75+ protocols)	via IP protocols	via IP protocols	
<b>Storage Media</b>	Up to 1 TB internal	Up to 2 TB internal	Up to 4 TB internal	Up to 4 TB internal	Up to 1 TB internal	Up to 4 TB internal	
<b>LAN</b>	10/100 (1 GB Optional)	10/100 (1 GB Optional)	10/100 (1 GB Optional)	10/100 (1 GB Optional)	100/1000 MB Ethernet	100/1000 MB Ethernet	
<b>Average Image Size</b>	720 x 480 = 12K 720 x 240 = 6K 360 x 240 = 4K	720 x 480 = 12K 720 x 240 = 6K 360 x 240 = 4K	720 x 480 = 12K 720 x 240 = 6K 360 x 240 = 4K	720 x 480 = 12K 720 x 240 = 6K 360 x 240 = 4K	Dependent on IP Camera	Dependent on IP Camera	
<b>Password Control</b>	User-defined access control	User-defined access control	User-defined access control	User-defined access control	User-defined access control	User-defined access control	
<b>Power Interruption Recovery</b>	Automatic restart	Automatic restart	Automatic restart	Automatic restart	Automatic restart	Automatic restart	
<b>Remote Connection</b>	TCP/IP, UDP, Internet, LAN, WAN, ISDN, PSTN	TCP/IP, UDP, Internet, LAN, WAN, ISDN, PSTN	TCP/IP, UDP, Internet, LAN, WAN, ISDN, PSTN	TCP/IP, UDP, Internet, LAN, WAN, ISDN, PSTN	TCP/IP, UDP, Internet, LAN, WAN, ISDN, PSTN	TCP/IP, UDP, Internet, LAN, WAN, ISDN, PSTN	
<b>RAID 5 Support</b>	--	Optional	Optional	Optional	--	Optional	
<b>Critical Recording Archive</b>	DVD/RW, LAN, Internet (TCP/IP)	DVD/RW, LAN, Internet (TCP/IP)	DVD/RW, LAN, Internet (TCP/IP)	DVD/RW, LAN, Internet (TCP/IP)	DVD/RW, LAN, Internet (TCP/IP)	DVD/RW, LAN, Internet (TCP/IP)	
<b>Alarm Inputs/Outputs</b>	4 on 4 ch, Up to 16 on 16 ch	Up to 16	Up to 16	Up to 16 inputs/outputs	--	--	
<b>Audio Recording</b>	4 on 4 ch, 2 on 16 ch	Up to 4	4 on 8/16 ch, 8 on 32 ch	Up to 8	1 ch	2 ch	
<b>Operating System</b>	Windows® XP Embedded	Windows® XP Embedded	Windows® XP Embedded	Windows® XP Embedded	Windows® XP Embedded	Windows® XP Embedded	
<b>Power Input</b>	100-240 V AC (50 Hz/60 Hz)	100-240 V AC (50 Hz/60 Hz)	100-240 V AC (50 Hz/60 Hz)	100-240 V AC (50 Hz/60 Hz)	100-240 V AC (50 Hz/60 Hz)	100-240 V AC (50 Hz/60 Hz)	
<b>Mounting Rack</b>	3U Rack Mount Chassis	4U Rack Mount Chassis	5U Rack Mount Chassis	4U and 5U Rack Mount Chassis	3U Rack Mount Chassis	4U and 5U Rack Mount Chassis	
<b>Image Compression</b>	Proprietary MJPEG	Proprietary MJPEG	Proprietary MJPEG	Proprietary MJPEG	Proprietary MJPEG	Proprietary MJPEG	
<b>RAM</b>	512 MB	512 MB	512 MB	512 MB	1 GB	1 GB	
<b>CPU</b>	Celeron D 3.2 Ghz	Celeron D 3.2 Ghz	Celeron D 3.2 Ghz	Celeron D 3.2Ghz, Pentium D 3.4 Ghz	Pentium D 3.4 Ghz	Pentium D 3.4 Ghz	

<b>Included Software</b>						
<b>SCS Multi-Site Software:</b> Remotely connect to 100+ DVR units	Yes	Yes	Yes	Yes	Optional	Yes
<b>Remote Software:</b> View live video search export and save	Yes	Yes	Yes	Yes	Yes	Yes
<b>Emergency Agent:</b> Installs on a client desktop and opens when an alarm event occurs	Yes	Yes	Yes	Yes	Yes	Yes
<b>MDVR:</b> View video, control PTZ, search video on Pocket PC device	Yes	Yes	Yes	Yes	--	Yes
<b>Backup Viewer:</b> Play video saved in the DVR proprietary format	Yes	Yes	Yes	Yes	Yes	Yes

## SW-IP NETWORK VIDEO RECORDING SOFTWARE

	<b>8 Channel</b>	<b>16 Channel</b>
<b>REQUIREMENTS</b>		
Processor	Pentium 4, 3.2 Ghz	Pentium 4, 3.2 Ghz
Memory	512 MB DDR	1 GB DDR
Storage Space	based on video retention needs	
Video Card	8x 128 MB VGA	8x 128 MB VGA
Video Output	SVGA Monitor	SVGA Monitor
Internet Connection	100 MB	100 MB
Operating System	Windows XP® or 2003 Server®	
Removable Storage	CD-RW, DVD-RW, 3.5" Floppy Drive	
Audio Output	Microsoft compatible sound card and speakers	
<b>SOFTWARE</b>		
Video Input	8 Network Cameras	16 Network Cameras
Recording Rate	Up to 480 PPS	Up to 480 PPS
PTZ Control	Yes	Yes
Image Sizes	720 x 480 (12K) 720 x 240 (6K) 360 x 240 (3K)	720 x 480 (12K) 720 x 240 (6K) 360 x 240 (3K)
Password Control	User Defined	User Defined
Upgradeable	1 Channel Upgrade(s)	--

## IP CAMS SUPPORTED BY SURVEILLIX SOFTWARE

Toshiba	IK-WB01A, IK-WB02A, IK-WB11A, IK-WB21A, IK-WB15A, IK-WR01A
Arecont Vision	AV2100, AV3131, AV1300, 1V2000, AV3100, AV5100
AXIS	V1 and V2 FIRMWARE, VIDEO SERVERS
D-Link	DCS-2000, DSC-3220, DSC-5300, DCS-662 DCS-900
Lumenera	LE175C
Panasonic	BB-HCM381
Pixord	120/126, 200/206
Samsung	SCC-C6475
Securgen	NE-VS100, NE-VS104, NE-VS400
Vivotek	IP6122, FD6112V, PT7135, VS3100P

## ACCESS CONTROL SYSTEMS SUPPORTED BY SURVEILLIX SOFTWARE

CanSec	Maestro, SmartLock
Dice Systems	Aegis
DSX	WinDSX, WinDSX-SQL, DSX-Soft I/O
Galaxy	Galaxy Version 7 and Version 4
Hartmann Controls	Protector Series
Keyscan	Keyscan Management System VII, Vantage
MAXxess	AXXess, EndPoint

## INTEGRATION PLATFORMS SUPPORTED BY SURVEILLIX SOFTWARE

Cernium	Perceptrak
Vident	SmartCatch

## MANAGEMENT SYSTEM SOFTWARE INTEGRATION - TOSHIBA IP CAMERAS

Milestone	XProtect, RemoteManager
OnSSI	NetDVMS, NetDVR, NetGuard, ProSight
Genetec	Omnicast, Synergist, Autovu
ControlWare	CWare Prime
Broadware	
Strand USA	
IP Video Corp.	Dynaview
Video Protein	

## VIDEO SERVER ENCODERS & DECODERS

Video Server Digital Encoders and Decoders are an easy way to access video over the Internet. Take up to 4 analog cameras and stream video to either a centralized server for recording or use the included remote software to record onto a standard PC.

- 1 and 4 Channel Units Available (4 channel encoder only)
- MPEG-4 Compression
- Wireless B and G (optional) with Wireless Encryption
- Pre- and Post Alarm Recording
- Supports Dynamic IP and Dynamic DNS Addresses
- Up to 4 Sensor Inputs / Outputs
- Remote Operation and Configuration
- 120 PPS Real Time Display
- Supports PAN / TILT / ZOOM Cameras
- Dual-stream Technology (Supports two Simultaneous Streams)
- Compatible with most major IP device manufacturers