WHELEN®

MANUFACTURED IN AMERICA

MASS NOTIFICATION PRODUCTS

MASS NOTIFICATION WARNING PRODUCTS

*Non-discriminating audible warning products that **A.I.D.** in response to man-made or natural events that require warning the public for community and industrial applications.*

Q. What is the quickest, most effective way for warning the public of man-made or natural events such as tornado, flash flood, severe weather, campus safety issue, or chemical release?

A. The most effective way for warning the public is to issue a tone and follow it with clear, intelligible voice instructions. Whelen's three step approach is:

A.I.D.™...ALERT, INFORM & DIRECT

Which will eliminate confusion, restore order, and most imporantly, save lives. Whelen produced the first reliable electronic Mass Notification Products over thirty years ago - the first major innovation in public warning in many decades.

Today, Whelen offers a **family of products** that integrates **outdoor and indoor warning** into a single unified system. Whelen is the first name in Mass Notification, with more products installed worldwide than any other manufacturer.

Two US-based manufacturing plants in Connecticut and New Hampshire employ almost 1,500 workers.

Corporate Headquarters in Chester, Connecticut

Charlestown, New Hampshire Division

Whelen Engineering has engineered, designed and manufactured more electronic sirens than any other manufacturer in the world.

Type II Siren Cabinet

Testing Siren Cabinets

WPS2900 sirens ready to ship

IPS400 and IPS800 Cabinet (Type 1)

Training Center

Vortex and WPS4000 siren arrays

All Whelen Mass Notification Systems are Proudly Engineered, Designed and Manufactured in the U.S.A

Whelen Mass Notification Systems warn the outdoor public. Some of the applications where Whelen systems are used are:

- Tornado Warning
- Emergency Management County/Municipal public warning
- College/University campus
- Tsunami warning
- Flood/downstream warning
- Firehouse siren
- Chemical/Refinery plant
- Employee alarms

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Typical installations for:

Campus/Student Alert

Tornado Warning

Hurricane Warning

Tsunami Alert

Chemical & Industrial Facilites

Nuclear Plant Protection

Community Firehouse Alert

Military and Port Protection

A SINGLE SOURCE FOR DESIGN AND MANUFACTURE

Whelen manufactures every electronic assembly used in the final assembly of its products, truly a "Manufactured in America" product line. No other manufacturer in the industry can state that.
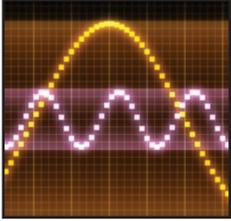
LOW FREQUENCY TONES ARE THE MOST EFFECTIVE

At Whelen, we use low frequency (300 hz to 700hz) warning tones because tones in this range penetrate most background noise and carry to greater distances than higher frequency tones.

ONLY FROM WHELEN, A LOW FREQUENCY SPEAKER DRIVER

Designed exclusively for Whelen Engineering for outdoor warning applications, Whelen's 400 watt speaker driver is the most rugged, durable and reliable speaker driver in the industry. The only 400 watt speaker driver in the industry, certified to a minimum twenty year life cycle for the Government of Denmark.

THE ELECTRONICS

Within this document you will find an in-depth look into our electronics, all made by Whelen Engineering. Modular for easy maintenance, each assembly is invented, constructed to match the other components for reliability and longevity. **Relying upon commercial components for use in the manufacturing of a siren is for the competition, not Whelen.**
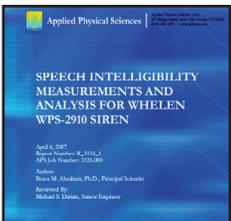
SPEECH INTELLIGIBILITY INDEX

Speech Intelligibility Index, or "STI". Ask for a speech intelligibility report from other manufacturers. Whelen's voice clarity is the best in the industry. Our STI report supports this.

WHELEN'S 2900 SERIES HAVE A REMOVABLE DRIVER FOR EASY IN THE FIELD MAINTENANCE.

It's as easy as...   **1** - grip the handle...   **2** - lift out driver...   **3** - perform maintenance.

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MASS NOTIFICATION PRODUCTS

Whelen Mass Notification home page

WHELEN MASS NOTIFICATION

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WPS-2900 SERIES

The WPS2900 Series omni-directional voice product delivers clear, powerful voice communication.

VORTEX™ SERIES

The VORTEX™ provides an economical alternative for powerful tone communication without compromising quality.

OMNI-ALERT™ SERIES

The Battery Operated OMNI-ALERT™ Series siren system consists of a speaker assembly and electronics cabinet.

DETAILED PRODUCT INFORMATION

Visit www.whelenmassnotification.com for more information.

PROFESSIONAL SALES AND DESIGN TEAM

Whelen's Authorized Managing Sales Representatives are available to recommend a product, design a system, and develop a bill of material and specification to match your needs.

Visit **www.whelenmassnotification.com** for the up to date contact list for your area. Click on "Where to Buy", this will lead you to the Where to Buy (Mass Notification) section.

CORPORATE CAPABILITIES

Available at **www.whelenmassnotification.com**, is a brochure on the corporate capabilities of Whelen Engineering. No other manufacturer has the infrastructure in place to design, build, service and maintain your Whelen product not only for now, but 20 years from now.

WARRANTY

Two-year, no-charge repair or replacement, and three-year extended flat-rate repair or replacement warranty are standard with all Mass Notification Products. To view our full warranty statement, visit www.whelenmassnotification.com.

Safe professional installation through Whelen factory-certified distributors is available throughout the world. Trust local distributors familiar with local codes and soil conditions.
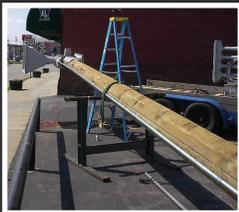
Fort Worth Installation

Ohio Valley Installation

Installation of VisuAlert™ on siren

Electronic cabinet installation

⚠ **WARNING:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

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MASS NOTIFICATION PRODUCTS

ALL WHELEN MASS NOTIFICATION PRODUCTS FEATURE THE FOLLOWING:

- Battery operation
- Six warning tones: Wail, Whoop, Attack, Hi/Lo, Alert and Airhorn
- Local controlled or radio controlled

- SI TEST® (patented by Whelen) confirms the operation of AC power, partial or full operation of both the power amplifiers and speaker drivers, as well as rotor operation of the rotating models
- UL Listed

WPS2900 SERIES

- Ten models to choose from
- Field-serviceable 400 watt EZ-PULL™ speaker driver
- Speaker array, electronics cabinet, and cabling all included, all assembled and tested prior to shipping
- **VOICE CAPABLE** through pre-recorded messages and live public address

Ten models serve a wide variety of applications as shown here in ratio to a person's size.

WPS4000 SERIES

- Rotating sirens
- Speaker array, electronics cabinet, and cabling all included, all assembled and tested prior to shipping
- **VOICE CAPABLE** through pre-recorded messages and live public address
- "Long throw" warning at output power levels sending tones and voice to distances beyond one mile
- Heavy-duty, gear-driven rotor, and high-torque motor
- Public Address Quadrant Control. The WPS4000 speaker can be commanded by radio control to eight com pass points for public address messages

OMNI-ALERT™ SERIES

- Economical alternative to the WPS2900 series
- TONE ONLY – voice messaging not available
- Field-serviceable 400 watt EZ-PULL speaker driver
- Speaker array, electronics cabinet, and cabling all included, all assembled and tested prior to shipping

VORTEX™ SERIES

- Economical alternative to the WPS4000 series
- **TONE ONLY** – voice messaging not available
- Speaker array, electronics cabinet, and cabling all included, all assembled and tested prior to shipping

HORNET™ SERIES

- Economical rotating product
- **TONE ONLY** – voice messaging not available
- Speaker array, electronics cabinet, and cabling all included, all assembled and tested prior to shipping

FIREHOUSE SERIES

- Designed around the Omni-Alert platform, specifically for the Firehouse market
- Same rugged design, built for years of service
- Whelen lighting products available for both the top and bottom of the speaker array
- **TONE ONLY** – voice messaging not available

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IPS™ SERIES

- Same features as our WPS series products, but in a compact design
- Indoor cabinet but designed around our rugged outdoor cabinet
- Unique 400 watt amplifier features 100 watt "channels" for distributed audio
- Sold with Whelen's family of indoor speakers (15, 30, 60 and 100 watt)
- **VOICE CAPABLE** through pre-recorded messages and live public address

SIREN SPEAKERS FOR IPS SERIES

A choice of siren speakers ranging from 30 to 100 watts is available for the IPS Series

WS15TR / WS15TEN   WS100   WS100TCH   WS15TR / WS15TEN   WS15T/ WS30T/ WS60T

VOICE OPTION AND LIVE PUBLIC ADDRESS

- The WPS2900, WPS4000 and IPS product lines offer digital voice capability and live public address, standard
- Store up to 28 messages with 60 minutes of on-board voice capability
- Custom messages or messages selected from Whelen's message library are available

Winter Weather • Severe Weather • Tornado • Hurricane • Severe Thunderstorm • Flash Flood • Test • Post Test • Chemical Release • Evacuation • Hazardous Materials • Terrorist Alert • All Clear • General Emergency • Post Disaster • General Announcement • Custom Developed

BASE STATION EQUIPMENT

E1000

- 6 row by 40 character backlit LCD display
- 20 "HOT" call keys
- 4 time of day call key activations
- 2 remote input call keys
- Automatic system polling
- Base radio interface
- Channel grant input for trunking radio system
- Super Capacitor backup for time and date
- Rugged membrane keyboard

- Microphone for live public address
- Computer interface USB
- Speaker driver/amplifier status availability
- 28 RDVM message capacity
- 24 hour clock, day of the week, month, date, year, and standby message displayed when encoder is not in use
- May be used for mobile applications
- 18 function capability

E969

- One-way control
- Control your sirens individually, in groups, or all together
- 35 function capability
- Four "Call Keys" on keyboard provide simple and fast two-step activation of most warning scenarios (select "Call Key", press Send)

E747

- One-way control
- Control your sirens individually, in groups, or altogether
- 18 function capability
- May be used for mobile applications

ALERT MONITOR

VA2000

- Extends the reach of the Whelen system
- Addressable similar to a siren, it will react when receiving the DTMF signal just as a siren would
- Upon activation, it will sound a piercing alarm, flash an LED, and display one of 60 pre-programmed messages

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ELECTRONIC CABINET FEATURES AND OPTIONS

Each Whelen siren comes with a completely manufactured and tested cabinet. We manufacture our own cabinet by bending, coring, punching, and riveting a raw piece of "5052" aluminum alloy or "304" stainless steel. Our cabinet can be painted, and engraving services are available as well.
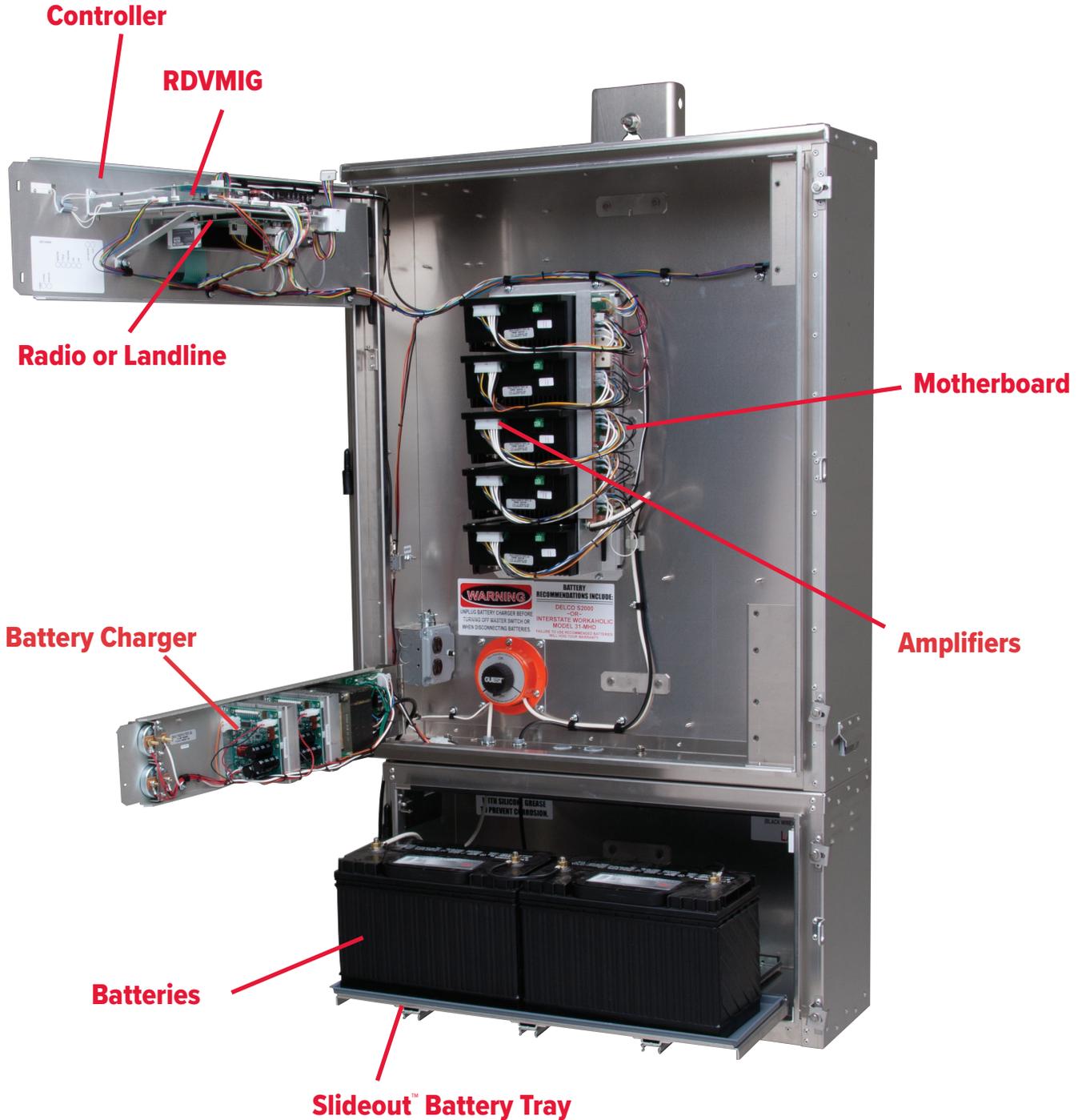
Controller

RDVMIG

Radio or Landline

Motherboard

Battery Charger

Amplifiers

Batteries

Slideout™ Battery Tray

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ELECTRONIC ASSEMBLIES

All major electronic assemblies used in our cabinets are manufactured by Whelen, as is the cabinet itself.

WHELEN CONTROLLER

Our controller is the heart of every Whelen cabinet. The controller controls the key functions of every Whelen siren, including the following:

- Tone Generation
- Event Timing
- Remote Station Status Reporting (encoding)
- System Diagnostics (including SI TEST®)
- Remote Activation
- Rotor Control (for WPS4000, VORTEX™ and HORNET™ Series)
- Local Control (push-button inside the cabinet)
- The controller contains a microphone jack for public address and a serial port to allow connection of our Siren Diagnostic Programming Tool Software (hereafter referred to as SDPTS) to the siren. The controller is also the location of the diagnostic LEDs

WHELEN POWER AMPLIFIERS

- Each cabinet includes one to ten power amps, depending on the model
- The amplifier receives the desired tone or message generated by the control board, amplifies it,and delivers it to the siren driver
- Whelen-manufactured with a die-cast cover, short circuit protection, current limiting, fuse protected
- LED service indicators verify completion of the circuit between the 400 watt amplifier and 400watt speaker siren driver. The basis for our high speech intelligibility lies within these amplifiers, increasing their output by 25% when in the voice mode of operation

WHELEN BATTERY CHARGER

- Each cabinet contains a temperature-compensated battery charger
- The battery charger maintains the batteries in a stand-by power mode
- Temperature-compensated to ensure that the batteries are charged to 100% of capacity in all regions and climates around the world, from "the frozen tundra of Greenland to the deserts of Kuwait"

MOTHERBOARD

- This component (located on the inside of the upper cabinet door) distributes battery voltage and signals to system components
- This component also contains fusing for system components
- A second motherboard is used in the WPS2906 thru WPS2910
- The Motherboard also distributes signals between the amplifiers and the control board and is the link to most components in the siren

RADIO AND INTERFACE BOARD

- The radio component receives an RF signal and delivers them to the controller via DTMF protocol for processing
- Through the use of the feedback radio or feedback landline board, the siren is also capable of transmitting status information back to the control center

LANDLINE BOARD

- Whelen Siren products may be remotely controlled by landline
- This board communicates via DTMF protocol as well
- When using the landline option, this allows an AC 600ohm wire to replace the radio link. A 2-wire line is used for one-way activation and a 4-wire line is used for two-way activation and feedback systems
- While the name "landline" implies a hard wire line, the landline may be any hardware that can emulate a dedicated AC grade phone line at both the control and siren ends of the system

A sampling of installations

WPS2909 with solar panel

Omni-Alert® 3 cell siren
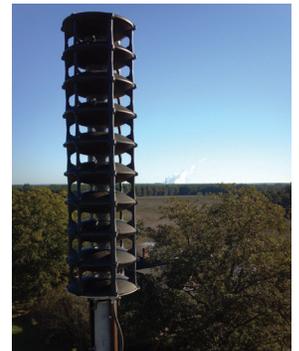
WPS2909 nine cell speaker array

Mid-State Communications installation in Malta, NY

Vortex with solar panel

OPTIONS

AUXILIARY INPUT BOARD

The Whelen Siren product may be equipped with an optional module that can activate siren functions via an external auxiliary input contact closure from a nearby location. For external controls, the "closure" must be at least 1/2 second in duration. The "closure" must be made to ground. A ground contact is supplied at the terminal strip for this purpose. The following Whelen Commands are supported: Cancel (or Clear), Wail, Attack, Alert, Air Horn, Hi-Low, Whoop, Noon Test, DVM1, DVM 2, DVM 3, DVM 4.

AUXILIARY CONTROL/STATUS BOARD

The Whelen Siren product may be equipped with an optional module that allows the user to remotely control siren functions and to remotely collect siren status information from a nearby location. All Whelen commands are supported, depending upon product. In addition to commands and status functions, the Auxiliary Control/Status Option has transformer coupled circuits for accepting audio. One circuit is active in conjunction with the Public Address command, while the other circuit is used for local audio, such as a local microphone or paging system. The local audio must have a "Push To Talk" contact closure for operation. In either case the audio is broadcast over the system.

LED / STROBE CONTROL BOARD

This component is a device that controls a pole-mounted LED or strobe light. This light can be configured to activate during specific conditions (example: when any tone or message is generated).

INTRUSION ALARM

This sensor detects the opening of the cabinet door. If the station is equipped with this option, the alarm is configured to transmit a signal back to the control center.

SOLAR OPTION

This component uses electrical energy collected by pole-mounted solar panels to maintain the station batteries at their proper voltages. This regulator is temperature compensated.

VISUALERT™

The VisuAlert option provides a ring of Whelen Super-LED® M6 lights mounted under any WPS2900 or OMNI-ALERT™ siren system. VisuAlert will illuminate with a designed flash pattern when the siren is activated adding an additional layer of warning.

STATUS OPTION

If a siren is equipped with the STATUS option, full power station activation can be visually confirmed from outside the siren cabinet. This diagnostic display, located on the right side of the cabinet, will indicate the following:

      Presence of AC power (if equipped with an AC Battery Charger)
      Presence of DC power at minimum operating level (at least 19VDC)
      Partial amplifier/driver function
      Full amplifier/driver function
      Rotor operation (WPS-4000 Systems only)

BATTERIES

Available for purchase through Whelen or your local source. Battery recommendations available on www.whelen.com or your local source.

Over 26,000 sirens have been manufactured by Whelen over the last 35 years. Our products are in all 50 States, 52 different countries and almost 200 college and university campuses. Here is a sample of some of the end users that have purchased Whelen products over the years...........

Iowa Electric
Florida Power & Light
Point Pleasant
Consumers Power
Dillsboro
Fort Osage FD
City of Ankeny
St Louis, MO
Gasport FD
Salem ESDA
Fort Gatriot
Cowlitz County
Massapequa Fire
Mount Washington
Detroit Edison
Deep River, CT
North East Utilities
Time Electronics
Norwich, CT
Windsor, MO
City of Batavia
Commonwealth Edison
City of Morgan
Town of Guilford WS
City of Long Lake
Linn County
City of Norway
City of Chetek
City of Wayne
Harrison Township
City of Mount Clemens
West Coast Transmission
Saline County
Poncianna Volunteer Fire
Fulton Contracting
City of Peck
City of Amery
City of Saginaw
City of Staples
O'Fallon
City of Jefferson
City of McGeehee
Portland General Electric
Palos Park
Suttgart
Louisiana Power & Light
Cleveland Electric
Owensville
Olmstead County
Russellville
Sauget Waste Treatment
Lafayette
North Mankato
Village of Dresser
Clements
Sanborn
South Lake Minnetonka
Winona
City of Braham
Lake Benton
Fairmont Public Utilities
UNC Nuclear
Limestone County Prison
Putnam Lake FD
Lexington Fayette
Ann Arbor
Township of Almont
Western Mich. Univ
Village of MetaMora
Millwood Fire
Pennsylvania Power & Light
+ Light
Village of Reese
Edinburg
Village of Columbiana
Camp Westdale
City of Linn
City of Jackson
City of Tacoma
Montana Power
Village of Livingston
City of Menemonie
City of Jefferson
Ross Township Fire
Torrington
Proctor and Gamble
Cheyenne County
Ackerman
South Lake Minnetonka
City of Louisville
City of Brecksville
Village of Manchester
City of Saline
City of Lake Charles
Tesoro Alaska
City of Centralia
Green River
Sandia National Labs
City of Levelland
Multiguard Corp
Town of Monroe
City of Libertyville
City of Saginaw
City of Sullivan
City of Dallas
Wheatland
American Cyanamid
Oskaloosa
Jackson
Mchord AFB
Harrison Township
Allen County
Nottoway
State of Connecticut

Dundee Township
Lake Charles
City of Lamont
City of Mount Vernon
River Falls
City of Johnson
Tyler Texas
City of Sherburn
Kenai Alaska
Indenpendence Hill , , ,
City of Blue Earth , , ,
Seabrook Nuclear
Duane Arnold Nuclear
Chehalis
Campbell County
Fort Ben Harris
Oskaloosa
Foley
Clovis
Debaca County
J I Case
Southbury
Polk County
Clatskanie
New Haven
I C I Americas
Colfax 5
City of Sinton
Tulsa, OK
Libertyville
Southern Methodist
University
University Park
Myrtle Beach
Fanwood
Union Camp
Newark Township
Harlen
Saint Paul
Fairbury
Union Carbide
Korea
Washington Public Power
Monsanto
University of Colorado
Schoolcraft
LaBarge
Lakewood
Georgia Power
Aurora, CO
Turbitrol
Penwalt
Seymour
Rush City
Cannon Beach, OR
Consolidated Edison
White Plains, NY
LaPorte
Marquette Heights
Olin Corp
E I Dupont
Allen County
Hobbs, NM
S C Johnson
Kentronics
El Dorado Springs
Himont
St James Parish
Exxon
Shelby Township
Sterling Heights
Goodfellow AFB
Nalco Chemical
Westfield
Foni
Misquamicut, RI Fire Dept
Allied Fibers
US Dept of Energy
Westinghouse
Brighton
Branson, MO
Livonia, MI
Miner
Canton
Washington Township
Vernon Hills
Primghar
Columbus
East Peoria
Westport
Lyondell
South Africa
Minot
Fairbury
River Falls
Ciba Geigy
Oxy NGL
Lincoln Park
Himont
Bellevue
Iceland
England
Dearborn, MI
Truman
Alcoa
Phillips
Denmark
Israel
Clinton Twp
Johnson
Mundelein
Lohman
Rollins,
Mora

Hoechst
Victoria
Sauk Rapids
Farmington
Farmland Industries
MacDill AFB
Clinton
Prescott
Maine Yankee
Alabama Power
Rickenbacker AFB
Main Electric
Kenia
Firestone
Sikeston
North Liberty
Iowa City
Fairmont
Hamburg
Windsor
Dublin
Middlefield, CT
Coplay Cement
Marshal
Ottumwa, IA
Deer Park, TX
Broken Arrow, OK
Texaco
Saint James Parish
Cain Chemical
Farmington
Colton
Millstadt
Savage
Shakopee
SCM Chemical
Randolph AFB
Weyerhaeuser
James River Corp
Finland
Sahlberg
Columbiana
Attica
Kaufman and Broad
Glensfalls
Lovington
Pak Tank
Saudi Arabia
Capital City
Naval Weapons
Apple Valley, MN
South Central Wastewater
Byron Health Center
Conoco
Arco
Branson
Galesburg
Unocal
Ellington
British Petroleum
Rollins Prot Services
Howell
Bondurant
Hammermill
Washington
Stolt
Glensfalls
Soltex
Navajo
Savage
Waite Park
Winkelman
Olin
Tapoco
Rohm and Haas
US Navy
Glastonbury, CT
Benton Utilities
Shell Oil
Petersburg
Coastal Javalina
Sigourney
Shell Western
Cerberus Pyrotronics
International Paper
Carmel Fire
Comsumers Power
Madison Township
Little Rock, AR
Diamond
Intercontinental Terminals
Lake St Louis
Wauconda, IL
Nixa
Clive
Urbandale
Diaz
Hoechst
Woodville
Oxy Chemical
Amoco Oil
Junction City
Yoder
Montgomery, AL
University of Houston
Inter Provincial
Vepco
Youngstown
Saint Joseph
Provo
Spartanburg
Belco
Ontario Hydro

Star Enterprises
Westchester Station
Houston
Wharton Police
Akzo Chemical
Mortongrove
Boeing
Gibsonburg
Singapore
Laughlin AFB
Georgia Gulf
Fort Orange Paper
Fargo
Windsor Locks, CT
Kayenta
Mobil Mining
Formosa Plastics
Reynoldsburg
Hamilton
Gahanna
Multi Metals
Golden Foods
Oxford
ICI Americas
Erie, KS
Longmont, CO
Stone Container
Petroleum Services
Oak Brook Terrace
Washington Public Power
Whitewater
Potlatch
Coldwater
Damar, KS
North Canton
Codell
Plainville
Palco
Zurich
Woodston
Stockton
Marshfield
Petro United Terminals
Kayenta Boarding School
Central Maine Power
Liqi-Dri
Spartanburg
Lowell
Treynor
Labette
Mound Valley
Oswego
Marathon Oil
Mobile County
Univercity of California-
Berkeley
Syracuse
Junction City
Genoa
Coolidge
Newton Falls
Kendall
Allied
Arcadian
Union Texas Petroleum
Lyndhurst, NJ
Osage City
Tampa
Vassar
Carbondale
Olin
Overbrook
Koch
Wallace College
Virgin Islands
Reyco International
B F Goodrich
Fredonia
Fort Rucker
Union Camp
Lafayette
Greenland
Commanche Fire
Rhone Poulenc
Chevron
Independence, KS
Lusk
Avalon Fire
Texas Brine
Angus
Arkansas Nuclear One
Johnson City
Huls America
Seattle, WA
Rye, NY Fire Dept
Scandia
Bellville
Elbing
Eka Nobel
Seminole
Newton Falls
Kiowa
Conway Springs
Cessna Aircraft
Neodesha
Indelpro
Long Lake
Seba Dalkai Boarding School
Farmington, MO
Truro Township
Canal Winchester, OH
Gatx Terminals
LaPorte
Stockton

Glendale
Bureau of Reclamation
Wellington
Texaco
Winnetka
Marshal
Port Alberni, BC
Collinsville
Osage City
Puerto Rico
Mobile County
Detroit Tiger Stadium
Great Northern Paper
James River Corporation
Weston County
Knoxville, TN
Theodore Park
Dexter
Verndale
Anniston, AL
Mount Prospect WPS
Carpenter
Biron
Pella, IA
Manasquan
Opal
Petroleum Services
Exxon
Hammermill Paper
Citrus County
North Spartanburg
Formosa Plastics
Madisonville
Clive
East Peoria, IL
St John Fire Dept
West Glens Fire Dept
Rosemont Fire Dept
Arlington Heights
Fox Lake Fire
American Maize
Bolivar Trading
Putnam
Junction City
Barking Sands Missle Range
Rhone Poulenc
Westchester
Putnam Fire Dept
Maumelle
Kelly AFB
Tooele, UT
Brush
Camp Springs
Holloman AFB
Bexley
Cabot Corp
Pasadena
 B P Exploration
East Baton Rouge
Tesco
Franklin Park
Buckley ANG
Lyondel Petrochemical
Federal Paper Board
Arco Chemical
Georgia Gulf
Tippy Hydro
Clive
Stolt, NJ
Fort Morgan
Aramada Township
Transamerican Refining
W R Grace
Zeneca
Circleville
Kuwait
J R Simplot
Argenta-Oreana
Arizona Chemical
Cowlitz Power Plant
Pickaway Township
Honda
DSM Chemical
Grace Davison
Tuba City
Bahrain
Waldport
Mexico, MO
Arcadian Fertilizer
Manzanita
Powell Duffryn
Occidental Chemical
Ellsworth
Newton, KS
Baldwin Towers FD
Harrisville FD, WV
Gouglersville
New Hartford
Centerville
Caroga Lake FD 94
Tampere
Aristech
Norfolk Naval Shipyard
Signco
Hiles Fire Dept
Fort Rucker
Mobil Chemical
Abu Dhabi
Baird + Maguire
Agnes Scott College
Dillwyn Correction Center
JunctionCity
Interprovincial Pipeline
Ozark

Fort Mcclellan
Lyondel Polymers
Milford, CT FD
Fossil
Georgia Pacific
West Des Moines, IA
Boulder, CO
Kentville
Montgomery
Adrian Township
Buckley ANG
Jicarillo Apache
Applecreek
Falcon AFB
Colebrook, CT
Umatilla
Brownsville
Norfolk Shipyard
Harrison Fire Dept
Bighorn Basin Project
University of Michigan
Saint Charles County
Scott Paper
Groveport
West Hanover
Jewett FD
Qatar
TSI Controls
Triad Chemical
Page Co
Caer Group
Maraven
Windsor
Fort Rucker
Mexico, MO
Milton FD
Meridian FD
Canfield
Minot, ND
Sunnyvale
Southern OH Correction
Facility
Andes FD
Cape Vincent
Scales Mound
NASA
Wadsworth FD
Eastman Chemical
Little Rock AFB
Frontier Chemical
Pine Ridge Hospital
Rankin County
Junction City
Zeneca
Litchfield
Rankin County
Mamaroneck, NY
Carlyle
United States Enrichment
Piedmont
Honda
Fina Oil + Chemical
Rutland, IA
Crofton
Saudi Euro Petroleum
West Stafford
Lafayette, CO
US Army Corp of Engineers
5Mount Prospect
Fort McClellan
Minot AFB
North Branford
East Peoria
Dow Chemical
Pleasant Hope
Miami, OK
Moody AFB
Central Soya
Amoco
Las Vegas Water Pollution
Mont Belvieu
St Charles County
Terra Nitrogen
Boulder, CO
Moores Park Dam
Great Falls ANG
Frisco, TX
National Trail Fire Dept
Kentucky Medium Mill
Standard Fire Protection
District
San Diego Naval Sub Base
McConnell AFB
Avon Borough, NJ
Brownsville, TN
Woodway, TX
Southern College
Carolina Eastman
Spearhead Envotech
Trumbull Correctional
Exxon Chemical
Quantum Chemical
PPG Industries WPS-2800-2
, 3/11/96
Nelson County
Farmers Branch, TX
St Marys Parish
Yulan Fire
Midway Fire
Grand Bayou
Metamora, IL
North Richland Hills
Cal Farleys Boys Ranch
Selma, AL

Norwalk, IA
Paducah Gaseous Diffusion
Salem, WV
VA Medical Center
Palisades Park
Sidney, NE
Talladega County
Georgia Gulf
Johnston, IA
Oswego, IL
Pelham - Batesville FD
Beale AFB
Oakwood, IL
River Rouge Fire Dept
St Johnsville
Borden Chemical
Saline County, AR
Ball State University
Newton Falls
Corrugating Medium Mill
American Axle
Paxon Polymer
Columbia County
Wichita Falls
Conrail, OH
Charleston, MO
American Axle
Witco Golden Bear
Patrick AFB
Mason County
Hartland Park
Reichold Chemical
Carbide Graphite
Great Falls Air National Guard
Plaza Fire Dept
Amoco Chemical
Etowah County
Aneth Boarding School
Prince Sultan Air Base
Barksdale AFB
Nantahala Power & Light
Bedford Fire Dept
Coosa Valley
United States Marine Corp.
Forney, TX
Northern Navajo Medical
Center
Hormel Foods
Dry Ridge Fire Dept
Grissom AFB
Basis Petroleum
F B Peck Hose Co
Carthage, MO
Altamont, KS
St Clair County
Selfridge ANGB
Inland Paperboard & Packing
Mustang, OK
Dyess AFB
York, AL
Peoria County
Bryan, OH
North East Ohio Correctional
Facility
Persian Gulf
West Des Moines, IA
Hutchinson Park
Youngsville FD
Iberville Parish
Northwestern State University
Dassel
Farmersville
Hope
Oil City
Foley, MN
St Louis, MI
Elizabethtown
Delano
Seminole Tribe of Florida
Rainbow
Desloge
Park Hills
Tidioute
Congerville
Alsey
Nepera
Hewlett Bay FD
Camp Tecumseh
Cerberus Pyrotronics
Rock Springs
Nassau Co Dept of Cor-
rections
Nazlini Boarding School
Mississippi Chemical
Norwood Park Fire Dept
Carrolton
Molten Metal
Fluor Daniel
MacDill AFB
Whiteford Fire Dept
Ottawa Lake Fire Dept
Northrop Grumman
Soyangkang Dam
Daechong Dam
Choongjoo
Hopkinton Fire Dept
Carthage
Lake Forest
Allegheny County
Costa Rica
Grand Forks AFB
Searcy, AR

WHELEN CORPORATE CAPABILITIES

DESIGN & ENGINEERING

The largest staff of Design Engineers in the industry! Many of our Engineers are Fire Volunteers and EMTs so they know first hand the critical need for life saving, innovative products.


3-D Product Design

Whelen's Professional Design Engineers

INJECTION AND VACUUM MOLDING

1600 molds, 38 molding machines from 30 to 2000 tons, 20 million parts produced every year. Vacuum machines produce irregularly shaped components not suitable for injection molding.
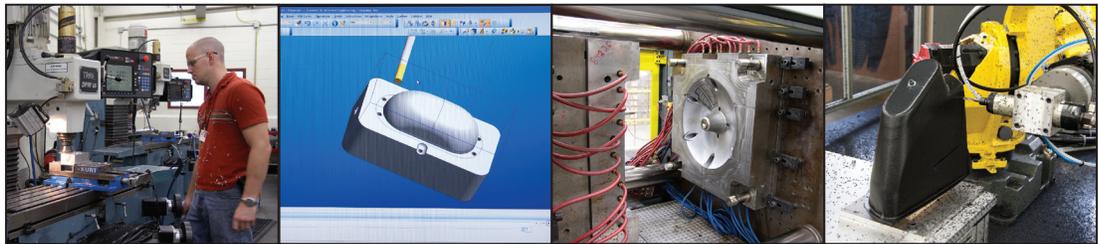
Injection Mold Making

3-D Tool Designs

1700 Ton Molding

3 Trimming Formed Parts Machines

5 Over Molding Electronics

38 Robotic Molding Machines

Die-Cast Tool Making

Aircraft Lens Mold Making

ELECTRONICS MANUFACTURING

Surface mount and through-hole circuit boards are manufactured, assembled and tested In-circuit.

14 Transformer Winding Machines

15 Cable & Wire Machines

5 Electronic Board Assemblies

12 Electronic Board Testing Machines
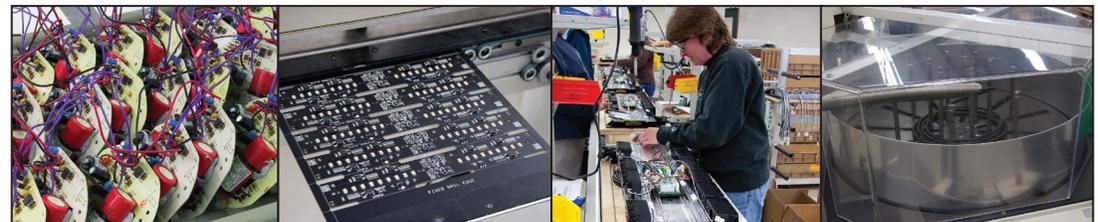
Electronic Assemblies

SMT Assemblies

Lightbar Production

Automatic Robotic Cable Assembly

FABRICATION

Robotic and laser cutting and drilling, Robotic Bending Cells for stand-alone operation. All machine parts are produced and maintained by automated production machine shops in New Hampshire and Connecticut.

Five-Axis Laser
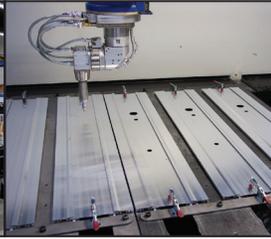
Cutting Center

4 Laser Cut Punch & Tapping Centers

8 Metal Forming Machines
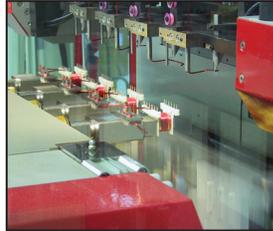
Transformer Manufacturing

8 Wire Cutting, Stripping & Terminals Machines

Inventory

Automatic Kit Bagging

FINISHING PROCESSES

Hard-coating of lenses and powder coating housings make them resistant to weather and abrasion. Metallizing reflectors adds reflectivity and helps prevent corrosion and oxidation.

Powder Coating

Moisture Proof Coatings

Silicone Hard Coating
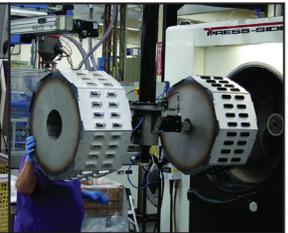
5 Vacuum Metalizing Reflector Machines

PRODUCTION MACHINE SHOP

The production machine shop uses state-of-the-art milling machines, CNC lathes and screw machines to make the precision parts required for our products.

2 High Speed Screw Machines

Robotic Five-Axis 48 Pallet Milling Center

15 Milling and Turning Centers

AMERICAN EMPLOYEES, AMERICAN MANUFACTURING, AMERICAN PRIDE!

QUALITY CONTROL AND TESTING

Quality Control is maintained throughout the manufacturing process. Certified test labs on site facilitate product development and shorten lead times.
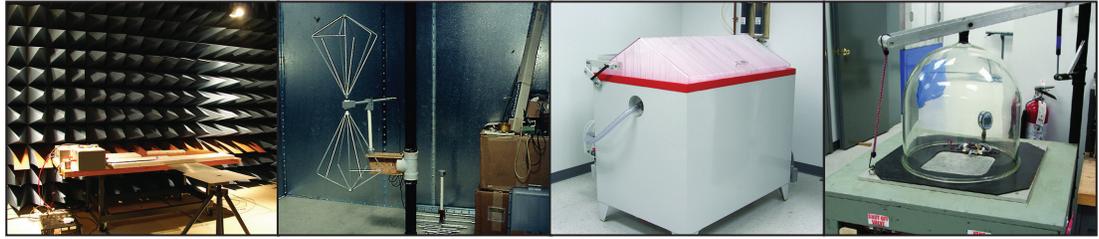
EMI   RF   Corrosion   Atmospheric

Rain   Vibration   Dust   Environmental

Photometric Chamber   Acoustic Chambers   Quality Control & Reliability Testing

REPAIR, SERVICE AND TRAINING

Whelen's Repair Goal is to get product repaired and back out the door to you within 24 hours. Authorized Service facilities are located around the globe.

Training is available not only at the Chester Training Facility but at sites around the country. All Whelen Authorized Managing Sales Representatives and technicians return to the plant several times a year for new product introduction and advanced training.

Repair Service Technician   Electronics Technician   Technical Support   Chester Corporate Training Facility

All Whelen Mass Notification Systems are Proudly Engineered, Designed and Manufactured in the U.S.A

2011 and 2012 were devastating years in terms of loss of life and property damage as a result of over 2,300 confirmed tornadoes throughout the United States. Billions of dollars worth of property damage and over 600 fatalities in all were reported.

In places like Joplin, MO, Smithville, MS and Henryville, IN, it was complete destruction. But in those areas as well as others, outdoor warning sirens were credited with saving thousands of lives.

From the Clarion Ledger Newspaper - April 28, 2011

Pam Hodges (from right) of Brandon and her son Brian Hodges of Smithville walk along U.S. 25 surveying damage from the EF-5 tornado that wiped out parts of the small Monroe County community Wednesday. Although Brian Hodges' home is a total loss, he glances up at an old tornado siren nearby, saying **"That's what saved most of these people. That right there. The siren that talked."**

Calhoun County, AL - April, 2011

A Whelen siren still stands after a devastating tornado.

Joplin, MO - May 23, 2011

Whelen Master Distributor Washington Electronics.

All Whelen Mass Notification Systems are Proudly Engineered, Designed and Manufactured in the U.S.A

MASS NOTIFICATION PRODUCTS

MASS NOTIFICATION WARNING PRODUCTS

Non-discriminating audible warning products that A.I.D. in response to man-made or natural events that require warning the public for community and industrial applications.

MANUFACTURED IN AMERICA

@WhelenENG