

OUTDOOR AV

By Mary Bakija

“Neither snow nor rain nor heat nor gloom of night...” What’s true for the Postal Service is true for a number of audio visual products these days. Depending on the needs of a particular outdoor installation, it’s likely there’s a speaker or display that will stand up to the elements for a long time to come.



AMK DS84-B-X

The **AMK DS84-B-X** is a Dante audio network addressable and self-amplified ceiling speaker system. The weather and water-resistant speaker is powered by PoE+ network switch, so no external power supply is required, plus it includes a Class D amplifier. The audio network system is also compatible with AES67, which makes it flexible with other audio network systems. The network system is also Dante Domain Manager Ready. The system comes with an 8in. coaxial 40W loudspeaker driver, the CX802, that has excellent dispersion, wide bandwidth, and a smooth frequency response, ideal for overhead commercial applications.

The commercial grade, all-weather outdoor digital signage display enclosures that are part of the **Apollo's** affordable **Pro-X line** offer ultra-high bright (1500-4000) nit outdoor applications for 49- to 75-inch ultra-bright displays in portrait and landscape. All-aluminum, powder-coated, and anti-reflective. Tight-Seal Technology combines with thermostatically controlled and filtered multi-fan air-flow system to protect from temperatures ranging from -4 degrees to 122 degrees F, in addition to rain, dust, and insects. Power cable is 9ft. outdoor rated; signal cables are protected by a watertight cover entrance (or choose direct



Apollo Pro-X Line

conduit for both). Weatherproof articulating or non-articulating wall mounts are also available.

To withstand the harshest environments, **AtlasIED Strategy Series SM63T** surface



AtlasIED SM63T

mount speakers are constructed of weather resistant materials: UV-resistant, talc impregnated, polypropylene injection molded cabinets; polypropylene woofer cones; powder coated aluminum grilles, and all brass hardware. The Strategy Series speaker systems include a versatile C-bracket designed to provide easy vertical or horizontal installation



**Bose
Pananaray 802
Series IV**



**Crestron
Saros SR6T-
B-T-EACH**

on just about any surface, though care should be taken to prevent the SM63T from being exposed to direct precipitation. The design provides smooth, even sound coverage (120°H x 120°V). The high frequency section is symmetrical, for equal coverage in both vertical and horizontal cabinet mounting positions.

The **Bose Panaray 802 Series IV** installed sound-reinforcement loudspeaker is a cost-effective solution that features a Weather-Rated Design that makes it a good choice for harsh outdoor installed sound-reinforcement environments. It features a full-range-driver array, eliminating the need for tweeters and crossovers, and the Articulated Array design, with wide 120° x 100° coverage, can reduce the number of required loudspeakers, while the 52-Hz low-frequency range can reduce the need for subwoofers. Additionally, it boasts 123 dB peak SPL for sound-reinforcement and foreground music.

The **Community Professional R.35-3896-EN** is a high performance, compact loudspeaker for fill and supplementary areas in larger venues, and for smaller venues wanting to conform to EN54 standards. With outstanding voice and music quality, the R.35-3896-EN is equally suitable for indoor and outdoor use in a wide variety of applications, including background and foreground music and announcement systems. The R.35-3896-EN is a fully horn-loaded triaxial three-way, full-range loudspeaker system, designed



**Community
Professional
R.35-3896-EN**

to provide high quality voice and music reproduction that can be clear even at swimming pools, stadiums, cruise ships, theme parks, and more. Featuring Community's Multi-Source Waveguide horn design, the output from the dual midrange compression drivers and 1-inch exit HF driver are combined into a single time-coherent source, resulting in excellent musicality, intelligibility, and dispersion consistency.

In addition to excellent speech intelligibility and full, rich music reproduction, **Crestron Saros SR6T-B-T-EACH** speakers deliver solid, weatherized construction and other features that ensure years of reliable performance. The Saros SR6T model is a 2-way surface-mount speaker featuring a 6.5-inch woofer and a horn-loaded 1-inch dome



**Danley's
OS12CX**

tweeter. A built-in 60 Watt multi-tap transformer allows for use with 70 and 100 Volt distributed speaker systems. Power handling at 8 Ohms is 150 Watts (program), with a frequency range from 70 Hz to 18 kHz (-10 dB). Its weatherized construction allows for use in outdoor entertainment venues, decks, patios, locker rooms, and swimming pools. Additionally, a weather boot is included to protect the wiring connections from moisture.

Danley's OS12CX is a high output, fully weatherized outdoor loudspeaker in an ultra-compact box. The OS12CX features a coverage pattern that's 90 degrees conical, an operating range of 69Hz -21.7kHz +/-3dB, and an output of 124 dB SPL program/127 dB SPL peak. It's constructed of a thermal molded poly-composite, and includes a heavy-



**D.A.S.
Audio WR-
6412FX**

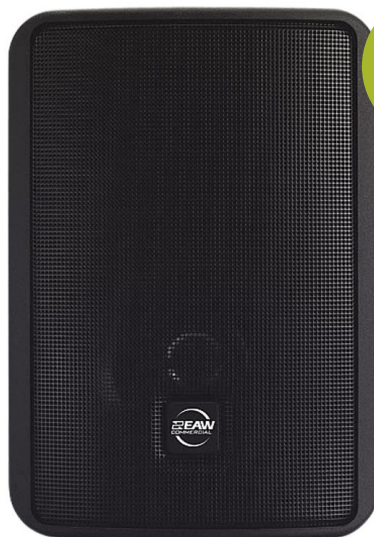
duty aluminum mounting bracket and angle strap, making it ready for tough environments including sports venues like hockey rinks and swimming pools, and entertainment venues like cruise ships, race tracks, and water parks.

Designed for the outdoor installation market, the “FX” finish of the **D.A.S. Audio WR-6412FX** protects the cabinets from the elements thanks to a fiberglass exterior and ISO-flex interior protection, augmenting their weather resistance when used in direct exposure situations. Stainless steel threaded rigging points and optional mounting hardware are also available. The WR-6412FX employs a single 12AV woofer for low frequency reproduction. A M-75 compression driver with 3in. titanium diaphragm attached to a 60-degree x 40-degree rotatable horn provides exceptional high frequency reproduction. The birch plywood cabinet construction offers an ultra-compact design, and is available in black or white.

Designed for outdoor use, the **Nocturne** projection screen from Draper is available in a motorized version (Nocturne Series E) or as a crank operated model (Nocturne Series C). Both are equipped with a weather resistant solid aluminum head box that includes an installation hinge. They ship in sizes from



**Draper
Nocturne**



EAW SMS3

65in. to 133in. diagonal with standard cable guides and a weighted dowel. Among the surfaces that can be specified are Matte White, Contrast Grey, ClearSound Perf, ClearSound White Weave, and ClearSound Grey Weave.

Compact design and several mounting options make the **EAW Commercial SMS3** (black) and SMS3W (white) compact two-way loudspeakers ideal for use in business music systems. The woofer is a high-excursion,

carbon fiber design. The mylar dome tweeter is mounted on a constant directivity horn to provide natural, smooth sound reproduction and high resistance to weather. Installation of the SMS3 is fast and efficient using the accompanying adjustable wall-mounting bracket. Four M6 threaded inserts add to the speaker’s flexibility. Connections are made to recessed color-coded, spring-loaded terminals. Wattage taps, voltage adjustments, and 4-ohm operation are selectable by means of two detented rotary switches. The enclosure is constructed of high density, scratch resistant polystyrene and includes a protective perforated steel grille and connection cover.

The **Electro-Voice EVID-P6.2** loudspeaker system is a complete two-way pendant loudspeaker. The package consists of a bezel assembly, magnetic grille, rear enclosure, 6.5-inch coax two-way loudspeaker and internal line-matching transformer. The loudspeaker features a titanium dome tweeter. It is UL1480A and CSA C22.2 certified for indoor installations and protected outdoor installations. The EVID-P6.2 loudspeaker utilizes a 2nd order crossover network with a comprehensive protection circuit to protect the network, woofer, and tweeter drivers from

Electro-Voice EVID P6.2



tooth and motion sensor options are available, and it has a standard VESA100 mounting pattern.

A two-way, high-output monitor speaker, the **JBL Control 31** features a highly outdoor-capable design with its included WeatherMax multi-layer grille, plus optional marine-kit grille for salt-air environments. The enclosure material features high impact polystyrene

(HIPS) with 10 percent glass fill plus patent-pending internal 5mm foamed polyurethane secondary mold for additional cabinet density. The grille is a zinc-plated and thermoset-composite coated steel, with WeatherMax multi-layer foam with a tight-weave mesh vapor barrier. The high-output 2414H-C compression driver has a 25mm exit, and a patented design and high-temperature polymer diaphragm. It



Holosonics Audio Spotlight AS-24i

excessive power levels. The EVID-P6.2 loudspeaker utilizes a transformer that offers a selection of 1.88 (70-V only), 3.75W, 7.5W, 15W or 30 watts delivered to the loudspeaker system using either 70-V or 100-V lines, or 8 ohm bypass. Selection is via a convenient switch on the front baffle, easily accessible by removing the magnetic grille.

The **Holosonics Audio Spotlight AS-24i** offers the strongest output and deepest low frequency response of all models. It is designed to compete with noisier environments or areas requiring more coverage, making it great for museums, trade shows, supermarkets, outdoor applications, and many retail environments. It easily replaces standard 2x2ft. ceiling tile with no additional hardware. It includes a built-in microSD player, and balanced and unbalanced audio inputs are standard. Blue-



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JBL Control 31



Leyard VersaLight Series



Martin Audio CSX118



Lowell OS-150-TB



MirageVision Platinum Series

offers extended bandwidth, extremely smooth frequency response, with 110 degree x 110 degree symmetrical coverage.

The **Leyard VersaLight Series** is a highly versatile family of LED video wall displays that can turn even the most challenging environments into dramatic, inspirational video walls. With pixel pitches ranging from 2.5 to 8 millimeters, this new modular line of indoor and outdoor LED digital signage displays offers stunning picture quality and ultra-reliable performance.

The **Lowell OS-150-TB** is a 150W indoor-outdoor loudspeaker made for applications requiring pattern control. The horn loaded compression driver controls high frequency dispersion for systems requiring longer throws or using live microphones. The enclosure is a weather-resistant, UV-resistant polypropylene that can be painted to suit the installation's needs. The grille is a weather and UV-resistant powder coated aluminum mesh grille in black. An adjustable, black, U-shaped bracket for horizontal or vertical installation allows the speaker to rotate 90 degrees, depending on install orientation.

The **Martin Audio CSX118** is a compact, high performance subwoofer that extends the low frequency operating range of the combined system to 35Hz. It features a long-

excursion 18in. /4in. voice coil driver with a water-resistant cone and triple roll surround in a compact reflex enclosure. The design of the 18in. driver maximizes output while minimizing power compression and distortion, and the four reflex ports have a large frontal area to reduce turbulent air noise at very high levels. The enclosure is constructed from high-density MDF, and its perforated steel grille is pre-curved to withstand physical damage.

The 55in. **Platinum Series** from **MirageVision** are equipped with a proprietary software-driven, internal video processor/scaler (MVVP), which enhances the TV's brightness, color, sharpness, contrast, image depth, and picture clarity, which provides the best possible picture image when used in outdoor direct sunlight viewing. The Platinum Series is



built

for outdoor

use: the cabinet has been

sealed; there are rear guard breath vents, moisture-resistant internal circuitry, and a water-resistant input cabinet; plus a UV sealer on the outside of the cabinet and enhanced backlight and contrast provide increased brightness/visibility outdoors. When combined with the company's Backyard Portable Outdoor TV Cart, it becomes a wireless, portable unit that allows for movement and multiple viewing options.

With pixel spacing options of 2.8mm, 3.9mm, 4.8mm, 6.2mm, and 7.8mm, **NEC S[quadrat] Q-Series** provides an optimum display resolution regardless of viewing distance. The S[quadrat] Q-Series outdoor dvLED is ideal for live event venues, DOOH, airports, and train and bus stations. Low power consumption and less heat dissipation make Q-Series an

environment-friendly option, and a high efficiency LED chip plus black mask provide a high contrast ratio.

Ideal for mass transit applications where sustainability and durability are key, PeerlessAV's fully sealed **Xtreme High Bright** display is equipped with a high TNI panel and 1500 nits minimum. The Xtreme High Bright display provides a bright, crisp picture, even in direct sunlight, while IPS panel technology provides color accuracy at every angle. The patented Dynamic Thermal Transfer system allows the display to operate in extreme temperatures ranging from -22 degrees

F to 122 degrees F. For mission-critical applications such as transportation settings where a disruption in content streaming is highly problematic, the Xtreme High Bright display offers remote monitoring and control features to access the health and wellness of the display from anywhere.

The **PixelFLEX FLEXStorm** is designed to withstand adverse weather conditions and provide a dependable outdoor LED display option. FLEXStorm can be used as outdoor advertising, entertainment, and more.

Displays can be updated from

anywhere with the click of a button using cloud-based content management. The IP-65 fully rated outdoor product is key to guaranteeing the longevity of an outdoor LED display billboard. FLEXStorm has brightness offerings between 6500-7500 Nits, providing variable brightness for any condition day or night. It is fully adjustable to the surrounding outdoor conditions via sensors that talk with the screens, control system, making sure the screen looks best at all times of the day. FLEXStorm utilizes data and power connections that are fully water tight, allowing for stable and reliable connections between each outdoor LED display cabinet.

The **Platinum Tools Waterproof RJ45 Coupler System** was designed for installs where ethernet connections need ruggedized protection due to exposure to water, dust, corrosion, harsh elements, and vibration. It is rated to IP67 to meet harsh environmental conditions commonly found in outdoor and indoor installs, such as wireless towers, security systems, outdoor entertainment venues, industrial manufacturing, LED lighting, emergency communications, marinas, and more. It works with RJ45 (8P8C) connectors, for UTP and STP applications.

The **PreSonus WorxAudio I/O-4** is a

Platinum Tools Waterproof RJ45 Coupler System





QSC AD-S12

small-format, high-performance sound-reinforcement system designed for indoor and outdoor applications where music and speech reinforcement are specified. Its small size and unique appearance make it deal for restaurants, retail environments, bars, hotels, and other applications where high-quality music systems are specified. A standard mounting bracket provides flexible aiming and easy installation. The versatile I/O-4 utilizes a dual-element array of high-output, 4-inch (101.6 mm) woofers. Its horn-loaded high-frequency waveguide is positioned between the two elements to ensure coherent and balanced high-frequency response.

The **TV Shield PRO Portrait Touch** from **Protective Enclosures Company** is a weatherproof digital signage solution designed for wayfinding, interactive movie theater posters, menu boards, and more. It is a weatherproof, secure outdoor touchscreen display and weatherproof TV enclosure that is made in the U.S.



Protective Enclosures Company TV Shield PRO Portrait Touch

Combining the company's TV Shield PRO Portrait enclosure and its IP-65 rated IR touch frame, the TV Shield PRO Portrait Touch can be used with any flatscreen TV, completely enclosing it to turn it into an indoor or outdoor interactive touch screen. Featuring tough metal housing that encases the screen and a high-strength, shatter-resistant, anti-glare polycarbonate front shield, this water-resistant interactive display solution eliminates the risk of having to replace an expensive outdoor touchscreen TV or interactive digital sign if the screen breaks.

The **QSC AD-S12** is a 12-inch weather



PreSonus WorxAudio I/O-4

treated woofer with a 1.4-inch compression driver and 75 degrees of conical DMT coverage, which ensures smooth, uniform frequency response over the coverage area. AD Series loudspeakers are qualified for outdoor use using demanding tests for salt fog and humidity, and have been tested to QSC internal temperature standards between -20 degrees and 50 degrees C. Additionally, the X-Mount system enables the loudspeaker to be easily installed and deployed at a variety of angles with no slippage over time

The **RCF P6215** is a weatherproof full range, wide-dispersion, coaxial two way loudspeaker system for high-output and long-throw applications. The high-frequency section is a constant directivity CMD horn loaded to a 1.3in. RCF Precision compression driver with a 2.5in. diaphragm assembly for smooth, wide dispersion. The low frequency transducer is a 15in. woofer with a 3in. voice coil. The cabinet is equipped with 12 M10 brass inserts, a stainless steel U-bracket and pair of spacers for 90-degree mounting. The cabinet is a single piece, rotational moulded in medium density polyethylene, fully UV protected, and is waterproof to IP 55 code.

The **Sonance Professional Series Surface-Mount speakers** feature Sonance's FastMount bracket and a front cable connection and tap selector to speed up the installation process and provide a clean appearance. The weather-



RCF P6215

resistant construction is IPX4, Mil Spec 810, and UV IEC 529, allowing them to be used in either indoor or outdoor applications. They are available in both black and white (paintable) in 4in., 5.25in., 6.5in., and 8in. 2-way and an 8in. woofer with UL 1480 and UL 2239 certification.

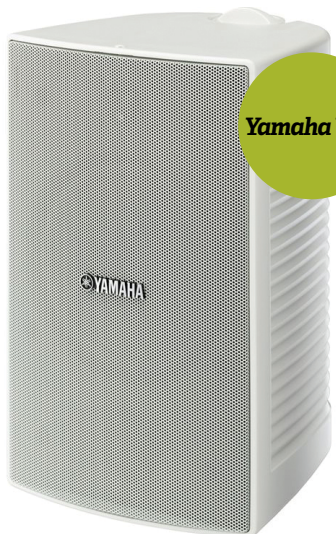
SunBriteTV Pro Series Model



The **SunBriteTV Pro Series Model** is designed for permanent outdoor installations, featuring EST Technology to guard against isotropic blackout and an ultra-bright 1,000- NIT panel that provides high readability in any lighting. The 32in. Pro Series model is durable, with its ruggedized, tempered glass shield to protect the LED screen and watertight cable entry systems. All Pro Series displays are equipped with a powder-coated aluminum exterior to protect against rust and prevent inclement weather conditions, including rain, snow, dust, salt corrosion, and insects from affecting internal electronics. SunBriteTV's Pro Series is designed to perform in temperatures from -40 degrees F up to 122 degrees F.

A blend of aesthetic simplicity and functional sophistication, the **Yamaha VS6** delivers high quality sound in a variety of indoor and outdoor settings. With a 6.5in. woofer, the VS6 features a 1in. balanced dome tweeter and is available in black or white. Its waterproof

Yamaha VS6



construction meets the IEC60529 IPX3 rating requirements for outdoor usage. Internally mounted transformers allow operation in 70V or 100V distributed sound systems, while a dedicated, color-matched steel U-bracket is enclosed for horizontal or vertical installation.

Sonance Professional Series Surface-Mount Speakers



MirageVision

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