



Technomad

Audio. Anywhere.

Technomad

Welcome to Technomad

Technomad Associates, LLC, founded in 1995, designs and manufactures professional audio products including high-performance weatherproof loudspeakers, complete PA systems, weatherproof amplifiers, and innovative audio playback & recording devices. The company invented the first reliable full-range weatherproof loudspeaker, and now offers ten models. In 2000, Technomad introduced its range of complete Turnkey PA systems that turn complex integration jobs into simple, one-line orders. In 2005, the firm introduced the PowerChiton weatherproof amplifier line, and the Schedulon networked and automated audio player/recorder. Please contact Technomad at 617-275-8898 for more information, or visit www.technomad.com/catalog. We look forward to working with you.



US-made Technomad Vernal 15s at the Hong Kong harbor

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Why You Should Choose Technomad

There are 80+ loudspeaker manufacturers in the US alone, and many more internationally. So, why should you choose Technomad for your next project?

Technomad is a highly-specialized manufacturer. For ten years it has served the most demanding clients in the world by making the most reliable, high fidelity, weatherproof loudspeakers and PA systems in the world. Technomad makes only high quality products.

You might pay a little more for Technomad equipment. But what you get in return is virtually zero in-the-field failures, unmatched sound quality, "install and forget" peace of mind, happy clients, and Greatly Reduced Total Cost of Ownership.

All Models Are 100% Weatherproof

Technomad loudspeakers are all-environment, IP56 compliant and are Ideal for demanding installations, mobile and touring use.

- WeatherTech™ Three-layer grill system
- Military-specification, rotationally-molded, thick, strong and imperfection free cabinets with outstanding acoustic properties that are virtually indestructible. Heat, UV radiation, cold and other sources of damage are inconsequential to the loudspeakers.
- High and low frequency drivers are weatherized at the component level. For example, the smaller bass drivers use polypropylene cones with pure rubber surrounds. The larger bass drivers use a fiber cone that is plasticized via a proprietary three-step process, resulting in a driver with outstanding acoustic properties and incredible resistance to moisture and humidity. The spiders and surrounds of all Technomad cone drivers are specially treated to resist water damage, and the high-frequency drivers are mechanically and chemically protected.
- Moisture will build up inside a loudspeaker through condensation (especially in humid environments or during temperature changes.) The problem is solved by drilling tiny bleed holes through the corners of the cabinets. This allows any water to drain harmlessly away.
- Crossovers and internal electronics are sealed.
 - The inside of the cabinet is protected by a Proprietary Anti-Fungal Treatment that kills mold, fungus and other biological sources of damage.

Superior Sound Quality

A recent worldwide survey showed that Technomad has an extremely high

customer satisfaction rate. Most customers cited this company's trademark weatherproof construction and rugged design for harsh environments as their main reasons for buying Technomad. However, nearly as many customers cited superior audio quality as the chief benefit of owning Technomad loudspeakers and systems.

They noted in the survey that Technomad loudspeakers are the only real weatherproof option on the market, but they also noticed the "increased sound quality over other brands." Most importantly, 94 percent of those surveyed said they would recommend Technomad to other professionals.

The survey was open to a variety of Technomad customers, from consultants, design engineers and systems integrators to equipment dealers and end users. Many customers that cited audio quality as a main reason for purchase, were as drawn to the musical reproduction of the loudspeakers as they were to voice intelligibility. Technomad loudspeakers are designed to ensure that low, mid and high frequencies are all reproduced in a superior manner for any kind of installation, both indoors and outdoors.

Rotomolding VS Injection Molding

The majority of loudspeakers made from plastic are manufactured by injection molding. This is a process where very hot plastic is quickly squeezed in between an outer and inner mold. The plastic is then rapidly cooled. Any time plastic is quickly cooled stress concentrations can occur. Air bubbles can also form and these bubbles can cause areas of weakness that can easily crack or break under stress. Cabinet wall thicknesses can only be 1/8" to 1/4". Therefore, intricate ribbing has to be designed into the sections to provide strength and rigidity. Otherwise, the result would be a flimsy product. It is very difficult to produce large injection molded objects with thick walls. All injection molded loudspeakers are molded in multiple sections, and then screwed or otherwise fastened together.

Technomad loudspeaker cabinets are produced using a process called rotomolding. The process requires more time than injection molding to produce one cabinet. The additional time allows the finished, one-piece polyethylene shell to fully anneal. The rotomolding process produces 1/2" thick linear cabinet walls and 3/4" thick corners that are free of imperfections, such as air bubbles, stress areas and other "built-in" weaknesses. This makes for a very strong cabinet, especially in the corner areas where impact is likely to occur. The corrugation that is designed into the cabinet walls provides incredible rigidity to the entire cabinet structure, without the need for additional internal cross-bracing, supports or structure.

The finished Technomad speaker cabinet offers acoustic performance comparable to the very finest 18-ply Baltic or Finland birch cabinets, but without the defects, gaps and sensitivity to moisture and rot inherent in such materials. Because a Technomad loudspeaker cabinet is a one piece shell and has no joints or seams, the cabinet is completely free of anomalies that plague wooden and, especially, injection molded plastic loudspeakers. This unique, patented cabinet design allows a Technomad loudspeaker to produce a full, articulate sound, without distortion and/or inefficiency problems due to wall flex, vibration, imperfections in Thiele tuning, etc. Technomad is so confident in its cabinets, it backs them with a ten year unconditional warranty.

WeatherTech™ Three-Layer Grill System

Unmatched by anything in the industry, this grill system consists of:

- A small-diameter perforated stainless steel layer.
- A nylon mesh layer to further break down precipitation.
- An acoustically-transparent foam layer which is treated with a proprietary hydrophobic coating.

IP56 Performance Rating

Technomad's complete line of loudspeakers and subwoofers are compliant with the International Electro technical Commission's (IEC) IP56 rating under its IP Code. IP56 is a stringent standard for superior protection against hazardous parts and water ingress, and is an extremely rare rating for full-range outdoor loudspeakers. IEC provides international standards and conformity assessments for government, business and society for all electrical, electronic and related technologies.

Following IP for International Protection or Ingress Protection rating, the first digit indicates the level of protection that the enclosure provides against access to hazardous parts and the ingress of solid foreign objects. The second digit indicates equipment protection levels inside the enclosure against harmful water ingress. Officially, a 5 rating for the first digit means that dust ingress will not interfere with the operation of the equipment and offers complete protection against contact; a 6 rating for the second digit means that water projected in powerful jets against the enclosure from any direction results in no harmful effects. Our products meet the superior IP56 rating from IEC, a highly respected international electrical standards organization.

RoHS Compliance

Technomad has altered its manufacturing process to comply with EU regulations. Technomad has switched to RoHS-compliant driver and network components for deployment inside its loudspeakers, and eliminated the use of lead within the soldering process. Technomad is making a concerted effort to expand its presence in the EU marketplace.

The move to RoHS compliance encompasses the entire Technomad product range, which includes IP56-rated weatherproof loudspeakers, the Schedulon automatic MP3 player and recording system, and the PowerChiton series of networkable weatherproof powered amplifiers. Technomad is also offering all of its electronic products configured to run off 220V AC power.

NWAA Labs GLL Certification

Technomad has upgraded to the GLL (Generic Loudspeaker Library) format to measure and present its loudspeaker design specifications to the pro audio industry. GLL is a new standard for measuring and storing loudspeaker performance data which provides simulated creations of a room's 3D acoustic model and sound system. The GLL testing and format provides highly accurate measurements and technical detail about loudspeaker design and driver output. GLL allows consultants, design engineers and contractors to more accurately position speakers in various venues and environments that require array or clustered installations.

Made from Recycled Plastic

Technomad has introduced recycled plastic into its loudspeaker manufacturing process as part of its developing green initiative. The switch reduces waste without altering the manufacturing process or lessening the rugged durability that is a hallmark of Technomad loudspeakers. Technomad will continue to manufacture all loudspeaker products at their Massachusetts facility, where each loudspeaker is bench-built and tested by small teams of craftsmen.

For additional information please
visit technomad.com/catalog



Technomad Loudspeaker Quick Reference

AS Series Model	Drivers	70 or 100V	Hz MIN	Hz MAX	Impedance	Power RMS	Horizontal Angle
Berlin (Tour Model Available*)	Hf:2" Horn-loaded Compression LF:15" Custom Cone	Optional	50	18000	8 OHMS	500	120
Berlin 6040 (Tour Model Available*)	Hf:2" Horn-loaded Compression LF:15" Custom Cone	Optional	50	18000	8 OHMS	500	60
Berlin 9040 (Tour Model Available*)	Hf:2" Horn-loaded Compression LF:15" Custom Cone	Optional	50	18000	8 OHMS	500	90
Noho (Tour Model Available*)	Hf:1" Horn-loaded Compression LF:12" Custom Cone (coaxial)	Optional	60	18000	8 OHMS	430	120
Soho (Tour Model Available*)	LF:12" Custom Cone (coaxial)	Optional	40	200	8 OHMS	430	N/A
Oslo 18 (MP Series)	LF:18" Custom Cone, Ferro-Fluided				8 OHMS		
MP Series Model	Drivers	70 or 100V	Hz MIN	Hz MAX	Impedance	Power RMS	Horizontal Angle
Paris	HF: High SPL, 1" Horn-loaded Compression LF: 2 x 6.5" Custom Polypropylene	No	65	18000	6 OHMS	250	120
Paris T	HF: High SPL, 1" Horn-loaded Compression LF: 2 x 6.5" Custom Polypropylene	70V Multi-Tap Trans 16/32/64/128W W	65	18000	6 OHMS	250	120
Vernal	HF: High SPL, 1" Horn-loaded Compression LF: 5.25" Custom Polypropylene	No	100	18000	8 OHMS	60	120
Vernal T	HF: High SPL, 1" Horn-loaded Compression LF: 5.25" Custom Polypropylene	70V Multi-Tap Trans 10/20/40/60W	100	22000	8 OHMS	60	120
Vienna	HF: High SPL, 1" Horn-loaded Compression LF: 6.5" Custom Polypropylene	No	85	18000	8 OHMS	150	120
Vienna T	HF: High SPL, 1" Horn-loaded Compression LF: 6.5" Custom Polypropylene	70V Multi-Tap Trans 16/32/64/128W W	85	18000	8 OHMS	150	120

Vertical Angle	Sensitivity 1W/1m	Connectors	Mounts	Height (in)	Width (in)	Depth (in)	Weight (kg)	Range (Yds)***
120	102	2 x Neutrik 4MP	8 x 3/8-16 flypoints 2 x 3/8-16 yoke points 4 x 3/8-16 threaded inserts	32.29	20.6	10.5	41	120
40	102	2 x Neutrik 4MP	8 x 3/8-16 flypoints 2 x 3/8-16 yoke points 4 x 3/8-16 threaded inserts	32.29	20.6	14.2	41	175
40	102	2 x Neutrik 4MP	8 x 3/8-16 flypoints 2 x 3/8-16 yoke points 4 x 3/8-16 threaded inserts	32.29	20.6	14.2	41	150
120	97	2 x Neutrik 4MP	8 x 1/4-20-nut flypoints 4 x 5/16-T-nuts	20.8	15.5	10.1	26.3	100
N/A	96	2 x Neutrik 4MP	8 x 1/4-20 T-nut flypoints 4 x 5/16-T-nuts	20.8	15.5	10.1	19.5	N/A
	96	2 x Neutrik NL4MP		28.5	22	19	75	
Vertical Angle	Sensitivity 1W/1m	Connectors	Mounts	Height (in)	Width (in)	Depth (in)	Weight (kg)	Range (Yds)***
120	95.5	1 x Neutrik 4MP 1 x Terminal Block	4 x 5/16-18 Fly/yoke points 2 x 5/16-18 T-Nut on bottom 4 x 1/4-20 T-Nuts on back	26.99	8.35	7.4	11.4	60
120	95.5	1 x Neutrik 4MP 1 x Terminal Block	4 x 5/16-18 Fly/yoke points 2 x 5/16-18 T-Nut on bottom 4 x 1/4-20 T-Nuts on back	26.99	8.35	7.4	11.4	60
120	91	1 x Terminal Block	4 x 1/4-20 T-Fly/yoke points 2 x 1/4-20 T-nuts	9.1	6.1	6.1	4	20
120	102	1 x Terminal Block	4 x 1/4-20 T-Fly/yoke points 2 x 1/4-20 T-nuts	9.1	6.1	6.1	4	20
120	93.5	1 x Neutrik 4MP 1 x Terminal Block	4 x 5/16-18 Fly/yoke points 2 x 5/16-18 T-Nut on bottom 4 x 1/4-20 T-Nuts on back	15.5	8.5	7.4	8.2	35
120	93.5	1 x Neutrik 4MP 1 x Terminal Block	4x5/16-18 Fly/yoke points 2x5/16-18 T-Nut on bottom 4x1/4-20 T-Nuts on back	15.5	8.5	7.4	8.2	35

All Models come in black (standard) / The Vernal also comes in white as a standard color / All models are available in 14 colors.

Weatherproof Loudspeakers – AS Series

Unmatched projection, fidelity, and power in an all-environment, IP56 compliant loudspeaker. Ideal for demanding installations and mobile / touring use. Weatherproof 8-ohm and weatherproof 70-Volt versions.

AS Key Features

- All-environment indoor / outdoor loudspeakers – IP56 compliant
- Power handling from 430 to 700 Watts RMS
- Horn-loaded compression HF drivers
- Outstanding throw and projection, wide dispersion
- Thick, one-piece, acoustically superior rotationally-molded enclosure
- Self-draining cabinet – The problem of in-cabinet condensation is solved by drilling tiny bleed holes through the corners of the cabinets – this allows condensation and water forced through the WeatherTech™ grill to drain harmlessly away. One never opens a Technomad cabinet to find half an inch of disgusting, algae-infested water trapped inside!
- Robust, fuse-protected electronics
- Integral, designed-in weatherproofing does not compromise acoustic performance –(a common problem with “weatherized” versions of other manufacturers’ products.)
- Multiple threaded inserts molded into cabinet wall allow easy installation
- Virtually indestructible cabinet is not affected by UV radiation
- Molded-through color cannot chip, flake, or be scratched off
- Military Specification reliability and performance – vastly superior to “commercial grade” products



AS Options

- Tour Package – gasketed lid and handles convert AS series speaker into a Mil-Spec 810E flight case for transport or storage. Also useful for off-season protection for permanently installed loudspeakers.
- Installation hardware – available wallmount, yokemount and pole mount brackets enable products to be easily and flexibly installed.
- Transport Dolly – latches onto bottom of like-sized AS series cases for easy movement
- 14 Available colors (black standard)
- 70-Volt multi-tap internal transformer (switch settable without opening the cabinet)
- Monitor-tilt – all AS series loudspeakers have 1.5” sockets on rear, in which Monitor-Tilt tubes can be inserted into to create a robust “wedge” monitor



AS Applications

- **Stadium Sound** –
Tony Gwynn Baseball Stadium
College of New Jersey Football Stadium
- **Cruise Ship Audio** –
Cunard Cruise Lines
Royal Caribbean Cruise Lines
- **Rental / Corporate Audio** –
Corporate Sound and Lighting
- **Theme Park Audio** –
Universal Studios, Jurassic Park & King Kong
- **Theater Sound** –
New York Public Theater, Shakespeare Festival

The Noho

Ultra-compact, IP56 Weatherproof, 2-Way Full-range Loudspeaker.

The smallest of the high-powered AS Series of loudspeakers, the Noho is designed for use in abusive, real-world situations, both on the road or in permanent installations. Combining super-rugged, U.S. Armed Forces road case technology with a number of acoustic innovations, the Noho is a compact and durable loudspeaker that is very powerful and musically accurate.

The Noho is the perfect unit for any application where compact size and high power are required. Technomad's unique cabinet tuning delivers exceptional bass extension and articulation from a small loudspeaker cabinet. The Noho is extremely EQ compliant and offers the user unrivaled control over every type of program material. The cast frame coaxial driver used in the Noho insures point source clarity, high power handling and long life. Only the highest-quality metalized polypropylene capacitors and heavy gauge inductors are used in Technomad networks, minimizing insertion loss and resulting in smooth response throughout the operating bandwidth.

The PassiveProcessor™ option further expands the Noho's flexibility and ease of use in mobile applications. The PassiveProcessor™ is an internal four position EQ circuit which shifts the optimum listening distance farther away from the loudspeaker by increasing the high frequency output of the unit. This allows a PassiveProcessor™ equipped Noho to be used in both near field and longer-throw applications without requiring any external processing.

The Noho is designed for maximum flexibility and ease of use. Installation options include: For vertical or horizontal tripod mounting - 1.5" diameter stand mount sockets on all four sides. For flying with eyebolts - four 1/4-20 threaded inserts on the top and right sides. For bracket-mounting with Omnimount™ 100 Series or Allen Products MM-022 brackets - four 5/16-18 inserts on the back. On the Tour Model version, the included lid protects the speaker during transport. All Tour Model AS Series Technomads stack together via interlocking ribs during transit, and like-size Tour Model cabinets lock together. Noho loudspeakers are used worldwide in applications ranging from concert sound systems to theaters to military PA to cruise ships to ballparks.



Specifications

Size	20.8"high x 15.5"wide x 10.1"deep
Weight	43 lbs
Cabinet	One-piece 1/2" Thick Molded
Freq Response	60 Hz - 18 KHz
Sensitivity	97 dB SPL (1W/1M, swept sine)
Continuous Power	430 Watts (based on EIA test 426B)
Max Peak Power	700 Watts (based on EIA test 426B)
Dispersion/Range*	120° V x 120° H / 100 yds
Impedance	8 ohms (nominal)
Connector	2 x Speak-On
HF Driver	1" Horn-loaded Compression Driver
LF Driver	12" Custom Cone Driver (coaxial)
Crossover	Passive Internal

Features:

- Superb Audio Quality
- Articulate Low End Response
- 3 Layer, Chem Treated, WeatherTech™ Grill
- Mil-Spec 810E Compliant
- Large Grip Handles/Self-casing
- Warranty - 10 Year Cabinet/
5 Year Hardware/ 2 Year Electronics

Options:

- 14 Available Colors - Black is Standard
- Tour Package Available -
Gasketed Lid & Handles for Transport
- Wallmount / Pole Mount Bracket /
Yoke Mount
- Monitor Tilt Kit -
for "Wedge" Monitor Operation
- 300-Watt Internal
70-Volt Transformer
- PowerChiton
Weatherproof
Amplifier

*Suggested effective operating distance, 85 dBa



The Soho 12

Compact, IP56 Weatherproof, Subwoofer.

The Soho 12 is a companion subwoofer for the smaller loudspeakers in the Technomad line. Designed for use in abusive, real-world situations, both on the road or in permanent installations, the Soho is a compact and durable subwoofer which adds additional accurate low frequency output to a Technomad system.

The Soho 12 is designed to operate as the subwoofer in a system of Vernal, Vienna, Paris or Noho loudspeakers. The Soho 12 features an internal passive network and is wired to pair 1+/1- on the Speak-on connectors. This allows a Soho 12 to be daisy chained on the same amplifier as a full-range Technomad with no additional external processing or dedicated amplifier cabling needed.

Technomad's cabinet tuning delivers exceptional bass extension and articulation from a very small loudspeaker cabinet. Technomad loudspeakers are extremely EQ compliant and offer the user unrivaled control over every type of program material. Only the highest-quality metalized polypropylene capacitors and heavy gauge inductors are used in Technomad networks, minimizing insertion loss and resulting in smooth response throughout the operating bandwidth.

Due to the Soho's extremely small size, shallow depth and very powerful output, Soho subwoofers can be installed in small areas - within walls, scenery, shrubbery, etc - providing even bass coverage over larger areas. This eliminates the need for huge, expensive subwoofer cabinets that take up large amounts of floor space.

The Soho 12 is designed for maximum flexibility and ease of use. Installation options include: For vertical or horizontal tripod mounting - 1.5" diameter stand mount sockets on all four sides. For flying with eyebolts - four 1/4-20 threaded inserts on the top and right sides. For bracket-mounting with Omnimount™ 100 Series or Allen Products MM-022 brackets - four 5/16-18 inserts on the back. On the Tour Model version, the included lid protects the speaker during transport. All Tour Model AS Series Technomads stack together via interlocking ribs during transit, and like-size Tour Model cabinets lock together. From the inside out, every part of every Technomad loudspeaker is designed to provide optimum performance in even the worst conditions.

Features:

- Extended Bass Response
- Articulate Low End Response
- 3 Layer, Chem Treated, WeatherTech™ Grill
- Mil-Spec 810E Compliant
- Large Grip Handles/Self-casing
- Warranty - 10 Year Cabinet/
5 Year Hardware/ 2 Year Electronics

Options:

- 14 Available Colors - Black is Standard
- Tour Package Available -
Gasketed Lid & Handles for Transport
 - Wallmount / Pole Mount Bracket /
Yoke Mount
 - Monitor Tilt Kit -
for "Wedge" Monitor Operation
 - 300-Watt Internal
70-Volt Transformer
 - PowerChiton
Weatherproof
Amplifier

Specifications

Size	20.8"high x 15.5"wide x 10.1"deep
Weight	43 lbs
Cabinet	One-piece 1/2" Thick Molded
Freq Response	40 Hz - 200 KHz
Sensitivity	96 dB SPL (1W/1M, swept sine)
Continuous Power	430 Watts (based on EIA test 426B)
Max Peak Power	500 Watts (based on EIA test 426B)
Dispersion/Range*	Omni Directional
Impedance	8 ohms (nominal)
Connector	2 x Speak-On
HF Driver	N/A
LF Driver	12" Custom Cone Driver (coaxial)
Crossover	Passive Internal



The Berlin 15/H

Powerful, IP56 Weatherproof, 2-Way Full-range Loudspeaker.

The Berlin 15/H was designed for use in abusive, real-world situations, both on the road or in permanent installations. Combining super-rugged, U.S. Armed Forces road case technology with a number of acoustic innovations, the Berlin is a powerful and musically accurate loudspeaker.

The Berlin is the perfect unit for any application where compact size and high power are required. The 2" compression driver used in the Berlin provides clean, defined sound in any environment. Even though the Berlin is only 10.5" deep, Technomad's unique cabinet tuning delivers exceptional bass extension, articulation, and pitch. The Berlin is extremely EQ compliant and offers the user unrivaled control over every type of program material. Only the highest quality metalized polypropylene capacitors and heavy gauge inductors are used in Technomad networks, minimizing insertion loss and resulting in smooth response throughout the operating bandwidth. Both high and low frequency drivers are ferro-fluited for longer life span and better power handling.

The PassiveProcessor™ option further expands the Berlin's flexibility and ease of use in mobile applications. The PassiveProcessor™ is an internal four position EQ circuit which shifts the optimum listening distance farther away from the loudspeaker by increasing the high frequency output of the unit (without requiring any external processing.)

The Tour Model Berlin is designed for maximum flexibility and ease of use. Installation options include: For stacking or tripod mounting - 1.5" diameter stand-mount sockets on all four sides. For flying with eyebolts - threaded insert flypoints on all sides. For wallmounting using Omnimount™ 300 series brackets - threaded inserts on the back. On the Tour Model version, the included lid protects the speaker during transport and latches onto the back of the cabinet when the unit is being used, to prevent loss. All units stack together via interlocking ribs during transit, and like-size Tour Model cabinets lock together. Technomad Berlin loudspeakers are used worldwide in applications ranging from FOH systems in concert halls to high powered sound effects in theme parks.



Specifications

Size	20.8"high x 15.5"wide x 10.1"deep
Weight	43 lbs
Cabinet	One-piece 1/2" Thick Molded
Freq Response	60 Hz - 18 KHz
Sensitivity	97 dB SPL (1W/1M, swept sine)
Continuous Power	430 Watts (based on EIA test 426B)
Max Peak Power	700 Watts (based on EIA test 426B)
Dispersion/Range*	120° V x 120° H / 100 yds
Impedance	8 ohms (nominal)
Connector	2 x Speak-On
HF Driver	1" Horn-loaded Compression Driver
LF Driver	12" Custom Cone Driver (coaxial)
Crossover	Passive Internal

Features:

- Superb Audio Quality
- Articulate Low End Response
- 3 Layer, Chem Treated, WeatherTech™ Grill
- Mil-Spec 810E Compliant
- Large Grip Handles/Self-casing
- Warranty - 10 Year Cabinet/
5 Year Hardware/ 2 Year Electronics

Options:

- 14 Available Colors - Black is Standard
- Tour Package Available -
Gasketed Lid & Handles for Transport
- Wallmount / Pole Mount Bracket /
Yoke Mount
- Monitor Tilt Kit -
for "Wedge" Monitor Operation
- 300-Watt Internal
70-Volt Transformer
- PowerChiton
Weatherproof
Amplifier

*Suggested effective operating distance, 85 dBa



The Berlin 60|40 & 90|40

Powerful, IP56 Weatherproof, 2-Way Full-range Loudspeaker, with two narrow dispersion patterns. Ideal for applications requiring constant-directivity coverage.

The Berlin 60|40 and 90|40 (HighQ loudspeakers) were designed for use in abusive, real-world situations, both on the road or in permanent installations. Combining super-rugged, U.S. Armed Forces road case technology with a number of acoustic innovations, the Berlin HighQs are powerful and musically accurate loudspeakers.

A Berlin HighQ is the perfect unit for any application where compact size, high frequency dispersion control and high power are required. The 2" compression driver used in both Berlin HighQs provides clean, defined sound in any environment. Even though each Berlin is only 13.5" deep, Technomad's unique cabinet tuning delivers exceptional bass extension, articulation, and pitch. Both Berlin HighQs are extremely EQ compliant and offer the user unrivaled control over every type of program material. Only the highest quality metalized polypropylene capacitors and heavy gauge inductors are used in Technomad networks, minimizing insertion loss and resulting in smooth response throughout the operating bandwidth. Both high and low frequency drivers are ferro-fluited for longer life span and better power handling.

The Tour Model Berlin HighQs are designed for maximum flexibility and ease of use. Installation options include: For stacking or tripod mounting - 1.5" diameter stand-mount sockets on all four sides. For flying with eyebolts - threaded insert flypoints on the left and top sides. For wallmounting using Omnimount™ 300 series brackets - threaded inserts on the back. For yoke mounting - two 3/8-16 threaded inserts on the sides.



The Tour Model version includes a lid to protect the speaker during transport and latches onto the back of the cabinet when the unit is being used, to prevent loss. All units stack together via interlocking ribs during transit, and like-size Tour Model cabinets lock together. A large handle on each end makes carrying a Berlin HighQ extremely easy. Technomad Berlin HighQ loudspeakers are used worldwide in applications ranging from sports facilities to FOH systems in concert halls to high powered sound effects in theme parks.

Features:

- 60140 - Constant Directivity 60x40° Horn
- 90140 - Constant Directivity 90x40° Horn
- Large Grip Handles/Self-casing
- 3 Layer, Chem Treated, WeatherTech™ Grill
- Mil-Spec 810E Compliant
- Warranty - 10 Year Cabinet/
5 Year Hardware/ 2 Year Electronics

Options:

- Available in Bi-amped Configuration
- 14 Available Colors - Black is Standard
- Tour Package Available -
Gasketed Lid & Handles for Transport
 - Wallmount / Pole Mount Bracket /
Yoke Mount
 - Monitor Tilt Kit - "Wedge" Monitor
Operation
 - 300-Watt Internal 70-Volt
Transformer
 - PowerChiton Weatherproof
Amplifier

Specifications

Size / Weight	32.9"high x 20.6"wide x 14.2"deep/90lbs
Cabinet	One-piece 1/2" Thick Molded
Freq Response	50 Hz - 18 KHz
Sensitivity	102 dB SPL (1W/1M, swept sine)
Continuous Power	500 Watts (based on EIA test 426B)
Max Peak Power	1000 Watts (based on EIA test 426B)
60140 Dispersion/Range*	60° V x 40° H / 175 yds
90140 Dispersion/Range*	90° V x 40° H / 150 yds
Impedance	8 ohms (nominal)
Connector	2 x Speak-On
HF Driver	2" Horn-loaded Compression Driver
LF Driver	15" Custom Cone Driver
Crossover	Passive Internal



Technomad Oslo 18 - MP Series

High Power, All-Environment Vented 18" Subwoofer.

Developed for the demanding requirements of themed-entertainment applications, the Oslo offers a remarkable combination of accurate low-bass reproduction and Technomad's world-renowned build quality and reliability.

The Oslo delivers accurate, extended bass in a single-18" driver design, and offers excellent efficiency in a ported design without the excessive port resonance and 'one-note bass' sounds that plague many subwoofers. Ports are flared to minimize port noise and enhance overall performance.

The oslo features Technomad's MilSpec 810F construction, and is cast as a single-piece, thick-walled structure with structural ridging for unmatched rigidity and minimal wall flex. Stainless steel rods couple the front and back faces of the Oslo to enhance stiffness even further, well beyond the performance of even the best fabricated / wooden subwoofers.

The Oslo's environment-impervious cabinet and stainless-steel grill, moisture shedding design, and Technomad's proprietary driver treatments combine to produce a subwoofer that can be installed in virtually ANY environment. Whether extremely hot, extremely cold, high UV intensity, or permanently wet - such as ship-board uses - the Oslo shrugs off environments that destroy ordinary subwoofers in a matter of months. The Oslo is IP56 rated, and is designed for installation underground or into se-work / theming as needed.

The OSLO's compact size and easy-to-move from factor make it an excellent choice for any application requiring maximum bass in minimum volume, Live sound, corporate audio, permanent installations, theatrical use, government applications, training and simulation are all excellent Oslo uses.

The Oslo is fused to prevent damage from severe input power faults, and has an integral stand mount socket (2" OD) for typical subwoofer/pipe/full-range box uses.



Specifications

Size / Weight	28.5" high x 22" wide x 19" deep/75lbs
Cabinet	Mid-density Polyethylene
Freq Response	40 - 300Hz
Freq Range	30 - 300Hz
Max Continuous Power	1200 Watts
Max Peak Power	1500 Watts
Recommended Amplifier Power	1500 Watts
Sensitivity	96 dB SPL
Max Output (long term)	127 dB SPL
Max Output (peak program)	133 dB SPL
Nominal Impedance	8 ohms
Recommended Crossover Point	85 Hz

Features:

- Powerful 18" low frequency driver
- Dual Flared Ports for extended response
- Superb audio quality
- Fully weatherproof construction
- Available in powered version
- One-piece, ½" thick molded cabinet
- Molded-in colors will not crack or fade
- Comprehensive warranty
- Self-draining cabinet
- Twelve (12) optional cabinet colors



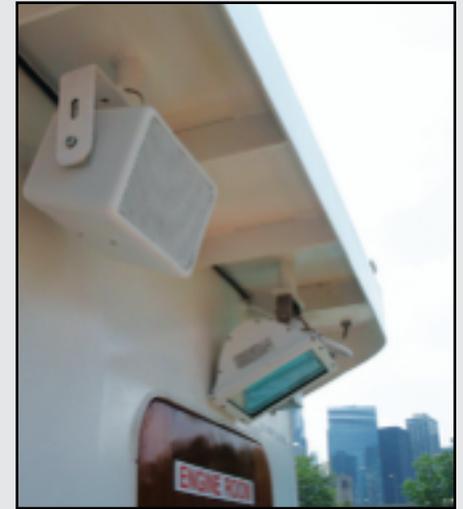


Weatherproof Loudspeakers – MP Series

The ultimate compact all-environment loudspeaker for installations, distributed systems, and compact sound reinforcement applications. Unmatched fidelity, dispersion, and reliability. All models 100% weatherproof (IP56). 8-ohm and 70-Volt versions.

MP Key Features

- Compact, weatherproof indoor / outdoor loudspeakers, IP56
- Power handling from 60 to 250 Watts RMS
- Horn loaded 1" Compression HF Drivers – much better performance than dome-tweeter or no-tweeter designs
- Outstanding throw and projection, wide dispersion
- Self-draining cabinet
- Smooth, architecturally neutral appearance
- Thick, one-piece, acoustically superior rotationally-molded enclosure
- Integral, designed-in weatherproofing does not compromise acoustic performance – (a common problem with “weatherized” versions of other manufacturers’ products.)
- Multiple threaded inserts molded into cabinet wall allow easy installation in any orientation, using standard-thread hardware
- Virtually indestructible cabinet is not affected by UV radiation
- Molded-through color cannot chip, flake, or be scratched off



MP Options

- 70-Volt multi-tap internal transformer (switch settable without opening the cabinet)
- Wallmount Brackets / Yoke Mounts / Pole Mounts – very robust and adjustable
- Mic-Stand Adapter – (factory installed)
- Bolt-on Speaker-stand Adapter – (on the Vienna and Paris only)
- 14 Available colors (black standard)

MP Applications

- Restaurant / Retail Environments –
Gladstone’s Restaurant, Malibu
Jillian’s (Chain)
Red Lobster
- Theme Park Background Music / Paging –
Gates of Universal Studios
- Meeting / Event Audio –
National Gallery of Art, Washington DC
- Outdoor Applications –
PS-1 Contemporary Art Center

The Vernal 15

Ultra-compact, IP56 Weatherproof, 2-Way Full-range Loudspeaker.

The smallest of the MP Series of loudspeakers, the Vernal 15 is the perfect loudspeaker for any application where ultra-compact size and powerful full-spectrum sound are required. No other ultra-compact loudspeaker can rival the sensitivity and power-handling of the Vernal 15.

The Vernal features a true horn-loaded high frequency driver, resulting in much better throw and vocal intelligibility in high ambient noise environments than any dome-tweeter loaded loudspeaker. Only the highest quality metalized polypropylene capacitors and heavy gauge inductors are used in Technomad networks, minimizing insertion loss and producing smooth response throughout the operating bandwidth.

The Vernal is extremely weather resistant. Both the rubber-surround polypropylene mid/bass driver and the high-frequency ceramic driver offer excellent performance in even the most severe weather conditions. The three layer WeatherTech™ grill system sheds water off of the loudspeaker before it can penetrate to the components and all internal assemblies are treated to prevent damage by any moisture which gets past the grill. Rust is never a problem as all external hardware, including the grill, is black stainless steel. Technomad cabinets are cast from Mil-Spec polyethylene, carry a 10-year warranty and are self-draining. From the inside out, every part of every Technomad loudspeaker is designed to provide optimum performance in even the worst conditions.

The Vernal is designed for maximum flexibility and ease of use. Developed with the needs of contractors in mind, it incorporates a wide range of mounting options: For easy suspension – threaded 1/4-20 inserts on each side. Compatible with a wide range of wall-mounting brackets including models from Omnimount™, APC™, and Quik-Lok™ – two 1/4-20 inserts on the back. The Vernal is also compatible with Bose™ mounting hardware.

Combining excellent sound reproduction with high power-handling in an architecturally neutral cabinet, the Vernal 15 is used worldwide in applications such as resorts, theme parks, restaurants, residences, and cruise ships.



Specifications

Size	9.1"high x 6.1"wide x 6.1"deep
Weight	8.5 lbs
Cabinet	One-piece 3/8" Thick Molded
Freq Response	100 Hz - 18 KHz
Sensitivity	91 dB SPL (1W/1M, swept sine)
Continuous Power	60 Watts (based on EIA test 426B)
Max Peak Power	120 Watts (based on EIA test 426B)
Dispersion/Range*	120° V x 120° H / 20 yds
Impedance	8 ohms (nominal)
Connector	1 X Screw Terminal
HF Driver	High-SPL, 1" Horn-loaded Compression Driver
LF Driver	5.25" Custom Polypropylene Driver
Crossover	Passive Internal

Features:

- Superb Audio Quality
- Unrivaled Projection in the Ultra Compact Loudspeaker Class
- 3 Layer, Chem Treated, WeatherTech™ Grill
- Mil-Spec 810E Compliant
- Warranty – 10 Year Cabinet/5 Year Hardware/ 2 Year Electronics

Options:

- 14 Available Colors – Black or White is Standard
- Dual Mode Operation – Multi-tap (10, 20, 40, 60 Watt) Internal 70 Volt Transformer, 8 Ohm
- Wallmount / Pole Mount Bracket / Yoke Mount
- PowerChiton Weatherproof Amplifier

*Suggested effective operating distance, 85 dBa



The Vienna 16

Compact, IP56 Weatherproof, 2-Way Full-range Loudspeaker

Designed for use in abusive, real-world situations, the Vienna 16 delivers detailed, powerful sound in a compact, durable package suitable for both permanently installed and mobile applications.

The ceramic driven, wide dispersion horn of the Vienna provides clear coverage even in large reverberant spaces such as churches and gyms, while the 6.5" mid/bass driver produces extended, distortion-free bass output. Only the highest-quality metalized polypropylene capacitors and heavy gauge inductors are used in Technomad networks, minimizing insertion loss and resulting in smooth response throughout the operating bandwidth.

The Vienna is extremely reliable in any environment. Both the rubber-surround polypropylene mid/bass driver and the high-frequency ceramic driver offer excellent performance in even the most severe weather conditions. The three layer WeatherTech™ grill system sheds water off of the loudspeaker before it can penetrate to the components and all internal assemblies are treated to prevent damage by any moisture, such as condensation, which gets past the grill. Rust is never a problem as all external hardware, including the grill, is black stainless steel. Technomad cabinets are cast from Mil-spec polyethylene and are self-draining. From the inside out, every part of every Technomad loudspeaker is designed to provide optimum performance in even the worst conditions.

Developed with contractors' needs in mind, the Vienna incorporates a wide range of mounting fittings: For easy suspension - threaded 5/16-18 inserts on each side. To attach standard Quik-Lok™ or Ultimate Support™ stand sockets - threaded inserts are also

provided. Compatible with Quik-Lok™ QL-30E, Omnimount™ 75, and APC® MM-020 multi-position brackets - four 1/4-20 threaded inserts on the back. With its low-profile design and 14 optional colors, the Vienna can be discreetly installed in any application.

Architecturally neutral and small enough to be discreetly installed almost anywhere, the Vienna provides powerful, clear sound in applications worldwide such as theme parks, theaters, cruise ships, and resorts.



Features:

- Superb Audio Quality
- Articulate Low End Response
- 3 Layer, Chem Treated, WeatherTech™ Grill
- Mil-Spec 810E Compliant
- Warranty - 10 Year Cabinet/
5 Year Hardware/ 2 Year Electronics

Options:

- 14 Available Colors - Black is Standard
- Dual Mode Operation -
Multi-tap (16, 32, 64, 128 Watt)
internal 70 Volt Transformer, 8 Ohm
- Wallmount / Pole Mount Bracket /
Yoke Mount
 - PowerChiton
Weatherproof
Amplifier

Specifications

Size	15.5"high x 8.5"wide x 7.4"deep
Weight	18 lbs
Cabinet	One-piece 1/2" Thick Molded
Freq Response	85 Hz - 18 KHz
Sensitivity	93.5 dB SPL (1W/1M, swept sine)
Continuous Power	150 Watts (based on EIA test 426B)
Max Peak Power	200 Watts (based on EIA test 426B)
Dispersion/Range*	120° V x 120° H / 35 yds
Impedance	8 ohms (nominal)
Connector	1 x Speak-On, 1 Screw Terminal
HF Driver	High SPL, 1" Horn-loaded Compression
LF Driver	6.5" Custom Polypropylene Driver
Crossover	Passive Internal



The Paris 616

Compact, Powerful, IP56 Weatherproof, 2-Way Full-range Loudspeaker

The Paris 616 is the largest and most powerful loudspeaker in the MP Series. Designed for use in abusive, real-world situations, the Paris delivers detailed, articulate sound in a compact, durable package suitable for both permanently installed and mobile applications.

Loaded with a 1" ceramic driver, the wide dispersion horn of the Paris provides clear coverage even in large reverberant spaces such as churches or gymnasiums, while the twin 6.5" mid/ bass drivers produce extended, distortion-free bass output. Only the highest-quality metalized polypropylene capacitors and heavy gauge inductors are used in Technomad networks, minimizing insertion loss and resulting in smooth response throughout the operating bandwidth.

The Paris is extremely reliable in any environment. Both the rubber-surround polypropylene mid/bass drivers and the high-frequency ceramic driver offer excellent performance in even the most severe weather conditions. The three layer WeatherTech™ grill system sheds water off of the loudspeaker before it can penetrate to the components and all internal assemblies are treated to prevent damage by any moisture, such as condensation, which gets past the grill. Rust is never a problem as all external hardware, including the grill, is black stainless steel. Technomad cabinets are cast from Mil-Spec polyethylene and are self-draining. From the inside out, every part of every Technomad loudspeaker is designed to provide optimum performance in even the worst conditions.

Developed with contractors' needs in mind, the Paris incorporates a wide range of mounting fittings: For easy suspension – threaded 5/16-18 inserts on each side. To attach standard Quik-Lok™ or Ultimate Support™ stand sockets – threaded inserts are also provided. Compatible with Quik-Lok® QL-30E, Omnimount™ 75, and APC® MM-020 multi-position brackets – four 1/4-20 threaded inserts on the back. Because of its low-profile design and symmetrical dispersion, the Paris can be discreetly installed vertically on poles and columns or horizontally under eaves and balconies.

Due to its high power output and architecturally neutral appearance, the Paris is used worldwide in applications such as theme parks, theaters, resorts, and military bases.



Specifications

Size	26.9"high x 8.35"wide x 7.4"deep
Weight	25 lbs
Cabinet	One-piece 1/2" Thick Molded
Freq Response	65 Hz - 18 KHz
Sensitivity	95.5 dB SPL (1W/1M, swept sine)
Continuous Power	250 Watts (based on EIA test 426B)
Max Peak Power	300 Watts (based on EIA test 426B)
Dispersion/Range*	120° V x 120° H / 60 yds
Impedance	6 ohms (nominal)
Connector	1 x Speak-On, 1 Screw Terminal
HF Driver	High SPL, 1" Horn-loaded Compression Driver
LF Driver	2 x 6.5" Custom Polypropylene Driver
Crossover	Passive Internal

Features:

- Superb Audio Quality
- 3 Layer, Chem Treated, WeatherTech™ Grill
- Mil-Spec 810E Compliant
- Warranty – 10 Year Cabinet/
5 Year Hardware/ 2 Year Electronics

Options:

- 14 Available Colors – Black is Standard
- Dual Mode Operation –
Multi-tap (16, 32, 64, 128 Watt)
internal 70 Volt Transformer, 8 Ohm
- Wallmount / Pole Mount Bracket /
Yoke Mount
- PowerChiton
Weatherproof
Amplifier

*Suggested effective operating distance, 85 dBa



Turnkey Weatherproof PA Systems

Get the Sound Your Team, Event, or Venue Deserves - Complete, Pre-Integrated Technomad PA systems

The Problem: For too long you've put up with hard-to-hear speech, and music that sounds like it's coming through a telephone. But, how do you choose the right system? Most "weather-resistant" loudspeakers only survive a season or two, if you're lucky (and sound pretty terrible anyway.) And, trying to figure out what kind of amplifier, mixer (with all the right connections), microphone and cables to get is confusing. Then finally, trying to hook everything up correctly ... What a hassle.

The Answer: Complete, ready-to-use, all-environment PA systems for mobile or permanently-installed use. Technomad Turnkey PA systems combine great-sounding, high-powered, Mil-Spec weatherproof (IP56) loudspeakers with a power-matched, pre-integrated amplifier, a mixer with mic / iPod™ / CD player inputs, a hand-held dynamic microphone, mounting hardware or tripods, wiring, and speaker cables. Perfect for sport facilities or sound reinforcement. All models are 100% weatherproof.

Audio quality is vastly better than "horn" systems or music-store PAs, with clear speech reproduction and high-fidelity music playback. The sound is better than any outdoor audio system you've ever heard - speech is clear even at long distances, or in windy / noisy environments, and music sounds great, with detailed highs and deep bass. The integrated mixer allows two mic-level and four line-level sources (such as a CD player, tape deck, or MP3 player) to be attached to the system.

All electronics are pre-wired and installed in a rugged Mil-Spec flight case for secure transport or storage (restaurant/retail systems come with an attractive inside-use rack). Because Technomad assembles and tests your system at the factory, all you have to do is plug the mixer and the amplifier into AC power and attach the loudspeaker cables to the loudspeakers. You can easily connect an iPod™/MP3 player, CD player or tape deck to the system, if desired. Most people have their systems up and running in 15 minutes, even if they have no prior audio expertise.

Technomad Turnkey PA systems are ideal for academic applications, event audio, sporting events, music playback, voice paging, and more. There are six turnkey PA systems to choose from - three for installations (which include wallmounts), and three for mobile use (which include tripods). Quick to set up and use, Technomad Turnkey PA systems are the simple solution to your audio needs.

PA System Key Features

- Compact, weatherproof indoor / outdoor loudspeakers, IP56
- Power handling from 60 to 250 Watts RMS
- Horn loaded 1" Compression HF Drivers - much better performance than dome-tweeter or no-tweeter designs
- Outstanding throw and projection, wide dispersion
- Self-draining cabinet
- Smooth, architecturally neutral appearance
- Thick, one-piece, acoustically superior rotationally-molded enclosure
- Integral, designed-in weatherproofing does not compromise acoustic performance - (a common problem with "weatherized" versions of other manufacturers' products.)
- Multiple threaded inserts molded into cabinet wall allow easy installation in any orientation, using standard-thread hardware
 - Virtually indestructible cabinet is not affected by UV radiation



Turnkey Weatherproof Install PA Systems

There are 3 sizes of install system: small, medium, and large.

The medium system handles an entire high school football stadium with ease - home, field, and away sides.



IPA1 - Small Install PA System



Small System Includes		Rack	Technomad 6-Space Rack
Loudspeakers	2 x Weatherproof Vienna 16 Loudspeakers	Wallmounts	2 x Technomad 512 Mount
Amplifiers	Technomad 050 Amplifier (2 x 175W)	Speaker Cable	2 x 50', 12 Gauge, Outdoor
Mixer	Technomad M1 6-channel Mixer, 2 Mic In	Cords	All Patch Cords
Input Front	3.5mm Line Level Jack & XLR Mic Jack	Storage Case	6U Case for Mixer and Amp
Input Rear	4 Stereo Line Level Inputs & 2 XLR Mic	Ship Weight	99 lbs
Microphone	Dynamic, Switched - with Cable	Audience/Range*	200 Plus / 35 yds

Note: Amp can drive up to 6 Noho loudspeakers

**BEST FOR
HIGH SCHOOL
STADIUMS!**



IPA2 - Medium Install PA System



Medium System Includes		Rack	Technomad 6-Space Rack
Loudspeakers	2 x Weatherproof Noho Install Model	Wallmounts	2 x Technomad 694 Mount
Amplifiers	Technomad P-1 Amplifier (2 x 500W)	Speaker Cable	2 x 50', 12 Gauge, Outdoor
Mixer	Technomad M1 6-channel Mixer, 2 Mic In	Cords	All Patch Cords
Input Front	3.5mm Line Level Jack & XLR Mic Jack	Storage Case	6U Case for Mixer and Amp
Input Rear	4 Stereo Line Level Inputs & 2 XLR Mic	Ship Weight	163 lbs
Microphone	Dynamic, Switched - with Cable	Audience/Range*	1000 Plus / 100 yds

Note: Amp can drive up to 6 Noho loudspeakers



IPA3 - Large Install PA System



Large System Includes		Rack	Technomad 6-Space Rack
Loudspeakers	2 x Weatherproof Berlin 15/H Install Model	Wallmounts	2 x Technomad 694 Mount
Amplifiers	Technomad P-1 Amplifier (2 x 500W)	Speaker Cable	2 x 50', 12 Gauge, Outdoor
Mixer	Technomad M1 6-channel Mixer, 2 Mic In	Cords	All Patch Cords
Input Front	3.5mm Line Level Jack & XLR Mic Jack	Storage Case	6U Case for Mixer and Amp
Input Rear	4 Stereo Line Level Inputs & 2 XLR Mic	Ship Weight	240 lbs
Microphone	Dynamic, Switched - with Cable	Audience/Range*	2000 Plus / 150 yds

Note: Amp can drive up to 6 Berlin loudspeakers

*Suggested effective operating distance, 85 dBa

Turnkey Weatherproof Mobile PA Systems

There are 3 sizes of mobile system: small, medium, and large.

Pre-assembled and tested packages that give you everything you need for great mobile sound

MPA1 - Small Mobile PA System



Small System Includes		Rack	Technomad 6-Space Rack
Loudspeakers	2 x Weatherproof Vienna 16 Loudspeakers	Wallmounts	2 x Technomad 512 Mount
Amplifiers	Technomad C050 Amplifier (2 x 175W)	Speaker Cable	2 x 50', 12 Gauge, Outdoor
Mixer	Technomad M1 6-channel Mixer, 2 Mic In	Cords	All Patch Cords
Input Front	3.5mm Line Level Jack & XLR Mic Jack	Storage Case	6U Case for Mixer and Amp
Input Rear	4 Stereo Line Level Inputs & 2 XLR Mic	Ship Weight	121 lbs
Microphone	Dynamic, Switched - with Cable	Audience/Range*	200 Plus / 35 yds

Note: Amp can drive up to 6 Vienna loudspeakers

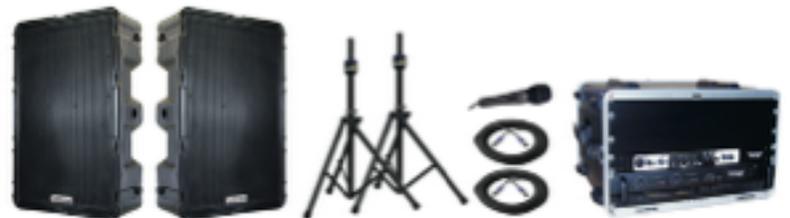
MPA2 - Medium Mobile PA System



Medium System Includes		Rack	Technomad 6-Space Rack
Loudspeakers	2 x Weatherproof Noho Tour Model	Wallmounts	2 x S6 Technomad Tripods
Amplifiers	Technomad C100 Amplifier (2 x 500W)	Speaker Cable	2 x 50', 12 Gauge, Outdoor
Mixer	Technomad M1 6-channel Mixer, 2 Mic In	Cords	All Patch Cords
Input Front	3.5mm Line Level Jack & XLR Mic Jack	Storage Case	6U Case for Mixer and Amp
Input Rear	4 Stereo Line Level Inputs & 2 XLR Mic	Ship Weight	188 lbs
Microphone	Dynamic, Switched - with Cable	Audience/Range*	1000 Plus / 100 yds

Note: Amp can drive up to 6 Noho loudspeakers

MPA3 - Large Mobile PA System



Large System Includes		Rack	Technomad 6-Space Rack
Loudspeakers	2 x Weatherproof Berlin 15/H Install Model	Wallmounts	2 x S6 Technomad Tripods
Amplifiers	Technomad C200 Amplifier (2 x 500W)	Speaker Cable	2 x 50', 12 Gauge, Outdoor
Mixer	Technomad M1 6-channel Mixer, 2 Mic In	Cords	All Patch Cords
Input Front	3.5mm Line Level Jack & XLR Mic Jack	Storage Case	6U Case for Mixer and Amp
Input Rear	4 Stereo Line Level Inputs & 2 XLR Mic	Ship Weight	269 lbs
Microphone	Dynamic, Switched - with Cable	Audience/Range*	2000 Plus / 150 yds

*Suggested effective operating distance, 85 dBa

Note: Amp can drive up to 6 Berlin loudspeakers

Turnkey 70-Volt Restaurant / Retail PA Systems

Does your restaurant or retail space need a GREAT outdoor audio system?

Are you tired of maintaining delicate "sound reinforcement" systems that can't handle the rigors of the real world? If so, you need a Technomad high-performance 70-Volt audio system. This pre-assembled and tested package gives you everything you need for great sound, either to extend your existing indoor PA system, or as a stand-alone PA for your whole facility. The system is completely weatherproof, sounds great, and is easy to install.

Technomad loudspeakers are waterproof, rugged and reliable due to their basic design. Therefore additional design effort can concentrate on building a no-compromise speaker that sounds great too. The Technomad 70V Turnkey system reproduces music of extremely high quality. The system has unmatched audio performance. It is free of distortion and the limited frequency range of other outdoor systems. Speech is clear, intelligible, and natural sounding, even in noisy or windy environments. In addition, the system connects quickly and easily to virtually any existing sound system by simply connecting an auxiliary stereo output (from your existing system) into one of the line level inputs on the Technomad mixer.

There are three sizes of RPA system (each can be extended with available options listed below):

RPA1 - Small Area PA System - 2 loudspeakers

RPA2 - Medium Area PA System - 4 loudspeakers

RPA3 - Large Area PA System - 6 loudspeakers



All Systems Include	
Loudspeakers	Technomad Vernal 15T loudspeakers - Completely weatherproof and military-grade. These small, mighty loudspeakers have unmatched sound quality and projection, and are virtually indestructible.
Brackets	Wallmount Speaker Brackets
Amplifier	Technomad 70-Volt amplifier - Pre-wired amp/mixer rack. The amplifier is powerful enough to drive the Vernal speakers, as well as one optional Soho 12 subwoofer.
Mixer	Mixer with 6 line inputs - Four standard rear inputs for CD/Tape/iPod™/MP3 or a background music system, as well as 2 microphone inputs. A 3.5mm front jack is provided on the mixer for easy iPod™/MP3 player connection.
Speaker Cable	200' reel of outdoor speaker cable (100' included in small system - RPA1)



Options:

- Soho 12T Subwoofer -add a Soho Subwoofer to any RPA system. No additional amp or crossover is required. Additional speaker attaches to the same wiring as the Vernal loudspeakers. Includes on-loudspeaker volume switch so you can adjust the amount of bass.
- Additional Vernal 15T Loudspeakers
- 200' of Additional Cable
- Gooseneck Push-To-Talk Microphone
- Hand-Held Microphone
- Wireless Microphone System
- 14 Available Colors -black or white is Standard



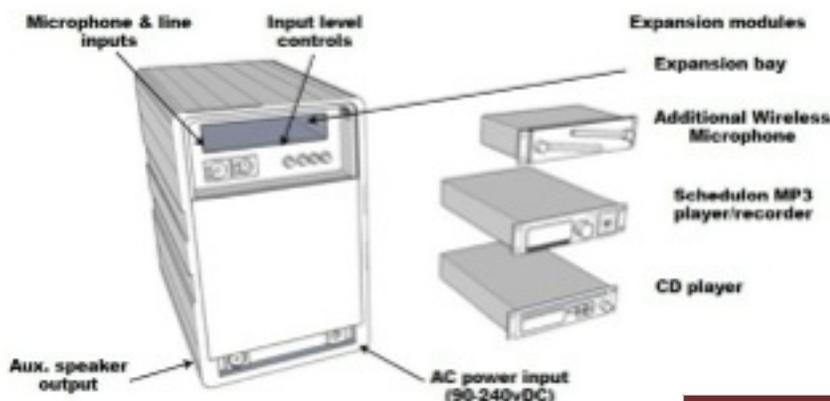
DragonFly™ PA System V 1.0



Highly Portable, Self-powered, High Output, Expandable PA System.

The DragonFly is a portable PA unit designed to provide high quality audio while offering Technomad's unsurpassed combination of audio quality, product flexibility and ruggedness. Fully weatherproof, the DragonFly can easily be transported and set up by one person. A molded in stand-mount socket on the bottom of the unit and inserts on the sides for yoke mounting give the DragonFly a range of deployment options. With a state of the art neodymium coaxial driver, the DragonFly is capable of producing highly intelligible audio at 122 dB SPL.

The DragonFly is highly expandable with an available expansion bay for use with Technomad's Schedulon MP3 player/recorder, a CD player module, a second wireless microphone or an audio distribution interface, including 900 Mhz wireless, ethernet and twisted pair configurations. Extended operation time is available through either internal or external battery pack options. Whether you need a self-contained, complete PA unit for field deployment or to expand or build an existing PA system with additional, compact output units, the DragonFly can meet your requirements.



Features:

- 122dB SPL continuous output
- Wireless microphone
- Fast charging, lightweight NiMH battery pack
- Fully weatherproof
- Full Range Neodymium coaxial transducer
- Lightweight- just 25 lbs.
- Microphone and line level inputs
- Expansion Slot for Schedulon MP3 player/recorder, CD Player, second wireless microphone or audio distribution module
- Gasketed cover for control surface
- Integrated smart charger for battery pack

Options:

- Schedulon MP3 player with scheduling capability
- Audio Distribution Modules:
 - Ethernet
 - Wireless (900Mhz)
 - Twisted pair
- Expanded life battery pack (internal)
 - All day battery pack (external)
- Yoke-mount bracket
 - Additional wireless microphone
 - CD player module

Specifications

Size	14.5"high x 8.25"wide x 14"deep
Weight	25 lbs
Cabinet	Mid-density Polyethylene
Rigging Points	2x 1/4-20 threaded insets on top (handle mount points)
Yoke Mount Points	2x 1/4-20 threaded inserts on side
Standmount Sockets	1x 1.5" socket on bottom of unit
Handles	1x strap handle
Grill	Powder coated stainless steel
Freq Response	90 Hz - 18 KHz
Maximum Output	121 dB SPL (long term)
Maximum Output	124 dB SPL (peak program)
HF Dispersion	70° V x 70° H
Audio Inputs	1x SLR, mic. level, 1x 1/4, line level
Audio Outputs	1x Neutrik NL4MP
Power Inputs	AC (90-240vAC), DC (12-24vDC)
Battery	5AH NiMH
Battery Operational Life	2.5 hrs full operation, 5 hrs stand-by



The Schedulon

MP3 Player-Recorder with Scheduling & Advanced Networking

Introducing the Technomad Schedulon™ – the ultimate audio playback / recording system for commercial applications. The Schedulon offers both instant playback of your MP3 format audio via a convenient knob and screen, and also allows you to schedule sounds for automatic, unattended playback – i.e. a bell every day at 8:00, a special song every Saturday at 10:00, etc.



The Schedulon integrates with your existing audio systems (i.e. internal building audio systems) using standard line-level cables, or order it with any Technomad Turnkey PA system.

Applications:

Facility Scheduling (airports, hospitals), **Schools** (bells, announcements), **Corporate Audio** (no CDs to misplace), **Training, Sports Facilities** (load team music or special effects for instant playback), automatic **Safety Announcements** (i.e. airport announcements), **Theme Park Audio, Sound-effects, Pool-side Music or DJ applications**, and **Much More**.

Features:

- **Easy File Transfer** – connect to a PC with an Ethernet cable, or remove the USB Flash drive and connect to a PC.
- **Standard File Format** – no proprietary card format; no special audio format.
- **Local Recording** – the Schedulon can record audio from its stereo line-in jacks. Audio is encoded as high-quality (192kbps) MP3 sound files and assigned to any desired knob location for instant playback. You can also use the recorded sound in a schedule for automatic playback. The small file size of the MP3 format uses less space on the drive.
- **Instant Playback** – you can assign audio files to any of ninety-nine playback “slots” on the front knob. These audio files can be selected from the knob on the front of the unit, and played instantly. Sounds can be set to loop indefinitely, play once through, or play only while the knob is pushed in.
- **Scheduled Playback** – up to 100 lines of automatic playback can be scheduled, specifying the sound file, time to start, time to stop, interval (i.e. every 5 minutes), and number of repeats. You can set sounds to play on specific days of the week, weekdays, weekends, or on specific dates. It is simple to build complex schedules of announcements, bells or carillon sounds, etc. Scheduled sounds are interrupted if a “front-knob” sound is selected (i.e. emergency evacuation.) Scheduled audio resumes with next event start.
- **Easy Web-Based Remote Management** – the Schedulon can be completely programmed using only the knob and screen. Or, it can be remotely managed via a web-interface: you can upload or delete audio/sounds, edit the schedule, play sounds and change knob assignments from your LAN or anywhere in the world via the internet. No special software is required – just a modern browser. Sound playback can be triggered or stopped via simple network CGI command language.

Flash-RAM Memory – (no hard-drive) makes the Schedulon tough and reliable. Unlike a PC-based solution, it can't catch a virus or crash due to operating system errors. All sound files and schedule / knob assignment data are stored on the flash drive for easy removal and “cloning” if desired.

Robust Internal Real Time Clock

Internet Time Server – the Schedulon can synchronize to a time server if the user so chooses.

Flash-RAM Memory – (no hard-drive) makes the Schedulon tough and reliable. Unlike a PC-based solution, it can't catch a virus or crash due to operating system errors. All sound files and schedule / knob assignment data are stored on the flash drive for easy removal and “cloning” if desired.

Robust Internal Real Time Clock

Internet Time Server – the Schedulon can synchronize to a time server if the user so chooses.

• Password-protected –front knob lock out

Specifications

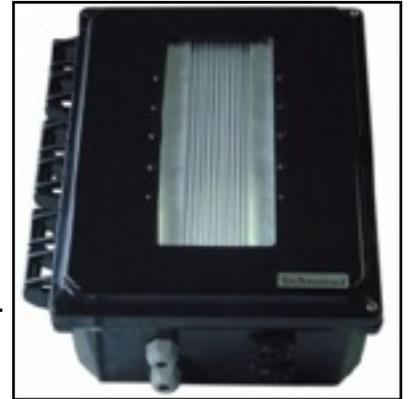
Size / Weight	1.75" high x 19.5" wide x 10.5" deep / 4 lbs
Storage	Hatch-protected 1GB USB Drive – expandable (up to 1500 minutes of audio at highest)
Input	Front-Accessible RJ45 Ethernet Jack
Audio Input	RCA Input for Line Inputs
Audio Output	RCA Input for Line Inputs
Playback	MP3 Format Audio, 32kbps to 320kbps, Stereo or Mono, Fixed or Variable Bit Rate
Recording	MP3 Format Audio, 192kbps, Stereo, Fixed Bit Rate
Mounting	1U Height Rack-mountable
Power	120-240 Volt AC Power



PowerChiton™ Outdoor Amplifiers - Products

Professional-grade weatherproof IP66 rated mono block power outdoor amplifiers with Analog Line Level, Ethernet, WIRELESS, and Twisted-Pair interface options.

- True waterproof construction
- Designed for permanent outdoor use
- Fuse-protected amplifier unit
- Compact and durable
- Optional pole-mount
- Two line-level inputs, volume of each adjustable via internal mixer
- NETWORKABLE with optional Ethernet, wireless RF receiver, or twisted pair audio interfaces.
- UV stable inclosure
- Highly efficient mono power amplifier unit
- Integral two-line mixer, accepts line level audio signals
- Available in 100W, 130W, 250W, 525W, and 1500W configurations (@8 Ohms)
- Optional 70-Volt Transformer
- Built in high pass and low-pass filtering – choose 85 Hz high pass, 85 Hz low pass, 350 Hz high pass, and full range



Applications: distributed audio systems, pole-mount audio, themed entertainment, concert delay systems, outdoor paging systems, installed audio where no equipment room is available, networked audio over IP, mass transit/train yard audio, wireless audio distribution, airport and boat terminal audio, more.

The PowerChiton series of weatherproof outdoor amplifier modules represent a new approach to outdoor audio systems. Combining a high performance, passively cooled amplifier with a IP66 rated, low-profile enclosure, the PowerChiton offers the system installer or designer a new solution for the problems of distributed outdoor audio system design.

Each PowerChiton monoblock amplifier module is capable of powering an @ two-Ohm load and therefore can drive one, two, or three eight-Ohm loudspeakers. Due to the efficient design of the amplifier module, only a passive radiation is needed for cooling and there are no moving parts in the module, reducing failure points.

There are five sizes of PowerChiton available- 100W, 130W, 250W, 525W, and 1500W (mono, into 8-Ohm loads).

While they were optimized for use with the Technomad Vernal, Vienna, Noho and Berlin weatherproof loudspeakers, the PowerChiton can be used with any eight or four ohm loudspeaker.

The PowerChiton base model ships with two line-level inputs, which can be independently adjusted by an internal mixer. The PowerChiton has available expansion options enabling it to work on an Ethernet network (accepting any nitrate MP3 format audio for VOIP or Audio-Over-IP applications), RDL™ Twisted Pair installation, or FM wireless distribution system. When combined with Technomad's wireless transmitter, the PowerChiton system provides an unrivaled way to distribute audio and amplify it at maximum quality.

Need filtering for subwoofers or smaller full range boxes? No problem! Choose 85 Hz high-pass, 85 Hz low-pass, 350 Hz high pass, and full-range output, just by moving an internal cable.

The PowerChitons can be wall-mounted with the included mounting feet.

Performance Specifications

PowerChiton Micro Outdoor Amplifier Ideal for powering up to two Technomad Vernal Loudspeakers	100W @ 8Ω 195W @ 4Ω 230W @ 2.6Ω
PowerChiton 1 Outdoor Amplifier Ideal for powering up to two Technomad Vienna Loudspeakers	130W @ 8Ω 250W @ 4Ω 300W @ 2.6Ω
PowerChiton 2 Outdoor Amplifier Ideal for powering up to two Technomad Paris Loudspeakers	250W @ 8Ω 500W @ 4Ω 750W @ 2.6Ω
PowerChiton 3 Outdoor Amplifier Ideal for powering up to two Technomad Noho or Berlin Loudspeakers	525W @ 8Ω 1100W @ 4Ω 1500W @ 2.6Ω
PowerChiton 4 Outdoor Amplifier Ideal for powering up to two Technomad Berlin or Berlin 6040/9040 Loudspeakers	1500W @ 8Ω 2000W @ 4Ω 2000W @ 2.6Ω



PowerChiton™ Outdoor Amplifiers - Options

- Wireless Transmitter Base Station
- Wireless Receiver Module (factory installed in PowerChiton)
- BreakOut Box – adds lockable enclosure with integral 4-input mixer – use it to connect an SLR mic or line-level inputs. Ideal for post-mounted systems – directly connect to your PowerChiton via the BreakOut Box. New! BreakOutBox XL holds up to 3 wireless microphone receiver, plus room for handheld mics and accessories
- Internal 70-volt transformer, available on PowerChiton 1, 2, 3
- Ethernet Audio-Over-IP module (factory installed in PowerChiton) – Barix Extreamer Ethernet Audio-Over-IP module (factory installed)

Architectural Specifications:

- The outdoor amplifier module shall be a single passively cool type integrated into a wetherproof, polycarbonate NEMA enclosure rated for IP66 exposure. The unit shall be fuse-protected and capable of operating off of either 120vAC or 220vAC power. The unit shall offer options for flange mounting and pole mounting. The unit shall be rated at UL 94 for flame resistance. The unit shall be UL rated for UV resistance. The unit shall be capable of operating a 8 Ohms, 4 Ohms and 2.6 Ohms. The unit shall have a THD + N less than .01%. The unit shall have a total efficiency of better than 81%. The unit shall be expandable to operate as a network audio device with optional Ethernet module. The unit shall be passively cooled via an exposed, weatherproof aluminum heat sink. The unit shall be expandable to operate on a FM wireless system with optional wireless module. The unit shall be expandable to operate with RDL Twisted Pair™ distribution systems. The unit shall be a Technomad PowerChiton Outdoor Amplifier.

Dimensions

PowerChiton 1	8.50" x 7.36" x 5.20 216mm x 188mm x 132mm
PowerChiton 2	10.50" x 8.50" x 5.20 266mm x 216mm x 132mm
PowerChiton 3	10.50" x 8.50" x 5.20 266mm x 216mm x 132mm
PowerChiton 4	12.50" x 10.50" x 5.35 317mm x 266mm x 136mm

Specifications

Cabinet	Polycarbonate (gray/black)
Flame Rating	UL94
Outdoor UV Rating	UL tested
IP Rating	IP66
Power Input	6' 12/3 AWG pigtail (110-120 60 Hz or 220-240 50 Hz VAC)
Audio Input	terminal block, internal – compression fitting provides weatherproof cable access
Network Connection (optional)	RJ45 Ethernet jack
Audio Output	2x NL4MP Speak-On
Mounting Options	Flange mount, Pole mount, Speaker mount

Features:

- Balanced line level input
- Unbalanced line level input
- Integrated crossover filters - full range, 85hz high pass, 350Hz high pass, 85Hz low pass.
- Highly efficient switching amplifier module design
- Weatherproof polycarbonate enclosure

Options:

- BreakOutBox™ field interface unit
- BreakOutBox XL™ field interface with expansion bays
- Ethernet receiver module
- Accessory 902-928MHz wireless audio link
- Integrated Apple AirPlay™ receiver module
- Pole mount adaptors (2", 3" and 4" diameter)
- 70/100V Transformer



How to Purchase

Technomad products are sold through an extensive US and International Dealer Network.

Our Massachusetts-based staff is happy to answer your pre-sale questions –

Contact us:

WEBSITE and DEALER LOCATOR

technomad.com/catalog

PHONE

North America **800.464.7757**

International **617.275.8898**

EMAIL

sales@technomad.com



Technomad Vernal 15s at Chicago's sightseeing shoreline



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