

Camera Overview

XTech housings for specialty or industrial cameras are typically sold for those applications where weight, durability and versatility are a prerequisite. The housings are designed to encapsulate the electronics and lens assemblies.

Key Applications for Cameras include:

- Security
- Industrial Imaging
- Document Inspection
- Semi-conductor Inspection
- Live Cell Imaging
- Metallurgical Microscopy
- Pathology
- Manufacturing Quality Control

XTech Customers with Camera Applications:

Q Imaging, Burnaby, BC, Canada
SMaL Camera Technologies, Inc., Cambridge, MA
CBL Systems Corp., Hopkinton, MA
Vistech Inc., Auburn, MA

Industry Specifications

Camera enclosure size, shape and material typically do not comply with any industry standard. It's usually up to the discretion of the design engineer as to the camera's final form, function and design.

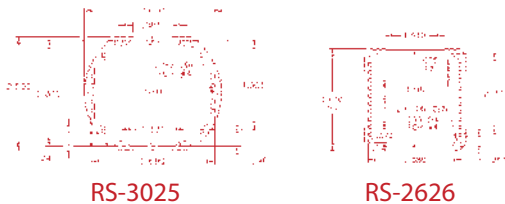


We Think Outside of the Box
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Industrial Cameras

Suggested XTech enclosure models for Cameras:

RS-3025
RS-2626
Custom



The Advantage of Extruded Aluminum

- Maximum EMI and RFI shielding properties
- Excellent heat dissipation
- Rugged, durable, lightweight
- Resistant to harsh climates and UV rays (unlike plastic ABS materials)
- Less assembly required vs. sheet metal
- Contemporary, high tech design

The Extras from XTech

- 50 years of experience manufacturing aluminum components
- Complete custom solutions
- Leading provider of Enclosures, Compact PCI Panels and Front Panels
- Extensive value added capabilities: special finishes, powder paint, silk screening, labeling, machining and full or partial assembly
- Design assistance
- Quick turn around time
- Economical fabrication

Additional XTech Capabilities

End Panels:

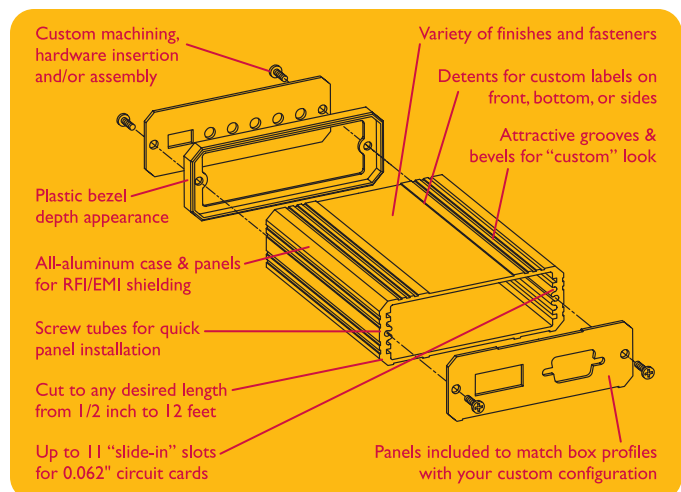
Each XTech enclosure is available with a corresponding end panel designed to match the box profile. The end panel encloses the housing and is available with a variety of cutout configurations. They're designed to accept electronic fixtures, such as power settings, I/O, DB-9 connectors, LED lamps, data ports, antenna connectors, and other connections. Customers typically provide the cutout design of each end plate, as required by the specific application.

Bezels:

XTech provides bezels, which add aesthetic value to enclosures, on the following catalog products: RS-3010, RS-5010, RS-6520. (Consult XTech for additional specification and pricing.)

Gaskets:

Gaskets help prevent moisture and dust from penetrating the enclosure. They are available from XTech on the following standard catalog enclosures: RS-6520 and RS-4025. Custom gaskets are available for any enclosure. (Consult XTech for additional specification and pricing.)



GPS Overview

The Global Positioning System, or GPS, is a satellite network maintained and operated by the U.S. Government. Ground-based receivers gather and manipulate GPS signals, and enable near-instant determination of the receivers' position relative to latitude and longitude information transmitted by the satellite system.

Global navigation satellites continuously issue time and distance information as they orbit the earth along precise formations. Through a process of triangulation, navigation receivers use the data to calculate an exact location. Every point is identified by two sets of numbers, called coordinates. These coordinates represent the exact point where a horizontal line, the latitude, crosses a vertical line, the longitude. The receiver locks on to at least three satellites and uses the information to determine the coordinates of the device.

Initially designed for military use, GPS systems are now widely used in commercial markets for a wide variety of applications. They assist with marine navigation, truck fleet management, and tracking for local delivery vehicles, rental cars, taxi fleets, and asset management.

GPS benefits (example: Fleet Management):

- Improved operations
- Decreased wear and tear
- Better utilization of company resources
- Efficient route management
- Employee safety
- Better customer service
- Improved bottom line performance
- Automation of record keeping
- Reduced liability and insurance costs

XTech Customers with GPS Applications:

WebTech Wireless, Burnaby, BC, Canada
Axiom, Costa Mesa, CA
ELutions, Tampa, FL
Thales, Milpitas, CA
Ontrak, Sudbury, Ontario, Canada
Novatel, Calgary, Alberta, Canada
Rymic Systems, Inc., Huntsville, AL
Enfora Inc., Plano, TX
Alzar Industries, Inc., Nepean, Ontario, Canada

Industry Specifications

The size, shape and material for GPS systems typically do not conform with any industry standard. The final design form is typically left to the discretion of the design engineer. In the majority of cases, however, the enclosure dimensions are approximately as follows: 6" L x 4" W x 1 3/4" H.

Value added options:

- Customized card slot sizes
- Built-in heat sinks
- Machined holes, slots and grooves
- Custom silk screening
- Any finish: painting, anodizing, nickel plating

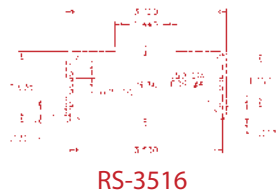


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Global Positioning Systems (GPS)

Suggested XTech enclosure models for GPS:

RS-3516
RS-5020
RS-6520



RS-3516



RS-5020



RS-6520

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Additional XTech Capabilities

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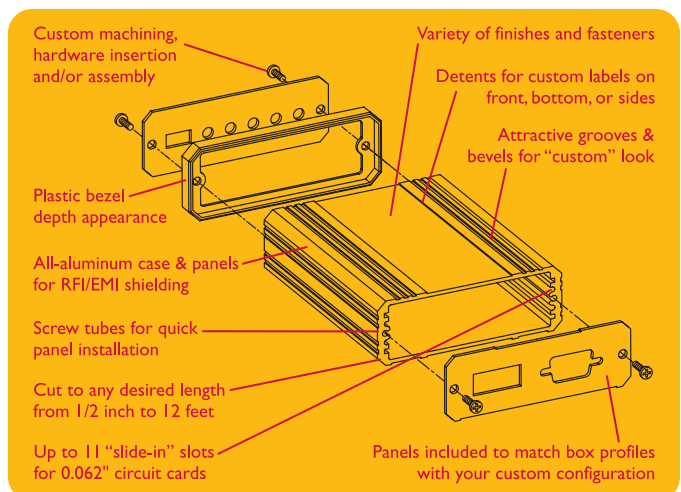
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Industrial Instrumentation Overview

Industrial instrumentation refers to those electronic devices that are used to monitor, control, record or display a variety of processes having to do with temperature, pressure, flow, level, conductivity, weight, volume and other measures. While many instrument manufacturers have gravitated to plastic type enclosure materials, aluminum has features that often far surpass those of plastic.

XTech Customers with Industrial Instrumentation Applications:

MKS, Andover, MA
CTI-Cryogenics, Mansfield, MA
Sperry Marine, Charlottesville, VA
Analogic, Peabody, MA
Chadwick-Helmuth (Division of Honeywell), El Monte, CA

Industry Specifications

Typically the electronics are enclosed in "boxes" that are DIN sizes. DIN is a European standard expressed in millimeters that was first developed some 30 years ago in Germany. Not all enclosures, however, are DIN type. They can be any dimension, as determined by the size of the electronics they house.

Value added options:

- Customized card slot sizes
- Built-in heat sinks
- Machined holes, slots and grooves
- Custom silk screening
- Any finish: painting, anodizing, nickel plating



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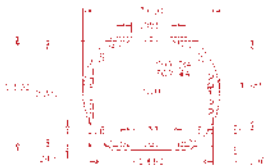
Industrial Instrumentation

Suggested XTech enclosure models for Instrumentation:

RS-3010
RS-3025
RS-6520S
DIN



RS-3010



RS-3025



RS-6520S

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Additional XTech Capabilities

End Panels:

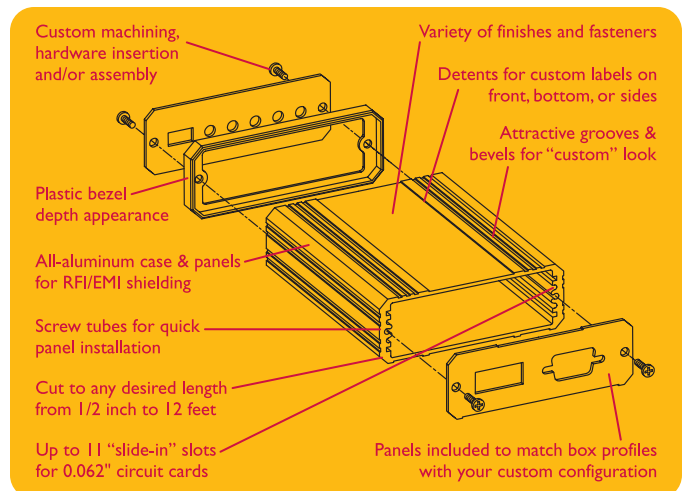
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Wireless Transmitters Overview

Wireless is a relatively new technology that allows the transmission of signals between controls without the use of land lines or cabling. From wireless phones to wireless Internet to wireless industrial controls, the technology is rapidly evolving and leading to the development of products that are easier to use.

Wireless systems also have lower installation costs by eliminating the cost of conduit, wire and wire installation labor. Typically, the system employs both a transmitter and receiver, which replace the use of hardwiring.

XTech Customers with Wireless Applications

Wireless Innovations, San Diego, CA

Zetron, Redmond, WA

Rymic, Hunstville, AL

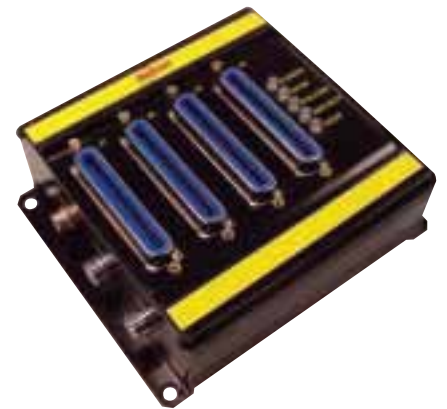
Western Item Tracking Systems, Scottsdale, AZ

Industry specifications

The size, shape and material for wireless systems typically do not conform to any industry standard. The final design form is typically left to the discretion of the design engineer. In the majority of cases, however, the enclosure dimensions are approximately as follows: 6" L x 4" W x 1 ³/₄" H.

Value added options:

- Customized card slot sizes
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Wireless Transmitters

Suggested XTech enclosure models for Wireless Transmitters:

RS-3516
RS-5020
RS-6520S
ETI-22



RS-3516



RS-5020



RS-6520S

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