





## LCD Monitors



	P1710A	P1910A
LCD screen	17 inch	19 inch
Aspect ratio	5:4	5:4
Resolution scan	640 x 480 @ 56/60/75 Hz 800 x 600 @ 56/60/72/75 Hz 1024 x 768 @ 60/70/75 Hz 1280 x 1024 @ 60/75 Hz	640 x 480 @ 56/60/75 Hz 800 x 600 @ 56/60/72/75 Hz 1024 x 768 @ 60/70/75 Hz 1280 x 1024 @ 60/75 Hz
Brightness	350cd/m2	250cd/m2
Contrast	1000:1	1000:1
Dot pitch	0.264 (H) x 0.264 (V)	0.294 (H) x 0.294 (V)
Response time	5ms	4ms
Sync format	NTSC/PAL	NTSC/PAL
Input interfaces		
Video	D-SUB 15" x 1, DVI x 1, in/out x 2 BNC	D-SUB 15" x 1, DVI x 1, in/out x 2 BNC
Audio	In x 1, Out x 1 (mono)	In x 1, Out x 1 (mono)
Termination	75 ohm (auto termination)	75 ohm (auto termination)
Picture in picture	Yes	Yes
OSD language	English, 10 languages	English, 10 languages
VESA mounting	VESA	VESA
Weight	10.23 lbs (4.64 kg)	12.2 lbs (5.54 kg)
Dimensions (W x D x H)		
inches	15.2 x 16 x 9.4	15.2 x 17.2 x 9.4
mm	386 x 407 x 240	424 x 437 x 240
Safety & EMI	UL, CUL, FCC/B	UL, CUL, FCC/B
Power	DC 12V	DC 12V
Power consumption	40W max	40W max
Operating temperature	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)
Humidity	20% - 80%	20% - 80%
Accessories	Power cord, VGA cable, HDMI adapter, Manual	Power cord, VGA cable, HDMI adapter, Manual
Optional accessories	HS-RM17: Rack mount bracket	HS-RM19: Rack mount bracket
RoHS	Yes	Yes

## Recording Software



- Designed for non-proprietary hardware and IT infrastructures
- Record up to 32 IP-based cameras
- Cameras need not be onsite to record
- Cost-effective solution to traditional DVRs
- Records image resolutions as high as the IP Camera supports
- Complete remote management: Setup control, user administration, video backup, live viewing, and search capabilities

### SW-IP NETWORK VIDEO RECORDING SOFTWARE

REQUIREMENTS	8 Channel	16 Channel	32, 64 Channel
Processor	Core 2 Quad 2.33Ghz	Core 2 Quad 2.33Ghz	Core 2 Quad 2.83Ghz
Memory	2 GB DDR	2 GB DDR	3 GB DDR
Memory (w/POS)*	2 GB DDR	2 GB DDR	3 GB DDR
Storage space	based on video retention needs		
Video card	128MB PCI / PCIe / AGP Graphics adapter		
Video output	SVGA Monitor		
Network connection	100 MB	1000 MB	1000 MB
Operating system	Windows Vista, XP® or 2003 Server®		
Removable storage	CD-RW, DVD-RW		
Audio output	Microsoft® DirectX Compatible Soundcard		
SOFTWARE			
Video input	8 Network Cameras	16 Network Cameras	32 Network Cameras
Recording rate	Up to 30 FPS per camera		
PTZ control	Built-in Software Interface		
Image sizes	Determined By IP Camera		
Password control	User Defined		
Upgradeable	1, 4, 8, 16 Channel Upgrade(s)	--	--

### SURVEILLIX POS SOFTWARE



Software provides complete record of customer, cashier and merchandise purchased with text overlaid on video. POS/ATM data is stored on Surveillix DVR for access and search using several criteria. Below is a list of POS devices that are supported by Surveillix POS software. Please regularly check for the most current list by visiting [www.toshibasecurity.com](http://www.toshibasecurity.com).

- AVE (VSI-PRO)\*
- AVE (VSSI-PRO for ATM)\*
- VeriFone (Ruby/Sapphire)
- Vardells
- SIDG
- TVS
- Micros 9700, 3700, E-7
- Aloha
- POSitouch
- PC Based POS (RS-232)
- HAT (Honeywell Text Inserter)
- TEC
- ISS45 V7

\* A Cable 078 from AVE required for POS/ATM software integration

## DVR Compatibility

IP CAMERAS SUPPORTED	
Toshiba	IK-WB21A, IK-WB01A, IK-WB02A, IK-WB11A, IK-WB21A, IK-WB15A, IK-WR01A, IK-WD01A, IK-WB70A, IK-WB30A, IK-WB16A, IK-WB16A-W, IK-WR12A, IK-WB80A, IK-WD12A
ACTI	ACD-2100, ACD-2200, ACM-1011, ACM-1100, ACM-1231/1232, ACM-1311, ACM-1431, ACM-1511, ACM-3001, ACM-3011, ACM-3100, ACM-3211, ACM-3401/3411, ACM-3511, ACM-4000/4001, ACM-4100, ACM-4200/4201, ACM-5001, ACM-5601/5611, ACM-5711, ACM-7411, ACM-8201/8211, ACM-8511, CAM-5301/5321, CAM-6510, CAM-6610, CAM-6620, CAM-6630, CAM-7201, CAM-7301, CAM-7321 VIDEO SERVERS: SED2140
Arecont Vision	AV1300, AV1305, AV1355, AV2100, AV2105, AV2155, AV3100, AV3105, AV3155, AV5100, AV5105, AV5155, AV8155, AV8365
AXIS	205, 207/207W/207MW, 209FD/209FD-R, 209MFD/209MFD-R, 210/210A, 211/211A/211M/211W, 212 PTZ, 213 PTZ/214 PTZ, 215 PTZ, 216FD/ 216FD-W/ 216MFD/216MFD-V, 221, 223M, 225FD, 231D+, 232 D+, 233D, M1011/ M1011-W, M1031-W, P1311, P1343, P1344, P1346, Q1755, M3011, M3014, P3301/ P3301-V, P3343/ P3343-V/ P3343-VE, P3344/ P3344-V/ P3344-VE, Q6032, VIDEO SERVERS: Axis Video Servers (all)
D-Link	DCS2000, 3220, 5300, 6620, 900
IQ INVISION	IQEye-510, 511, 701, 702, 703, 705, 752, 753, 755, 040S, 041S, 042S, A20S, A22S, A23S, A25S, 851, 853, 855
Lumenera	LE175C
Mobotix	M1M
Panasonic	BB-HCM381, WV-NM100, WV-NP472, WV-NF284, WV-NP1000, WV-NP244, WV-NS202/ WV-NS202A, WV-NS954, WV-NW484, WV-NW964, WJ-NF302, WJ-NP304, WJ-NT304, WJ-NT314
Pixord	120/126, 200/206, 261
Samsung	SCC-C6475, SNC-B2315, SNC-B2355, SNC-B5368, SNC-B5395
Securgen	NE-VS100, NE-VS104, NE-VS400
Sony	SNC-CM120, SNC-CS10, SNC-CS11, SNC-CS20, SNC-CS50, SNC-DF40, SNC-DF50, SNC-DF70, SNC-DF80, SNC-DF85, SNC-DM110, SNC-DM160, SNC-DS10, SNC-DS60, SNC-P1, SNC-P5, SNC-RX530, SNC-RX550, SNC-RX570, SNC-RZ20, SNC-RZ25, SNC-RZ30, SNC-RZ50, SNC-Z20, SNT-704
Stardot	NetCam, NetCam SC, NetCam XL
Vivotek	IP6122, FD6112W, PT7135, VS3100P
ACCESS CONTROL SUPPORTED	
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	
Cernium	Perceptrak
Vidient	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
IP Configure	

For updates on compatibility please visit the Toshiba website: [www.toshibasecurity.com](http://www.toshibasecurity.com)

## TOSHIBA Leading Innovation >>>

### RECORDER MODEL Video/Recording

	DVSe 4U Hybrid Recorder	XVSe 3U Hybrid Recorder	NVSe 4U Network Recorder	IPSe 3U Network Recorder
Max Channels Supported	64	64	64	64
Analog Channels Included	8, 16, 32	16	--	--
IP Channels Included	8, 16, 32 (Expandable to 64 Max)	16 (Expandable to 64 Max)	8, 16, 32, 64 (Expandable to 64 Max)	8, 16, 32 (Expandable to 64 Max)
Analog Compression Formats	H.264, MPEG4, JPEG	H.264, MPEG4, JPEG	--	--
IP Compression Formats	H.264, MPEG4, JPEG	H.264, MPEG4, JPEG	H.264, MPEG4, JPEG	H.264, MPEG4, JPEG
Analog Frame Rate	240, 480 fps	240, 480 fps	--	--
IP Frame Rate	Up to 30 fps per camera <sup>1</sup>	Up to 30 fps per camera <sup>1</sup>	Up to 30 fps per camera <sup>1</sup>	Up to 30 fps per camera <sup>1</sup>
Analog Resolutions Supported	CIF: 320 x 240 2CIF: 720 x 240 4CIF: 720 x 480	CIF: 320 x 240 2CIF: 720 x 240 4CIF: 720 x 480	--	--
IP Resolutions Supported	Up to 5MP per camera <sup>1</sup>	Up to 5MP per camera <sup>1</sup>	Up to 5MP per camera <sup>1</sup>	Up to 5MP per camera <sup>1</sup>
ONVIF Compatible	Yes	Yes	Yes	Yes
Max HD Storage	12TB	9TB	12TB	9TB
Max Number of HD Drives	4	3	4	3
Removable HDD	Yes	No	Yes	No
RAID 5	Optional	No	Optional	No
External Storage Options	SCSI, eSATA x 1	SCSI, eSATA x 1	SCSI, eSATA x 1	SCSI, eSATA x 1
Optical Disc Drive	DVD/RW	DVD/RW	DVD/RW	DVD/RW
Alarm Inputs/Relay Outputs	8, 16 / 8, 16	16 / 4	-	-
Audio Inputs/Outputs	8, 16 / 8, 16 <sup>2</sup>	2, 16 / 2, 16 <sup>2</sup>	8, 16 / 2	2, 16 / 2
Monitor Output 1	DVI-D x 1	DVI-D x 1	DVI-D x 1	DVI-D x 1
Monitor Output 2	HDMI x 1	HDMI x 1	HDMI x 1	HDMI x 1
Composite Video Output	RCA x 1	RCA x 1	-	-
Ethernet	100/1000 Gigabit	100/1000 Gigabit	100/1000 Gigabit	100/1000 Gigabit
USB	USB 3.0 x 2, USB 2.0 x 8	USB 3.0 x 2, USB 2.0 x 8	USB 3.0 x 2, USB 2.0 x 8	USB 3.0 x 2, USB 2.0 x 8
Serial Interface	RS-232 for PTZ	RS-232 for PTZ	-	-
Keyboard/Mouse	Yes	Yes	Yes	Yes
Server OS	Windows 7 Embedded	Windows 7 Embedded	Windows 7 Embedded	Windows 7 Embedded
CPU	Intel Core i3 (Upgradeable to Core i7)	Intel Dual Core (Upgradeable to Core i7)	Intel Core i3, i5, i7 (Upgradeable to Core i7)	Intel Core i3, i5 (Upgradeable to Core i7)
RAM	2GB (Upgradeable to 4GB)	2GB (Upgradeable to 4GB)	2GB, 4GB (Upgradeable to 4GB)	2GB (Upgradeable to 4GB)
Rackmount size	4U	3U	4U	3U
Dimensions (LxWxH)	21.5"(54.61 cm) / 17.25"(43.815 cm) / 7"(17.78 cm)	21.5"(54.61 cm) / 17.25"(43.815 cm) / 5.25"(13.34 cm)	21.5"(54.61 cm) / 17.25"(43.815 cm) / 7"(17.78 cm)	21.5"(54.61 cm) / 17.25"(43.815 cm) / 5.25"(13.34 cm)
Weight	47 - 52 lbs	30 - 33 lbs	47 - 52 lbs	30 - 33 lbs
Power Requirements	100 - 240V AC (50Hz/60Hz)	100 - 240V AC (50Hz/60Hz)	100 - 240V AC (50Hz/60Hz)	100 - 240V AC (50Hz/60Hz)
Power Consumption	240 W (typical), 400 W (Max)	240 W (typical), 400 W (Max)	240 W (typical), 400 W (Max)	240 W (typical), 400 W (Max)
Redundant Power Supply	Optional	No	Optional	No
Remote Clients				
Surveillix Central Station (SCS)	Included	Included	Included	Optional
Remote Lite	Included	Included	Included	Included
Web Browser	Included	Included	Included	Included
Emergency Agent	Included	Included	Included	Included
Mobile Clients Supported				
Android	Yes	Yes	Yes	Yes
iPhone/iPad	Yes	Yes	Yes	Yes
Blackberry	Yes	Yes	Yes	Yes
Managed Recorder Health	Yes	Yes	Yes	Yes

Notes: 1: Refer to IP Calculator on [www.toshibasecurity.com](http://www.toshibasecurity.com) for IP camera limitations 2: 240V Models have 2 channels of audio

©2011 Toshiba America Information Systems, Inc. All rights reserved. All products and names mentioned are the property of their respective owners. While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. Rev. 12