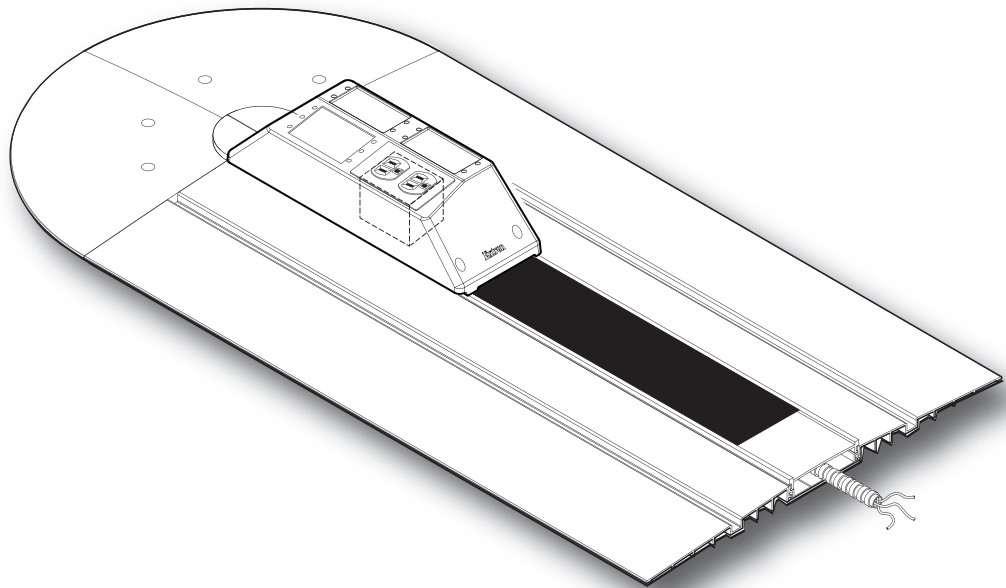


AVTrac®

Floor-mount Raceway with Modular AAP
Connectivity for A/V, Data, and Power



Extron® Electronics
INTERFACING, SWITCHING AND CONTROL

Precautions

Safety Instructions • English

- 

This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.
- 

This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product enclosure that may present a risk of electric shock.

Caution

- Read Instructions** • Read and understand all safety and operating instructions before using the equipment.
- Retain Instructions** • The safety instructions should be kept for future reference.
- Follow Warnings** • Follow all warnings and instructions marked on the equipment or in the user information.
- Avoid Attachments** • Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

Consignes de Sécurité • Français

- 

Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).
- 

Ce symbole sert à avertir l'utilisateur de la présence dans le boîtier de l'appareil de tensions dangereuses non isolées posant des risques d'électrocution.

Attention

- Lire les instructions** • Prendre connaissance de toutes les consignes de sécurité et d'exploitation avant d'utiliser le matériel.
- Conservser les instructions** • Ranger les consignes de sécurité afin de pouvoir les consulter à l'avenir.
- Respecter les avertissements** • Observer tous les avertissements et consignes marqués sur le matériel ou présentés dans la documentation utilisateur.
- Eviter les pièces de fixation** • Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

Sicherheitsanleitungen • Deutsch

- 

Dieses Symbol soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.
- 

Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können, herrschen.

Achtung

- Lesen der Anleitungen** • Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits- und Bedienungsanleitungen genau durchlesen und verstehen.
- Aufbewahren der Anleitungen** • Die Hinweise zur elektrischen Sicherheit des Produktes sollten Sie aufbewahren, damit Sie im Bedarfsfall darauf zurückgreifen können.
- Befolgen der Warnhinweise** • Befolgen Sie alle Warnhinweise und Anleitungen auf dem Gerät oder in der Benutzerdokumentation.
- Keine Zusatzgeräte** • Verwenden Sie keine Werkzeuge oder Zusatzgeräte, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefahrenquelle darstellen können.

Instrucciones de seguridad • Español

- 

Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (o cambio de partes) que se desean destacar en el contenido de la documentación suministrada con los equipos.
- 

Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.

Precaucion

- Leer las instrucciones** • Leer y analizar todas las instrucciones de operación y seguridad, antes de usar el equipo.
- Conservar las instrucciones** • Conservar las instrucciones de seguridad para futura consulta.
- Obedecer las advertencias** • Todas las advertencias e instrucciones marcadas en el equipo o en la documentación del usuario, deben ser obedecidas.
- Evitar el uso de accesorios** • No usar herramientas o accesorios que no sean específicamente recomendados por el fabricante, ya que podrían implicar riesgos.

安全须知 • 中文

- 

这个符号提示用户该设备用户手册中有重要的操作和维护说明。
- 

这个符号警告用户该设备机壳内有暴露的危险电压，有触电危险。

注意

- 阅读说明书** • 用户使用该设备前必须阅读并理解所有安全和使用说明。
- 保存说明书** • 用户应保存安全说明书以备将来使用。
- 遵守警告** • 用户应遵守产品和用户指南上的所有安全和操作说明。
- 避免追加** • 不要使用该产品厂商没有推荐的工具或追加设备，以避免危险。

Warning

- Power sources** • This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.
- Power disconnection** • To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).
- Power cord protection** • Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.
- Servicing** • Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.
- Slots and openings** • If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.
- Lithium battery** • There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the instructions of the manufacturer.

Avertissement

- Alimentations** • Ne faire fonctionner ce matériel qu'avec la source d'alimentation indiquée sur l'appareil. Ce matériel doit être utilisé avec une alimentation principale comportant un fil de terre (neutre). Le troisième contact (de mise à la terre) constitue un dispositif de sécurité : n'essayez pas de la contourner ni de la désactiver.
- Déconnexion de l'alimentation** • Pour mettre le matériel hors tension sans danger, déconnectez tous les cordons d'alimentation de l'arrière de l'appareil ou du module d'alimentation de bureau (s'il est amovible) ou encore de la prise secteur.
- Protection du cordon d'alimentation** • Acheminer les cordons d'alimentation de manière à ce que personne ne risque de marcher dessus et à ce qu'ils ne soient pas écrasés ou pincés par des objets.
- Réparation-maintenance** • Faire exécuter toutes les interventions de réparation-maintenance par un technicien qualifié. Aucun des éléments internes ne peut être réparé par l'utilisateur. Afin d'éviter tout danger d'électrocution, l'utilisateur ne doit pas essayer de procéder lui-même à ces opérations car l'ouverture ou le retrait des couvercles risquent de l'exposer à de hautes tensions et autres dangers.
- Fentes et orifices** • Si le boîtier de l'appareil comporte des fentes ou des orifices, ceux-ci servent à empêcher les composants internes sensibles de surchauffer. Ces ouvertures ne doivent jamais être bloquées par des objets.
- Lithium Batterie** • Il a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un ype équivalent recommandé par le constructeur. Mettre au reut les batteries usagées conformément aux instructions du fabricant.

Vorsicht

- Stromquellen** • Dieses Gerät sollte nur über die auf dem Produkt angegebene Stromquelle betrieben werden. Dieses Gerät wurde für eine Verwendung mit einer Hauptstromleitung mit einem geerdeten (neutralen) Leiter konzipiert. Der dritte Kontakt ist für einen Erdschluß, und stellt eine Sicherheitsfunktion dar. Diese sollte nicht umgangen oder außer Betrieb gesetzt werden.
- Stromunterbrechung** • Um das Gerät auf sichere Weise vom Netz zu trennen, sollten Sie alle Netzkabel aus der Rückseite des Gerätes, aus der externen Stromversorgung (falls dies möglich ist) oder aus der Wandsteckdose ziehen.
- Schutz des Netzkabels** • Netzkabel sollten stets so verlegt werden, daß sie nicht im Weg liegen und niemand darauf treten kann oder Objekte darauf- oder unmittelbar dagegengestellt werden können.
- Wartung** • Alle Wartungsmaßnahmen sollten nur von qualifiziertem Servicepersonal durchgeführt werden. Die internen Komponenten des Gerätes sind wartungsfrei. Zur Vermeidung eines elektrischen Schocks versuchen Sie in keinem Fall, dieses Gerät selbst öffnen, da beim Entfernen der Abdeckungen die Gefahr eines elektrischen Schlags und/oder andere Gefahren bestehen.
- Schlitze und Öffnungen** • Wenn das Gerät Schlitze oder Löcher im Gehäuse aufweist, dienen diese zur Vermeidung einer Überhitzung der empfindlichen Teile im Inneren. Diese Öffnungen dürfen niemals von anderen Objekten blockiert werden.
- Litium-Batterie** • Explosionsgefahr, falls die Batterie nicht richtig ersetzt wird. Ersetzen Sie verbrauchte Batterien nur durch den gleichen oder einen vergleichbaren Batterietyp, der auch vom Hersteller empfohlen wird. Entsorgen Sie verbrauchte Batterien bitte gemäß den Herstelleranweisungen.

Advertencia

- Alimentación eléctrica** • Este equipo debe conectarse únicamente a la fuente/tipo de alimentación eléctrica indicada en el mismo. La alimentación eléctrica de este equipo debe provenir de un sistema de distribución general con conductor neutro a tierra. La tercera pata (puesta a tierra) es una medida de seguridad, no puentearia ni eliminaria.
- Desconexión de alimentación eléctrica** • Para desconectar con seguridad la acometida de alimentación eléctrica al equipo, desenchufar todos los cables de alimentación en el panel trasero del equipo, o desenchufar el módulo de alimentación (si fuera independiente), o desenchufar el cable del receptáculo de la pared.
- Protección del cables de alimentación** • Los cables de alimentación eléctrica se deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos.
- Reparaciones/mantenimiento** • Solicitar siempre los servicios técnicos de personal calificado. En el interior no hay partes a las que el usuario deba acceder. Para evitar riesgo de electrocución, no intentar personalmente la reparación/mantenimiento de este equipo, ya que al abrir o extraer las tapas puede quedar expuesto a voltajes peligrosos u otros riesgos.
- Ranuras y aberturas** • Si el equipo posee ranuras o orificios en su caja/alojamiento, es para evitar el sobrecalentamiento de componentes internos sensibles. Estas aberturas nunca se deben obstruir con otros objetos.
- Batería de litio** • Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Desachar las baterías usadas siguiendo las instrucciones del fabricante.

警告

- 电源** • 该设备只能使用产品上标明的电源。设备必须使用有地线的供电系统供电。 第三条线（地线）是安全设施，不能不用或跳过。
- 拔掉电源** • 为安全地从设备拔掉电源，请拔掉所有设备后或桌面电源的电源线，或任何接到市电系统的电源线。
- 电源线保护** • 妥善布线，避免被踩踏，或重物挤压。
- 维护** • 所有维修必须由认证的维修人员进行。设备内部没有用户可以更换的零件。为避免出现触电危险不要自己试图打开设备盖子维修该设备。
- 通风孔** • 有些设备机壳上有通风槽或孔，它们是用来防止机内敏感元件过热。 不要用任何东西挡住通风孔。
- 锂电池** • 不正确的更换电池会有爆炸的危险。必须使用与厂家推荐的相同或相近型号的电池。按照生产厂的建议处理废弃电池。

FCC Class A Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

The Class A limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the user guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

NOTE: This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to ensure compliance with FCC emissions limits.
For more information on safety guidelines, regulatory compliances, EMI/EMF compliance, accessibility, and related topics, [click here](#).

Notational Conventions Used in this Guide

TIP: A tip provides a suggestion to make setting up or working with the device easier.

NOTE: A note draws attention to important information.

CAUTION: A caution warns of things or actions that might damage the equipment.

WARNING: A warning warns of things or actions that might cause injury, death, or other severe consequences.

Copyright

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Trademarks

All trademarks mentioned in this guide are the properties of their respective owners.

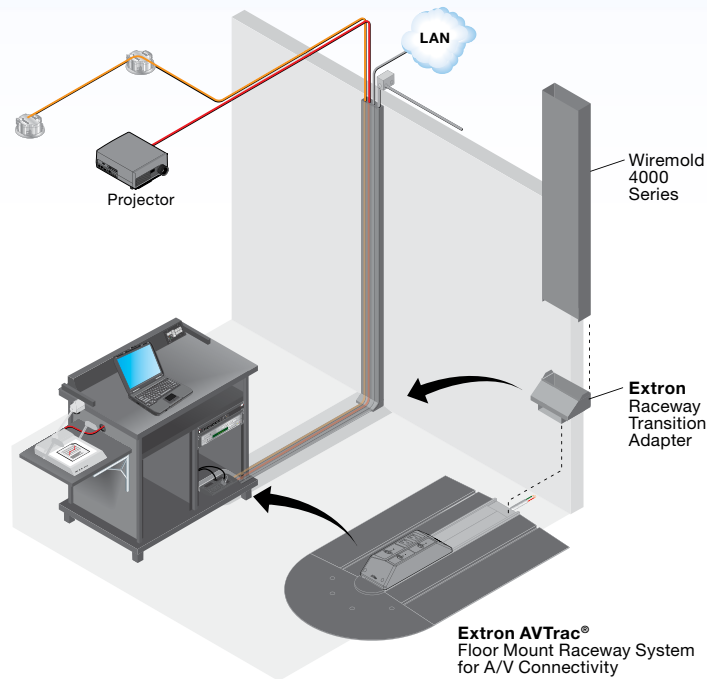
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Introduction

Overview

This guide describes the AVTrac® components and provides instructions for installation.



AVTrac Floor System

Low-profile Raceway System

AVTrac is a low-profile raceway system designed to safely and discretely run power, data, and A/V cables from a wall to a table, podium, or other furniture. The raceway system mounts directly onto the concrete floor and underneath the carpet.

AAP Compatible Connectivity Box

The modular enclosure supports up to ten single-space Extron® Architectural Adapter Plates (AAPs) with hundreds of connection options creating a fully customizable connectivity solution.

Models with the AC module accommodate up to seven single-space AAPs. (AAPs are sold separately.)

Multiple Accessories

The AVTrac system has a wide variety of accessories that provide adaptability and versatility to handle most installation requirements.

ADA Compliant

The slope and rise of the side and end ramps comply with the Americans with Disabilities Act Standards for Accessible Design (Title III, Regulation 28 CFR Part 36: ADA Standards for Accessible Design; Section 4.8: Ramps.)

Choice of Finishes

The AVTrac 482C accommodates commercial grade carpet inlay 1/4 inch to 5/16 inch (0.6 to 0.8 cm) thickness in the aluminum raceway cover track.

The AVTrac 482R accommodates the included black rubber strip inlay as its top finish.

Kit Contents

Box 1

The AVTrac Kit is shipped in three boxes.

- **Box 1** contains the connectivity, conduit and accessory components.
- **Boxes 2** and **3** contain the track and ramp components.

Check the contents of each box to ensure all items are present.

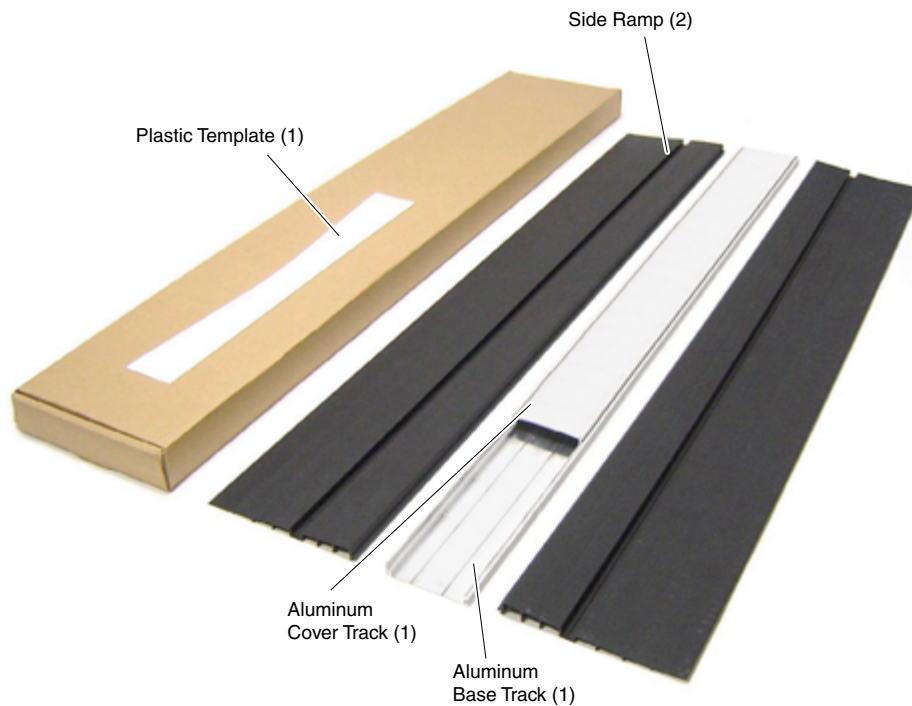


Checklist for contents of box 1

- ☐ Connectivity box (1) with 6/32 inch nut (1) to secure AC power module
- ☐ AC power module (1) prewired with 24 feet (7.32 m) oval flex conduit
- ☐ 9.35 inches (23.7 cm) quarter-circle end ramps (2)
- ☐ Cover AAP plate for AC power module (1)
- ☐ Double-sided adhesive tape (1 roll of 15 feet) for rubber inlay strip
- ☐ 3/16 inch masonry screws (20)
- ☐ 5/32 inch masonry drill bit (1)
- ☐ Installation guide (1)
- ☐ 8 feet (2.44 m) rubber strip (1) — model number **42-156-24A** only

Boxes 2 and 3

Check the contents of each box to ensure all items are present.



Checklist for contents of box 2

- ☐ 4 feet (1.22 m) aluminum base track (1)
- ☐ 3 feet (0.91 m) aluminum cover track (1)
- ☐ 4 feet (1.22 m) side ramps (2)

Checklist for contents of box 3

- ☐ 4 feet (1.22 m) aluminum base track (1)
- ☐ 4 feet (1.22 m) aluminum cover track (1)
- ☐ 4 feet (1.22 m) side ramps (2)
- ☐ Plastic wall base trim template (1)

Before Getting Started

Planning

AVTrac can be installed before new carpeting is fitted or retrofitted under preexisting carpet. It can also be installed in new construction before the drywall and carpeting is in place. Retrofitting the track in a space with existing carpeting and furniture requires some extra preparation to remove the carpet and prepare the floor for laying the track.

Before installing the AVTrac, determine whether the installation will be in new construction, under preexisting carpet tiles or under preexisting carpet rolls, and follow the appropriate installation instructions (see page 7). Read and follow all instructions carefully.

NOTE: All structural steps and electrical installation should be performed by qualified personnel in accordance with local and national building codes and local and national electrical codes.

Floor Considerations

AVTrac is designed to be installed only underneath commercial grade carpeting 1/4 inch to 5/16 inch (0.6 to 0.8 cm) in thickness. It can be installed under new or preexisting carpet tile or carpet roll.

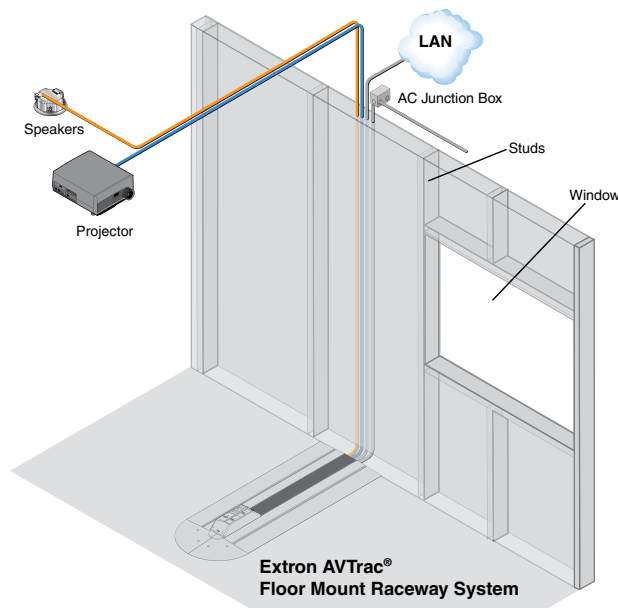
AVTrac is not designed to be installed under vinyl composite tile (VCT).

To install AVTrac over most types of flooring, consult the “AVTrac Above Floor Installation Solution,” which is available on the [Extron website](#).

In-Wall Cable Routing Considerations

Locate a convenient junction box in the wall or ceiling for power. The AC power module is rated at 20 A, maximum, and no fuse is used on the box. Extron recommends that the AC conduit be connected to a junction box that is wired directly to a 20 A main circuit.

Cables should be run in walls that have drywall cavities. The wall should be free of windows, studs, pipes, or other obstructions that could hinder cable runs (see the figure below).



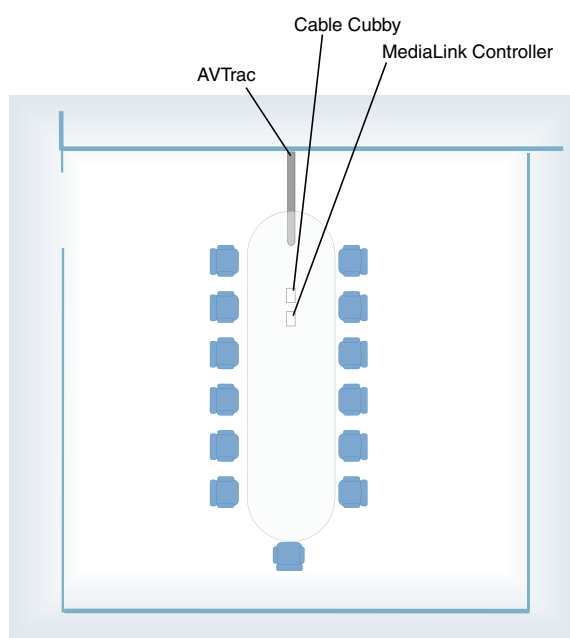
Room Considerations

Determine the AV requirements for the room. Extron provides a complete range of AAPs that can be purchased separately to provide fully customizable central connectivity.

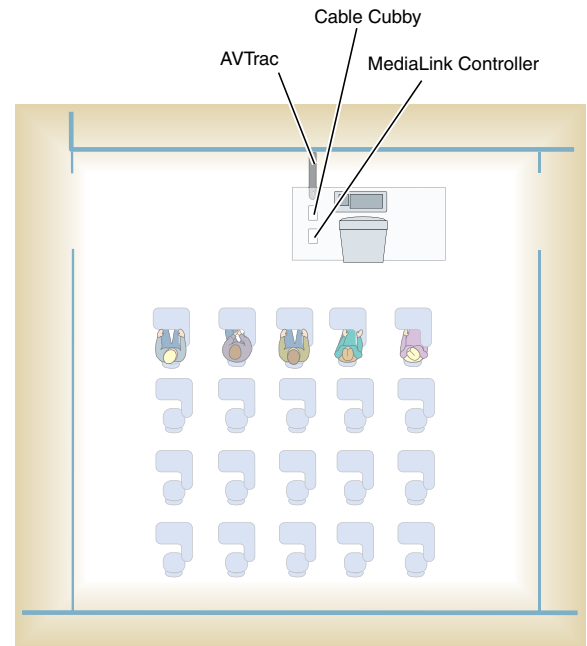
Select the best configuration for existing furniture, equipment, cables and the AVTrac. It may help to mark the position of the track using a marker pen or tape.

The connectivity box must be positioned under a podium or table to avoid creating a tripping hazard. AVTrac can be cut to meet the needs of the room. (For further details, [see step 4](#) on page 9.)

Optional track component extension kits are also available.



Conference Room



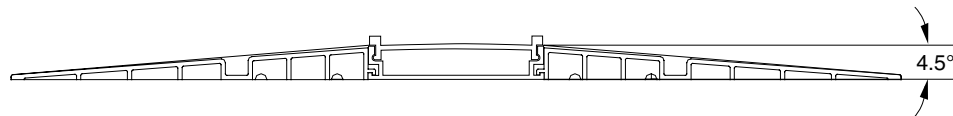
Classroom

ADA Compliance

The maximum slope of the AVTrac is 4.5°, which fully complies with ADA requirements. Refer to “Title III, Regulation 28 Code of Federal Regulations (CFR) Part 36: ADA Standards for Accessible Design; Section 4.8: Ramps” for full details.

Ramps Requirement

The maximum slope of a ramp shall be 1:12 ratio (1 inch rise for each 12 inches run, approximately 4.8°).



The AVTrac maximum slope is 4.5°, which meets ADA requirements.

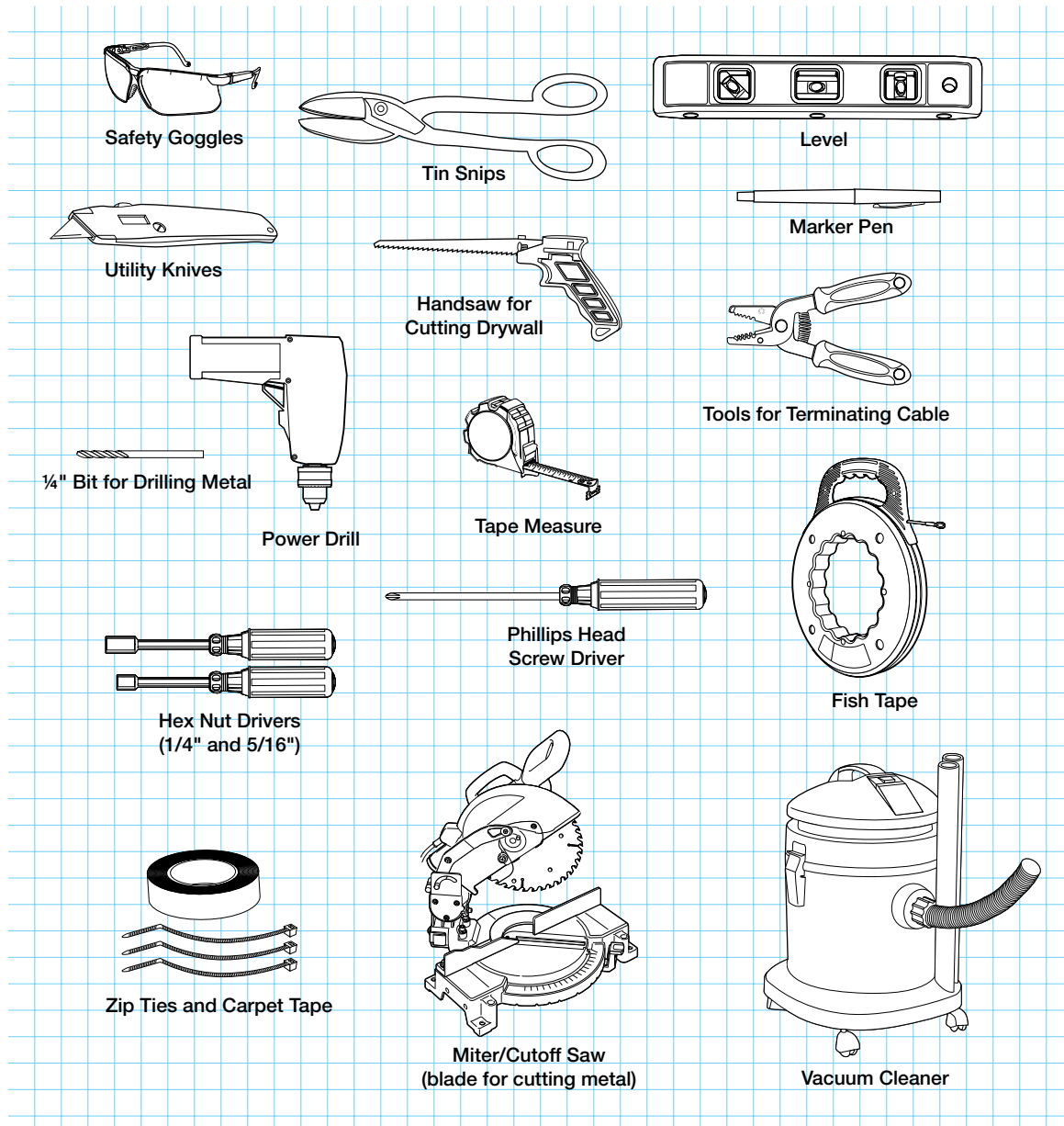
Tools and Equipment Required Before Installation

Almost everything you need to install your AVTrac system has been included. You will need some basic tools and materials depending on the facility and requirements.

Visit www.extron.com for a full range of cables and components for populating the connectivity box.

NOTE: All structural steps and electrical installation should be performed by qualified personnel in accordance with local and national building codes and local and national electrical codes.

Extron recommends the following equipment (not provided) to ensure the AVTrac is properly installed:



Installation

Step 1: Track

By this point you must have decided exactly where the AVTrac will be installed, checked the contents of the kit, and gathered the tools that you will need.

Extron recommends consulting a carpeting expert before removing the carpet.

1. Determine whether the installation will be in new construction, under preexisting carpet tiles or under preexisting carpet rolls, and follow the appropriate instructions.

When installing AVTrac under preexisting carpet, if possible, completely remove the carpet from where the track will be laid. If this is not possible, the carpet must be cut. After removing the carpet, make sure that the concrete base is level and structurally sound. Prior to installation, leveling and topping may be needed.

New Construction

When AVTrac is being placed in a new building, the carpet should not be laid until the track has been installed.

Prelaid Carpet Tiles

For installation of AVTrac under prelaid carpet tiles, peel back the carpet to expose the concrete where the track and side ramps will be positioned (as shown in the figure at right).

Prelaid Carpet Rolls — Peel back Carpet

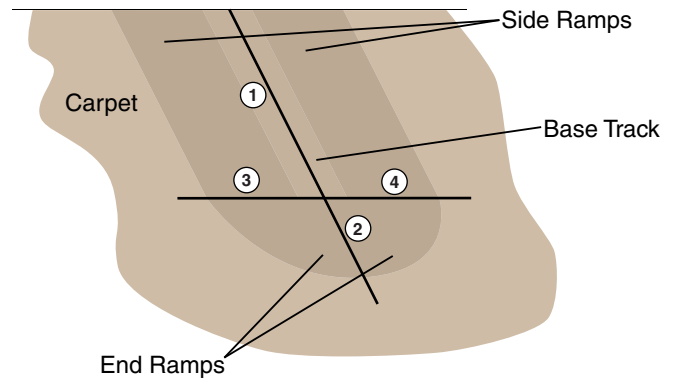
If AVTrac is being installed in a room that is already fitted with carpet rolls, the ideal solution is to peel back the entire carpet roll(s) covering the area where the track will run.



Prelaid Carpet Rolls — Cut Carpet

When the positioning of preinstalled furniture makes it impossible to remove existing carpet, the carpet must be cut (see the figure at right).

- a. Use tape to mark where the track and ramps will be positioned and make one straight cut (①) in the middle of where the base track will run (see the figure to the right). This cut must be the same length as the base track.
- b. Make three shorter cuts (②, ③, and ④) corresponding to, but extending about 4 inches (10.2 cm) past the edges of the end ramps. These cuts must be clean because the carpet needs to be seamed after the AVTrac has been installed.
- c. Pull the carpet back to expose the floor where the base track, the side ramps and the end ramps will be secured.



NOTE: AVTrac is not designed to be installed under vinyl composite tile (VCT).

2. If necessary, remove the baseboard from the bottom of the wall and mark where the AVTrac will meet the wall.



3. Using a drill and box cutters or a saw, cut a hole at the base of the wall 4 inches wide by 1½ inches high (10.1 cm x 3.8 cm).

If there is a metal base stud, use a hand saw or tin snips to cut it at both edges of the hole and bend it back into the hole so that the stud lies flat on the floor. Use a file to remove any jagged edges that might damage cables.

The hole will eventually be covered by the baseboard, so it does not have to be perfect.



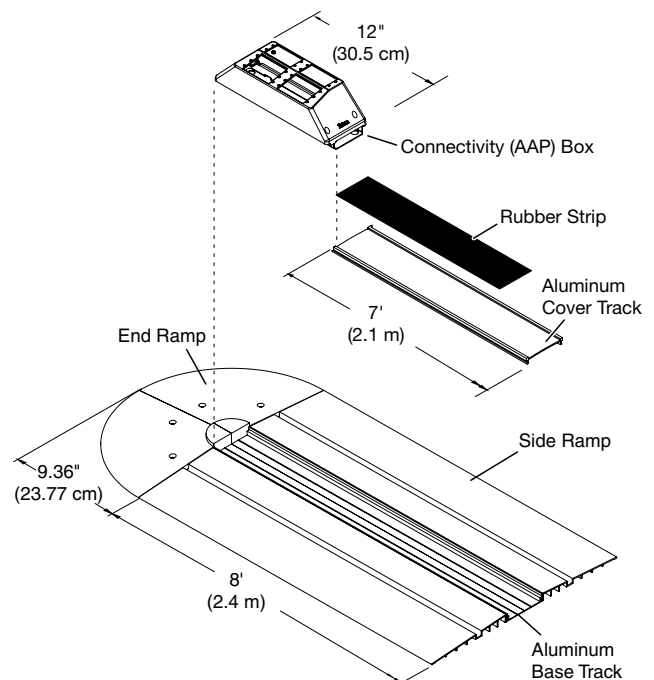
4. Measure and cut the track pieces to the desired length. The track should run up to but not enter the hole in the wall.

WARNING: Always wear safety goggles when using power equipment.



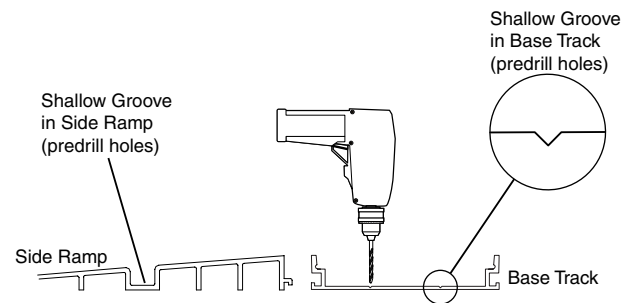
If the track is to be cut, the base track must be 12 inches (30.48 cm) longer than the cover track. This is the length of the connectivity box, which sits on the base track but not on the cover track (see the figure at right).

The end ramps add an additional 9.36 inches (23.8 cm) to the total length of the installed track.

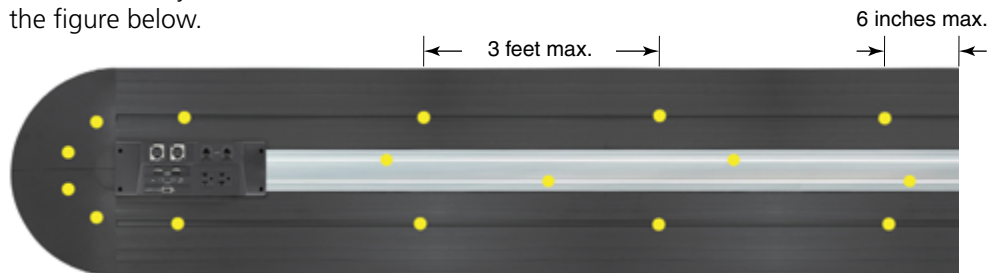


5. Drill mounting holes in the shallow grooves of the base track and side ramps using a 1/4 inch bit for drilling metal (not supplied).

NOTE: Mounting holes must be a maximum of 3 feet (91 cm) apart and one must be within 6 inches (15.2 cm) of each end of the track.



To ensure that all components are securely attached to the floor, Extron recommends that the predrilled holes should closely follow the pattern shown in the figure below.

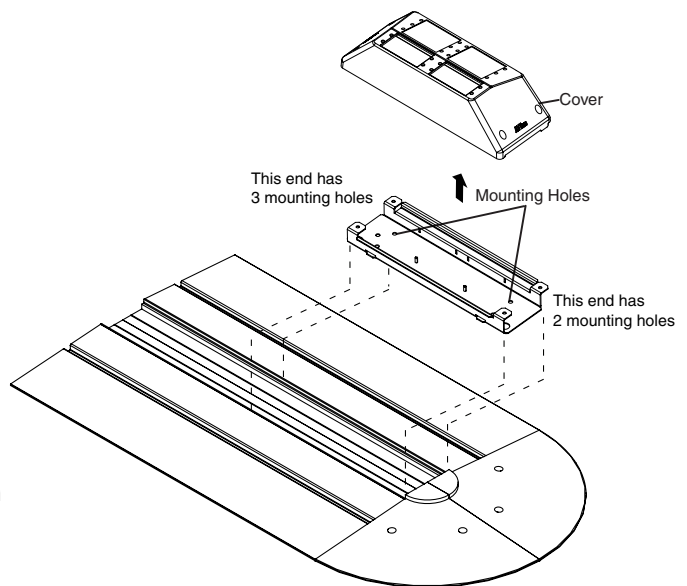


6. Remove the cover panel from the connectivity box.

Examine the bottom of the connectivity box: one end has two mounting holes (one in each corner), the other end has three mounting holes (one in each corner and one in the center). The end with three holes faces toward the track.

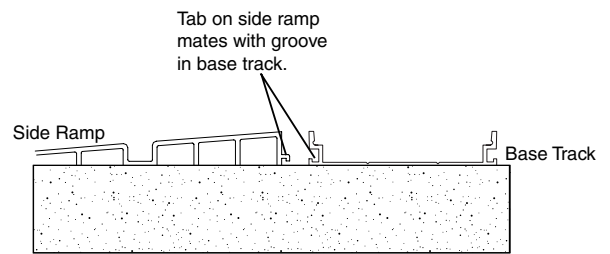
Align the end of the box with two mounting holes with the end of the base track. Mark where the mounting holes in the bottom of the box lie over the base track.

Using a 1/4 inch bit for drilling metal (not supplied), drill at least three mounting holes in the base track to secure the connectivity box to the floor.

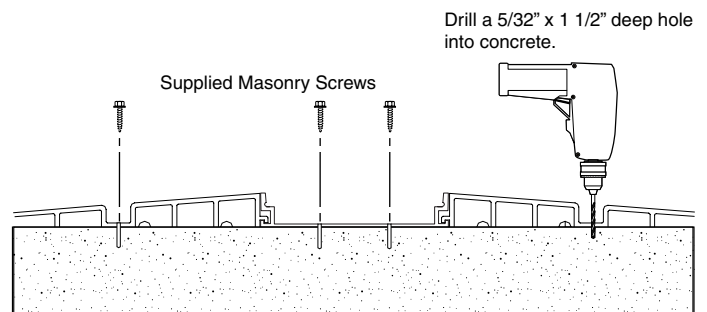


7. Lay the base track on the floor in the prepared location.

Mate the tabs in the side ramps with the grooves in the base track, and place the end ramps in position at the end of the track furthest from the wall.



8. Using the provided masonry bit, drill 5/32 inch diameter by 1 1/2 inch deep pilot holes into the concrete through the predrilled mounting holes in the track and ramps.



9. Secure the track and ramps to the floor with the provided masonry screws.

NOTE: Do not use the holes that were drilled to secure the connectivity box in sub-step 6 of this section.



Step 2: Connectivity Box

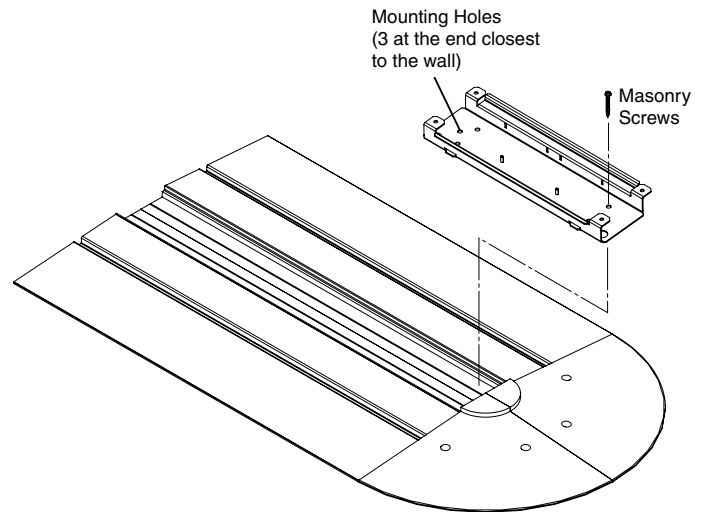
By this point, the base track, side ramps and end ramps must be securely fastened to the floor.

To attach the connectivity box to the base track, follow these instructions:

1. Reposition the base of the connectivity box, in the correct orientation, over the predrilled holes in the base track (see sub-step 6 in "Step 1: Track").

The end of the connectivity box that has three mounting holes faces back towards the wall.

2. Using at least three of the provided 3/16 inch masonry screws, secure the box to the track and floor.
3. Remove all dust with a vacuum cleaner.



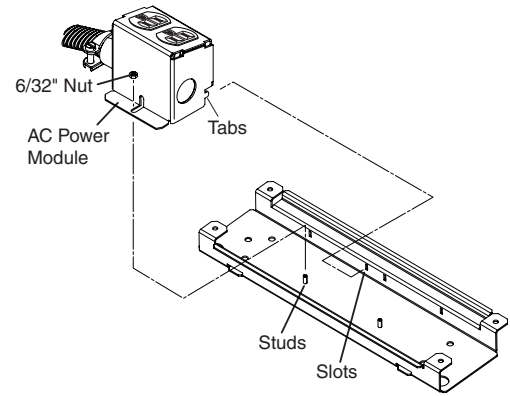
Step 3: AC Power Module

By this point, the base of the connectivity box must be securely fastened to the floor.

If your AVTrac system does not include the AC power module, ignore this section.

To attach the AC power module, follow these instructions:

1. The AC power module must be positioned under the triple AAP socket that is closest to the track.
 - a. Slide the power module side tabs into the slots on the side of the connectivity box.
 - b. Seat the power module on the stud in the connectivity box.
 - c. Secure the module to the stud on the connectivity box by hand tightening the provided 6/32 inch nut.

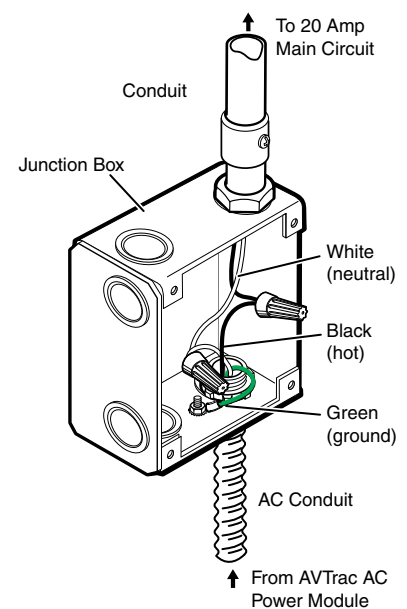


2. Run the unattached end of the AC conduit through the wall cutout and connect it to a junction box inside the wall or ceiling.

Extron recommends the circuit be attached to a junction box that is directly wired to the main circuit. The AC power module does not have a fuse and is rated at 20 A, maximum.

WARNING: Switch off all electrical power before connecting the AC conduit to a junction box, and keep power off until installation is complete.

CAUTION: All electrical installation should be performed by qualified personnel in accordance with local and national electrical codes.



Step 4: Architectural Adapter Plates (AAPs)

At this point, the track, ramps and connectivity box must all be securely in place. If an AC power module is required, it must be attached to the connectivity box and connected to an AC junction box. Do not turn on the power at this time.

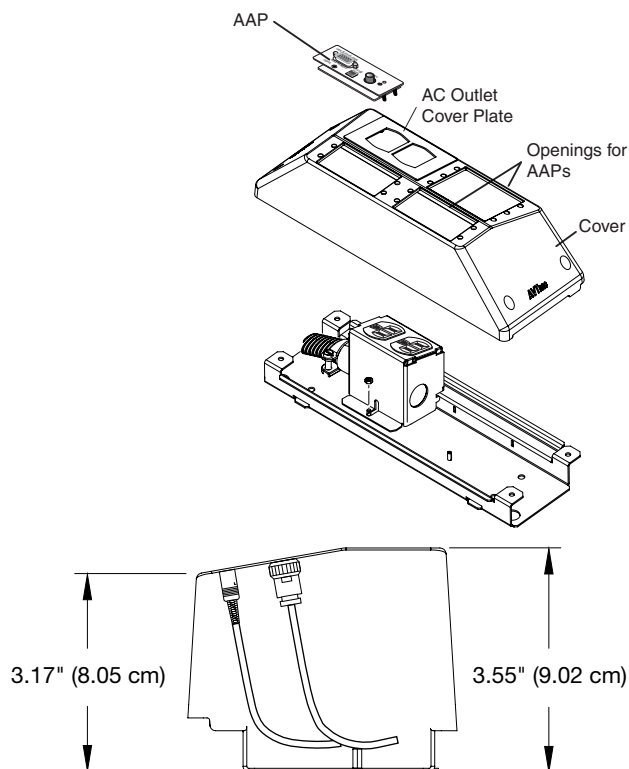
To attach the Architectural Adapter Plates (AAPs), follow these instructions:

1. Fill the remaining AAP slots in the cover of the connectivity box with seven spaces of AAPs.

In models without the AC power module, fill all ten spaces of AAPs.

NOTE: Extron AAPs must be purchased separately.

NOTE: To prevent bending of cables, place the AAP with the greatest depth requirement (including cables) in the AAP slot closest to the center ridge of the connectivity box

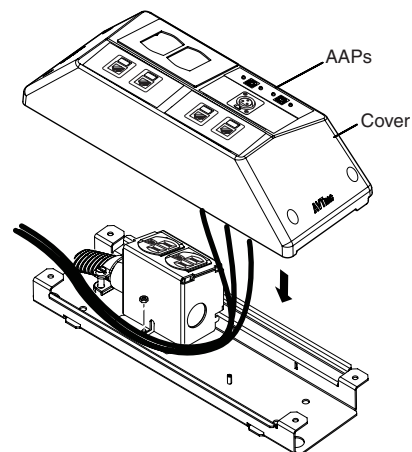


2. Run the cables from the wall to the connectivity box.

Attach the cables to the AAPs as described in the installation guide for each AAP module.



3. Reattach the cover panel.



Step 5: Completing the Installation

At this point, the track and connectivity box must be secured to the floor, the electrical power must be connected, and the AAP sockets must be populated.

To complete the installation of the AVTrac, follow these instructions:

1. Lay the cables and power cords flat against the base track. If necessary, feed excess cable back into the wall.



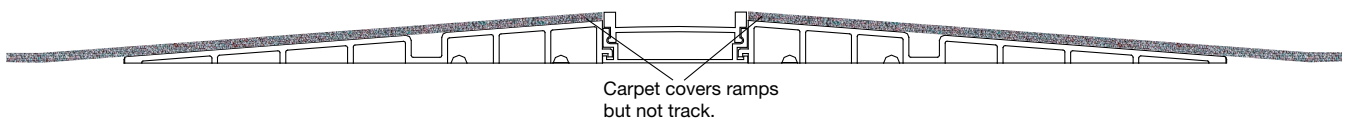
2. Snap the cover track onto the base track.



3. Before cutting and gluing carpet, remove all dust and debris with a vacuum cleaner.

Cut the carpet or carpet tiles so that it runs up to but does not cover the aluminum track (see the diagram below).

NOTE: Cut the carpet to meet the edge of the cover track. Do not align the cuts to the edge of the ramps because this will leave a gap between the end of the carpet and the cover track.

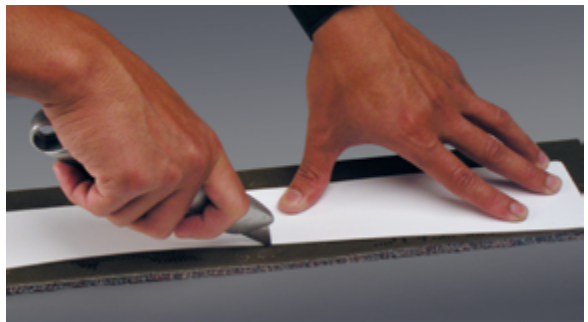


4. Glue or tape the carpet to the floor and side ramps.

NOTE: Do not use the supplied tape to attach the carpet to the ramp. The tape is intended only for attaching the rubber inlay strip to the cover track.



5. Using the provided template, trim the wall baseboard to fit snugly around the track.

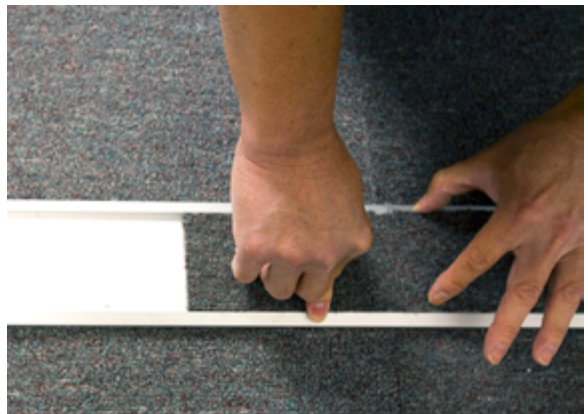


6. Attach the baseboard to the wall.



7. For model part number **42-156-24A**, attach the provided rubber strip to the cover track raceway using double-sided adhesive tape (provided).

For model part number **42-155-24A**, cut a strip of the finished carpeting and glue it to the cover track raceway.



The figure below shows a completed AVTrac installation, which safely and discretely runs power, data, and A/V cables from a wall to a table, podium, or other furniture.

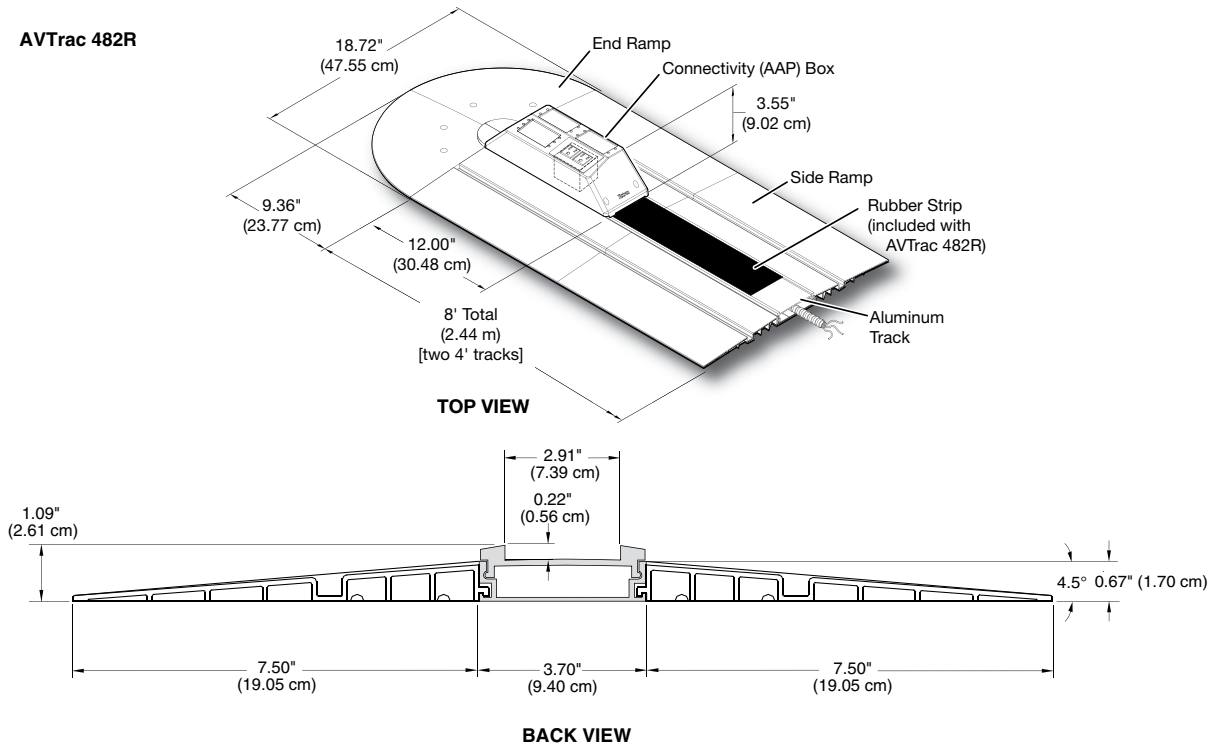


Specifications

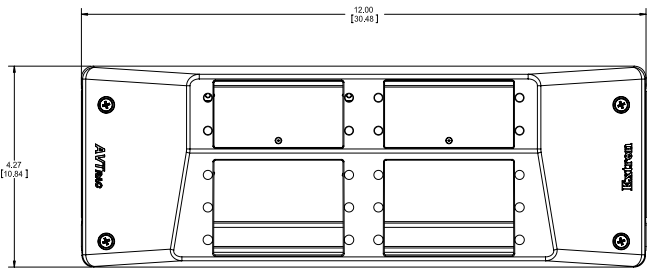
General

Power	125 VAC, 50-60 Hz, 20 A (max.)
Mounting options	
Track system (track and ramps)	Mountable onto base flooring, beneath finished carpeting
Connectivity box.....	Mountable through the metal track, onto base flooring
Optional AAP plates/devices.....	Mountable in the two double-space and two triple-space Architectural Adapter Plate (AAP) openings in the connectivity box
Enclosure type	Track base and top: metal
	Connectivity box: plastic cover, metal base
	Ramps: plastic
Enclosure dimensions: see diagrams below	
Track system	
End ramps	0.67" (1.7 cm) H x 9.36" (23.8 cm) radius, approximately 4.5° slope
Side ramps.....	0.67" (1.7 cm) H x 7.50" (19.0 cm) W on either side of track x [two 48.0" (121.9 cm) sections, total 96.0" (243.8 cm)] L, approximately 4.5° slope
Track base and top.....	1.03" H x 3.70" W x (two 48.0" sections, total: 96.0") L (2.6 cm H x 9.4 cm W x [two 121.9 cm sections, total: 243.8 cm] L)

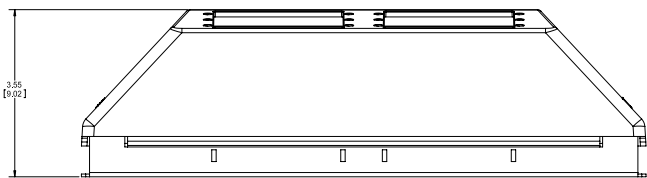
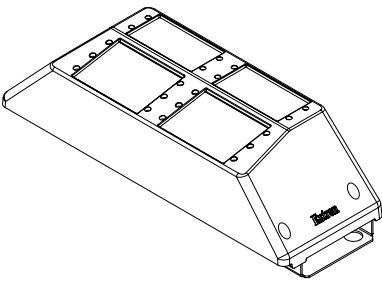
AVTrac 482R



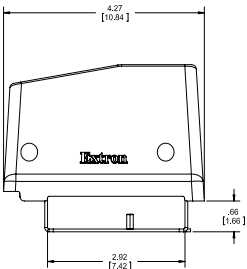
Connectivity box..... 3.55" H x 4.27" W x 12.0" L (9.0 cm H x 10.8 cm W x 30.5 cm L)



TOP VIEW



SIDE VIEW



END VIEW

Product weight

- Parts in package 1 of 3 14.9 lbs (6.7 kg)
- Parts in package 2 of 3 8.9 lbs (4.0 kg)
- Parts in package 3 of 3 8.9 lbs (4.0 kg)

Shipping weight

- Parts in package 1 of 3 20 lbs (10 kg)
- Parts in package 2 of 3 11 lbs (5 kg)
- Parts in package 3 of 3 11 lbs (5 kg)

Vibration..... ISTA 1A in carton (International Safe Transit Association)

Regulatory compliance

- Safety c-UL, UL
- Accessibility Title III, Regulation 28 CFR Part 36: ADA Standards for Accessible Design; Section 4.8: Ramps

Warranty..... 3 years parts and labor

NOTES: All nominal levels are at $\pm 10\%$.
Specifications are subject to change without notice.

Reference Information

Optional Accessories

AVTrac Accessories

Accessory	Part Number
AVTrac 4 feet Track Extension Kit	70-645-04
Connectivity Box (AAP Enclosure)	70-801-02
AC Power Modules (US) Prewired Conduit	70-799-08
AC Power Modules (Four US Outlets) Prewired Conduit	70-799-09
AC Power Modules (Central Europe) Isolated Cable	70-799-03
AC Power Modules (France) Isolated Cable	70-799-04
AC Power Modules (Australia) Conduit only	70-799-05
AC Power Modules (Universal Outlet) Isolated Cable	70-799-06
AC Power Modules (Universal Outlet) Conduit only	70-799-07
Rubber Inlay Kit - 8 feet (2.4 m)	70-670-01
Extra Channel Kit	70-671-01
Rough-in Adapter	70-781-01
Wall Trim Plate	70-782-01
Raceway Transition Adapter (Wiremold)	70-783-01
Raceway Transition Adapter (EU Channel)	70-783-11
Retrofit Transition Adapter	70-679-22
Cable Pass-through kit	70-714-02

Audio-Visual AAPs

Accessory	Part Number
Extender — VGA-QXGA Line Driver with Audio	70-147-12
PVT CV — Composite Video and Stereo Audio Twisted Pair Transmitter	70-579-12
PVT RGB — RGB Video and Stereo Audio Twisted Pair Transmitter	70-580-12
VGA Female to 5 BNC pigtail and 3.5 mm Barrel	70-551-71
RJ-11 Terminal Post and RJ-45 Female to Female Barrel	70-100-12
Two USB A Female to two USB B Female on 10 inch pigtail	70-382-12
One HDMI Female to one HDMI Female on 10 inch pigtail	70-616-12
Two RCA Female to Captive Screw Terminal — audio; one RCA Female to Female Barrel — video; one S-Video Female to Female Barrel	70-330-11

Please consult the Extron website (www.extron.com) or catalog for a complete description of each item.

Extron® Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

**USA, Canada, South America,
and Central America:**

Extron Electronics
1001 East Ball Road
Anaheim, CA 92805
U.S.A.

Japan:

Extron Electronics, Japan
Kyodo Building, 16 Ichibancho
Chiyoda-ku, Tokyo 102-0082
Japan

Europe, Africa, and the Middle East:

Extron Europe
Hanzeboulevard 10
3825 PH Amersfoort
The Netherlands

China:

Extron China
686 Ronghua Road
Songjiang District
Shanghai 201611
China

Asia:

Extron Asia
135 Joo Seng Road, #04-01
PM Industrial Bldg.
Singapore 368363
Singapore

Middle East:

Extron Middle East
Dubai Airport Free Zone
F12, PO Box 293666
United Arab Emirates, Dubai

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions, or modifications were made to the product that were not authorized by Extron.

NOTE: If a product is defective, please call Extron and ask for an Application Engineer to receive an RA (Return Authorization) number. This will begin the repair process.

USA: (714) 491-1500
Asia: 65.6383.4400

Europe: 31.33.453.4040
Japan: 381.3.3511.7655

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.

Installation Checklist

Installation of the AVTrac can be divided into six main sections:

Before Getting Started

- ☐ Open the three boxes containing the AVTrac kit and identify all the items provided ([pages 2 and 3](#)).
- ☐ Decide where the Track will be placed ([pages 4 and 5](#)) and, if necessary, prepare the site.
- ☐ Gather any additional tools needed for the installation ([page 6](#)).

Step 1 — Install Track

- ☐ Remove the existing carpeting ([pages 7 and 8](#)).
- ☐ Cut a hole for cables in the drywall ([page 9](#)).
- ☐ Measure and cut the track pieces ([pages 9 and 10](#)).
- ☐ Secure the track to the floor ([pages 10 and 11](#)).

Step 2 — Install Connectivity Box

- ☐ Remove the top cover from the connectivity box and place the base on the track ([pages 10 through 12](#)).
- ☐ Secure the connectivity box to the track and floor ([page 12](#)).

Step 3 — Install AC Power Module (if needed)

- ☐ Seat and secure the power module in the connectivity box ([page 13](#)).
- ☐ Run the AC conduit and connect to the junction box ([page 13](#)).

Step 4 — Install Architectural Adapter Plates (AAPs)

- ☐ Install AAPs in the connectivity box cover panel ([page 14](#)).
- ☐ Run and connect the cables to the AAPs ([page 14](#)).
- ☐ Reattach the cover panel ([page 14](#)).

Step 5 — Complete Installation

- ☐ Snap on the cover track ([page 15](#)).
- ☐ Cut and glue the carpet to the side and end ramps ([pages 15 and 16](#)).
- ☐ Trim the wall base boards and apply the carpet or rubber strip finish to cover the track raceway ([page 16](#)).

Extron USA - West Headquarters	Extron USA - East	Extron Europe	Extron Asia	Extron Japan	Extron China	Extron Middle East
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+1.714.491.1500 +1.714.491.1517 FAX	+1.919.863.1794 +1.919.863.1797 FAX	+31.33.453.4040 +31.33.453.4050 FAX	+65.6383.4400 +65.6383.4664 FAX		+86.21.3760.1568 +86.21.3760.1566 FAX	