

CBC (AMERICA) Corp.

Introduction to IP Products

*IP Cameras, IP Servers, NVR's, NVR
Servers, & Megapixel Lenses*



CA: 800-888-0131
NY: 800-422-6707
www.computarganz.com



With USA sales and distribution locations in both New York and California, CBC (America) Corp. is able to meet the needs of the North, South, and Central American markets



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CBC (AMERICA) Corp., is part of the CBC Group, a global organization with Corporate Headquarters in Tokyo, Japan.



CBC has more than 20 sales offices and manufacturing facilities worldwide.



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CBC (America) Corp

Capabilities

- Warehousing, Technical support and repair service located in NY & LA.
- Same day shipping most items.
- Nationwide Rep support across the US.
- Offer Sales & Technical training.
- Factories certified ISO 9001 & 9002
- High quality products that are supplied to many brand name OEM's



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CBC (America) Corp

Capabilities

- 3 year warranty on our core products.
- Preassembled kits to meet your specific job requirements.
- Drop shipment available to your branch or customer location.
- Offer customized product development.
- Full system supplier targeting security solutions.



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Our CCTV products are sold under 2 brand names:

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The world's largest variety of CCTV lenses.

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A full range of CCTV & IP cameras, DVRs, Monitors, and other equipment.



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IP Product Offerings

- Megapixel Lenses
- IPX Series (Hi resolution standard IP cameras)
- ZN Series (Entry level / Basic IP cameras)
- ZV Series (Analog to IP single channel video server)
- MP Series (Megapixel cameras)
- iPak IP kits
- Network Video Recorder Software
- NVR, Hybrid, & RAID-5 Servers.



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Megapixel Lenses

Full Range of computar® Monofocal & Varifocal Lenses



H0514-MP
5mm



M0814-MP
8mm



M1214-MP
12mm



M1614-MP
16mm



M2514-MP
25mm



M3514-MP
35mm



M5018-MP
50mm



M7528-MP
75mm



MLM3X-MP
90mm
Macro Zoom



M3Z1228C-MP
12mm ~ 36mm



H2Z0414C-MP
4mm ~ 8mm



HG2Z0414FC-MP
4mm ~ 8mm



TG4Z2813FCS-MPIR
2.8mm ~ 12mm



* H3Z4518CS-MPIR
4.5mm ~ 13.2mm

*New D/N IR Corrected
3 Megapixel Lens



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Megapixel Lenses

Full Range of computar® Monofocal & Varifocal Lenses

Model #	Type	Aperture	Focal Length	Mount	Iris	Specialty
*H3Z4518CS-MPIR	1/2"	f1.8	4.5mm ~ 13.2mm	CS	Manual	D/N IR / 3 MP
H2Z0414C-MP	1/2"	f1.4	4mm ~ 8mm	C	Manual	n/a
HG2Z0414FC-MP	1/2"	f1.4	4mm ~ 8mm	C	DC Auto	n/a
TG4Z2813FCS-MPIR	1/3"	f1.3	2.8mm ~ 12mm	CS	DC Auto	D/N IR
H0514-MP	1/2"	f1.4	5mm	C	Manual	n/a
M0814-MP	2/3"	f1.4	8mm	C	Manual	n/a
MP1214-MP	2/3"	f1.4	12mm	C	Manual	n/a
M1614-MP	2/3"	f1.4	16mm	C	Manual	n/a
M2514-MP	2/3"	f1.4	25mm	C	Manual	n/a
M3514-MP	2/3"	f1.4	35mm	C	Manual	n/a
M5018-MP	2/3"	f1.8	50mm	C	Manual	n/a
M7528-MP	2/3"	f2.8	75mm	C	Manual	n/a
MLM3X-MP	2/3"	f4.5	90mm	C	Manual	Macro Zoom
M3Z1228C-MP	2/3"	f2.8	12mm ~ 36mm	C	Manual	n/a

*New D/N IR Corrected 3 Megapixel Lens



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IPX Series



DDK-1000



DDK-1500D



DDK-1500

Model #	Resolution	Lux	Frame Rate	Power	Lens Type
DDK-1000	400 TV lines	1.5	Up to 30 fps	5VDC	1/4" C/CS, DC AI
DDK-1500	520 TV lines	Day 0.5 / Night 0.03	Up to 30 fps	PoE or 12VDC	1/3" C/CS, DC AI
DDK-1500D	530 TV lines	Day 0.5 / Night 0.00 (w/IR)	Up to 30 fps	PoE or 12VDC	3.7-12mm AI DC



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IPX Series Compatible NVR's

	DDK-1000	DDK-1500
3VR	no	no
7 Star	oem	no
Acuity-VCT	no	no
Aimetus	yes	yes
Alnet	no	no
Artec Tech	no	no
Beausoft / Netcam	oem	oem
Bosch	no	no
CAMACC	no	no
CBC / ZNR	yes	yes
Codestuff	no	no
D3Data	no	no
Digiop	no	no
DVTel	no	no
Electronics Line	no	no
Exacq Tech	no	no
GE	no	no
Genetec	no	no
GeoVision	no	no
Geutebruck	no	no
Griffid	no	no
GVD	no	no
Hawkeye	no	no
Honeywell Fusion	no	no
Honeywell Enterprise	no	no
IDCS	no	no

*NVR Manufactures listed in Alphabetical order.

	DDK-1000	DDK-1500
Instek Digital	no	no
Integral	no	no
IVC	no	no
J2K	no	no
LuxRiot	oem	oem
March Networks	no	no
Milestone	oem	oem
Mirasys Ltd.	no	no
Nice - FAST	no	no
NUUO	no	no
ONSSI	oem	oem
PC Open	no	no
Pac Integrations	no	no
Pheonix IVS	no	no
Quadrox	no	no
Samsung	no	no
Toshiba	no	no
TridentTek	no	no
Verint	no	no
Video Insight	no	no
VideoProtein	no	no
ViSEC Surveillance	no	no
Wavestore	no	no

*NVR Manufactures listed in Alphabetical order.



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ZN Series



ZN-PT304L



ZN-YH305



ZN-D2024

<u>Model #</u>	<u>Resolution</u>	<u>Lux</u>	<u>Frame Rate</u>	<u>Power</u>	<u>Lens Type</u>
ZN-PT304L	640x480	1.5	30 fps	12 VDC	4mm
ZN-YH305	640x480	0.6	30 fps	PoE or 12 VDC	C/CS
ZN-D2024	640x480	1.5	30 fps	PoE or 12 VDC	2-4mm VF



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ZV Series



ZV-S306

<u>Server Model #</u>	<u>Resolution</u>	<u>PTZ</u>	<u>Frame Rate</u>	<u>Power</u>	<u>Networking</u>
ZV-S306	640x480	RS485/Pelco D	30 fps	12 VDC	10/100 Mbps Ethernet, RJ-45



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ZN & ZV Series Compatible NVR's

	ZN-PT304L	ZN-YH305	ZN-D2024	ZV-S306
3VR	no	no	no	no
7 Star	no	no	no	no
Acuity-VCT	no	no	no	no
Aimetis	oem	oem	oem	oem
Alnet	no	no	no	no
Artec Tech	no	no	no	oem
Beausoft / Netcam	oem	oem	oem	oem
Bosch	no	no	no	no
CAMACC	no	no	no	no
CBC / ZNR	yes	yes	yes	yes
Codestuff	oem	oem	oem	oem
D3Data	no	no	no	no
Digiop	no	no	no	no
DVTel	no	no	no	no
Electronics Line	no	no	no	no
Exacq Tech	oem	yes	yes	no
GE	no	no	no	no
Genetec	no	no	no	no
GeoVision	no	no	no	no
Geutebruck	no	no	no	no
Griffid	no	no	no	no
GVD	no	no	no	no
Hawkeye	no	no	no	no
Honeywell Fusion	no	no	oem	no
Honeywell Enterprise	no	no	oem	no
IDCS	no	no	no	no

*NVR Manufactures listed in Alphabetical order.

	ZN-PT304L	ZN-YH305	ZN-D2024	ZV-S306
Instek Digital	no	no	no	no
Integral	no	no	no	no
IVC	no	no	no	no
J2K	no	no	no	no
LuxRiot	oem	oem	oem	oem
March Networks	no	no	no	no
Milestone	yes	yes	yes	no
Mirasys Ltd.	no	no	no	no
Nice - FAST	no	no	no	no
NUUO	oem	oem	oem	oem
ONSSI	yes	oem	yes	no
PC Open	no	no	oem	no
Pac Integrations	no	no	no	no
Pheonix IVS	no	no	no	no
Quadrox	no	no	no	no
Samsung	no	no	no	no
Toshiba	no	no	oem	no
TridentTek	no	no	no	no
Verint	no	no	no	no
Video Insight	oem	no	no	no
VideoProtein	no	no	no	no
ViSEC Surveillance	no	no	no	no
Wavestore	no	no	no	no

*NVR Manufactures listed in Alphabetical order.



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Megapixel Cameras

Color A/I - MJPEG

<u>Model #</u>	<u>Resolution</u>	<u>Lux</u>	<u>Frame Rate</u>	<u>Power</u>	<u>Lens Type</u>
MP1A	1.3MP (1280x1024)	0.1	30 fps @ 1280x1024	PoE or 12-48VDC	1/2" C/CS, DC AI
MP2A	2MP (1600x1200)	0.1	24 fps @ 1600x1200	PoE or 12-48VDC	1/2" C/CS, DC AI
MP3A	3MP (2048x1536)	0.2	15 fps @ 2048x1536	PoE or 12-48VDC	1/2" C/CS, DC AI
MP3DN-2	Day 3MP (2084x1536) / Night 1.3MP (1280x1024)	Color 0.2 / B/W .01	15 fps @ 2048x1536 / 30 fps @ 1280x1024	PoE or 12-48VDC	1/2" C/CS, DC AI
MP5A	5MP (2592x1944)	0.3	9 fps @ 2592x1944	PoE or 12-48VDC	1/2" C/CS, DC AI
MP8P (180)	(4) 2MP (1600x1200)	0.2	22 fps @ 1600x1200 or 88 fps @ 800x600	PoE or 9-12VDC	(4) 8mm lens included
MP8D-L4 (360)	(4) 2MP (1600x1200)	0.2	22 fps @ 1600x1200 or 88 fps @ 800x600	PoE or 9-12VDC	(4) 4mm lens included

D/N - H.264 or MJPEG

<u>Model #</u>	<u>Resolution</u>	<u>Lux</u>	<u>Frame Rate</u>	<u>Power</u>	<u>Lens Type</u>
MP1DN	1.3MP (1280x1024)	Color 0.1 / D/N: 0 Lux	30 fps @ 1280x1024	PoE or 12-48VDC	1/2" C/CS
MP2DN	2MP (1600x1200)	Color 0.1 / D/N: 0 Lux	24 fps @ 1600x1200	PoE or 12-48VDC	1/2" C/CS
MP3DN	3MP (2048x1536)	Color 0.2 / D/N: 0 Lux	15 fps @ 2048x1536	PoE or 12-48VDC	1/2" C/CS
MP5DN	5MP (2592x1944)	Color 0.3 / D/N: 0 Lux	9 fps @ 2048x1536	PoE or 12-48VDC	1/2" C/CS



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Megapixel Cameras

(MJPEG)



MP1A



MP2A



MP3A



MP5A



MP3DN-2



MP8D-L4



MP8P



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Megapixel DN Cameras

(H.264 / MJPEG)



MP1DN



MP2DN



MP3DN



MP5DN



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MP Series Compatible NVR's

	MP1A	MP2A	MP3A	MP3DN-2	MP5A	MP8P	MP8D-L4
3VR	oem	oem	oem	oem	no	no	no
7 Star	no	no	no	no	no	no	no
Acuity-VCT	oem	oem	oem	oem	oem	oem	oem
Aimetec	oem	oem	oem	oem	oem	oem	oem
Alnet	oem	oem	oem	oem	oem	oem	oem
Artec Tech	oem	oem	oem	oem	oem	no	no
Beausoft / Netcam	no	no	no	no	no	no	no
Bosch	oem	oem	oem	oem	oem	oem	oem
CAMACC	oem	oem	oem	oem	oem	oem	oem
CBC / ZNR	yes	yes	yes	yes	yes	yes	yes
Codestuff	oem	oem	oem	oem	oem	oem	oem
D3Data	oem	oem	oem	oem	oem	oem	oem
Digiop	oem	oem	oem	oem	oem	oem	oem
DVTel	oem	oem	oem	oem	oem	oem	oem
Electronics Line	oem	oem	oem	oem	oem	oem	oem
Exacq Tech	yes	yes	yes	yes	yes	yes	yes
GE	oem	oem	oem	oem	oem	oem	oem
Genetec	oem	oem	oem	oem	oem	oem	oem
GeoVision	oem	oem	oem	no	oem	no	no
Geutebruck	oem	oem	oem	oem	oem	oem	oem
Griffid	oem	oem	oem	oem	oem	oem	oem
GVD	oem	oem	oem	oem	oem	oem	oem
Hawkeye	oem	oem	oem	oem	oem	oem	oem
Honeywell Fusion	no	oem	oem	no	oem	no	no
Honeywell Enterprise	no	oem	oem	no	oem	no	no

*NVR Manufactures listed in Alphabetical order.

	MP1A	MP2A	MP3A	MP3DN-2	MP5A	MP8P	MP8D-L4
IDCS	oem	oem	oem	oem	oem	oem	oem
Instek Digital	oem	oem	oem	oem	oem	oem	oem
Integral	oem	oem	oem	oem	oem	oem	oem
IP Vision Software	oem	oem	oem	oem	oem	oem	oem
ISN	oem	oem	oem	oem	oem	oem	oem
IVC	oem	oem	oem	oem	oem	oem	oem
J2K	oem	oem	oem	oem	oem	oem	oem
Mirasys Ltd.	oem	oem	oem	oem	oem	oem	oem
Nice - FAST	oem	oem	oem	oem	oem	oem	oem
NUUO	oem	oem	oem	oem	oem	oem	oem
ONSSI	oem	oem	oem	oem	oem	oem	oem
PC Open	no	oem	oem	no	oem	no	no
Pac Integrations	oem	oem	oem	oem	oem	oem	oem
Pheonix IVS	oem	oem	oem	oem	oem	oem	oem
Quadrox	no	no	no	no	no	no	no
Samsung	oem	oem	oem	oem	oem	oem	oem
Toshiba	no	oem	oem	no	oem	no	no
TridentTek	oem	oem	oem	oem	oem	oem	oem
Verint	no	no	no	no	no	no	no
Video Insight	no	no	no	oem	no	no	oem
VideoProtein	oem	oem	oem	oem	oem	oem	oem
ViSEC Surveillance	oem	oem	oem	oem	oem	oem	oem
Wavestore	oem	oem	oem	oem	oem	oem	oem

*NVR Manufactures listed in Alphabetical order.

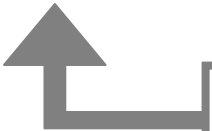


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Resolution 101

<u>Resolution</u>	<u>Pixels</u>	<u>Camera & Server Model</u>
640x480	0.3MP	IPX, ZN, & ZV Series
1280x720	0.9MP	HDTV 720p
1280x1024	1.3MP	MP1A & MP3DN-2 (Night Sensor)
1600x1200	2MP	MP2A
1920x1080	2.1MP	HDTV 1080p
2048x1536	3MP	MP3A & MP3-DN-2 (Day Sensor)
2592x1944	5MP	MP5A
6400x1200	8MP	MP8P* & MP8D-L4**



4x 2MP Cameras yield 180°* & 360°
Field Of View**



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Megapixel Video delivers HDTV imagery for resolution-sensitive applications

Industry



Transportation



Retail



Government



Face recognition



Casino monitoring



Financial transactions



License plate ID

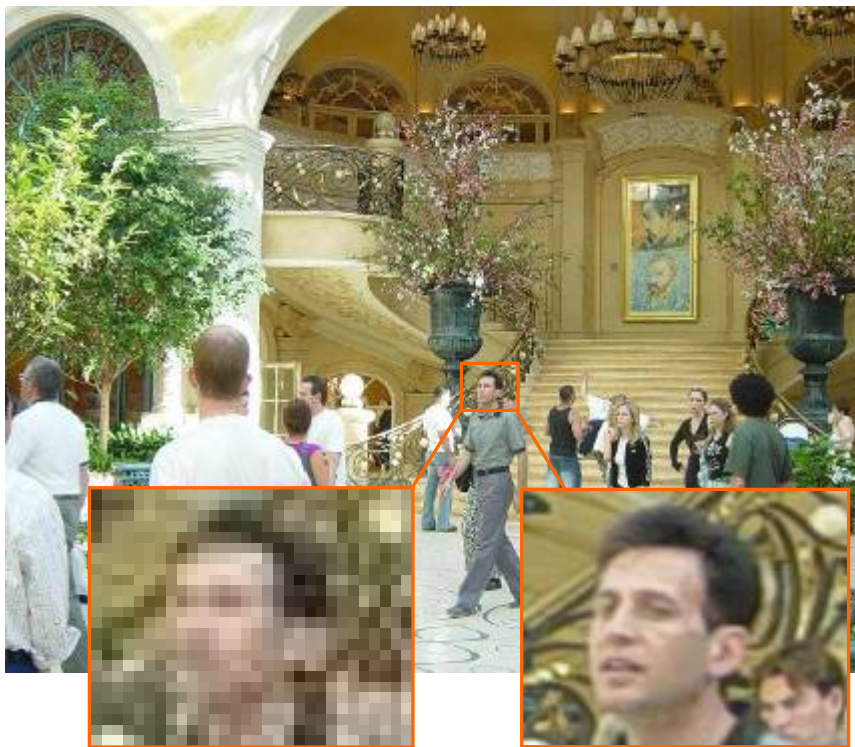


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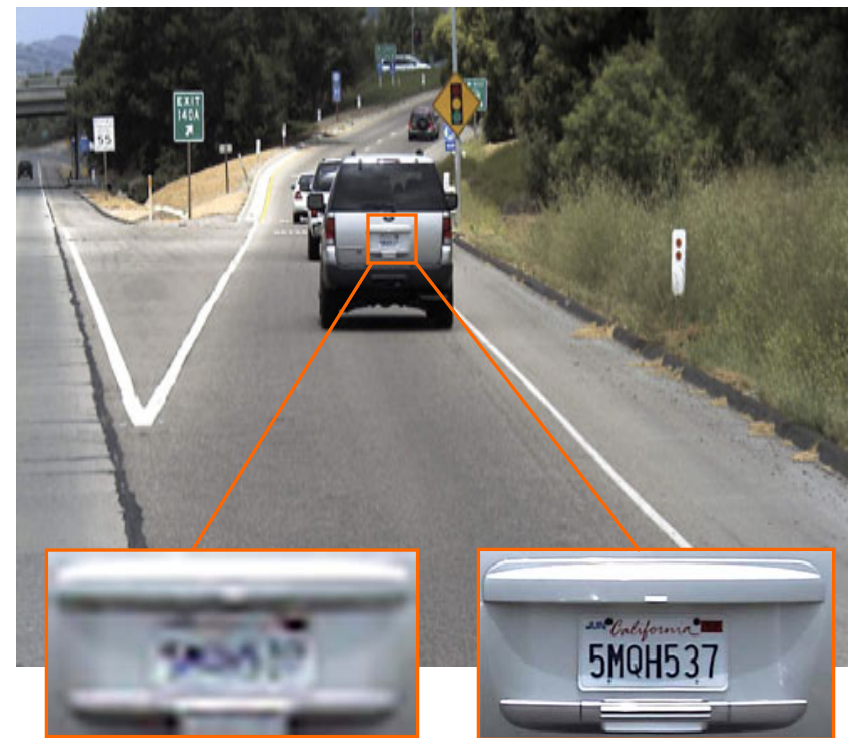
Analog versus Megapixel

Despite significant progress in consumer imaging, video surveillance still stems from low-resolution cameras established on the Analog standard.



**720x480
NTSC CCTV System**

**1.3 Megapixel Video
System**



**720x480
NTSC CCTV System**

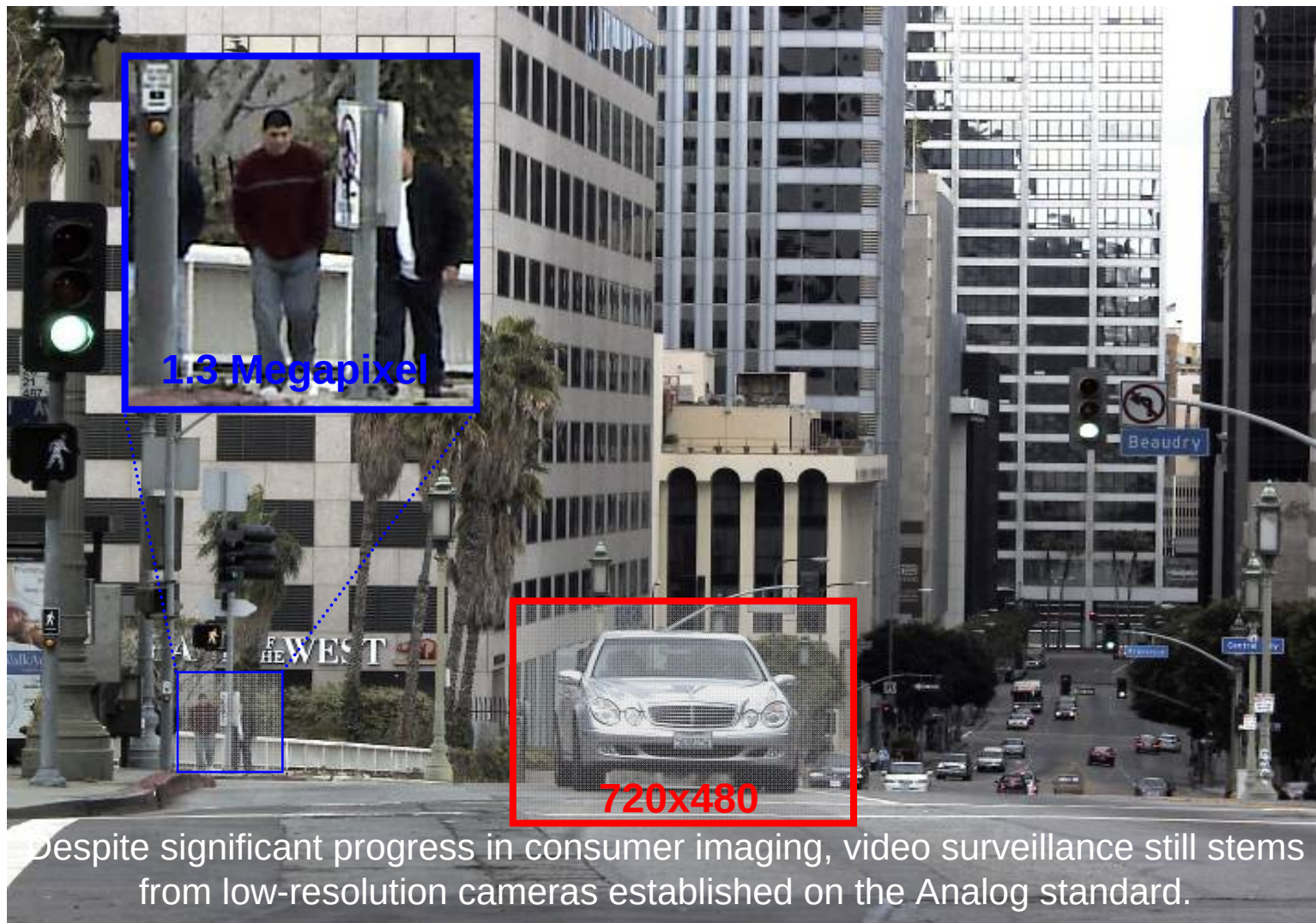
**2 Megapixel Video
System**



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The Problem – Limited Resolution



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The Problem – Limited Field of View



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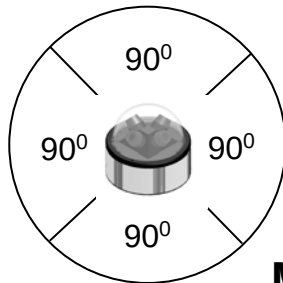
Panoramic View Video (8 Megapixel)

Instantaneous Electronic Pan, Tilt & Zoom with Simultaneous Delivery of Panoramic and Zoomed Video

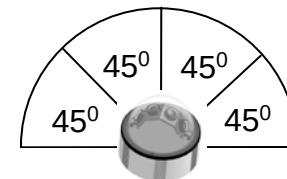
360°



8 Mpix



MP8D-L4 - 360°



MP8P - 180°



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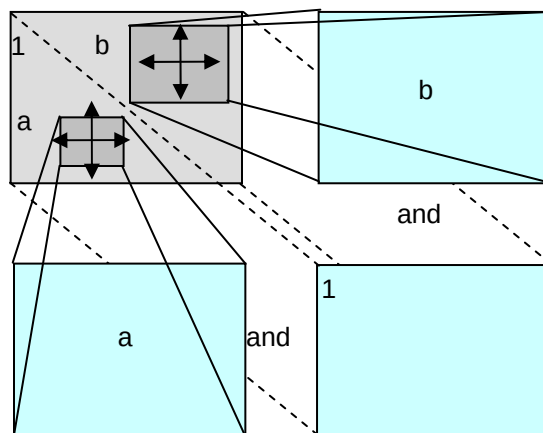
Difference between Mechanical and Digital PTZ



640x480
(NTSC/PAL)



Existing Mechanical PTZ allow either Full FOV Image **OR** Zoomed Image, but not both.



Megapixel cameras can simultaneously display Full FOV **&** Digitally Zoomed Image!



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Reduced Total System Cost

- **Reduced cameras to install**

Mega Pixel Cameras can replace up to 5 NTSC cameras inclusive of Camera mounts, wiring, lenses, enclosures.

- **Reduced wiring cost**

Ethernet is less expensive than Coax.

- **No External Power Required**

Cameras are powered via “Switch” Powered Over Ethernet (802.3AF). Cameras continue recording when power is cut with a single UPS installed.

- **Easily Expanded**

Plug additional cameras into the network switch.

- **Simplicity**

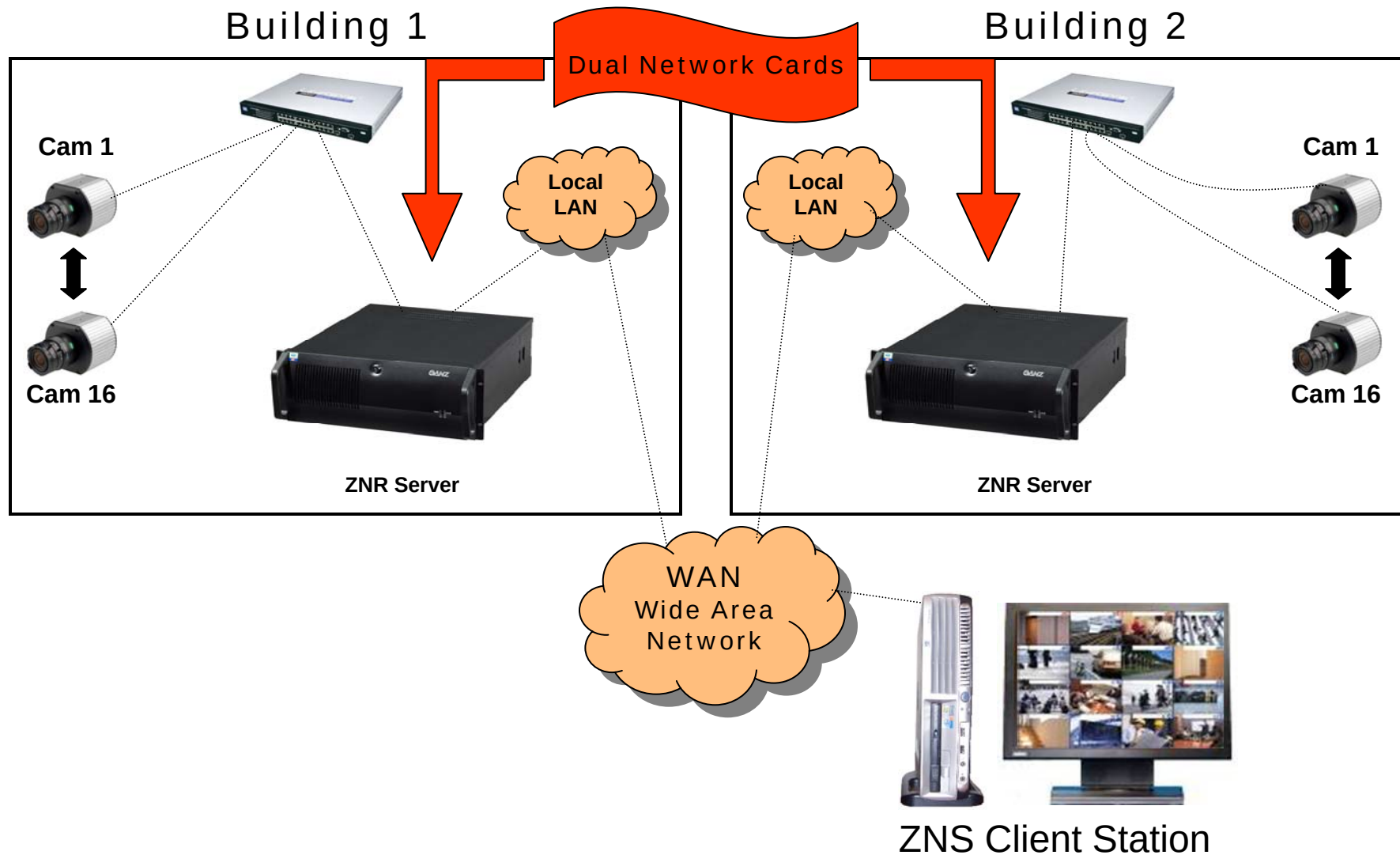
Simple Installation.



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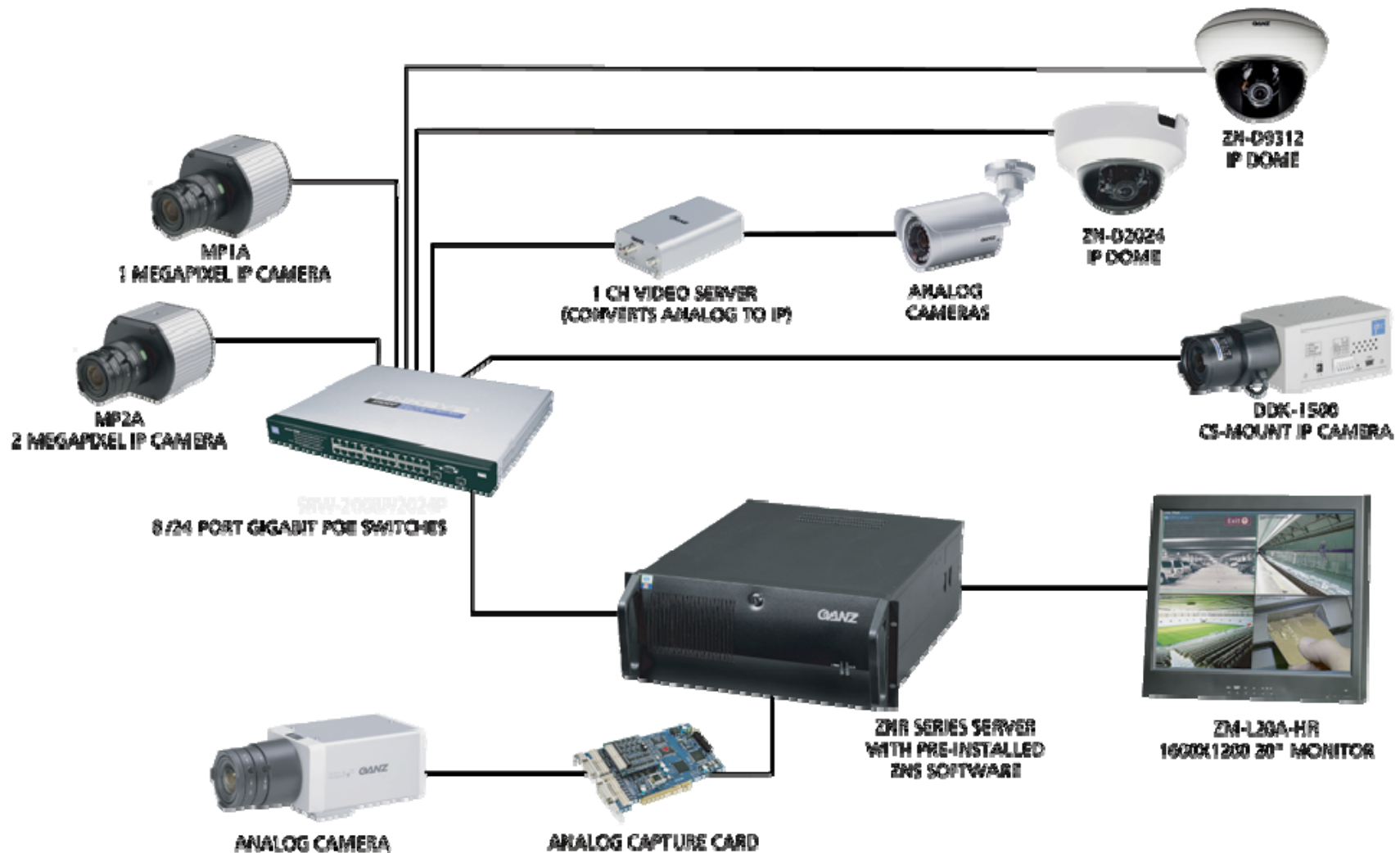
IP Megapixel Topology



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ZNR Hybrid Topology



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Bandwidth Calculations for Network Design

	7.5 FPS			
	MP1A	MP2A	MP3A	MP5A
1	12.37	17.47	27.03	43.27
2	24.74	34.94	54.06	86.54
3	37.11	52.41	81.09	129.81
4	49.48	69.88	108.12	173.08
5	61.85	87.35	135.15	216.35
6	74.22	104.82	162.18	259.62
7	86.59	122.29	189.21	302.89
8	98.96	139.76	216.24	346.16
9	111.33	157.23	243.27	389.43
10	123.7	174.7	270.3	432.7
11	136.07	192.17	297.33	475.97
12	148.44	209.64	324.36	519.24
13	160.81	227.11	351.39	562.51
14	173.18	244.58	378.42	605.78
15	185.55	262.05	405.45	649.05
16	197.92	279.52	432.48	692.32

	30 FPS	24 FPS	20 FPS	15 FPS
	MP1A	MP2A	MP3A	MP5A
1	49.5	55.92	72.07	86.54
2	99	111.84	144.14	173.08
3	148.5	167.76	216.21	259.62
4	198	223.68	288.28	346.16
5	247.5	279.6	360.35	432.7
6	297	335.52	432.42	519.24
7	346.5	391.44	504.49	605.78
8	396	447.36	576.56	692.32
9	445.5	503.28	648.63	778.86
10	495	559.2	720.7	865.4
11	544.5	615.12	792.77	951.94
12	594	671.04	864.84	1038.48
13	643.5	726.96	936.91	1125.02
14	693	782.88	1008.98	1211.56
15	742.5	838.8	1081.05	1298.1
16	792	894.72	1153.12	1384.64

*Measured in Mbps utilizing MJPEG.



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MP Series Storage Calculations

Camera	3 FPS				5 FPS				7 FPS			
	MP1A	MP2A	MP3DN	MP5A	MP1a	MP2A	MP3DN	MP5A	MP1A	MP2A	MP3DN	MP5A
1	42.77	60.39	95.64	153.12	71.28	100.66	159.41	255.22	99.79	140.92	223.17	357.30
2	85.54	120.78	191.28	306.24	142.56	201.32	318.82	510.43	199.58	281.84	446.34	714.59
3	128.31	181.17	286.92	459.36	213.84	301.98	478.23	765.65	299.37	422.76	669.51	1071.89
4	171.08	241.56	382.56	612.48	285.12	402.64	637.64	1020.86	399.16	563.68	892.68	1429.18
5	213.85	301.95	478.20	765.60	356.40	503.30	797.05	1276.08	498.95	704.60	1115.85	1786.48
6	256.62	362.34	573.84	918.72	427.68	603.96	956.46	1531.29	598.74	845.52	1339.02	2143.77
7	299.39	422.73	669.48	1071.84	498.96	704.62	1115.87	1786.51	698.53	986.44	1562.19	2501.07
8	342.16	483.12	765.12	1224.96	570.24	805.28	1275.28	2041.72	798.32	1127.36	1785.36	2858.36
9	384.93	543.51	860.76	1378.08	641.52	905.94	1434.69	2296.94	898.11	1268.28	2008.53	3215.66
10	427.70	603.90	956.40	1531.20	712.80	1006.60	1594.10	2552.15	997.90	1409.20	2231.70	3572.95
11	470.47	664.29	1052.04	1684.32	784.08	1107.26	1753.51	2807.37	1097.69	1550.12	2454.87	3930.25
12	513.24	724.68	1147.68	1837.44	855.36	1207.92	1912.92	3062.58	1197.48	1691.04	2678.04	4287.54
13	556.01	785.07	1243.32	1990.56	926.64	1308.58	2072.33	3317.80	1297.27	1831.96	2901.21	4644.84
14	598.78	845.46	1338.96	2143.67	997.92	1409.24	2231.74	3573.02	1397.06	1972.88	3124.38	5002.13
15	641.55	905.85	1434.60	2296.79	1069.20	1509.90	2391.15	3828.23	1496.85	2113.80	3347.55	5359.43
16	684.32	966.24	1530.24	2449.91	1140.48	1610.56	2550.56	4083.45	1596.64	2254.72	3570.72	5716.72

*Storage Requirement of ONE DAY Continuous Recording. Measured in GB. Utilizing MJPEG.



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ZNS Series NVR Software



Compatible with all GANZ IP Cameras (including Megapixel) and video servers.

Intuitive user interface requires minimal training.

Network Camera Search Wizard finds all available IP cameras.

Package	Shareware	Basic	Professional	Advanced	Enterprise
Maximum No. of Cameras	1	4	9	16	Unlimited*
Maximum Simultaneous Remote Client Connections	1	1	3	5	Unlimited*

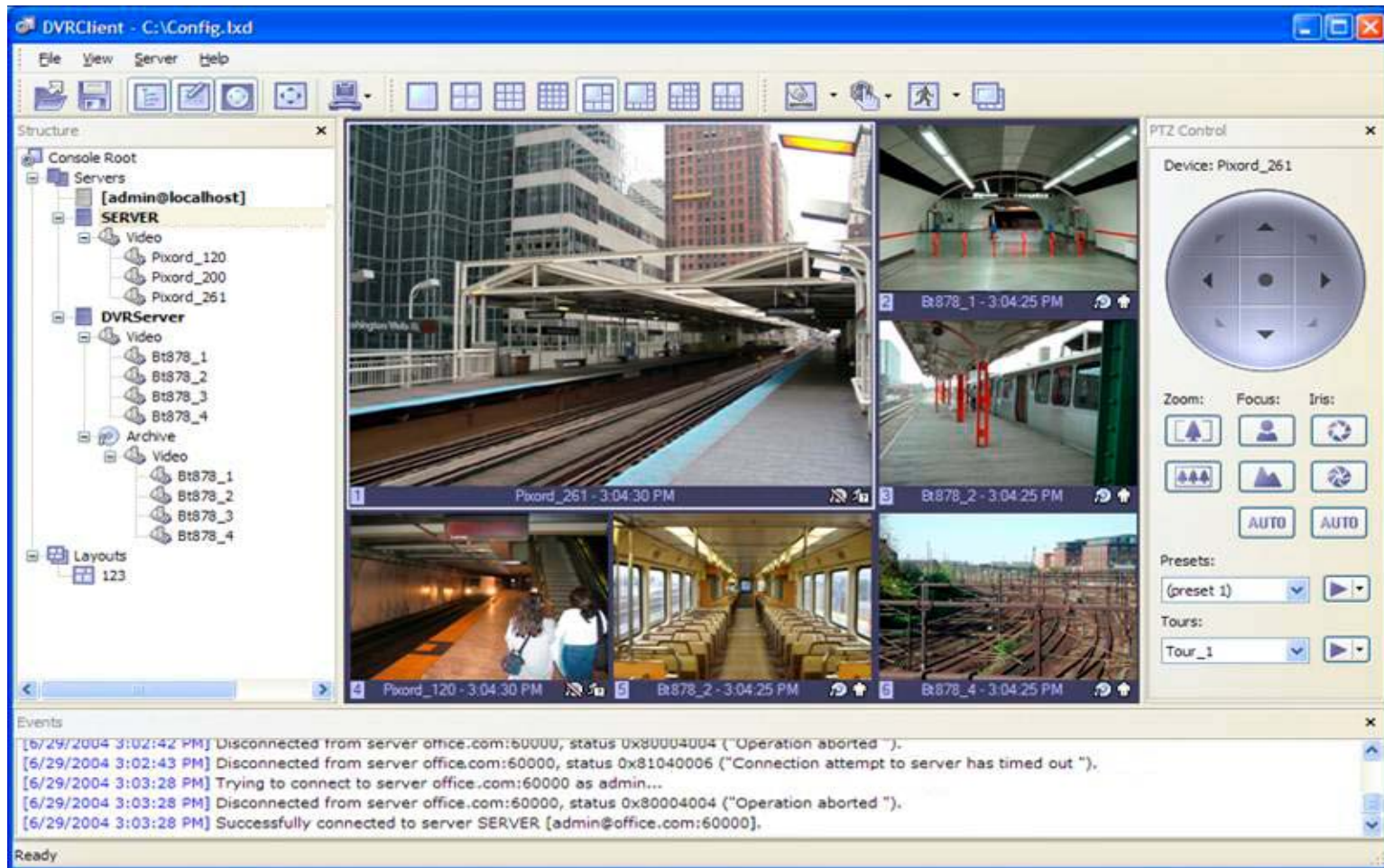
***Per Server; Limitations based on hardware specs & network speed.**



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ZNS Software



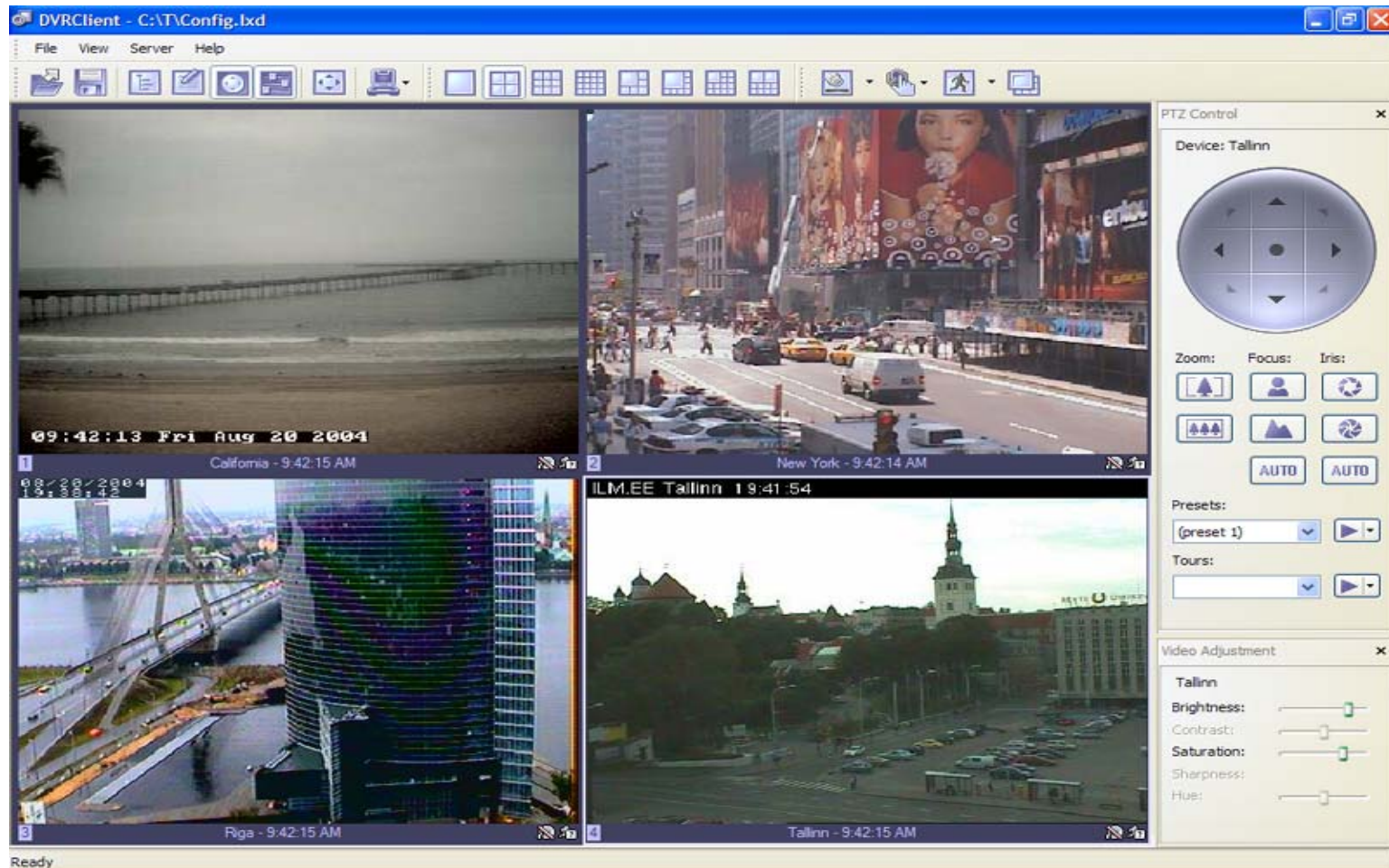
ZNS Software Client can efficiently utilize different screen resolutions including WXGA (wide screen).



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ZNS Software



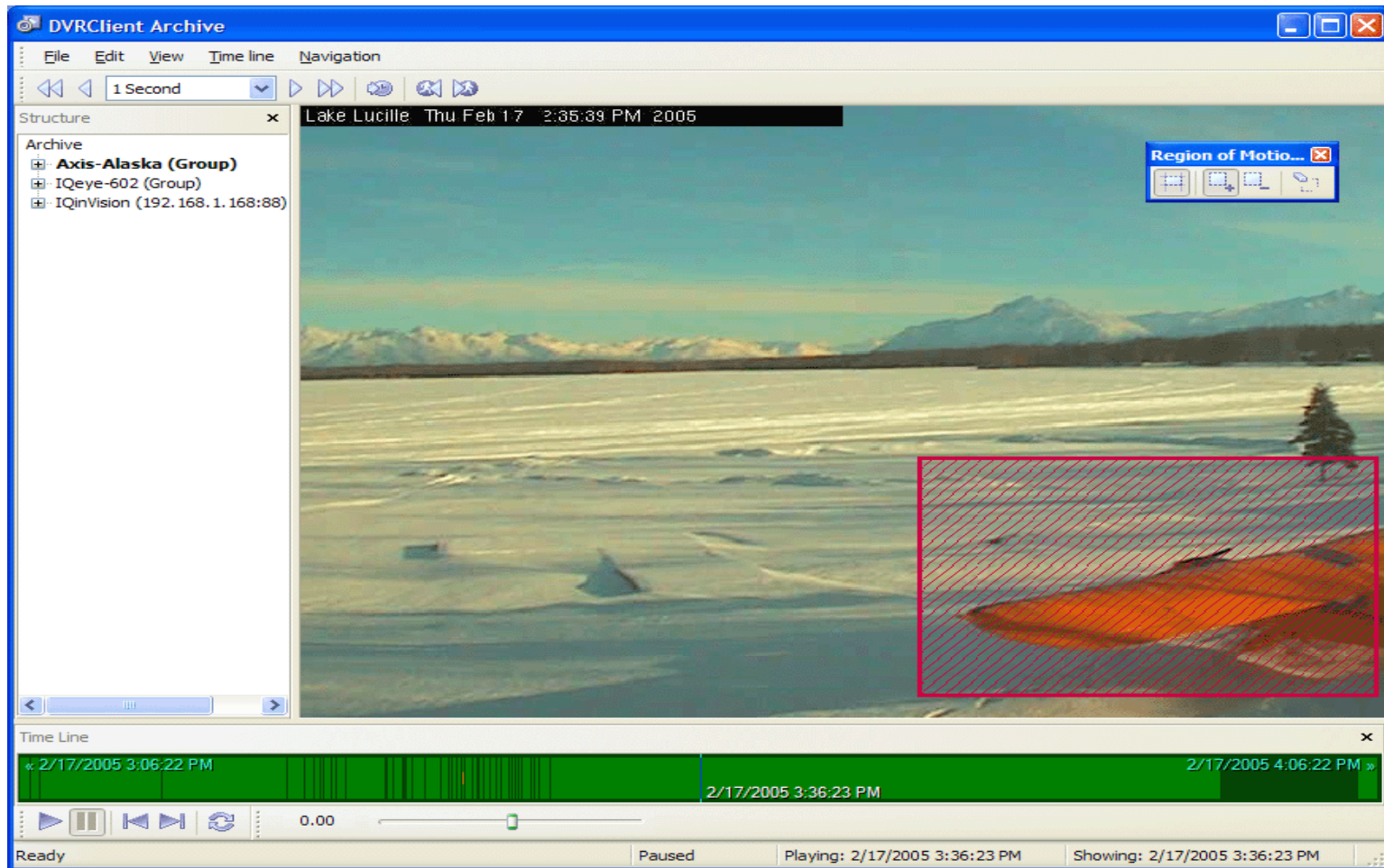
Besides variety of video windows configuration, ZNS Software allows every utility pane to be positioned anywhere on the screen.



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Besides standard navigation through the recorded video, ZNS Software also has the ability to search for motion in the specified regions.



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ZNS Software

Network Camera Search Wizard

Assign network (IP) camera
Please select a network camera to be assigned

IP Address	HTML Title	Brand	Port
 192.168.1.86*	home.htm	Pixord	80
 192.168.1.85*	home.htm	Pixord	80

Please select network (IP) cameras which have to be added to the server. The already existed cameras (marked with asterisk) will not be added. Press Next, to assign chosen cameras to the server.

< Back Next > Cancel

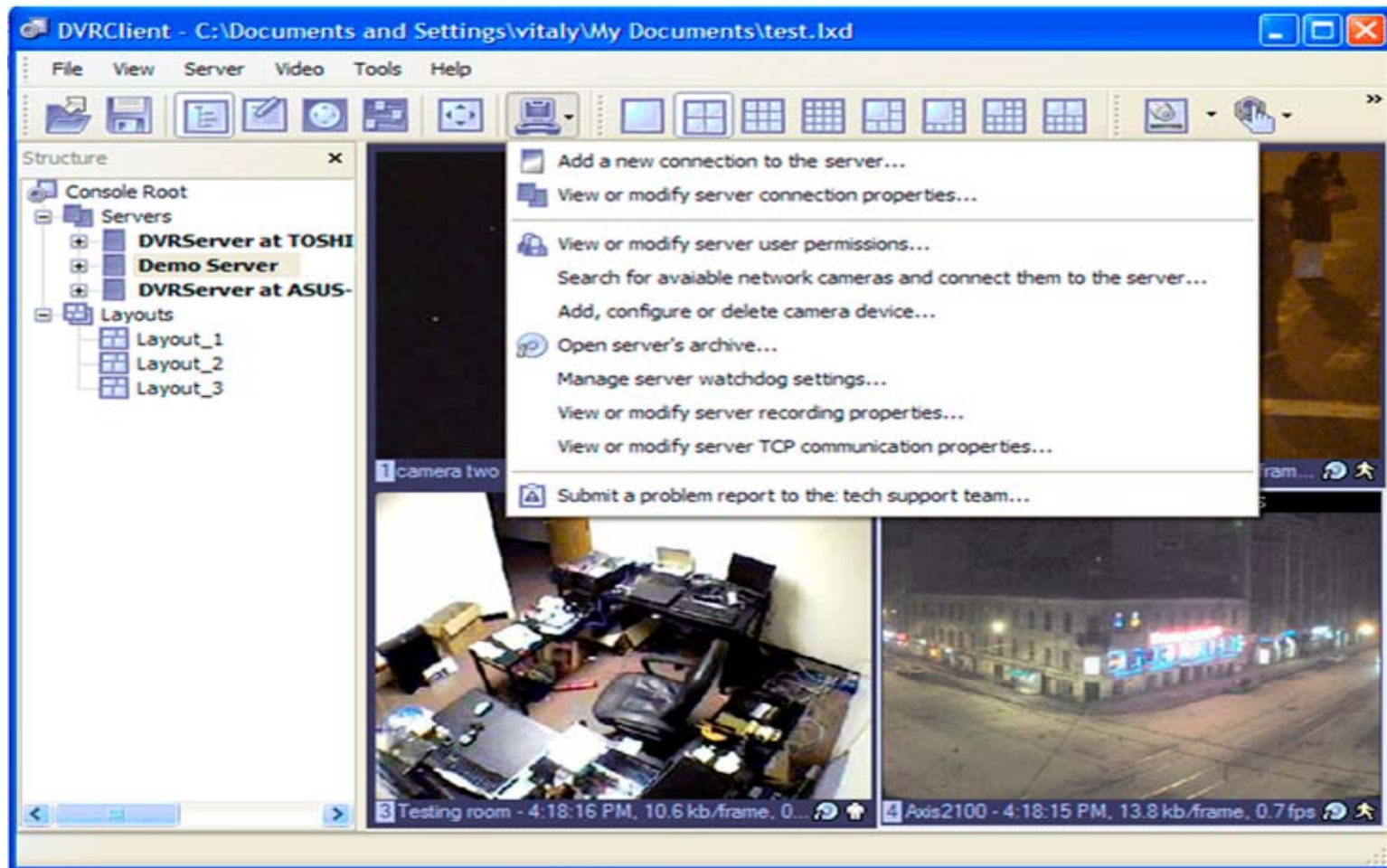
Network Camera Search Wizard can auto detect all Network (IP) cameras on your local network or on the specified sub-network.



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ZNS Software



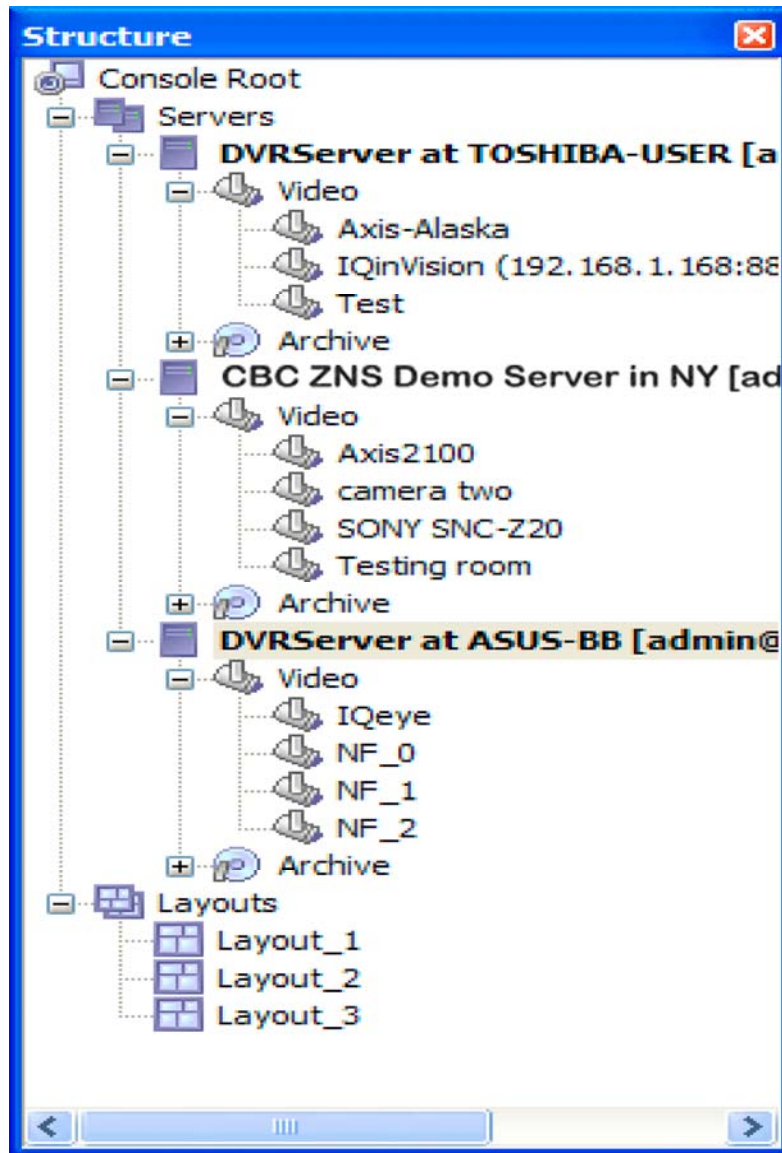
Configuring ZNS Software is a simple and intuitive process since it's done via user-friendly wizards.



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ZNS Software



ZNS Client allows you to have simultaneous connections to several servers. Cameras from different physical servers could be combined into the logical groups Layouts, which specify video screen configuration and actual cameras to be displayed in the windows.

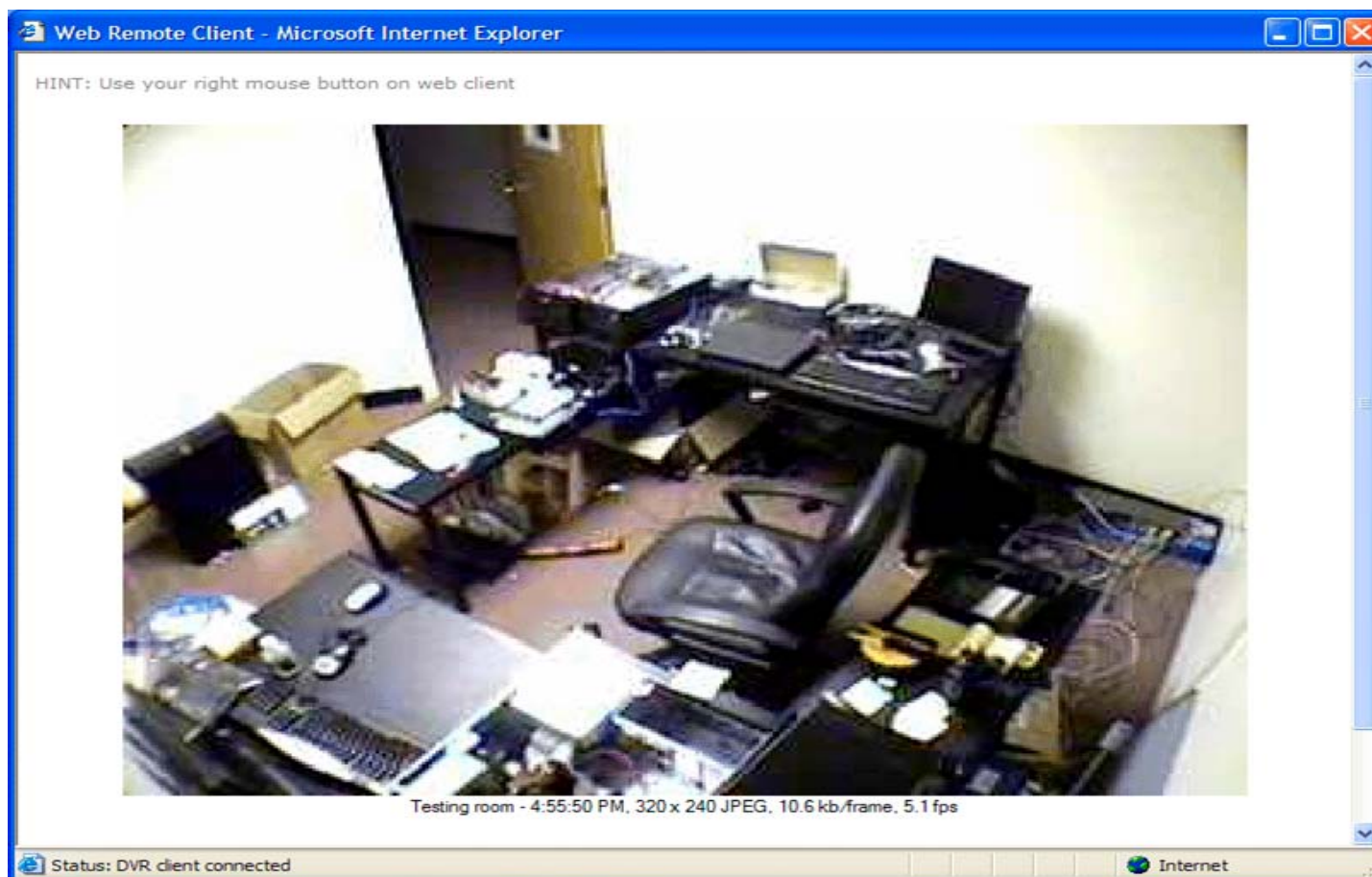


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ZNS Web Client

(16-Channel Live View Only)



ZNS Web Client is a great option for those who prefer to avoid installing any additional software on their computers. Also Web Client could be easily integrated into other applications like Access control, People Counting, Video Analytics, etc...



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ZNS v1.6.14 Supported IP Cameras

4XEM	4X-FD6111V, 4X-FD7131, 4X-FD7132, 4X-IP6112, 4X-IP7131, 4X-IP7138, 4X-IP7151, 4X-IZ7151, 4X-PZ6114, 4X-PZ7151, 4X-PZ7152, IPCAM WFD, IPCAM WFDV, IPCAM WLPTZ, IPCAM WPTZ, IPCAM WLPTS, IPCAM WPTS, & W45.
ACTi	ACD-2000Q, ACD-2100, ACD-2100Q, ACD-2200, ACD-2300, ACD-2400, ACD-3100, ACM-1000, ACM-1011, ACM-1100, ACM-1110, ACM-1231, ACM-1232, ACM-1310, ACM-1311, ACM-1430, ACM-1431, ACM-1432, ACM-1511, ACM-3001, ACM-3100, ACM-3110, ACM-3210, ACM-3211, ACM-3300, ACM-3310, ACM-3311, ACM-3401, ACM-3411, ACM-4000, ACM-4100, ACM-4200, ACM-4300, ACM-5001, ACM-5601, ACM-5611, ACM-5711, ACM-5801, ACM-5811, ACM-7411, ACM-7501, ACM-7511, ACM-8001, ACM-8101, ACM-8211, ACM-8511, CAM-5200, CAM-5201, CAM-5221, CAM-5222, CAM-5300, CAM-5301, CAM-5320, CAM-5321, CAM-6500, CAM-6510, CAM-6520, CAM-6600, CAM-6610, CAM-6620, CAM-6630, CAM-7300, CAM-7321, SED-2120, SED-2140, SED-2320Q, SED-2420, SED-2610, SED-3300, & SED-3320.
AcutVista	All Models.
AriLink 101	AIC250 & AIC250W.
Appro	All Models.
AVIOSYS	IP KAMERA 9000AK, IP KAMERA 9000A-MP, IP KAMERA 9060 I, IP KAMERA 9060 O, IP KAMERA 9060A, IP KAMERA 9060A-SL, 9100A/V, & 9100A/B round-robin.
AVIP	NC800, NC1000, NC1000, NC1200, NC1500, NC1600, & VS1000.
Axis	205, 206/206W/206M, 207/207W/207MW, 209FD-R, 210/210A, 211/211A/211M, 212PTZ, 213PTZ, 214PTZ, 216FD/216FD-V, 221, 223M, 225FD, 230, 231D/231D+, 232D/232D+, 233D, 240Q, 241S/241S PTZ, 241Q/241Q PTZ, 2100, 2110, 2120, 2130PTZ, 2420, 2400/2400PTZ, 2400+/2400+ PTZ, 2401/2401 PTZ, 2401+/2401+ PTZ, 2411, P3301, & P3301-V.
Basler	1000C, 1300C, & 1600C.
Bolide	Elite IP Speed Dome (BC1009/SPJN70NET and BC1009/SPJN80NET).
Bosch	Dinion NWC-0495-20P.
Canon	VB-C10, & VB-C50
CBC (America)	ZN-PT304L, ZN-PT304WL, ZN-YH305, ZV-S306, ZN-D2000, IPX-DDK1000, IPX-DDK1200, IPX-DDK1500, MP1A, MP2A, MP3DN, MP5A, MP8-L4 & MP8P.
Convision	All Models.
Costar	CCC3540IP & CDC3512IPVA.
D-Link	DCS-900, DCS-900W, DCS-1000, DCS-1000W, DCS-2120, DCS-3110, DCS-3220, DCS-3220G, DCS-3420, DCS-5220, DCS-6110, DCS-6620, & DCS-6620G.
DynaColor	nZH060-30102.
ELMO	PTC-201C.
ENEO	NTC-2101 & NTD-4101.
FlexWatch	FW-50A, FW100A, FW-200A, FW500A, FW-500AS, FW1100, FW-1100/W/LW, FW1120, FW-1125, FW-1126, FW-1130, FW-1130SW, FW-1131, FW-1131S, FW-1150, FW-1161SE, FW1200, FW-3110, FW-3150, FW3210, FW-3400, FW-3440, FW-3450, FW-3850, FW-5050, FW-5450, & FW-5850.
Grandeye	Halocam Compact IP.
HITRON	HNCB-F1SN, HNCV-811PZ0S4, & HWD-12SMP(P).
Infinova	V1022N.
Intellinet	501583, 550703, & 550710.
IqinVision	IQeye301, IQeye302, IQeye303, IQeye510, IQeye 510D/V, IQeye511, IQeye511D/V, IQeye701, IQeye702, IQeye703, IQeye705, IQeye710DI, IQeye711, IQeye711DI, IQeyeDI, IQeye752, IQeye753, IQeye755, IQeye802, IQeye803, IQeye805, IQeye811, IQeye852, IQeye853, & IQeye855.



(Continued on next page)

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ZNS v1.6.14 Supported IP Cameras

I-Yahorng	IP500.
Level One	FCS-1030, FCS-1040, FCS-1060, FCS-1070, FCS-3000, FCS-3021, WCS-2030, WCS-2040, WCS-2060, & WCS-2070.
Linksys	PVC2300, WVC2300, & WVC24G.
Linudix	Wise Cam LWC-500, Wisa Cam junior LWJ-300, & LWJ-330/331.
Lumenera	Le075, Le165, Le175, Le275, & Le375.
Merit Li-Lin	Fast Dome.
Messoa	NCB855, NIC830.
Micronet	SP5531, SP5531W.
Mobotix	M1, M10 M22, D10 Series, & D22 Series.
O'RITE	IC-100, IC-300, IC-301, & IC-303.
Panasonic	BB-HCE481, BB-HCE481A, BB-HCM511, BB-HCM511A, BB-HCM515, BB-HCM515A, BB-HCM527, BB-HCM527A, BB-HCM531, BB-HCM531A, BB-HCM580, BB-HCM580A, BB-HCM581A, BB-HCM581A-W,, BB-HCM311, BB-HCM331, BB-HCM371, BB-HCM381, BL-C10, BL-C30, BL-C111, BL-C111A, BL-C131, BL-C131A, KX-HCM8, KX-HCM10, KX-HCM230, KX-HCM250, KX-HCM270, KX-HCM280, WV-BP240, WV-NP244, WV-NS202, WV-NS202A, WV-NM100, WV-HP472, WV-NS320 Series, WV-NW470S Series, & WV-NS324.
Pelco	IP110.
Pixord	100, 120/126, 200, 201, 205/206, 207, 240/241, 261/263, 262, 4000, P-1401, P-400, P-405, P-405M, P-410, P-411, P-412, P-413, P-423, P-426, P-428, P-461, P-463, & P-465.
PROVIDEO	SD-220VPRO, SD-221VPRO, SD-300VPRO, & SD707.
Rimax	IP Cam 7100 & IP Cam 7200.
Samsung	VCC-P7574N, VDC-DP7584N, VCC-P9574N, VCC-P9574S, VDC-DP9584N, & VCC-XZ200N.
Sanyo	VCC-400N, VCC-9500 (VA--80, VA-82, H.264), VCC-9500N, VCC-9500P (VA-80, VA-82, H.264), VCC-9600 (VA-80, VA-82, H.264), VCC-9600N, VCC-9600P (VA-80, VA-82, H.264), VCC-9700 (VA-80, VA-82, H.264), VCC-9700N, VCC-9700P (VA-80, VA-82, H.264), VCC-9800 (VA-80, VA-82, H.264), VCC-9800N, VCC-9800P (VA-80, VA-82, H.264), VCC-HD4000, VCC-HD4000P, VCC-HDN1(S), VCC-N6584, VCC-N6695P, VCC-P450, VCC-P450NA, VCC-P470, VCC-P470NA, VCC-P7574, VCC-7574P, VCC-P9574, VCC-P9574N, VCC-P9575P, VCC-PN9575P, VCC-PT490, VCC-PT490NA, VCC-PT500, VCC-PT500NA, VCC-XZ200, VCC-XZ200P, VCC-XZ600N, VCC-XZN600P, VCC-ZM600N, VCC-ZMN600, VDC-P7574, VCC-P9574 VDC-DP7584, VDC-DP7585P, VDC-DP9584, VDC-DP9584N, VDC-DP9585, & VDC-DPN9585P.
Sony	SNC-CS50, SNC-CS3N/P, SNC-P1, SNCZ20N/P, SNC-RZ25N/P, SNC-RZ30N/P, SNC-RZ30N/P, SNC-DF40, SNC-DF70, SNC-M1/M1W, SND-M3/M3W, SNT-V304, SNT-V501, SNT-V54, & SNT-V704.
SparkLAN	CAS-771/771W.
StarDot	Express 6, NetCam SC5, NetCam SC5 IR, NetCam XL, NetCam XL 1MP, NetCam XL 3MP, NetCam XL 5MP, NetCam, NetCam MP, Express 2, NetCam XL, NetCamXL 1MP, NetCam XL 3MP, NetCamXL 5MP, NetCam SC5, & Express 6.
Toshiba	IK-WB01A, IK-WB02A, IK-WB11A, IK-WB15A, IK-WB21, IK-WD01A, & IK-WR01A.
TrendNet	TV-IP110, TV-IP110W, TV-IP201, TV-IP201P, TV-IP201W, TV-IP212, TV-IP212W, TV-IP312, TV-IP312W, TV-IP410, TV-IP410W, TV-IP422, TV-IP422W, TV-IP100/100W, TV-IP200/200W, TV-IP201/201W, TV-IP300/300W, TV-IP301/301W, & TV-IP400/400W.
Veo	Observer XT & Wireless Observer XT.
Vivotek	IP2111, IP2112, IP2121, IP2122, IP6112, IP6122, IP6114, IP6124, PZ6112, PZ6122, VS2101, VS2401, VS2402, VS101, VS2401, VS2402, VS2403, IP 3112, IP3122, IP3132, TP3112, PT3122, PT3117, PT3127, IPT5112, IP5122, IP5114, IP5124, IP7131, IP7132, IP7135, IP7137, IP7138, IP7139, PT7135, PT7137, VS7100, & FD7131.
Y-Cam	Black, Knight, & White.
Zavio	D510E, D610A, D611E, F210A, F312A, F511E, F511W, F521E, F521E, F610A, F611E, F721A, M511E, M511W, & V111T.



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iPak Series



iPak Housing with D/N H.264 Megapixel Camera & Megapixel Lens

HWB3-413MP1D	HWB3 with H3Z4518CS-MPIR (4.5-13.2mm Man Iris) & MP1DN (1.3 MP True D/N)
HWB3-413MP2D	HWB3 with H3Z4518CS-MPIR (4.5-13.2mm Man Iris) & MP2DN (2 MP True D/N)
HWB3-413MP3D	HWB3 with H3Z4518CS-MPIR (4.5-13.2mm Man Iris) & MP3DN (3 MP True D/N)
HWB3-413MP5D	HWB3 with H3Z4518CS-MPIR (4.5-13.2mm Man Iris) & MP5DN (5 MP True D/N)

iPak Housing with MJPEG Megapixel Camera & Megapixel Lens

HWB3-48AMP2	HWB3 with HG2Z0414FC-MP (4-8 mm DC A/I) & MP2A (2 Megapixel Camera).
HWB3-25MP2	HWB3 with M2514-MP (25mm manual iris) & MP2A (2 Megapixel Camera).
HWB3-50MP2	HWB3 with M5018-MP (50mm manual iris) & MP2A (2 Megapixel Camera).

iPak Housing with Dual Codec True Day/Night IP Camera & IR Lens

HWB3-281A16	HWB3 with TG4Z2813FCS-IR (2.8-12mm DC A/I) & DDK-1500 (True D/N IP Camera).
HWB3-84A16	HWB3 with TG5Z8513FCS-IR (8.5-40mm IR DC A/I) & DDK-1500 (True D/N IP Camera).



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ZNR Master Server

Up to 32 Channels of IP Cameras & DVD Writer (Software sold separately)

ZNRM-1.5TB	Up to 32 Channel NVR, up to 30 IPS/channel, 1.5TB storage, & DVD Writer.
ZNRM-3.0TB	Up to 32 Channel NVR, up to 30 IPS/channel, 3.0TB storage, & DVD Writer.
ZNRM-4.5TB	Up to 32 Channel NVR, up to 30 IPS/channel, 4.5TB storage, & DVD Writer.
ZNRM-6.0TB	Up to 32 Channel NVR, up to 30 IPS/channel, 6.0TB storage, & DVD Writer.
ZNRM-7.5TB	Up to 32 Channel NVR, up to 30 IPS/channel, 7.5TB storage, & DVD Writer.
ZNRM-9.0TB	Up to 32 Channel NVR, up to 30 IPS/channel, 9.0TB storage, & DVD Writer.

Server has an Intel Core 2 Quad Q9550. NVR will record up to 32 IP cameras. Of the IP Cameras no more than 20 can be Megapixel.



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ZNR Master Hybrid 16 & 32 Servers

Up to 32 Channels of IP Cameras, 16 Analog Cameras, & DVD Writer. (Software sold separately)

ZNRMH16-1.5TB	Up to 32 Channel NVR, 120 IPS 16 channel analog, 1.5TB, & DVD-RW.
ZNRMH16-3.0TB	Up to 32 Channel NVR, 120 IPS 16 channel analog, 3.0TB, & DVD-RW.
ZNRMH16-4.5TB	Up to 32 Channel NVR, 120 IPS 16 channel analog, 4.5TB, & DVD-RW.
ZNRMH16-6.0TB	Up to 32 Channel NVR, 120 IPS 16 channel analog, 6.0TB, & DVD-RW.
ZNRMH16-7.5TB	Up to 32 Channel NVR, 120 IPS 16 channel analog, 7.5TB, & DVD-RW.
ZNRMH16-9.0TB	Up to 32 Channel NVR, 120 IPS 16 channel analog, 9.0TB, & DVD-RW.

Server has an Intel Core 2 Quad Q9550. NVR will record up to 32 IP and 16 Analog Cameras. Analog cameras record at up to 240 IPS. Of the IP Cameras no more than 20 can be Megapixel

Up to 32 Channels of IP Cameras, 32 Analog Cameras, & DVD Writer. (Software sold separately)

ZNRMH32-1.5TB	Up to 32 Channel NVR, 240 IPS 32 channel analog, 1.5TB, & DVD-RW.
ZNRMH32-3.0TB	Up to 32 Channel NVR, 240 IPS 32 channel analog, 3.0TB, & DVD-RW.
ZNRMH32-4.5TB	Up to 32 Channel NVR, 240 IPS 32 channel analog, 4.5TB, & DVD-RW.
ZNRMH32-6.0TB	Up to 32 Channel NVR, 240 IPS 32 channel analog, 6.0TB, & DVD-RW.
ZNRMH32-7.5TB	Up to 32 Channel NVR, 240 IPS 32 channel analog, 7.5TB, & DVD-RW.
ZNRMH32-9.0TB	Up to 32 Channel NVR, 240 IPS 32 channel analog, 9.0TB, & DVD-RW.

Server has an Intel Core 2 Quad Q9550. NVR will record up to 32 IP and 32 Analog Cameras. Analog cameras record at up to 240 IPS. Of the IP Cameras no more than 20 can be Megapixel



ZNR Master RAID-5 Servers

Up to 64 Channels, for D1/Megapixel IP Cameras, & DVD Writer. (Software sold separately)

ZNRM-13.5TB-R	Up to 64 Channel NVR, 30 IPS/channel, 13.5TB RAID-5, & DVD-RW.
ZNRM-16.5TB-R	Up to 64 Channel NVR, 30 IPS/channel, 16.5TB RAID-5, & DVD-RW.
ZNRM-19.5TB-R	Up to 64 Channel NVR, 30 IPS/channel, 19.5TB RAID-5, & DVD-RW.
ZNRM-21TB-R	Up to 64 Channel NVR, 30 IPS/channel, 21TB RAID-5, & DVD-RW.
ZNRM-25.5TB-R	Up to 64 Channel NVR, 30 IPS/channel, 25.5TB RAID-5, & DVD-RW.
ZNRM-28.5TB-R	Up to 64 Channel NVR, 30 IPS/channel, 28.5TB RAID-5, & DVD-RW.
ZNRM-33TB-R	Up to 64 Channel NVR, 30 IPS/channel, 33TB RAID-5, & DVD-RW.

RAID Server has (2) Intel Xeon Quad Cores. Will record up to 64 IP Cameras. Of the IP Cameras no more than 48 can be Megapixel.



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ZNR Software

NVR Software

ZNS-BASIC~	NVR software, supports 4 IP Cameras, & 1 Remote Client. (Suffix '-ZB')
ZNS-PRO~	NVR software, supports 9 IP Cameras, & 3 Remote Clients. (Suffix '-ZP')
ZNS-ADVANCED~	NVR software, supports 16 IP Cameras, & 5 Remote Clients. (Suffix '-ZA')
ZNS-ENTERPRISE~	NVR software, supports Unlimited* IP Cameras, & Unlimited* Remote Clients. (Suffix '-ZE')



~50% discount when purchasing with ZNR Server.

*Per Server; Limitations based on hardware specs & network speed.



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IP Accessories

POE Switches & UPS

8G-POE	8 port POE Gigabit switch (7.5W per port).
8GM-POE	8 port POE Gigabit switch (15.4W per port).
24G-POE	24 port POE Gigabit switch (up to 15.4W on 12 ports or 7.5W on 24 ports).
BR1200	Uninterrupted Power Supply (battery back-up and surge protection).



Veracity Products

VOR-OR	Cat5 LAN & POE Extender/Repeater (100m extension per unit).
VOR-OS	Midspan POE Injector - 1 Port.
VHW-HW	Ethernet over Coax Transceiver. Single Unit. *(Requires Power Supply).
VHW-HWC	Ethernet over Coax Transceiver. Two Units. *(Requires Power Supplies).
VHW-HWPO	Ethernet over Coax Transceiver with POE Out. Single Unit. *(Requires Power Supply).
VHW-12-US	12 Volt Power Supply for VHW-HW, HWC, & HWPO.



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Proposed ZNR Packaged Systems

Example 1: 4 Camera 2 Megapixel (1600 X 1200) Recording Solution*

MP2DN - 2 MP cameras with POE (4 X)

H3Z4518CS-MPIR- 4.5-13.2mm DN IR megapixel lenses (4 X)

ZNRM-1.5TB - Up to 32-Channel NVR, DVD-RW with 1.5 TB Storage

ZM-L20A-HR - 2 Megapixel industrial monitor with PIP

ZNS-Basic - 4 channel NVR recording software (less 50%)

8G-POE - 8 channel Gigabit POE network switch

Total

\$

Example 2: 16 Channel D1 (720X 480) Recording Solution*

DDK-1500 - IP camera with POE (16 X)

TG3Z2910FCS - 2.9-8.2mm DCAI varifocal lenses (16 X)

ZNRM-1.5TB - 32-Channel NVR, DVD-RW with 1.5TB Storage

LCD-19 - 19" VGA Monitor 1280X 1024 resolution

ZNS-Advanced - 16 channel ZNS recording software (less 50%)

24G-POE - 24 channel Gigabit POE network switch

Total

\$

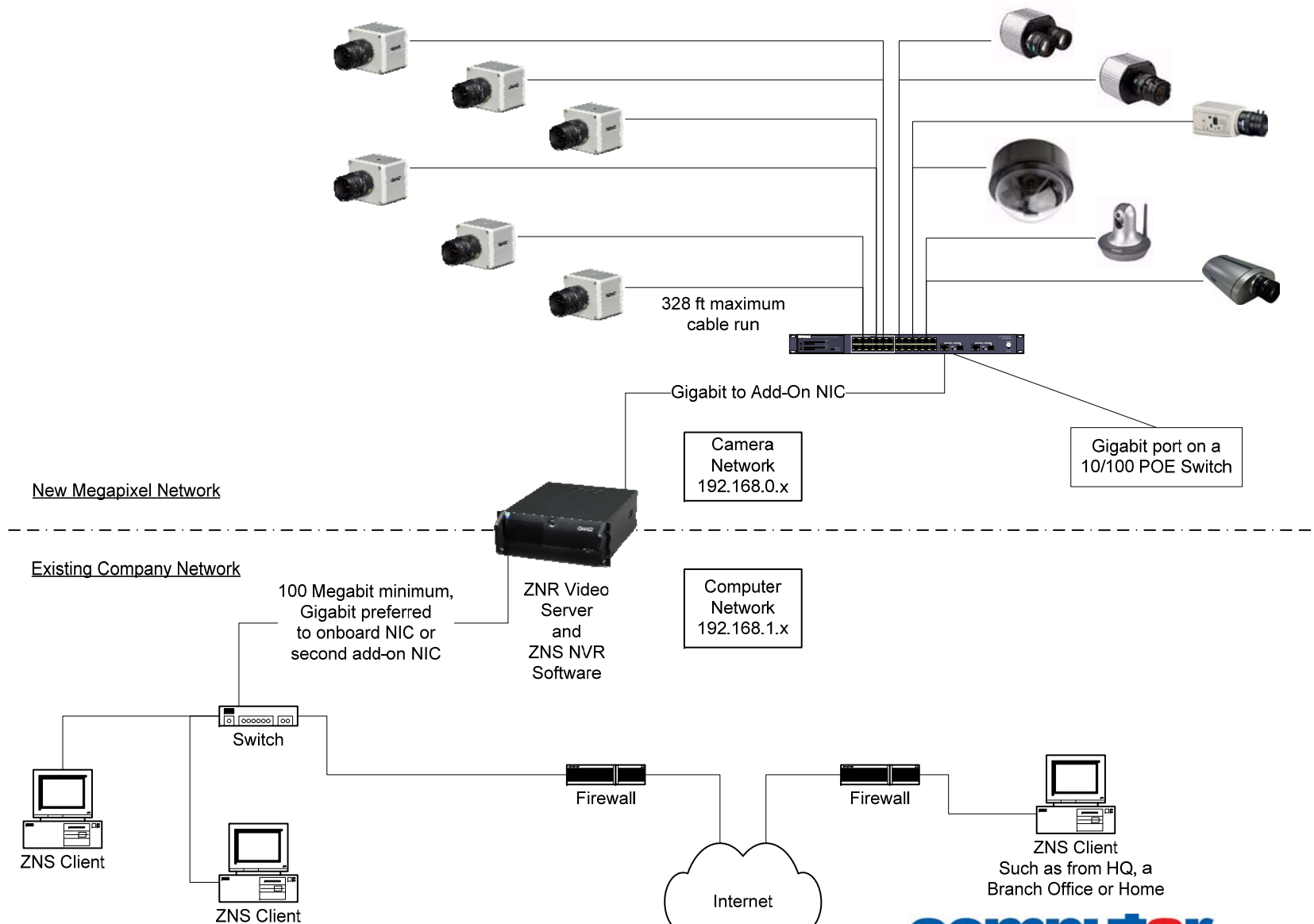
We can provide a full solution for your customers. In addition, CBC can pre-configure all IP Cameras and NVR Servers so that the only thing your customers will need to do is run the wire, mount the brackets, & plug everything in!!



CA: 800-888-0131
NY: 800-422-6707
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Appendix: Network Design: General Layout



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Thank You!

Questions & Comments?

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