

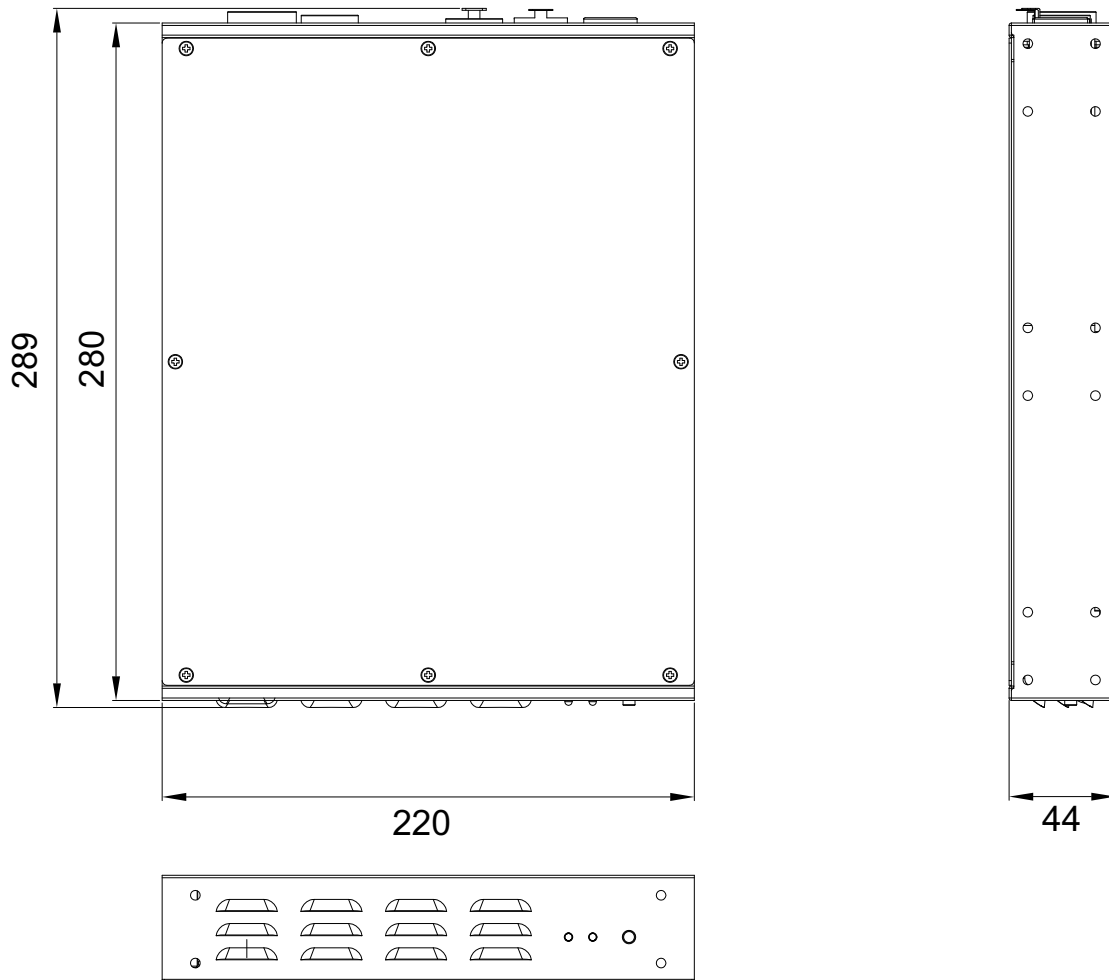
DMX PowerPort 375™

User manual



Dimensions

All measurements are expressed in millimeters



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Safety Information



WARNING!

Read the safety precautions in this section before installing, powering, operating or servicing this product.

ATTENTION !

Lisez les précautions d'emploi de cette section avant d'installer, de mettre sous tension ou d'utiliser ce produit ou bien d'en faire la maintenance.

The following symbols are used to identify important safety information on the product and in this document:



Warning!
Safety hazard.
Risk of severe injury or death.

Attention !
Risque pour la sécurité. Risque de blessure sévère voire mortelle.



Warning!
Hazardous voltage. Risk of severe or lethal electric shock.

Attention !
Tension dangereuse. Risque d'électrisation ou d'électrocution.



Warning!
Fire hazard.

Attention !
Risque d'incendie.



Warning!
Refer to manual before installing, powering or servicing.

Attention !
Reportez-vous au manuel avant d'installer, de mettre sous tension ou de commencer la maintenance.



Warning! Read this user manual before installing, operating or servicing the DMX PowerPort 375.

Warning! The DMX PowerPort 375 is designed to integrate with other devices in a video display installation. Follow the safety precautions given not only in this user manual but also in the manuals of all the devices you connect to it. Observe all warnings given in the manuals and printed on devices. Install and operate devices only as described in the manuals and only in accordance with local laws and regulations. Keep this manual for future reference. Manuals are supplied with devices and also available for download from www.martin.com.

Warning! The Martin® DMX PowerPort 375 is not for household use. It presents risks of severe injury or death due to fire and burn hazards, electric shock and falls. It must be installed by qualified technicians only.

Warning! There are no user-serviceable parts inside the DMX PowerPort 375. Refer any operation not described in this manual to Martin or its authorized service agents.

Attention ! Lisez ce manuel d'utilisation avant d'installer et d'utiliser le DMX PowerPort 375.

Attention ! Le DMX PowerPort 375 est conçu pour être intégré avec d'autres composants dans une installation de diffusion vidéo. Suivez les précautions d'emploi données dans ce manuel ainsi que dans les manuels des autres appareils que vous connecterez. Respectez toutes les mises en garde données dans ce manuel et imprimées sur l'appareil. N'installez et n'utilisez les appareils que comme cela est décrit dans leur manuel et respectez les normes et réglementations locales. Conservez ce manuel pour un usage ultérieur. Les manuels fournis avec les produits Martin sont également disponibles en téléchargement sur www.martin.com.



Attention ! Le DMX PowerPort 375 de Martin® n'est pas destiné à un usage domestique. Il présente des risques de blessure sévère voire mortelle par incendie, brûlure, électrisation et chute. Il ne doit être installé que par un technicien qualifié.

Attention ! Il n'y a aucun composant réparable par l'utilisateur dans le DMX PowerPort 375. Référez toute opération non décrite ici à Martin ou à un de ses services techniques agréés.

If you have any questions about how to operate the DMX PowerPort 375 safely, please contact your Martin supplier or call the Martin 24-hour service hotline on +45 8740 0000, or in the USA on 1-888-tech-180.



PROTECTION FROM ELECTRIC SHOCK



- Do not expose the DMX PowerPort 375 to rain or moisture.
- Connect the DMX PowerPort 375 to AC mains power at 100-240 V (nominal), 50/60 Hz only.
- Ensure that the DMX PowerPort 375 is electrically connected to ground (earth).
- Use only a source of AC mains power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- The DMX PowerPort 375 can supply maximum DC current as follows:
 - DMX PowerPort 375 can supply a safe maximum current of 5.0 A at its power and data output when powered from 100-120 V mains. Do not connect devices that draw a combined total current of more than 5.0 A to the DC power and data output when operating on this AC mains voltage range.
 - The DMX PowerPort 375 can supply a safe maximum current of 7.5 A at its power and data output when powered from 173-240 V mains. Do not connect devices that draw a combined total current of more than 7.5 A to the DC power and data output when operating on this AC mains voltage range.
- The voltage and frequency at the mains power THRU connector are the same as those applied to the mains power IN connector.
- If you connect DMX PowerPort 375 units to power in a daisy-chain by using 12 AWG / 2.5 mm² cable to connect one unit's mains power THRU connector to the next unit's mains power IN connector, you can link:
 - a maximum of three (3) DMX PowerPort 375 units total in one chain at 100-120 V, or
 - a maximum of six (6) DMX PowerPort 375 units total in one chain at 173-240 V.
- Check and respect the directions given in the user manuals of all the devices that you intend to connect to the DMX PowerPort 375, particularly the instructions, warnings and limits that apply to:
 - system layout,
 - connections to other devices,
 - specified cables,
 - maximum cable lengths, and
 - maximum number of devices that can be connected.
- The DMX PowerPort 375 unit does not have an ON/OFF switch. Make sure that the installation can be isolated from power quickly and easily if there is an urgent need to shut down power to the unit.
- Provide a means of locking out AC mains power that allows power to the installation to be shut down and made impossible to reapply, even accidentally, during work on the installation.
- Shut down power to the installation during service and when it is not in use.
- Double-pole/neutral fusing is used. If the installation is not completely disconnected from power, parts may remain live even if one of the two mains fuses has blown.
- Use only a power input cable that has 12 AWG or 2.5 mm² minimum conductor size and an outer cable diameter of 8 - 13 mm (0.35 - 0.5 in.). Power cable must be hard usage type (SJT or equivalent) and heat-resistant to 90° C (194° F) minimum. In the EU the cable must be HAR type.
- Use only the cables specified by Martin for the devices concerned to interconnect them. If the specified cables are not long enough for an intended cable run, consult Martin for assistance in finding or creating a safe alternative cable.
- Before applying power to the installation, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Isolate the installation from power immediately if the product, power cable or power plug are in any way damaged or defective, or if they show signs of overheating.



PROTECTION FROM BURNS AND FIRE

- Do not attempt to bypass fuses.
- Provide free airflow around the device.
- Do not operate the DMX PowerPort 375 if the ambient temperature (T_a) exceeds 45° C (113° F).
- Do not modify the DMX PowerPort 375 in any way not described in this manual or install other than genuine Martin parts. Use only accessories approved by Martin.



PROTECTION FROM INJURY

- When installing the DMX PowerPort 375 above ground level, ensure that the primary installation hardware and supporting structure can hold at least 10 times the weight of all the devices they support.
- In an overhead installation or where the DMX PowerPort 375 may cause injury if it falls:
 - block access below the work area and work from a stable platform whenever installing, servicing or moving the DMX PowerPort 375,
 - as soon as work is completed, check that all hardware and components are securely in place and that all installation hardware used is securely fastened.

Introduction

Thank you for selecting the Martin® DMX PowerPort 375. This compact power supply unit enables Martin Creative LED Video fixtures to be controlled directly with DMX without needing a Martin P3 System Controller. The DMX PowerPort 375 fits into the Martin PowerPort range as follows:

- **P3 PowerPort 1500** – P3-controlled indoor installations
- **P3 PowerPort 1000 IP** – P3-controlled outdoor installations
- **DMX PowerPort 375** – DMX-controlled indoor installations
- **Martin IP66 PSU 240W** – DMX-controlled outdoor installations.

The DMX PowerPort 375 and the other PowerPort variants listed above all support the following Martin Creative LED Video fixtures:

- **VDO Sceptron** Family
- **VDO Fatron** Family
- **VDO Dotron** Family
- **VC-Grid** Family
- **VC-Strip** Family
- **VC-Dot** Family
- **Exterior PixLine** Family
- **Exterior Dot-HP** Family

The DMX PowerPort 375 supplies 48 volt DC power and relays DMX and RDM data to the connected fixtures. A built-in DMX/RDM-compliant splitter distributes the signal to the connected fixtures and the DMX THRU connector for easy daisy-chaining. It can be rack-mounted as a single unit, two units can be rack-mounted side-by-side, it can be flown from a truss, or it can be mounted on a flat surface.

For possible system layouts when using the DMX PowerPort 375 with Martin Creative LED Video products, please see the user documentation for those products. Martin user documentation is supplied with products and available for download from the Martin website at www.martin.com, where you can also find the latest specifications, firmware updates and support information for all Martin products.

Please visit www.martin.com and consult the latest PowerPort Capacity document that lists how many fixtures of each type can be driven from one DMX PowerPort 375.

Either a mains power input cable complete with Neutrik powerCON TRUE1 connector or a separate Neutrik powerCON TRUE1 power input connector should be ordered separately from Martin (see “Accessories” on page 18). Connectors and cables for daisy-chaining power are also available from Martin.

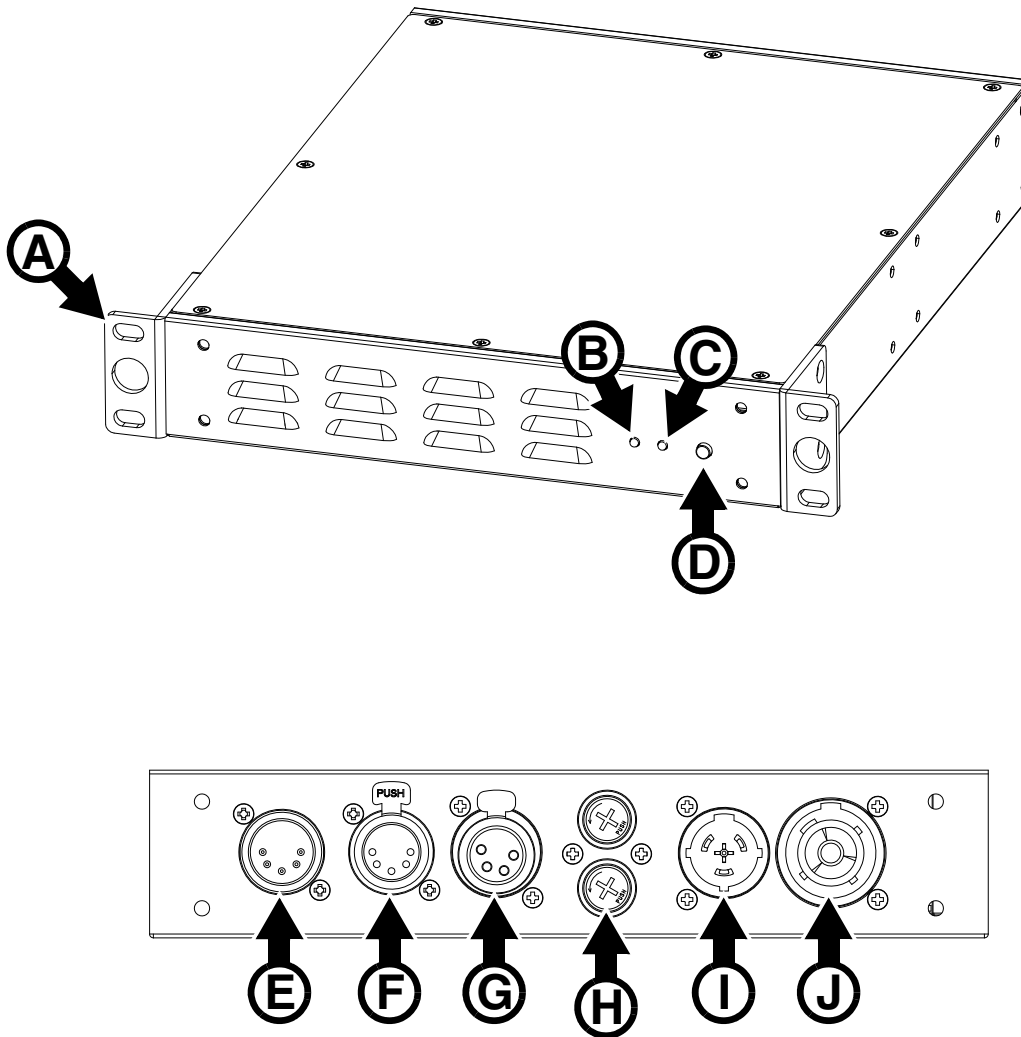
The DMX PowerPort 375 is not designed to relay a Martin P3 video signal. To send P3 video data to Martin Creative Video fixtures, use a unit from the Martin P3 PowerPort range (see “Related Items” on page 19).

Unpacking

The following items are included with the DMX PowerPort 375:

- 2 x short rack / surface mounting brackets
- 1 x long rack mounting bracket
- 1 x coupling bracket
- 1 x safety cable attachment bracket
- 10 x bracket mounting screws
- This user manual.

Overview



A - Short rack mounting ear
B - Data status LED
C - Power status LED
D - Fixture highlight button
E - DMX IN

F - DMX THRU
G - Hybrid DC power and data OUT
H - Fuseholders
I - AC mains power IN
J - AC mains power THRU

Figure 1: Product overview

Physical installation



Warning! Read “Safety Information” on page 4 before installing the DMX PowerPort 375.

Attention ! Lisez les précautions d'emploi en page 4 avant d'installer le DMX PowerPort 375.

The DMX PowerPort 375 must be securely anchored to a suitable support. The mounting surface must be hard, fixed and flat.

The DMX PowerPort 375 unit can be installed in any orientation. Allow free airflow and at least 100 mm (4 in.) of clearance around the unit.

When mounted in a 19-inch rack, the DMX PowerPort 375 has a height of 1 U.

There are four installation options:

- Single 19-inch rack mounting
- Side-by-side 19-inch rack mounting
- Wall mount
- Flying from rigging truss

Single 19-inch rack mounting

To install a single DMX PowerPort 375 in a standard 19-inch rack:

1. Using four of the supplied screws, fasten the supplied long rack mounting ear to one side of the DMX PowerPort 375 as shown in Figure 2.
2. Using four of the supplied screws, fasten one of the supplied short rack mounting ears to the other side of the DMX PowerPort 375 as shown in Figure 2.
3. Fasten the mounting ears of the DMX PowerPort 375 to the rails in the rack.

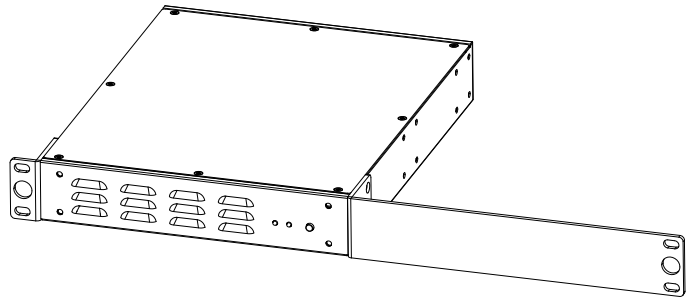


Figure 2: Setup for single rack mounting

Side-by-side 19-inch rack mounting

To install two DMX PowerPort 375 units side-by-side in a standard 19-inch rack:

1. Obtain two DMX PowerPort 375 units and combine the brackets and screws that are supplied with both units (you will need 16 x screws, 2 x coupling brackets and 2 x short rack mounting ears).
2. Place the DMX PowerPort 375 units beside each other on a flat surface.
3. Using four of the supplied screws, fasten a coupling bracket to the front surfaces of both units so that they are joined together at the front as shown in Figure 3.
4. Using four of the supplied screws, fasten a coupling bracket to the rear surfaces of both units so that they are joined together at the rear.
5. Using eight of the supplied screws, fasten short rack mounting ears to the sides of the pair of units as shown in Figure 3.
6. Fasten the mounting ears to the rails in the rack.

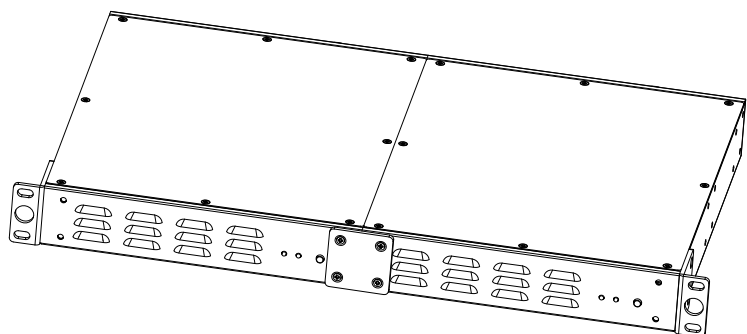


Figure 3: Setup for side-by-side rack mounting

Wall mounting

To install a DMX PowerPort 375 on a wall or similar flat, stable mounting surface:

1. Check that there will be free airflow and at least 100 mm (4 in.) of clearance around the unit.
2. Using eight of the supplied screws, fasten the supplied short rack mounting ears to the sides of the DMX PowerPort 375 as shown in Figure 4.
3. Using bolts or screws that are suitable for the weight of the unit, the mounting surface and the environment, fasten the mounting ears of the DMX PowerPort 375 to the mounting surface. Check that the unit is held securely.

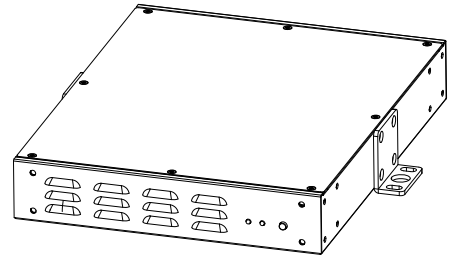


Figure 4: Setup for wall mounting

Truss mounting

To fly a DMX PowerPort 375 unit from a rigging truss using a rigging clamp:

1. Check that there will be free airflow and at least 100 mm (4 in.) of clearance around the unit.
2. Obtain a rigging clamp and a safety cable that are suitable for the weight of the unit, all connected cables, etc. Suitable items are available from Martin (see "Accessories" on page 18).
3. See Figure 5. Using two of the supplied screws, fasten the supplied safety cable attachment bracket to one side of the unit.
4. Using an M10 bolt with a maximum length of 20 mm (0.8 in.), fasten the rigging clamp into the side of the unit.
Important! The bolt must not protrude more than 20mm into the unit, or it may damage the internal electronics.
Important ! La vis ne doit pas dépasser de plus de 20 mm dans l'appareil au risque d'endommager l'électronique interne.
5. Hook the rigging clamp over the truss chord and fasten it.
6. Loop the safety cable around the truss and fasten it to the safety cable attachment bracket so that the safety cable will catch the unit if the rigging clamp fails. Check that the unit is held securely.

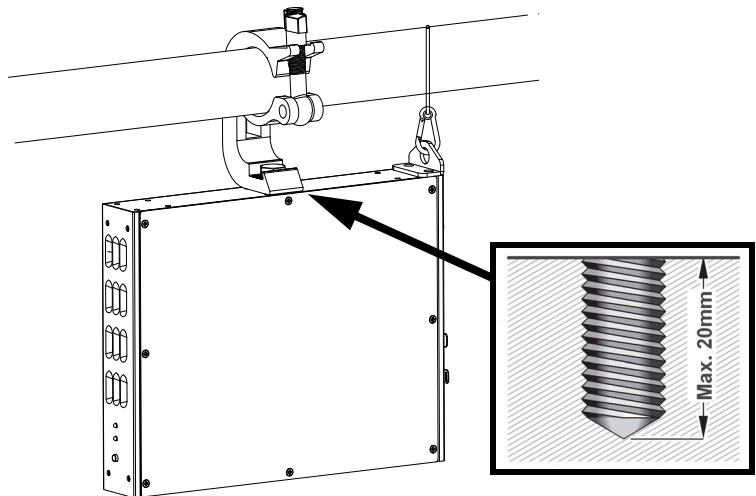


Figure 5: Setup for truss mounting

Power and data connections



Warning! Read “Safety Information” on page 4 before connecting to AC power.

Warning! Double-pole/neutral fusing. If the installation is not completely disconnected from power, parts may remain live even if one of the two mains fuses has blown.



Attention ! Lisez la section “Précautions d’emploi” en page 4 avant de connecter le produit au secteur.

Attention ! Protection par fusible sur phase et neutre. Si l’appareil n’est pas complètement déconnecté du secteur, certains composants restent sous tension même si un des deux fusibles a fondu.



The DMX PowerPort 375’s Neutrik powerCON TRUE1 connectors support hot-plugging, so the DMX PowerPort 375 does not have an ON/OFF switch.

Power connectors

Before inserting a TRUE1 connector into its receptacle (socket), line up keys and keyways carefully. If the connector feels too stiff in the receptacle, remove it and check that the keyways are mating correctly. Excessive stiffness is a sign that the connector is incorrectly lined up. Do not force it, or you may create a serious safety hazard.

Power input

The DMX PowerPort 375 requires a power input cable with a Neutrik powerCON TRUE1 NAC3FX-W female cable connector for AC mains power input. The cable must meet the requirements listed under “Protection from electric shock” on page 5. Martin can supply suitable cables with female TRUE1 input connectors 1.5 m (4.9 ft.) or 5 m (16.4 ft.) long. Alternatively, Martin can supply loose female TRUE1 input connectors (see “Accessories” on page 34).

If you need to install a Neutrik powerCON TRUE1 connector on a power cable, follow the instructions available on the Neutrik website at www.neutrik.com.

The DMX PowerPort 375 can supply a safe maximum current of 5.0 A at its power and data output when it is supplied with AC mains power at 100-120 V. Do not connect devices that draw a combined total current of more than 5.0 A to the power and data output when using AC mains power within this voltage range.

The DMX PowerPort 375 can supply a safe maximum current of 7.5 A at its power and data output when it is supplied with AC mains power at 173-240 V. Do not connect devices that draw a combined total current of more than 7.5 A to the power and data output when using AC mains power within this voltage range.

In regions with 120 V mains power, the DMX PowerPort 375 can be powered using a split-phase configuration to obtain 208 V and allow more fixtures to be connected to the unit.

Connecting to an AC mains power source

The power cable can be hard-wired to a building installation circuit or fitted with a cord cap (mains plug) for connection to local power outlets.

If you install a cord cap (mains plug) on the power cable, install a grounding-type (earthed) plug, following the plug manufacturer’s instructions. Table 1 shows some possible mains power pin identification schemes; if the pins are not clearly identified, or if you have any doubts about proper installation, consult a qualified electrician.



Wire Color (US system)	Wire Color (EU system)	Pin	Symbol	Screw (US)
black	brown	live	L	yellow or brass
white	blue	neutral	N	silver
green	yellow/green	ground (earth)	 or 	green

Table 1: Cord cap connections

Linking DMX PowerPort 375 units to power in a chain

If you obtain a 12 AWG / 2.5 mm² power input cable and 12 AWG / 2.5 mm² power relay cables from Martin (see “Accessories” on page 18), you can relay AC mains power from one DMX PowerPort 375 unit to another by connecting units to power in a linked daisy-chain, MAINS OUT throughput socket to MAINS IN input socket. If you create a linked daisy-chain like this, you must respect the following safety limits, or you may create a risk of fire and electric shock:

Using 12 AWG / 2.5 mm² cables from Martin, you can link:

- maximum three (3) DMX PowerPort 375 units total in one chain at 100-120 V, or
- maximum six (6) DMX PowerPort 375 units total in one chain at 173-240 V.

Hybrid power + data output



Warning! Before you connect devices to the DMX PowerPort 375's power + data outputs, visit the Martin website at www.martin.com and consult the latest PowerPort Capacity document that explains how many video and/or lighting fixtures of the various types available from Martin can be driven by one DMX PowerPort 375. Read the devices' user manuals carefully and respect the system layout guidelines and limits given in the manuals. User manuals are supplied with products and available for download from www.martin.com.

Important! Martin VC-Grid, VC-Strip and VC-Dot products are not hot-plugging compatible. Before you connect these products to or disconnect them from the DMX PowerPort 375, shut down power to the DMX PowerPort 375 first. This does not apply to VDO Sceptron, VDO Fatron, VDO Dotron, Exterior PixLine and Exterior Dot-HP; as these products are hot-plugging compatible.

Attention ! Avant de connecter des appareils aux sorties hybrides du DMX PowerPort 375, connectez-vous au site web de Martin www.martin.com et consultez la dernière version du document PowerPort Capacity qui détaille combien d'appareils d'éclairage ou vidéo peuvent être raccordés à un PowerPort 375. Lisez attentivement le manuel d'utilisation de chaque appareil et respectez les consignes de mise en œuvre et les limites données par les manuels. Les manuels sont fournis avec les produits et sont disponibles en téléchargement sur www.martin.com

Important ! Les VC-Dot, VC-Grid et VC-Strip ne peuvent pas être câblés à chaud. Avant de les raccorder au DMX PowerPort 375 ou de les déconnecter, éteignez avant tout le DMX PowerPort 375. Cette restriction ne s'applique pas aux VDO Sceptron, VDO Fatron, VDO Dotron, Exterior Pixline et Exterior Dot-HP qui peuvent être connectés à chaud.

The DMX PowerPort 375 supplies DC power at 48 V to Martin Creative Video products over hybrid power + data cables connected to the power + data output on the rear panel. The output can supply a safe maximum current of 5 amps when the DMX PowerPort 375 is connected to AC mains power at 100-120 V and 7.5 amps when the DMX PowerPort 375 is connected to AC mains power at 173-240 V.

The output has overload protection. If the output is overloaded or short-circuited, the DMX PowerPort 375 is immediately shut down. The unit is re-enabled as soon as the overload or short circuit is removed and the unit has had time to cool down.

Connecting hybrid power + data output

Use only Hybrid power + data cables supplied by Martin to connect Martin fixtures to the DMX PowerPort 375. See “Accessories” on page 18 for available cables. Do not exceed the maximum lengths for cable runs specified in user manuals.

To connect the DMX PowerPort 375 to devices:

1. If connecting to VC-Grid, VC-Strip or VC-Dot products, check that the DMX PowerPort 375 is isolated from AC mains power.
2. Connect Martin hybrid cables with 4-pin male locking XLR connectors to the DMX PowerPort 375's power + data output socket on the rear panel (see Figure 1 on page 8).

Using the product



Warning! Before applying power to the DMX PowerPort 375, read “Safety Information” on page 4 and check that the installation is safe and secure.

Attention ! Avant de mettre le DMX PowerPort 375 sous tension, lisez la section “Précautions d'emploi” en page 4 et vérifiez que l'installation répond à toutes les conditions de sécurité.

Do not use the DMX PowerPort 375 if the ambient temperature exceeds 45° C (113° F) or falls below -20° C (-4° F).

Applying power

The DMX PowerPort 375 is intended to be wired to a switched AC mains power circuit. It does not have a power on/off switch. To apply power to the unit, either apply power to the AC mains circuit to which it is connected. If the unit's TRUE1 power input connector is accessible, you can also use it to shut down and apply power to the unit.

Status LEDs and control button

See Figure 6. The DMX PowerPort 375's front panel has two status LEDs and a control button with the following functions:

- The **Data** LED lights yellow when DMX or RDM data is being received.
- The **Power** LED lights green when AC mains power is applied.
- The **Control button** lets you test that Creative LED Video fixtures are connected and operating correctly. If you press the button once, all connected fixtures will display a constant white pattern. If you press the button again, all connected fixtures will return to normal.

Note that you can also test Creative LED Video fixtures remotely by sending a highlight command via RDM.

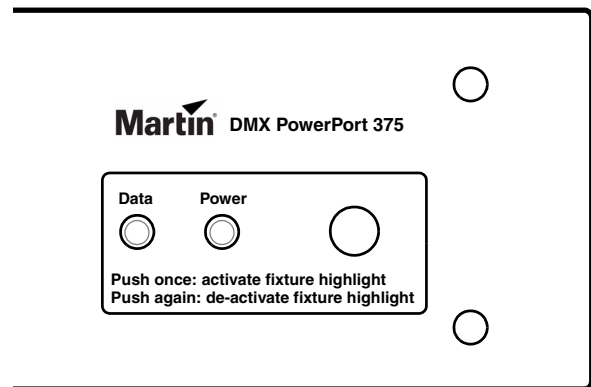


Figure 6: Status LEDs and control button

Handling DMX and RDM

The DMX PowerPort 375 will forward all DMX and RDM traffic from the DMX IN connector to the POWER+DATA OUT and DMX THRU connectors with zero latency. During RDM fixture discovery and RDM fixture feedback, the DMX PowerPort 375 will route the traffic back to the DMX IN connector.

The DMX PowerPort 375 can itself also be discovered using RDM, letting you retrieve status and firmware version remotely. When sending an 'RDM Identify' command to the DMX PowerPort 375, it will set its Data LED to a flashing white pattern and set all connected fixtures to display a constant white pattern (as if the Control button on the unit itself was pressed).

This transparent behavior allows Martin Creative LED Video fixtures connected to the DMX PowerPort 375 to be addressed and configured remotely from a lighting desk using RDM. No manual configuration of the DMX PowerPort 375 or fixtures themselves is necessary.

Service and maintenance



Warning! Read “Safety Information” on page 4 before servicing the DMX PowerPort 375.

Warning! Disconnect the DMX PowerPort 375 from AC mains power before servicing.

Warning! Refer any service operation not described in this manual to a qualified service technician.



Important! Excessive dirt buildup causes overheating and will damage the product. Damage caused by inadequate cleaning is not covered by the product warranty.

Attention ! Lisez la section “Précautions d'emploi” en page 4 avant de démarrer l'entretien du DMX PowerPort 375.

Attention ! Déconnectez le DMX PowerPort 375 du secteur avant de commencer l'entretien.

Attention ! Référez toute opération non décrite dans ce manuel à un service technique qualifié.

Important ! Un encrassement excessif peut causer des surchauffes et endommager le produit. Les dommages causés un nettoyage inadéquat ne sont pas couverts par la garantie du produit.

The user will need to clean the DMX PowerPort 375 periodically, and may replace fuses in the fuseholders on the rear panel if necessary. All other service operations on the DMX PowerPort 375 must be carried out by Martin Professional or its approved service agents.

Installation, on-site service and maintenance can be provided worldwide by the Martin Professional Global Service organization and its approved agents, giving owners access to Martin's expertise and product knowledge in a partnership that will ensure the highest level of performance throughout the product's lifetime. Please contact your Martin supplier for details.

Fuse replacement



Warning! Replace fuses with fuses of the same type and rating only.

Attention ! Remplacez uniquement les fusibles fondus par des fusibles de même type et de même valeur.



The DMX PowerPort 375 is protected by two 6.3 amp slow-blow fuses located in fuseholders on the rear panel (see Figure 1 on page 8). One fuse protects the Live line and one protects the Neutral line – this setup is necessary to ensure full protection when using a split-phase configuration on 120 V networks to obtain 208 V. If either fuse blows, the DMX PowerPort 375 and all fixtures connected to it will stop working.

If the unit stops working although it is connected to power, the overload protection may have been activated or a fuse may have blown. If you suspect that a fuse has blown, replace the fuses as follows:

1. Disconnect the DMX PowerPort 375 from power.
2. Using a screwdriver, turn each fuseholder cap counter-clockwise to release it, then remove each fuse.
3. Replace defective fuses with fuses of the same type and rating.
4. Reinstall both fuseholder caps before reapplying power.

Cleaning

Cleaning schedules vary greatly depending on the operating environment. It is therefore impossible to specify precise cleaning intervals for the DMX PowerPort 375. Cooling fans suck in airborne dust and smoke particles, and in extreme cases, the product and its air filters may require cleaning after surprisingly few hours of operation. Environmental factors that may result in a need for frequent cleaning include:

- Use of smoke or fog machines.
- High airflow rates (near air conditioning vents, for example).
- Presence of cigarette smoke.
- Airborne dust (from stage effects, building structures and fittings or the natural environment in outdoor locations, for example).

If one or more of these factors is present, inspect units within their first 25 hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation. If in doubt, consult your Martin™ dealer about a suitable maintenance schedule.



Warning! Disconnect from power and allow to cool for 10 minutes before cleaning.

Warning! Do not allow the unit to become wet. Wipe with a damp cloth only.



Attention ! Déconnectez le produit et laissez-le refroidir pendant 10 minutes avant de procéder au nettoyage.

Attention ! Ne laissez pas le produit se couvrir d'humidité. Nettoyez-le avec un chiffon légèrement humide.

To clean the DMX PowerPort 375:

1. Disconnect the unit from power.
2. Use a vacuum cleaner and soft brush to gently remove dust and loose particles from the outside of the unit, paying special attention to the air vents in the front panel.
3. Wipe the outside of the unit with a cloth lightly moistened in a mild detergent solution. Do not splash the unit with water. Do not use any product that contains abrasives or solvents.
4. Check that the unit is dry before reapplying power.

Installing new software

It may be necessary to upload new software (i.e. device firmware) to the DMX PowerPort 375 if it appears to have a software-related fault or if you want to update to a newer software version.

To upload new software:

1. Connect a PC running the Martin Companion Windows application (available from the Martin website at www.martin.com) to the Internet. Allow the application to automatically download all the latest Martin product firmware to your PC.
2. Shut down power to the DMX PowerPort 375.
3. Connect the PC running Martin Companion to the DMX PowerPort 375's DMX IN connector using the Martin Companion Cable USB-DMX hardware interface available from Martin (see "Related Items" on page 19).
4. Apply power to the DMX PowerPort 375 and follow the instructions in the Martin Companion application.

Troubleshooting

Problem	Probable cause(s)	Remedy
Power status LED does not light.	No power to product.	Check that AC circuit is switched on. Check cables and breakers.
	Fuse blown.	Disconnect from power. Check both fuses. Replace as described in this manual if necessary.
	Overload protection active.	Output may be overloaded. See 'PowerPort Capacity' guide on www.martin.com . Check that devices are connected as specified and that the number of connected devices does not exceed the maximum permitted limit. Output may be short-circuited. Check wiring and rectify any faults. If overload protection is activated repeatedly and you cannot find the cause, disconnect the unit from power and contact Martin Service or an authorized Martin service partner for assistance.
	Internal fault.	Disconnect from power. Lethal current may be present inside the unit even if one of the two mains fuses has blown. Do not attempt repairs yourself. Contact Martin Service or an authorized Martin service partner for assistance.
Data status LED does not light even when DMX/RDM input cable is connected.	Problem on data circuit.	Check data cable and connectors
	No signal being sent.	Check DMX controller.
	Internal fault.	Disconnect from power. Do not attempt repairs yourself. Contact Martin Service or an authorized Martin service partner for assistance.
Creative Video fixtures do not respond to Test control button.	Fixtures not receiving 48 volt DC power.	Check locally by pushing test button on each affected fixture.
	Circuit fault.	Check connections and cables. Rectify any faults. Troubleshoot by substituting cables with known good cables.
	Defective fixture.	Troubleshoot by substituting fixture with a known good fixture.
	Internal fault.	Disconnect from power. Do not attempt repairs yourself. Contact Martin Service or an authorized Martin service partner for assistance.
Creative Video fixtures do not respond to DMX / RDM controls from lighting controller.	Controller not set up correctly.	Check configuration and settings at the controller.
	Fixtures not addressed correctly.	Check fixture addressing at the controller. Check fixture addressing and DMX mode settings via RDM.
	Circuit fault.	Check connections and cables. Rectify any faults. Troubleshoot by substituting cables with known good cables.
	Defective fixture.	Troubleshoot by substituting fixture with a known good fixture.
	Internal fault.	Disconnect from power. Do not attempt repairs yourself. Contact Martin Service or an authorized Martin service partner for assistance.

Table 2: Troubleshooting

Specifications

Physical

Width (single or double unit 19" rack-mountable with included rackmount ears)	220 mm (8.7 in.)
Depth	289 mm (11.4 in.)
Height	44 mm (1.75 in. / 1 Rack Unit)
Weight	2.33 kg (5.2 lbs.)

Control and Programming

Control protocols	DMX, RDM
Setting and addressing of connected fixtures	RDM
DMX Compliance	USITT DMX512-A
RDM Compliance	ANSI/ESTA E1.20
DMX/RDM Transceiver IN/THRU	Opto-Isolated RS-485
DMX/RDM Transceiver OUT	Opto-Isolated RS-485
Firmware Update	Over DMX link using Martin Companion

Control/User Interface

Power output status	Green LED
Data activity status	Yellow LED
Fixture test	Pushbutton to call up test pattern

Supported fixtures

- Martin VDO Sceptron Family
- Martin VDO Fatron Family
- Martin VDO Dotron Family
- Martin Exterior PixLine Family
- Martin Exterior Dot-HP Family
- Martin VC-Grid Family
- Martin VC-Strip Family
- Martin VC-Dot Family via Martin VC-Feeder

See www.martin.com for DMX PowerPort 375 Capacity document listing number of fixtures per PowerPort unit and for latest information on supported products.

Construction

Color	Matt black
Housing	Steel
Ingress protection rating	IP20
RoHS	Compliant
REACH	Compliant

Installation

Single-unit 19-inch rackmount	Using supplied short and long rack mounting ears
Dual-unit side-by-side 19-inch rackmount	Using supplied coupling plates and short rack mounting ears
Wallmount	Using supplied short rack mounting ears
Trussmount Vertical	Using half-coupler clamp in M10 threaded hole, max. bolt length 20 mm (0.75 in.)
Orientation	Any

Connections

AC mains power IN	Neutrik powerCON TRUE1
AC mains power THRU	Neutrik powerCON TRUE1
DMX/RDM IN	Neutrik 5-pin male XLR socket
DMX/RDM THRU	Neutrik 5-pin female XLR socket
Combined power & data OUT	Neutrik 4-pin female XLR socket

Electrical

AC mains power input	100-240 V (nominal), 50/60 Hz
Power supply unit	Auto-ranging electronic switch-mode
Maximum permitted total current draw from 48 VDC OUT at 100-120 V mains power	5 A
Maximum permitted total current draw from 48 VDC OUT at 173-240 V mains power	7.5 A
Main fuses	Double-pole/neutral fusing, 2 x T6.3 A (slow-blow), 250 VAC
Maximum total power consumption	450 W (including full load of connected fixtures)
Typical half-cycle RMS inrush current at 230 V, 50 Hz	9.6 A
Typical earth leakage current	1.7 mA

Thermal

Maximum ambient temperature (T_a max.)	45° C (113° F)
Minimum ambient temperature (T_a min.)	-20° C (-4° F)
Cooling	Filtered forced air (temperature-regulated, low-noise)
Total heat dissipation (calculated +/- 10%)	300 BTU/hr. (not including connected fixtures but with system at full load)

Approvals



EU safety	IEC/EN 60950, IEC/EN 62368-1
EU EMC	EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3
US safety	ANSI/UL 62368-1
US EMC	FCC 47 CFR 15 Class B
Canadian safety	CSA C22.2 No. 62368-1
Canadian EMC	ICES-003 Class B
Australia/NZ	AS/NZS 62368:1:2018

Included Items

- 1 x Safety Cable Attachment Eyelet, incl. screws
- 2 x Short Rack Mounting Ears, incl. screws
- 1 x Long Rack Mounting Ear, incl. screws
- 1 x Coupling Plate, incl. screws
- User Manual

Please note that a power input cable is not supplied with the product and must be ordered separately (see below)

Accessories

Power Input Cables

Power Input Cable, H07RN-F, 2.5 mm ² , bare ends to TRUE1, 1.5 m (4.9 ft.)	P/N 91611797
Power Input Cable, H07RN-F, 2.5 mm ² , bare ends to TRUE1, 5 m (16.4 ft.)	P/N 91611786
Power Input Cable, SJOOW, 12 AWG, bare ends to TRUE1, 1.5 m (4.9 ft.)	P/N 91610173
Power Input Cable, SJOOW, 12 AWG, bare ends to TRUE1, 5 m (16.4 ft.)	P/N 91610174

Power Thru Cables

Power Relay Cable, H07RN-F, 2.5 mm ² , TRUE1 to TRUE1, 0.45 m (1.5 ft.)	P/N 91611784
Power Relay Cable, H07RN-F, 2.5 mm ² , TRUE1 to TRUE1, 1.2 m (3.9 ft.)	P/N 91611785
Power Relay Cable, H07RN-F, 2.5 mm ² , TRUE1 to TRUE1, 2.5 m (8.2 ft.)	P/N 91611796
Power Relay Cable, SJOOW, 12 AWG, TRUE1 to TRUE1, 0.45 m (1.5 ft.)	P/N 91610170
Power Relay Cable, SJOOW, 12 AWG, TRUE1 to TRUE1, 1.2 m (3.9 ft.)	P/N 91610171
Power Relay Cable, SJOOW, 12 AWG, TRUE1 to TRUE1, 2.5 m (8.2 ft.)	P/N 91610172

Power Connectors

Power Connector, Cable Mount, Neutrik TRUE1 NAC3FX-W (female)	P/N 91611789HU
Power Connector, Cable Mount, Neutrik TRUE1 NAC3MX-W (male)	P/N 91611788HU

Installation Hardware

Super Lightweight Half Coupler Rigging Clamp, black (suitable for M10 threaded hole)	P/N 91602018
Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, black	P/N 91604006
Safety Cable, SWL 60 kg, BGV C1 / DGUV 17, silver	P/N 91604007

Related Items

Martin Companion Cable USB-DMX hardware interface	P/N 91616091
Martin Companion Windows application	Download from www.martin.com
P3 PowerPort 1500	P/N 90721040
P3 PowerPort 1000 IP Rental	P/N 90721070
P3 PowerPort 1000 IP Install	P/N 90721080
Martin IP66 PSU 240 W.	P/N 90760330

Ordering Information

Martin DMX PowerPort 375	P/N 90721094
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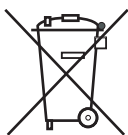
Specifications subject to change without notice. For the latest product specifications, see www.martin.com

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Canadian Interference-Causing Equipment Regulations - *Règlement sur le Matériel Brouilleur du Canada*

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le Matériel Brouilleur du Canada.



Disposing of this product

Martin products are supplied in compliance with Directive 2012/19/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), where applicable.

Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of Martin products.

