



## Video Surveillance Services

### Computer and Media Services for Home and Business™

Market Carver Inc (MCInc) is a Texas Corporation, minority owned, in business since 2002. MCInc has over 25 years experience in high technology product development, support, and services in quality demanding military and commercial markets.

MCInc offers a range of services in the Video Surveillance market including:

- **Video Surveillance System Design.** MCInc will produce a design with recommended layouts and sources. You purchase and install, leveraging available resources.
- **Competitive reviews.** Are you required to bid from an approved vendor list but confused by the proposals? Do you want a system from one of the major vendors such as Brinks, or Chub, but are puzzled by the conflicting recommendations? MCInc will review, compare and contrast your proposals for a fixed fee.
- **Install custom systems** designed and built with the latest and best available commercial grade components. MCInc designs typically feature digital recording, versus slow scan VCR tape recorders, allowing instant access to time indexed events. With remote access via the Internet, you have the ability to visually monitor your front door or loading dock while you are anywhere in the world.

### Video Surveillance System Components and Considerations

A Video Surveillance System is constructed with three distinct components:

(1) A Recording System, (2) Communication and Power Backbone, and (3) An Optics System.

**Recording systems** can be Analog Slow Scan Tape Recorders, or the latest generation Digital Video Recorders (DVR's). DVR's have a number of options in recorded frame rates, time indexing, watermarking, communication (Internet Access), platform (PC based or Embedded - VCR like design), be based on Windows or Linux, and have a wide range of life-cycle costs in areas such as frequently required security upgrades and license fees. Number of video channels and time multiplexing or sequential scanning are key functions to consider.

**The Communication and Power System** is traditionally hard wired with central or distributed power (at each camera) options. Communication - wired cabling can be small gauge, contain non-standard connectors or pin outs, or high-grade coax with standard connectors, and finally rapidly maturing wireless. The Power System can be centrally located, distributed (per camera), with power protection and interruption (backup) tradeoffs.

**Optics** run a wide range in cameras - imagers (CMOS - good, CCD - better), B&W - Color, light sensitivity, auto iris (adjust to light) drive, mounting (dome, wall, weather resistant enclosures), and lenses (2.8mm wide, 4-7mm short / area, 8-12mm medium - room, 12 - 100mm zoom) with auto iris capabilities (requiring camera drive) or electronic shutter options.



**Site Survey and Recommendation**

All MCInc Video Surveillance Services include a site survey to capture the client's objective and review the physical layouts of the facility. With this information, a design proposal is created for the client, or competitive quotes can be rated against a standard baseline

**(example site survey and design)**

4 Cameras

C1 across from Main Entrance door, angled at building entry door

C2: Hallway beside bathrooms. Points at back entry door. Wide-angle lens required to also cover the main entry hallway.

C3: Equipment Room. Covers two North Entry doors.

C4: West end of equipment room. Wide angle.

All lenses auto-iris to adapt to frequent low light conditions.

All cameras wall mount, versus dome style to allow wider angle and lower light operation.

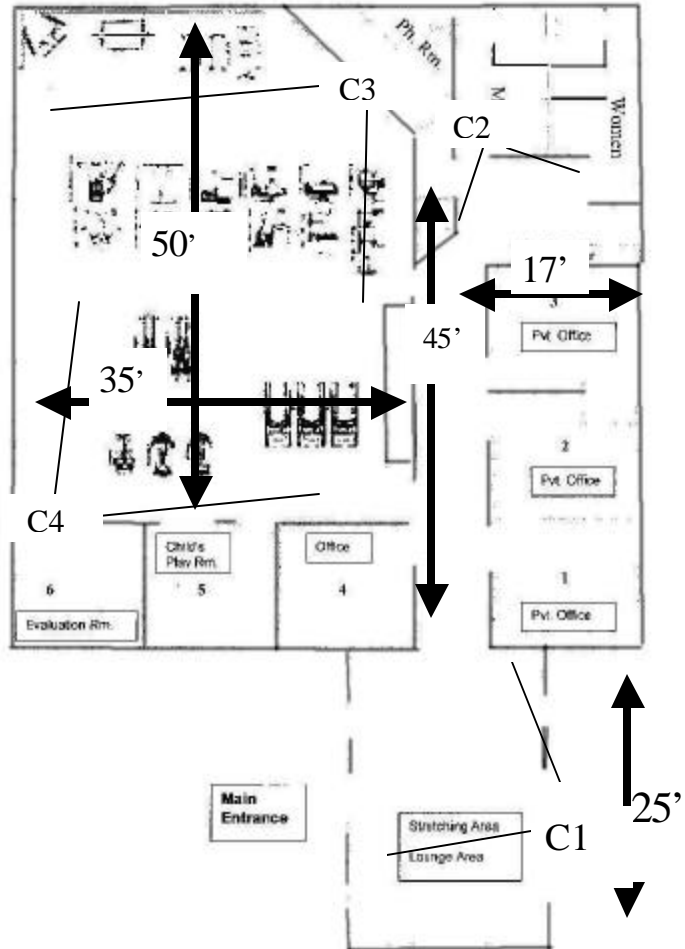
Centrally located camera power supply. Battery backup for recording unit and cameras.

Items provided by client:

**(note: this is an example of a client desiring to leverage available labor for cost savings)**

- Installation of camera wiring (communication and power system);
- table for recording system; - TV type monitor for real time camera viewing (RCA jack inputs) in office;
- Internet access port w/cable on Linksys router and programming for firewall penetration if recording system is to be accessed from the Internet.

MCInc to supply wire and provide camera mounting, focusing, and recording system programming in support of customer installed wiring.





**Market Carver Inc Custom System Proposal (Sample)**

The following proposal options provide a range of price and performance options, and include an option for the client to utilize an established and cost effective cabling resource.

All systems are Digital with a *minimum* of 4 frames per second record rates, Internet access (capable - requires Broadband) to recorded images and real time display, 90 days parts and labor warranty (manufacturer warranties can extend to 1 yr)

Proposal	DVR	Video Channels	Time Multiplexed	Watermarking	Pre-Trigger Recording	Eternal Record Trigger	Hard Drive Size	OPTICS			Communication and Power System				Price including tax
A	Quad	4	N	Y	Y	Y	120 GB	4	0	4	Siamese	Central	CEC	x	
B	Quad	4	N	Y	Y	Y	120 GB	4	2	2	Siamese	Central	Cust	y	
C	Sentry (Cust to provide suitable PC Chassis)	4	Y	N	N	N	10 gb min	4	0	4	Siamese	Central	Cust	z	

**Terms:** 33% due with order, 33% when installation starts, 34% 14 days after completion

**Timing:** Systems can typically be installed within 2-3 wks of order. Supplier lead times vary.