To install the 42” LCD screens (pictured below), the bowling center will be responsible for a structure above the drywall or ceiling tiles to mount our brackets to.

Additional lower monitors will be installed and requires high voltage power along with a separate conduit for low voltage and video cables.

The customer is responsible for supplying, installing, and maintaining the proper position of these beams or pipe (reference figures below) and for having certification from an architect or structural engineer that the method of support will be capable of supporting 100 pounds of actual/static weight per video monitor (200 pounds per pair of bowling lanes).
Bowler Approach

133 3/8" Bowler Foul Line

Beginning of bowlers approach

- 72" to 144" Bowler Approach

42" LCD Screen

Concrete Area for Bowler Seating

Tel-e-foul junction box (110 VAC)

24" X 24" Steel Hinged Access Door

Bowler Data Entry Console

Duplex IG Receptacle

Single Gang Box with 1" hole and rubber grommet

2' X 2' Ceiling Access Panel
Front View
42" LCD Screens

Prior to installation of any monitor, Steltronic requires your structural engineer to sign the certificate below.

Steltronic and its certified installers may not start installation of any monitor until this certificate below is properly filled out and stamped by your structural engineer.
Static Load Requirements for Overhead Structure Monitor Assemblies  
42” LCD Monitors

It is the responsibility of the building contractor or current bowling center owner to obtain the services of a registered structural engineer or architect to determine that the requirements stated in this document can be obtained. Certification must be based on an investigation of the actual structure or drawings specifying the overhead construction supporting the curtain wall and Steltronic overhead monitors.

Shipment of Automatic Scoring Equipment will not be authorized prior to Steltronic receipt of this completed document.

“I have investigated the structures or the drawings for the structures at:

_________________________________________________________ Lanes

located at:______________________________________________________

City:______________________________ State_____________ Zip_________

and certify:

“There is a device in place that will support the weight of a 200 pound static load per pair of lanes for ______ (42” Overhead Monitor Assemblies)”

“Also, there is a device in place that will support an additional load of 100 pounds for each additional single monitor assembly, if ordered (qty: ________).

These units are located over the approach in the ball return area.”

“The Curtain wall will support a load of 25 pounds (11 kg) over each pair of pinsetters.”

Signed:_____________________________  P.E. # ______________________

Address:_____________________________________________

City:_________________________________ State___________

Send to:  Steltronic North America, Inc.
4600 Arrow Hwy.
Montclair, CA.  91763

P.E. Seal
Certification and Release of Steltronic Inc. by Proprietor

I, _____________________________, as the proprietor or as duly-authorized representative of the proprietor, certify to Steltronic Inc. that:

1. The proprietor has obtained the above structure certification for the proprietor’s own benefit; and
2. The proprietor is not relying upon Steltronic Inc. that the roof structure described in the structure certification will support the overhead video display units selected by the proprietor and installed by Steltronic Inc..

In consideration for Steltronic Inc.’s agreement to install the overhead video display units, and by signing below, proprietor for proprietor’s own self and for proprietor’s heirs, successors, assigns, employees, agents, representatives, insurers, contractors, subcontractors, and their spouses and relatives (“Proprietor Group”), releases and agrees to indemnify Steltronic Inc. its officers, directors, employees, parent companies, subsidiaries, and affiliated companies, insurers, agents, contractors, subcontractors, from all claims, demands, actions, causes of action, or their functional equivalent, that any member of the Proprietor Group may have subsequently accrue to a member of the Proprietor Group arising out of or connected with, directly or indirectly, the inability of the roof structure described in the above structure certification to support the overhead video display units installed by Steltronic Inc. in accordance with the support specifications on the reverse of this sheet.

____________________________________
Printed or typed name of proprietor

____________________________________
Signature

____________________________________
Title

____________________________________
Date
42” LCD Overhead Electrical Requirements

1. We require a duplex receptacle (2 outlets) for each pair of lanes.
2. We also require a single receptacle for each lane computer that will be mounted on the rear curtain wall.
3. Each LCD monitor circuit needs to be rated at 2 AMPS per monitor.
4. Each lane computer circuit (on the back curtain wall) should be rated at 2 AMPS per lane computer.
5. The electrician should install a 20-amp circuit for each 6 lanes of overhead monitors. (1 monitor per lane)
6. The electrician should install a 20 AMP circuit per 6 lane computers. (Each lane computer runs one pair of lanes)
7. An additional circuit (always on) should be installed on the curtain wall at the middle of the center. For example, if you have a 24 lane center an additional circuit is required for the network hub/switch and should be placed on the curtain wall between lanes 11-12.
8. The electrician should install a 10 amp circuit for the network hub. (Always on and separate from the circuits described above in bullet #4)
9. Every night when closing, the overhead monitors & lane computers (electrical circuits) should be turned off. Since it is not practical to use circuit breakers as an on/off switch, we recommend that the electrician put in some type of switching device to turn off these circuits. This can be done based on the electrician’s suggestions:
   - Install a lighting contactor with a remote key switch at the desk. (Preferred method)
   - Install a standard light switch very close to the front desk shoe counter.
10. Place the monitor electrical outlets (FLUSH MOUNTED IN THE CEILING TILE or DRYWALL) as close as possible to the location of where the monitors will be placed. (See the enclosed drawing)
11. All electrical for this automatic scoring needs to be on a DEDICATED INSULATED GROUND CIRCUIT, and lightning arrestors should be installed on the new electrical panel.

Front Desk & other Scoring Items

1. The front desk requires a 10 AMP minimum circuit for each computer, on the dedicated isolated ground panel
2. Every additional computer requires a 10 AMP minimum circuit, on the dedicated isolated ground panel
3. The photo strike kiosk (if purchased) requires a 10 AMP circuit, on the dedicated isolated ground panel

Touch Screen Lower Monitor Requirements

1. We need to run several cable from the touch screen consoles to the powerlift.
2. It should be in a 1-1/2” conduit from the bowler console area to the underground powerlift assembly.