



PRELIMINARY

AXION

USER'S MANUAL



MODELS: ARC100 & ARC100-B

TABLE OF CONTENTS

SAFETY INSTRUCTIONS3

Chapter 1 : INTRODUCTION6

 1-1. ACCESSORIES SUPPLIED6

 1-2. GENERAL INFORMATION6

 1-3. INSTALLATION.....6

 1-4. FRONT PANEL DESCRIPTION7

 1-5. REAR PANEL DESCRIPTION10

Chapter 2 : STARTING11

 2-1. CONNECTIONS (MODEL ARC100).....11

 2-2. CONNECTIONS (MODEL ARC100-B).....12

 2-3. SHOW SETUP.....13

 2-4. SYSTEM CONFIGURATION15

 2-5. HOW TO SET A DEVICE TO A SCREEN16

 2-6. PRESET SETUP20

Chapter 3 : HOW TO SET A SOFTEDGE SCREEN WITH TWO DEVICES21

 3-1. SCREEN SET UP21

 3-2. PROJECTORS CONFIGURATION23

Chapter 4 : UPDATING THE DEVICE27

Chapter 5 : TECHNICAL SPECIFICATIONS28

 5-1. COMMUNICATION PORTS.....28

 5-2. ENVIRONMENTAL28

WARRANTY.....29



SAFETY INSTRUCTIONS

All of the safety and operating instructions should be read before the product is operated and should be retained for further reference. Please follow all of the warnings on this product and its operating instructions.

CAUTION:

WARNING: To prevent the risk of electric shock and fire, do not expose this device to rain, humidity or intense heat sources (such as heaters or direct sunlight). Slots and openings in the device are provided for ventilation and to avoid overheating. Make sure the device is never placed on or near a textile surface that could block the openings. Also keep away from excessive dust, vibrations and shocks.

POWER: Only use the power supply indicated on the device or on the power source. Devices equipped with a grounding plug should only be used with a grounding type outlet. In no way should this grounding be modified, avoided or suppressed.

POWER CORD: Use the On (I) / Off (O) switch to power On or Off devices equipped with that switch. All other devices should be plugged and unplugged from wall outlet. In both cases, please follow these instructions:

- The power cord of the device should be unplugged from the outlet when left unused for several days.
- To unplug the device, do not pull on the power cord but always on the plug itself.
- The outlet should always be near the device and easily accessible.
- Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.

If the power supply cord is damaged, unplug the device. Using the device with a damaged power supply cord may expose you to electric shocks or other hazards. Verify the condition of the power supply cords once in a while. Contact your dealer or service center for replacement if damaged.

CONNECTIONS: All inputs and outputs (except for the power input) are TBTS defined under EN60950.

SERVICING: Do not attempt to service this product yourself by opening or removing covers and screws since it may expose you to electric shocks or other hazards. Refer all problems to qualified service personnel.

OPENINGS: Never push objects of any kind into this product through the openings. If liquids have been spilled or objects have fallen into the device, unplug it immediately and have it checked by a qualified technician.

ISTRUZIONI DE SÉCURITÉ

Afin de mieux comprendre le fonctionnement de cet appareil nous vous conseillons de bien lire toutes les consignes de sécurité et de fonctionnement de l'appareil avant utilisation. Conserver les instructions de sécurité et de fonctionnement afin de pouvoir les consulter ultérieurement. Respecter toutes les consignes marquées dans la documentation, sur le produit et sur ce document.

ATTENTION : Afin de prévenir tout risque de choc électrique et d'incendie, ne pas exposer cet appareil à la pluie, à l'humidité et aux sources de chaleur intense.

INSTALLATION : Veillez à assurer une circulation d'air suffisante pour éviter toute surchauffe à l'intérieur de l'appareil. Ne placez pas l'appareil sur ou proximité de surface textile susceptible d'obstruer les orifices de ventilation. N'installez pas l'appareil à proximité de sources de chaleur comme un radiateur ou une bouche d'air chaud, ni dans un endroit exposé au rayonnement solaire direct, à des poussières excessives, à des vibrations ou à des chocs mécaniques. Ceci pourrait provoquer un mauvais fonctionnement et un accident.

ALIMENTATION : Ne faire fonctionner l'appareil qu'avec la source d'alimentation indiquée sur l'appareil ou sur son bloc alimentation. Pour les appareils équipés d'une alimentation principale avec fil de terre, ils doivent être obligatoirement connectés sur une source équipée d'une mise à la terre efficace. En aucun cas cette liaison de terre ne devra être modifiée, contournée ou supprimée.

CORDON D'ALIMENTATION : Pour les appareils équipés d'un interrupteur général (Marche I / Arrêt O), la mise sous tension et la mise hors tension se fait en actionnant cet interrupteur général. Pour les appareils sans interrupteur général, la mise sous tension et la mise hors tension se fait directement en connectant et déconnectant le cordon d'alimentation de la prise murale.

Dans les 2 cas ci-dessus appliquer les consignes suivantes :

- Débrancher le cordon d'alimentation de la prise murale si vous prévoyez de ne pas utiliser l'appareil pendant quelques jours ou plus.
- Pour débrancher le cordon, tirez le par la fiche. Ne tirez jamais sur le cordon proprement dit.
- La prise d'alimentation doit se trouver à proximité de l'appareil et être aisément accessible.
- Ne laissez pas tomber le cordon d'alimentation et ne posez pas d'objets lourds dessus.

Si le cordon d'alimentation est endommagé, débranchez le immédiatement de la prise murale. Il est dangereux de faire fonctionner cet appareil avec un cordon endommagé, un câble abîmé peut provoquer un risque d'incendie ou un choc électrique. Vérifier le câble d'alimentation de temps en temps. Contacter votre revendeur ou le service après vente pour un remplacement.

CONNEXIONS : Toutes les entrées et sorties (exceptée l'entrée secteur) sont de type TBTS (Très Basse Tension de Sécurité) définies selon EN 60950.

RÉPARATION ET MAINTENANCE : L'utilisateur ne doit en aucun cas essayer de procéder aux opérations de dépannage, car l'ouverture des appareils par retrait des capots ou de toutes autres pièces constituant les boîtiers ainsi que le dévissage des vis apparentes à l'extérieur, risque d'exposer l'utilisateur à des chocs électriques ou autres dangers. Contacter le service après vente ou votre revendeur ou s'adresser à un personnel qualifié uniquement.

OUVERTURES ET ORIFICES : Les appareils peuvent comporter des ouvertures (aération, fentes, etc...), veuillez ne jamais y introduire d'objets et ne jamais obstruer ses ouvertures. Si un liquide ou un objet pénètre à l'intérieur de l'appareil, débranchez immédiatement l'appareil et faites le contrôler par un personnel qualifié avant de le remettre en service.

ISTRUZIONI DI SICUREZZA

Allo scopo di capire meglio il funzionamento di questa apparecchiatura vi consigliamo di leggere bene tutti i consigli di sicurezza e di funzionamento prima dell'utilizzo. Conservare le istruzioni di sicurezza e di funzionamento al fine di poterle consultare ulteriormente. Seguire tutti i consigli indicati su questo manuale e sull'apparecchiatura.

ATTENZIONE : Al fine di prevenire qualsiasi rischio di shock elettrico e d'incendio, non esporre l'apparecchiatura a pioggia, umidità e a sorgenti di eccessivo calore.

INSTALLAZIONE : Assicuratevi che vi sia una sufficiente circolazione d'aria per evitare qualsiasi surriscaldamento all'interno dell'apparecchiatura. Non collocare l'apparecchiatura in prossimità o su superfici tessili suscettibili di ostruire il funzionamento della ventilazione. Non installate l'apparecchiatura in prossimità di sorgenti di calore come un radiatore o una fuoriuscita d'aria calda, né in un posto esposto direttamente ai raggi del sole, a polvere eccessiva, a vibrazioni o a shock meccanici. Ciò potrebbe provocare un erroneo funzionamento e un incidente.

ALIMENTAZIONE : Far funzionare l'apparecchiatura solo con la sorgente d'alimentazione indicata sull'apparecchiatura o sul suo alimentatore. Per le apparecchiature fornite di un'alimentazione principale con cavo di terra, queste devono essere obbligatoriamente collegate su una sorgente fornita di una efficiente messa a terra. In nessun caso questo collegamento potrà essere modificato, sostituito o eliminato.

CAVO DI ALIMENTAZIONE : Per le apparecchiature fornite di interruttore generale (Acceso I / Spento O), l'accensione e lo spegnimento dell'apparecchiatura si effettuano attraverso l'interruttore. Per le apparecchiature senza interruttore generale, l'accensione e lo spegnimento si effettuano direttamente inserendo o disinserendo la spina del cavo nella presa murale.

In entrambe i casi applicare i seguenti consigli :

- Disconnettere l'apparecchiatura dalla presa murale se si prevede di non utilizzarla per qualche giorno.
- Per disconnettere il cavo tirare facendo forza sul connettore.
- La presa d'alimentazione deve trovarsi in prossimità dell'apparecchiatura ed essere facilmente accessibile.
- Non far cadere il cavo di alimentazione né appoggiarci sopra degli oggetti pesanti.

Se il cavo di alimentazione è danneggiato, spegnere immediatamente l'apparecchiatura. E' pericoloso far funzionare questa apparecchiatura con un cavo di alimentazione danneggiato, un cavo graffiato può provocare un rischio di incendio o uno shock elettrico. Verificare il cavo di alimentazione spesso. Contattare il vostro rivenditore o il servizio assistenza per una sostituzione.

CONNESSIONE : Tutti gli ingressi e le uscite (eccetto l'alimentazione) sono di tipo TBTS definite secondo EN 60950.

RIPARAZIONI E ASSISTENZA : L'utilizzatore non deve in nessun caso cercare di riparare l'apparecchiatura, poiché con l'apertura del coperchio metallico o di qualsiasi altro pezzo costituente la scatola metallica, nonché svitare le viti che appaiono esteriormente, poiché ciò può provocare all'utilizzatore un rischio di shock elettrico o altri rischi.

APERTURE DI VENTILAZIONE : Le apparecchiature possono comportare delle aperture di ventilazione, si prega di non introdurre mai oggetti o ostruire le sue fessure. Se un liquido o un oggetto penetra all'interno dell'apparecchiatura, disconnetterla e farla controllare da personale qualificato prima di rimetterla in servizio.

SICHERHEITSHINWEISE

Um den Betrieb dieses Geräts zu verstehen, raten wir Ihnen vor der Inbetriebnahme alle Sicherheits- und Betriebsanweisungen genau zu lesen. Diese Sicherheits- und Betriebsanweisungen für einen späteren Gebrauch sicher aufbewahren. Alle in den Unterlagen, an dem Gerät und hier angegebenen Sicherheitsanweisungen einhalten.

VORSICHT & WARNUNG

ACHTUNG: um jegliches Risiko eines Stromschlags oder Feuers zu vermeiden, das Gerät nicht Regen, Feuchtigkeit oder intensiven Wärmequellen aussetzen.

EINBAU : Eine ausreichende Luftzufuhr sicherstellen, um jegliche Überhitzung im Gerät zu vermeiden. Das Gerät nicht auf und in Nähe von Textiloberflächen, die Belüftungsöffnungen verschließen können, aufstellen. Das Gerät nicht in Nähe von Wärmequellen, wie z.B. Heizkörper oder Warmluftkappe, aufstellen und es nicht dem direkten Sonnenlicht, übermäßigem Staub, Vibrationen oder mechanischen Stößen aussetzen. Dies kann zu Betriebsstörungen und Unfällen führen.

STROMVERSORGUNG : Das Gerät nur mit der auf dem Gerät oder dem Netzteil angegebenen Netzspannung betreiben. Geräte mit geerdeter Hauptstromversorgung müssen an eine Stromquelle mit effizienter Erdung angeschlossen werden. Diese Erdung darf auf keinen Fall geändert, umgangen oder entfernt werden.

STROMKABEL : Für Geräte mit einem Hauptschalter (Ein/Aus) erfolgt die Stromversorgung und Unterbrechung mittels dieses Hauptschalters. Geräte ohne Hauptschalter werden durch das Einstecken oder Herausziehen des Steckers in den Wandanschluß ein- oder ausgeschaltet. Für beide Fälle gelten folgende Richtlinien :

- Den Stecker aus dem Wandanschluß herausziehen wenn Sie das Gerät mehrere Tage oder länger nicht benutzen.
- Das Kabel mittels dem Stecker herausziehen. Niemals am Stromkabel selbst ziehen.
- Die Steckdose muß sich in der Nähe des Geräts befinden und leicht zugänglich sein.
- Das Stromkabel nicht fallen lassen und keine schweren Gegenstände auf es stellen.

Wenn das Stromkabel beschädigt ist, das Gerät sofort abschalten. Es ist gefährlich das Gerät mit einem beschädigten Stromkabel zu betreiben; ein abgenutztes Kabel kann zu einem Feuer oder Stromschlag führen. Das Stromkabel regelmäßig untersuchen. Für den Ersatz, wenden Sie sich an Ihren Verkäufer oder Kundendienststelle.

ANSCHLÜSSE : Bei allen Ein- und Ausgängen (außer der Stromversorgung) handelt es sich, gemäß EN 60950, um Sicherheits- Kleinspannungsanschlüsse.

REPARATUR UND WARTUNG : Der Benutzer darf keinesfalls versuchen das Gerät selbst zu reparieren, die Öffnung des Geräts durch Abnahme der Abdeckhaube oder jeglichen anderen Teils des Gehäuses sowie die Entfernung von außen sichtbaren Schrauben zu Stromschlägen oder anderen Gefahren für den Benutzer führen kann. Wenden Sie sich an Ihren Verkäufer, Ihre Kundendienststelle oder an qualifizierte Fachkräfte.

ÖFFNUNGEN UND MUNDUNGEN : Die Geräte können über Öffnungen verfügen (Belüftung, Schlitz, usw.). Niemals Gegenstände in die Öffnungen einführen oder die Öffnungen verschließen. Wenn eine Flüssigkeit oder ein Gegenstand in das Gerät gelangt, den Stecker herausziehen und es vor einer neuen Inbetriebnahme von qualifiziertem Fachpersonal überprüfen lassen.

INSTRUCCIONES DE SEGURIDAD

Para comprender mejor el funcionamiento de este aparato, le recomendamos que lea cuidadosamente todas las consignas de seguridad y de funcionamiento del aparato antes de usarlo. Conserve las instrucciones de seguridad y de funcionamiento para que pueda consultarlas posteriormente. Respete todas las consignas indicadas en la documentación, relacionadas con el producto y este documento.

PRECAUCIONES Y OBSERVACIONES

CUIDADO : Para prevenir cualquier riesgo de choque eléctrico y de incendio, no exponga este aparato a la lluvia, a la humedad ni a fuentes de calor intensas.

INSTALACIÓN : Cerciórese de que haya una circulación de aire suficiente para evitar cualquier sobrecalentamiento al interior del aparato. No coloque el aparato cerca ni sobre una superficie textil que pudiera obstruir los orificios de ventilación. No instale el aparato cerca de fuentes de calor como radiador o boca de aire caliente, ni en un lugar expuesto a los rayos solares directos o al polvo excesivo, a las vibraciones o a los choques mecánicos. Esto podría provocar su mal funcionamiento o un accidente.

ALIMENTACIÓN : Ponga a funcionar el aparato únicamente con la fuente de alimentación que se indica en el aparato o en su bloque de alimentación. Los aparatos equipados con una alimentación principal con hilo de tierra deben estar conectados obligatoriamente a una fuente equipada con una puesta a tierra eficaz. Por ningún motivo este enlace de tierra deberá ser modificado, cambiado o suprimido.

CABLE DE ALIMENTACIÓN : Para los aparatos equipados con un interruptor general (Marcha I / Paro O), la puesta bajo tensión y la puesta fuera de tensión se hace accionando este interruptor general. En los aparatos que no tienen interruptor general, la puesta bajo tensión y la puesta fuera de tensión se hace directamente conectando y desconectando el enchufe mural.

En ambos casos, se deberá respetar las siguientes consignas:

- Desconectar el aparato del enchufe mural si no piensa utilizarlo durante varios días.
- Para desconectar el cable, tire de la clavija. No tire nunca del cable propiamente dicho.
- El enchufe de alimentación debe estar cerca del aparato y ser de fácil acceso.
- No deje caer el cable de alimentación ni coloque objetos pesados encima de él.

Si el cable de alimentación sufre algún daño, ponga el aparato inmediatamente fuera de tensión. Es peligroso hacer funcionar este aparato con un cable averiado, ya que un cable dañado puede provocar un incendio o un choque eléctrico. Verifique el estado del cable de alimentación de vez en cuando. Póngase en contacto con su distribuidor o con el servicio de posventa si necesita cambiarlo.

CONEXIONES : Todas las entradas y salidas (excepto la entrada del sector) son de tipo TBTS (Muy Baja Tensión de Seguridad) definidas según EN 60950.

REPARACIÓN Y MANTENIMIENTO : Por ningún motivo, el usuario deberá tratar de efectuar operaciones de reparación, ya que si abre los aparatos retirando el capó o cualquier otra pieza que forma parte de las cajas o si destornilla los tornillos aparentes exteriores, existe el riesgo de producirse una explosión, choques eléctricos o cualquier otro incidente. Contacte el servicio de posventa, a su distribuidor o diríjase con personal cualificado únicamente.

ABERTURAS Y ORIFICIOS : Los aparatos pueden contener aberturas (aireación, ranuras, etc.). No introduzca allí ningún objeto ni obstruya nunca estas aberturas. Si un líquido o un objeto penetra al interior del aparato, desconéctelo y hágalo revisar por personal cualificado antes de ponerlo nuevamente en servicio.

AXION

CHAPTER 1 : INTRODUCTION

1-1. ACCESSORIES SUPPLIED

- 1 AXION (ARC100)
- 1 AC power cord
- 2 Stylus
- 1 User's Manual.
- 1 CD-ROM (Tutorials).

1-2. GENERAL INFORMATION

Axion by **Analog Way** is a **Powerful High End Remote Controller** to manage, independently or simultaneously, several Switchers of the iX range either as stand alone boxes or any kind of combination, including soft-edge blending.

Once connected to the iX Switchers, **Axion** can control up to 6 independent screen configurations in different location, (single display or multiple projectors in softedge blended mode). **Axion** controls all the effects and functionalities of the iX Switchers:

- Control of soft-edge blended presentations, on up to 6 different screens, horizontally or vertically,
- Size, shape, and position of the PIP,
- Transition effects,
- Control of sequences,
- Configuration of each input/output of the controlled Switchers.

Designed with a 16/9 TFT color touchscreen for preview of all configurations, **Axion** is especially dedicated to facilitate the setting and programming of presentations on multi-screens. It perfectly fits high end large events with multi-rooms and very large screens using soft-edge blended technology.

The numerous user friendly, customizable and configurable presets enable preparation of the screen configuration, so that they are easily accessible during the presentation. A last minute modification is easy thanks to the direct input/output selection access.

Also equipped with a USB port, the complete configuration of the event can be saved for future use.

With its robust and "Live resistant" buttons and its quality T-Bar and joystick, **Axion** will help to manage multi-screen, multi-location live presentations with a total peace of mind.

1-3. INSTALLATION

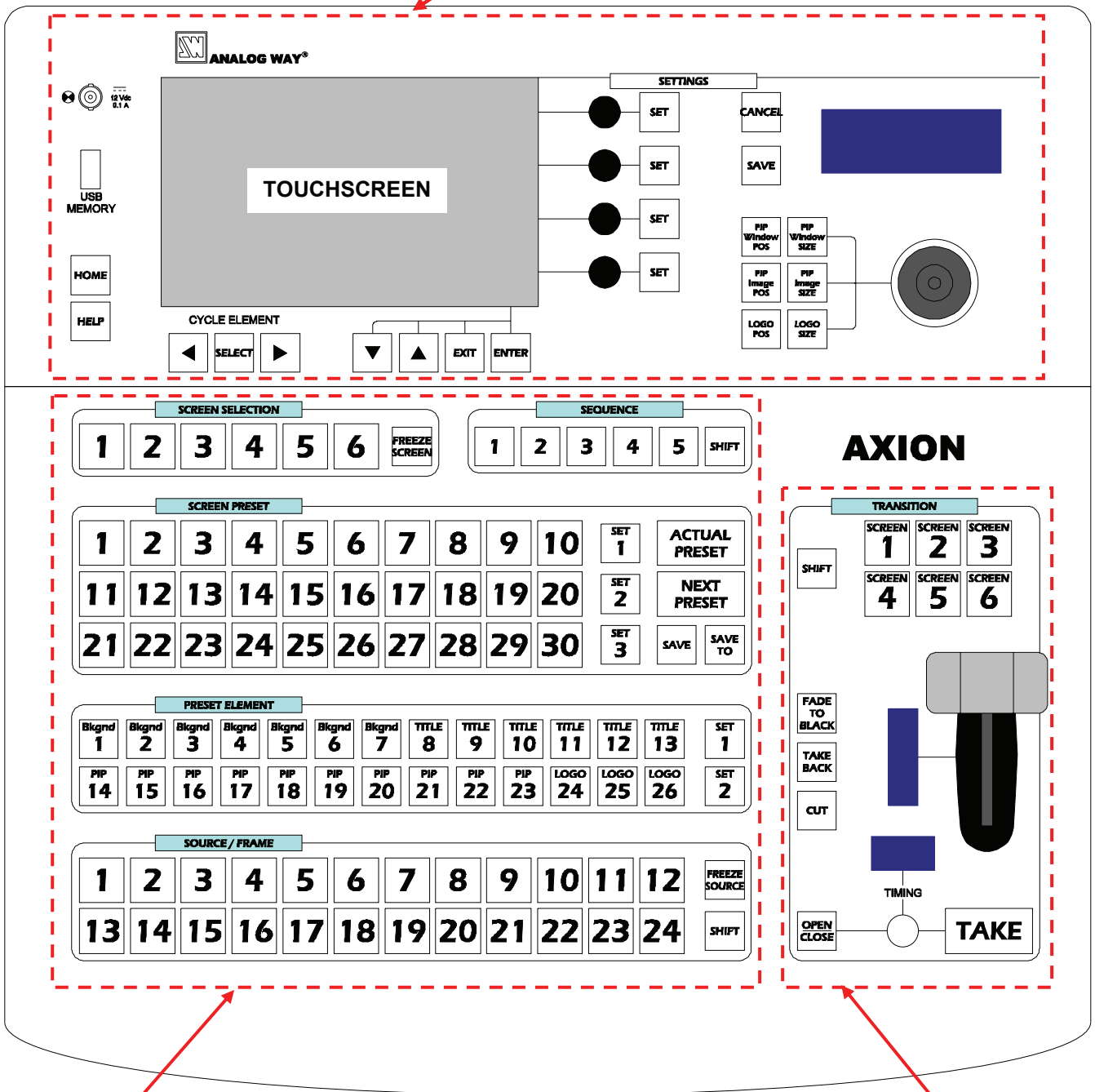
IMPORTANT: Please read all the safety instructions (pages 3 to 5) before starting.

- Table Top Mounting: The device can be used directly on a table: the unit is equipped with 4 plastic feet.

- IMPORTANT:**
- **The openings in the rear and side panels are for cooling. Do not cover these openings.**
 - **Be sure that no weight is added to the device in excess of 2 kg (4.4 lbs.).**
 - **The maximum ambient operating temperature must not exceed 40°C (104°F).**
 - **The rack and all mounted equipment in it must be reliably grounded to national and local electrical codes.**

1-4. FRONT PANEL DESCRIPTION

CONTROL AREA



EDIT AREA

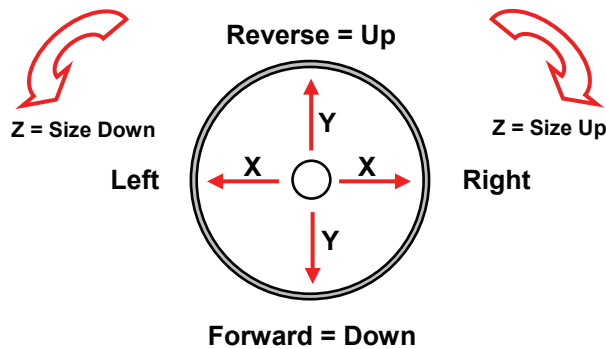
TRANSITION (LIVE) AREA



1-4. FRONT PANEL DESCRIPTION (continued)

• CONTROL AREA

- ⊗ 12 Vdc 0.1A:** BNC plug for portable lamp.
- USB MEMORY:** USB plug for USB memory drive connection. Use for update and parameters back up copy.
- HOME:** Displays the home menu.
- HELP:** Display the help menu.
- ◀, ▶, ▼, ▶:** Moving arrows.
- SELECT:**
- EXIT:** Return to the previous menu.
- ENTER:** Selection menu and item validation.
- JOYSTICK:** Three axis joystick (X, Y & Z).



- SETTINGS:** Adjustments and settings selection buttons.
- Knobs & SET buttons:** Touchscreen parameters controls.
- CANCEL:**
- SAVE:**
- PIP window POS:** Position adjustment of the PIP window (controlled with the joystick)
 - Horizontal position: X axis.
 - Vertical position: Y axis.
 - Horizontal & vertical size: Z axis.
- PIP window size:** Size adjustment of the PIP window (controlled with the joystick).
 - Horizontal size: X axis.
 - Vertical size: Y axis.
 - Horizontal & vertical size: Z axis.
- PIP image POS:** Position adjustment of the PIP image (controlled with the joystick).
 - Horizontal position: X axis.
 - Vertical position: Y axis.
 - Horizontal & vertical size: Z axis.
- PIP image SIZE:** Size adjustment of the PIP image (controlled with the joystick).
 - Horizontal size: X axis.
 - Vertical size: Y axis.
 - Horizontal & vertical size: Z axis.
- LOGO POS:** Position adjustment of the logo (controlled with the joystick).
 - Horizontal position: X axis.
 - Vertical position: Y axis.
- LOGO SIZE:**

1-4. FRONT PANEL DESCRIPTION (continued)**• EDIT AREA**

SCREEN SELECTION: Row of screen selection buttons.

NOTE: Axion can control up to 6 screens. A screen is a projection area and can handle several machines and video projector (notably in Softedge mode configuration).

1 to 6: Screen selection.

FREEZE SCREEN: Freeze the selected screen configuration.

SEQUENCE:

1 to 5:

SHIFT:

SCREEN PRESET: Row of screen preset buttons.

NOTE: A screen preset is a screen status at one time and is made of Elements.

1 to 30: Screen preset selection.

ACTUAL PRESET: Actual screen configuration.

NEXT PRESET: Next screen configuration.

SET 1, SET 2, SET 3: 3 Sets of screen preset allowing obtaining 90 screen presets.

PRESET ELEMENT: Row of preset element buttons.

NOTE: Elements are: Backgrounds, Transition type, Logos, Effect duration, Titling, PIP (picture in picture).

1 to 7: Background element selection.

8 to 13: Title element selection.

14 to 23: PIP element selection.

24 to 26: Logo element selection.

SET 1, SET 2: 2 Sets of screen preset allowing obtaining 52 screen presets.

SOURCE / FRAME: Row of source / frame selection buttons.

NOTE: Source selection for Elements creation.

1 to 24: Source / frame selection.

FREEZE SOURCE: Freeze the selected source.

• TRANSITION (LIVE) AREA

SCREEN (1 to 6): Screen selection button.

SHIFT:

FADE TO BLACK: Black screen selection with fade transition.

TAKE BACK: Return to the last displayed PRESET.

CUT: CUT transition.

OPEN/CLOSE:

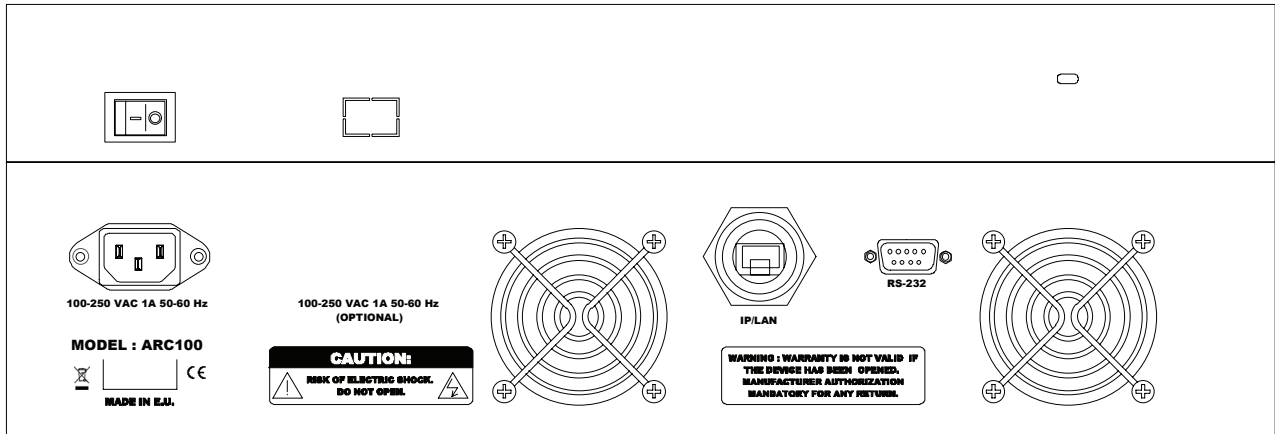
TAKE: Switching PRESET: allows switching the NEXT PRESET with the ACTUAL PRESET.

T-BAR: Manual switching PRESET: allows to manually switching the NEXT PRESET with the ACTUAL PRESET.

NOTE: Some transitions are not executable with the T-BAR, in this case, a cross is displayed on the blue screen beside the T-BAR.

1-5. REAR PANEL DESCRIPTION

• MODEL: ARC100



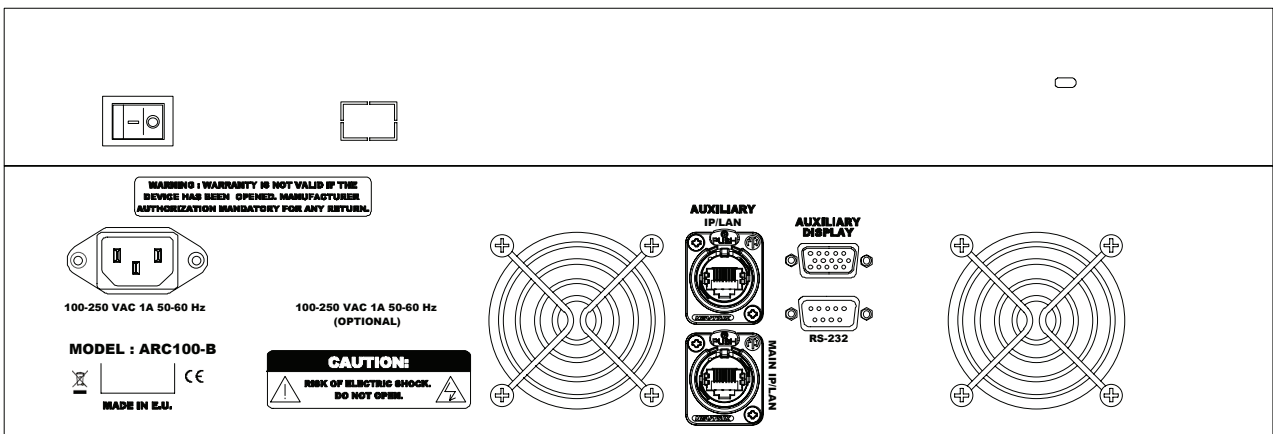
100-240 Vac 3A 50-60Hz: IEC standard power connector.

O / I: Power switch (O = OFF, I = ON)

IP/LAN: LAN communication port on a RJ45 connector.

RS-232: RS-232 communication port.

• MODEL: ARC100-B



100-240 Vac 3A 50-60Hz: IEC standard power connector.

O / I: Power switch (O = OFF, I = ON)

MAIN IP/LAN: Main LAN communication port on a RJ45 connector.

AUXILIARY IP/LAN: Auxiliary LAN communication port on a RJ45 connector.

RS-232: RS-232 communication port.

AUXILIARY DISPLAY: Auxiliary display output on HD15 connector.

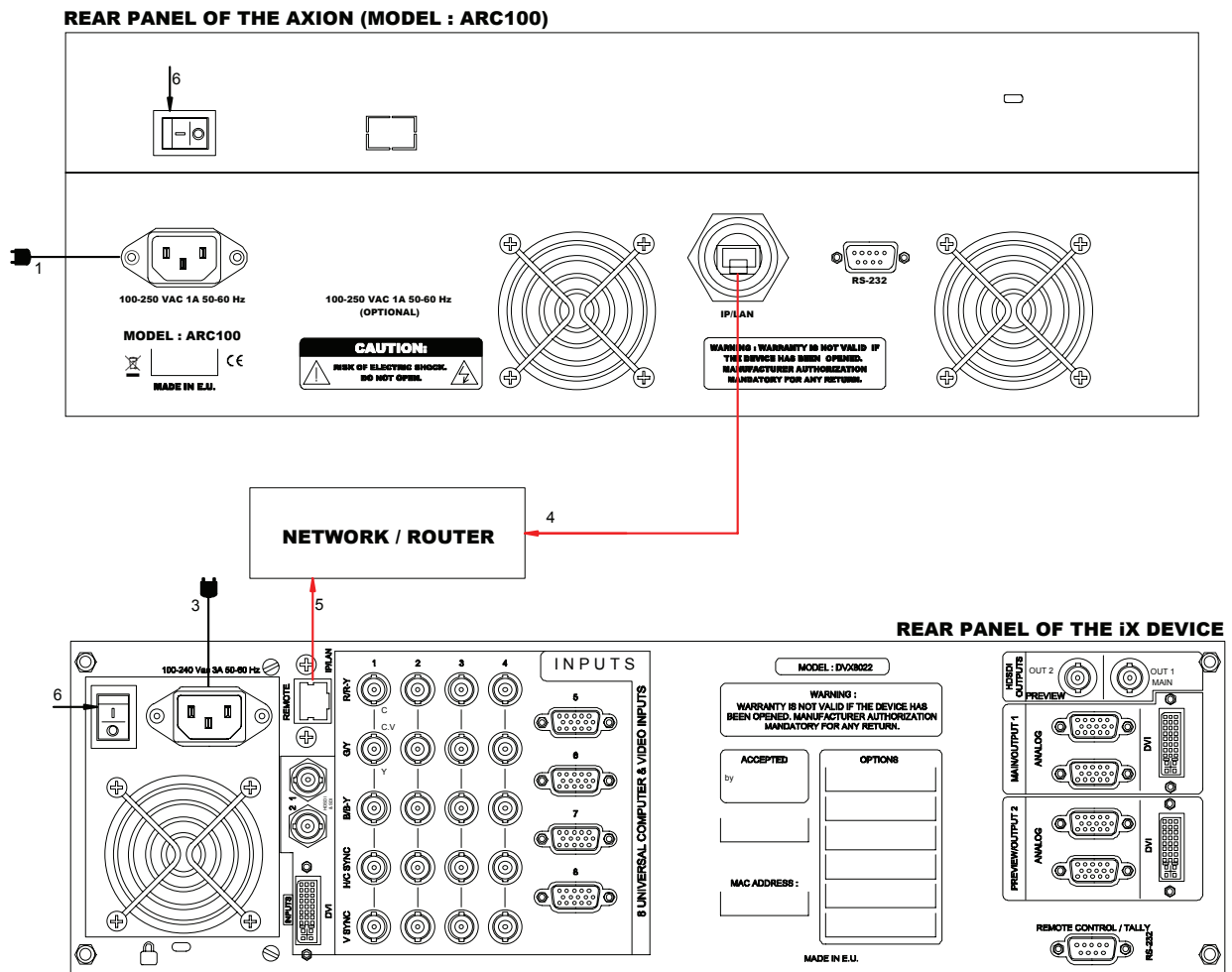
CHAPTER 2 : STARTING

2-1. CONNECTIONS (MODEL ARC100)

NOTE: Turn OFF all of your equipment before connecting.

- ① Connect the AC power supply cord to the AXION and to an AC power outlet.
- ② Connect your sources and display devices to the iX devices as describe in the iX Device User's Manual.
- ③ Connect the AC power supply cord to the iX devices and to an AC power outlet.
- ④ Connect the AXION to your network / router according to your installation (IP/LAN connector).
- ⑤ Connect the iX devices to your network / router according to your installation (IP/LAN connector).
- ⑥ Turn ON the iX device and the AXION (rear panel switch). Then turn ON all your input sources and then your display devices.

• Connection diagram (model ARC100)

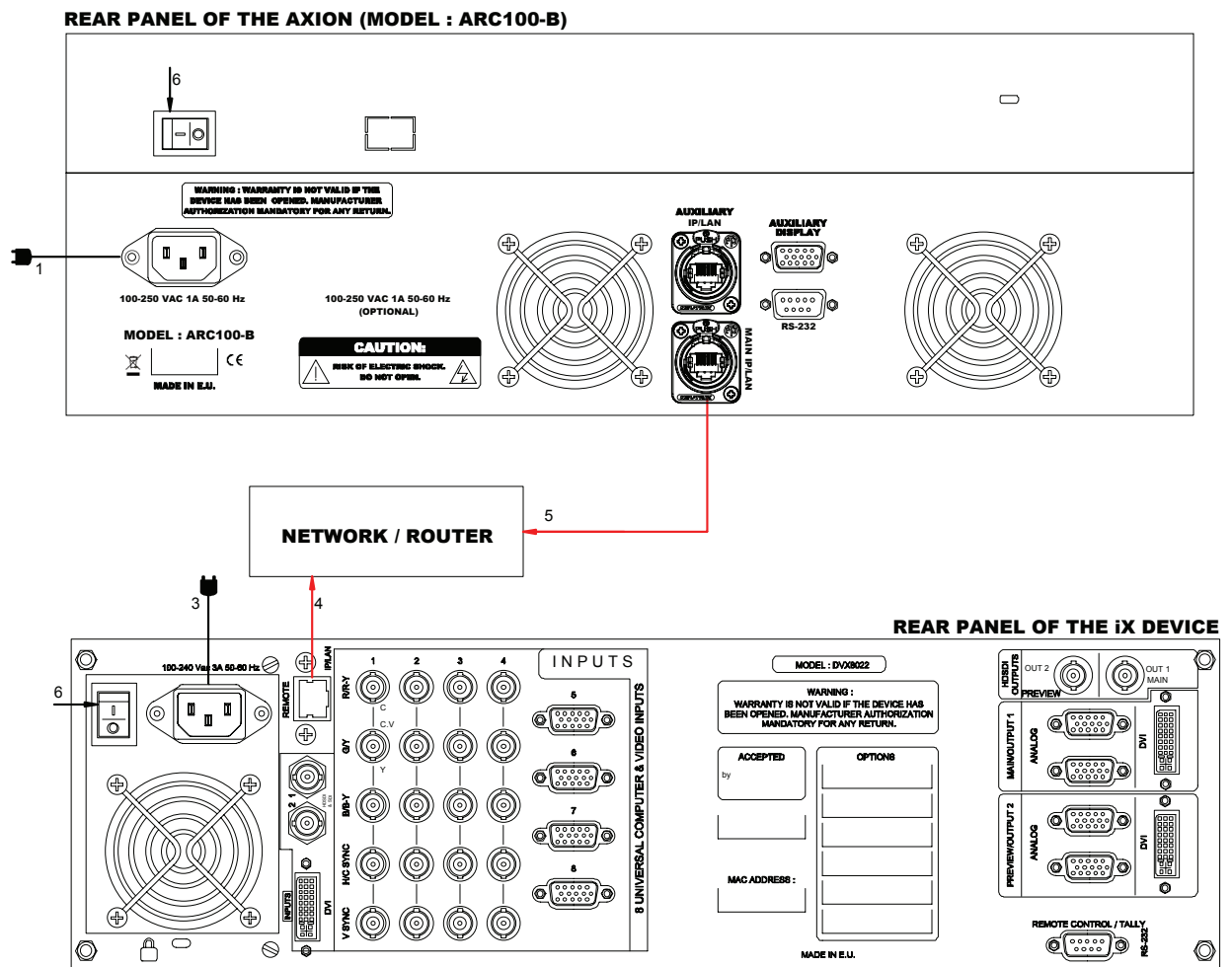


2-2. CONNECTIONS (MODEL ARC100-B)

NOTE: Turn OFF all of your equipment before connecting.

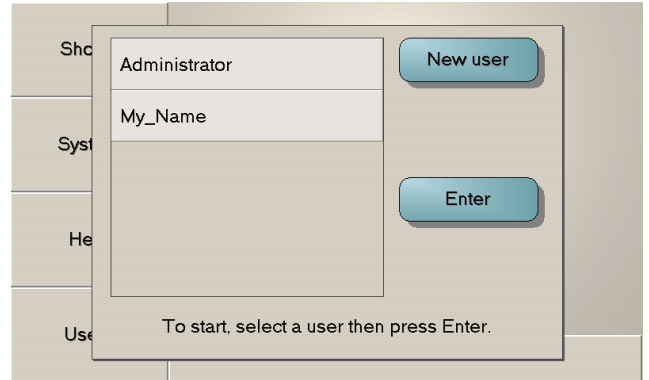
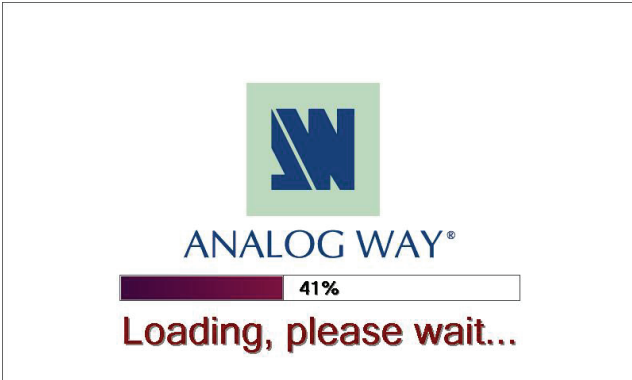
- ① Connect the AC power supply cord to the AXION and to an AC power outlet.
- ② Connect your sources and display devices to the iX devices as describe in the iX Device User's Manual.
- ③ Connect the AC power supply cord to the iX devices and to an AC power outlet.
- ④ Connect the iX devices to your network / router according to your installation (IP/LAN connector).
- ⑤ Connect the AXION to your network / router according to your installation (MAIN IP/LAN connector).
- ⑥ Turn ON the iX device and the AXION (rear panel switch). Then turn ON all your input sources and then your display devices.

• **Connection diagram (model ARC100-B)**

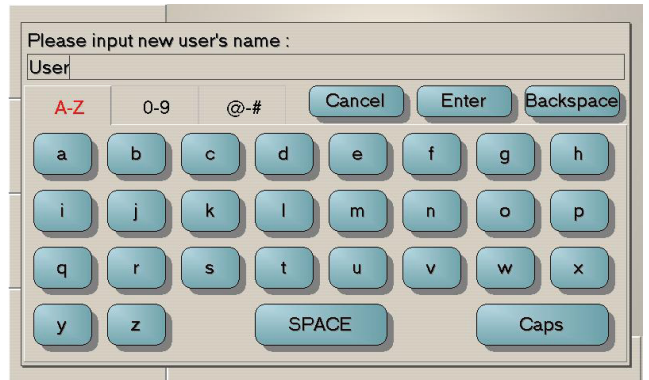
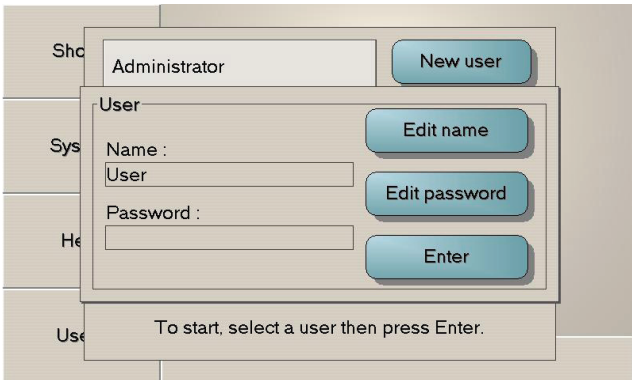


2-3. SHOW SETUP

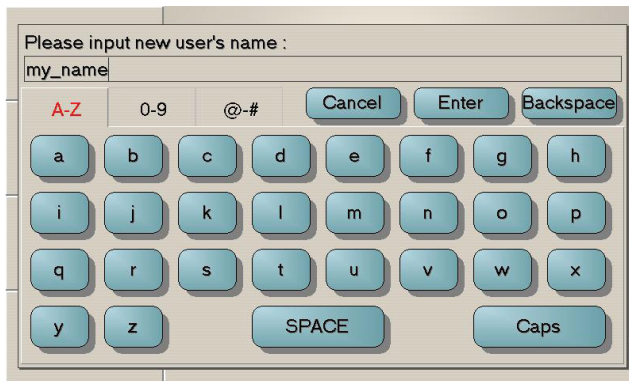
- Around one minute after switching ON the AXION, the touchscreen displays the User selection screen. Create a new user by pressing the **New User** touchscreen button.



- Press the **Edit name** touchscreen button to open the touchscreen keyboard...

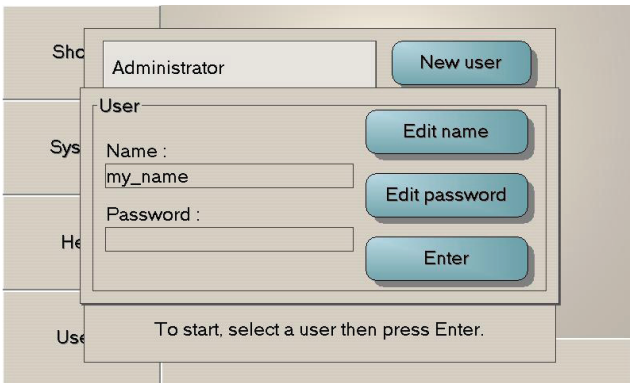


... And enter a name: my_name in the example below. Then press ENTER on the touchscreen keyboard.



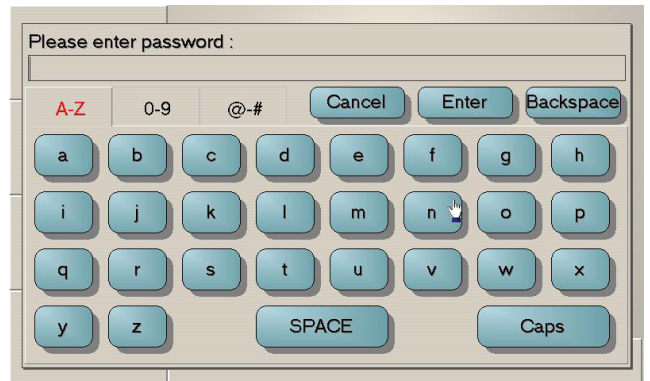
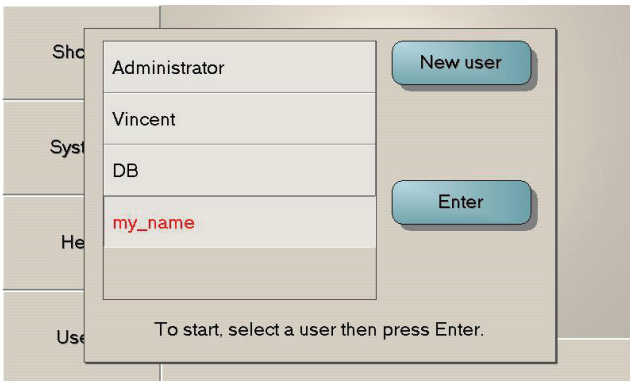
2-3. SHOW SETUP (continued)

- If needed, you can set a password, press **Edit password** to display the touchscreen keyboard...



.... Then choose your password and press **Enter** on the touchscreen keyboard.

- Select your User account and press **Enter**. Type your password and press **Enter** to validate the creation of your User name.



....The main window is thus displayed.

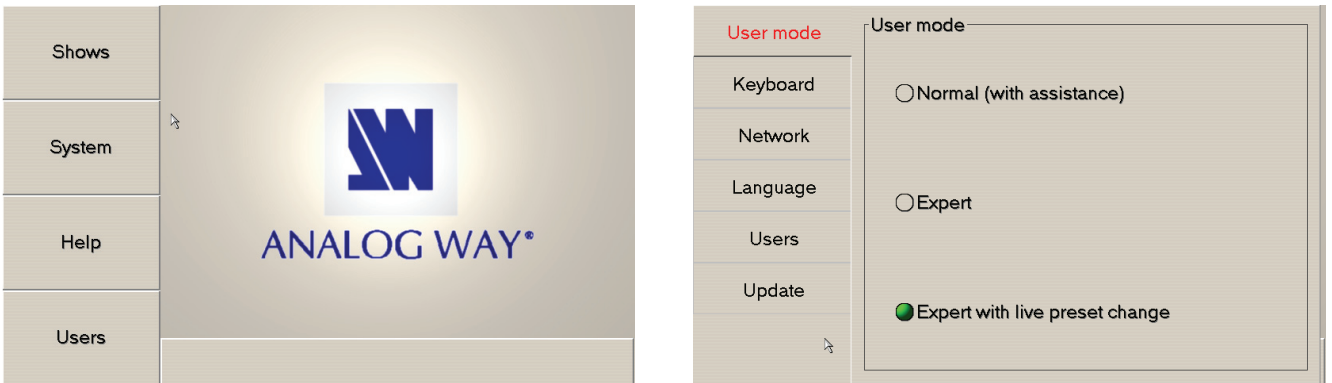


- Shows button:** Allows configuring a show.
- System button:** Allows configuring the AXION.
- Help button:** Allows displaying the Help menu.
- Users button:** Allows displaying the User's selection menu.

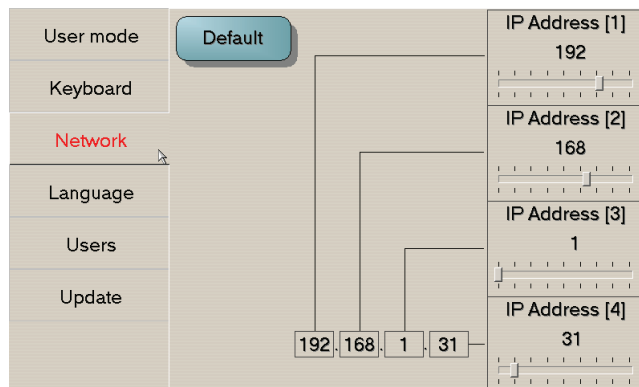


2-4. SYSTEM CONFIGURATION

- Press the **System** touchscreen button to display the System window...



...then press the **Network** touchscreen button and set the AXION IP address with the knobs on the right of the touchscreen.



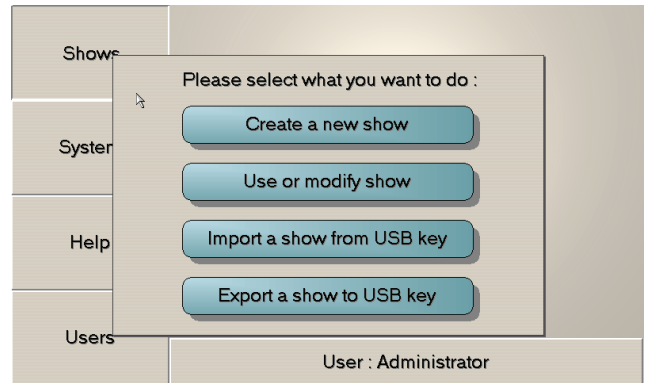
- Press the Axion's ENTER button. The AXION displays the following message: AXION needs to restart to store the new IP address as default.

YES: the AXION will restart and keep the IP address as default.

NO: the AXION will keep this IP address for this session only.

2-5. HOW TO SET A DEVICE TO A SCREEN

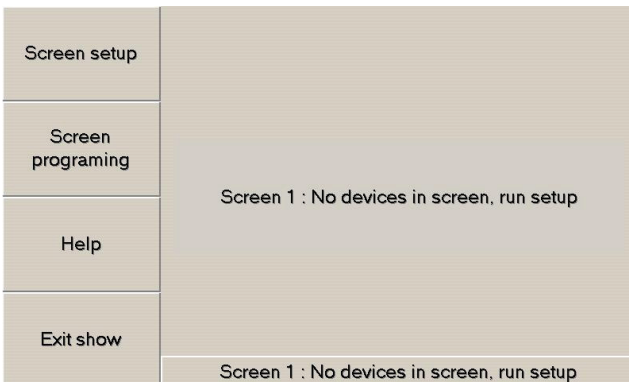
- Press the **Shows** touchscreen button to display the Show window.



- Press **Create a new show** and type a new show name for example show#1. Then press the **Enter** touchscreen button.

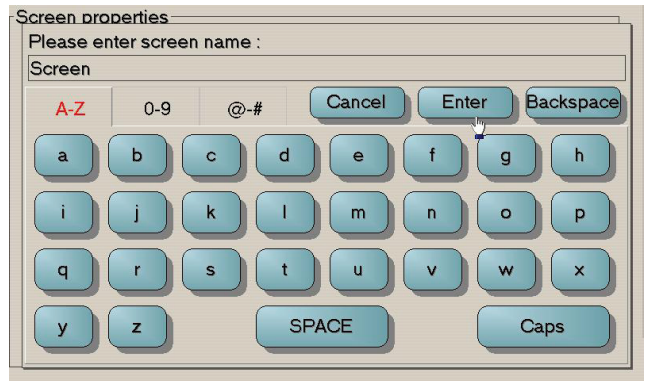


- The Screen window is thus displayed...

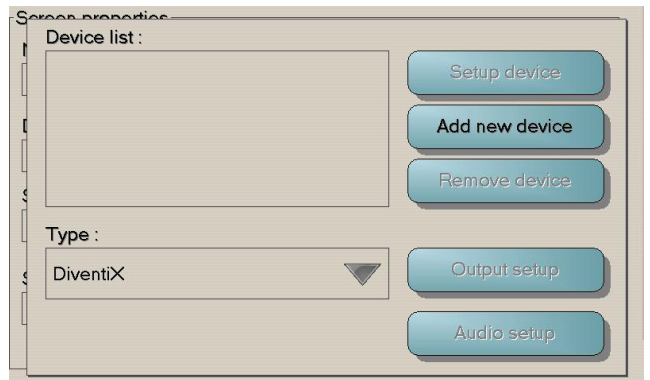


2-5. HOW TO SET A DEVICE TO A SCREEN (continued)

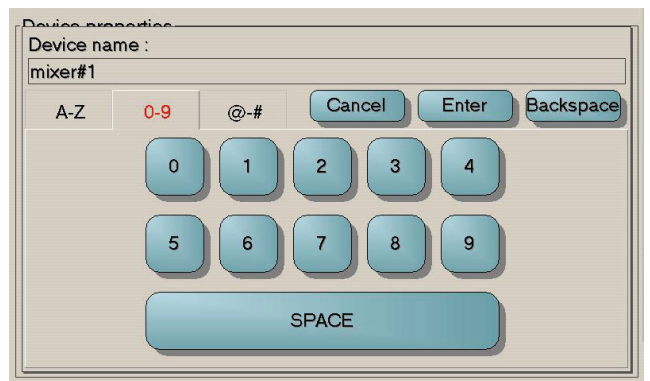
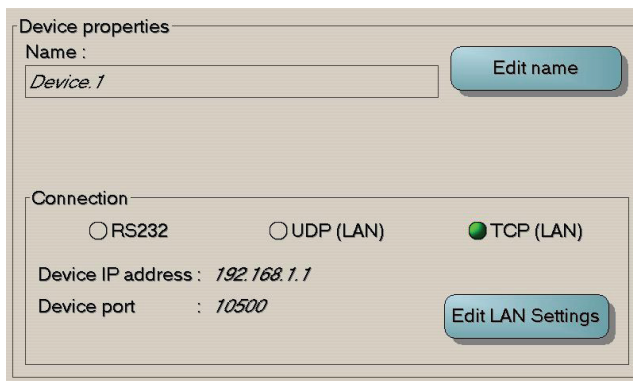
- Add a device to your screen: Press **Screen setup** to open the Screen properties window. Then press **Edit name** and type a screen name (for example Screen 1). Then press **Enter**.



- Press **Edit devices** to add a device to your screen. Then select **Add new device** and select a device model in the **Type** field.

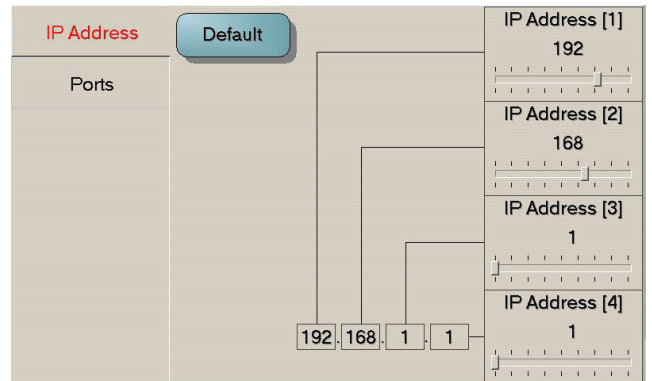
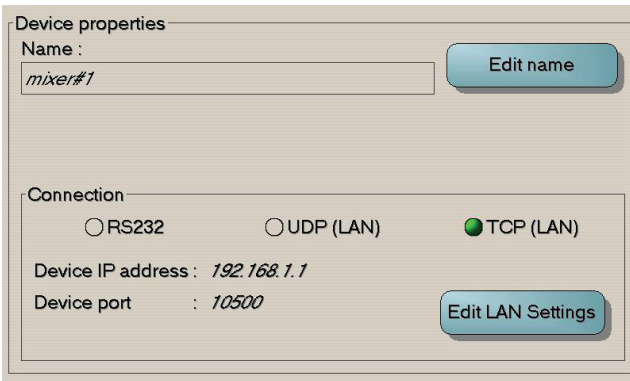


- Then press **Edit name** to rename your device, for example mixer#1 and press **Enter**.

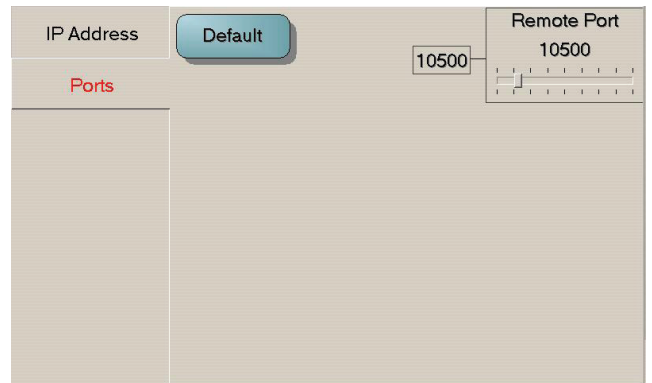
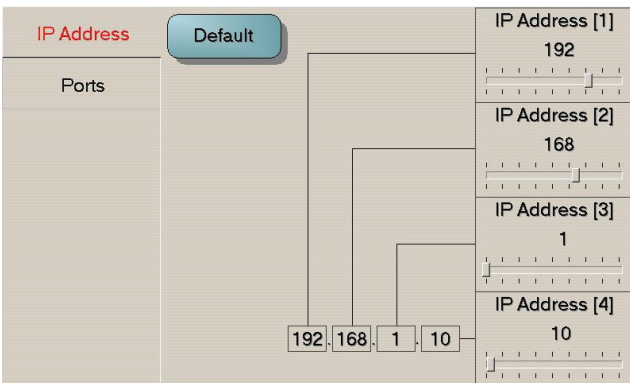


2-5. HOW TO SET A DEVICE TO A SCREEN (continued)

- Select the Connection type (RS232, UDP or TCP) according to your installation. Then press **Edit LAN Settings** to open the IP parameters window.



- Select the IP Address corresponding to your device. The Device IP address is available in **Control menu > LAN setup**. Verify in the Device that the LAN port is activate (**Control menu > RS232/LAN Port > LAN**).

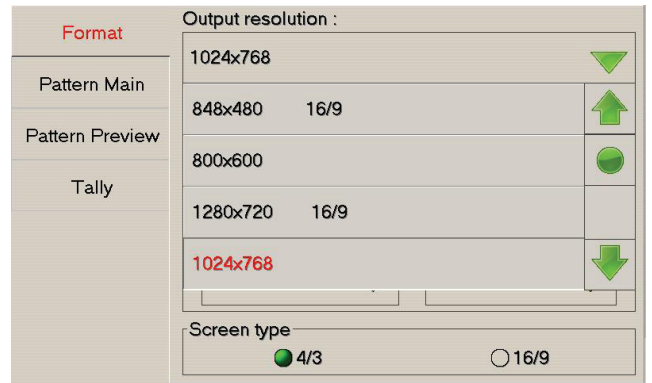
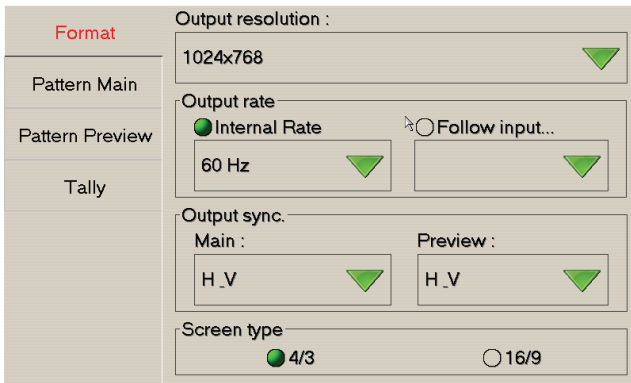


- Press several time on the Axion's ENTER button to return to the **Device list** window. Then configure the output. Press **Output setup** to open the Output adjustment window.



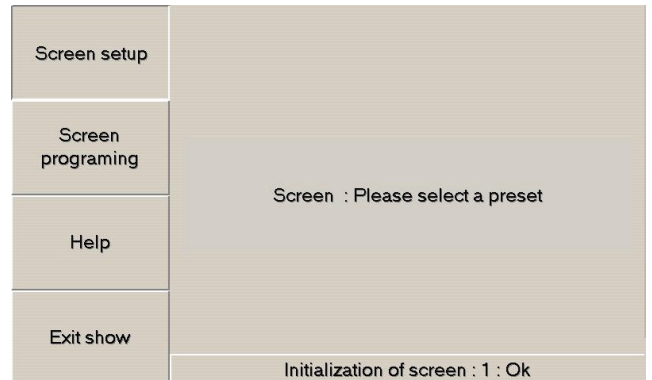
2-5. HOW TO SET A DEVICE TO A SCREEN (continued)

- Press on the **Output resolution** arrow to open the output list... Select the needed resolution validate with ENTER and select the others needed adjustment....



- Then press several times on the Axion's ENTER button...

...to return to the Screen window.



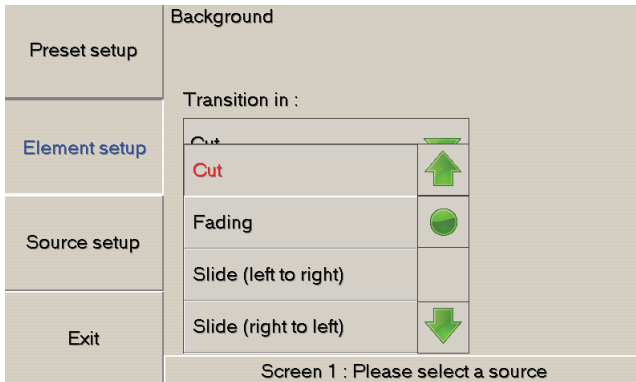
2-6. PRESET SETUP

NOTE: Before beginning, open an existing show or create a new one. Wait for the initialization. The touchscreen displays “Success: all devices connected are initialized”. Then...

- ① Select a SCREEN with the SCREEN SELECTION buttons.
- ② Select a PRESET with the SCREEN PRESET buttons.

NOTE: With the touchscreen display you can give a convenient name to your preset.

- ③ Add an element on the selected PRESET: Select a **Background** button on the PRESET ELEMENT row. The touchscreen display the transition window: select a transition type with the touchscreen and configure the needed parameters.



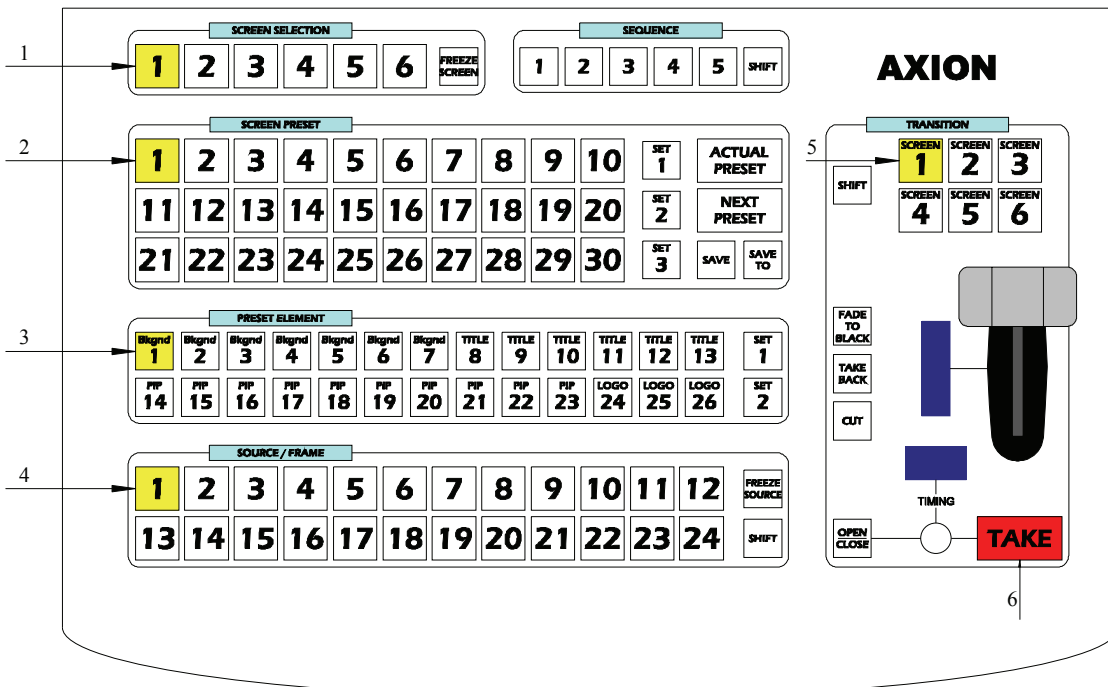
Information about the color of the buttons:

- Screen, Preset, Elements & Source/Frame buttons:
 - Bright Yellow button = Selected button
 - Dim Yellow button = Programmed button.
 - Green button = Selectable button
- Titling bars:
 - The blue titling bar blinks when an action in this area is required.
- Take button:
 - Bright Red: A preset is ready to commute.
 - Blinking: Transition in progress.
- Actual preset / Next preset button:
 - Bright Red: Preset available (ready for a transition).

- ④ Select a source with the SOURCE/FRAME buttons. The PRESET is now ready. The NEXT PRESET button is turn ON.

NOTE: You can add many elements on each preset. Renew the steps ③ & ④ for adding others elements like a PIP or a TITLE or a LOGO.

- ⑤ In the transition section: select the corresponding SCREEN button.
- ⑥ Then press TAKE (or activate the T-BAR) to execute the PRESET.



NOTE: Renew the steps ②, ③, ④ to create others presets. You can create up to 90 presets thanks to the SET 1, SET 2 & SET 3 buttons. **Wheeze:** In multi-screens show, you can for example use the SET 1 of PRESET for the SCREEN 1, the SET 2 of PRESET to the SCREEN 2, etc...

NOTE: Some transitions are not executable with the T-BAR, in this case, a cross is displayed on the blue screen beside the T-BAR.



CHAPTER 3 : HOW TO SET A SOFTEDGE SCREEN WITH TWO DEVICES

3-1. SCREEN SET UP

- Log on and press the **Shows** touchscreen button...



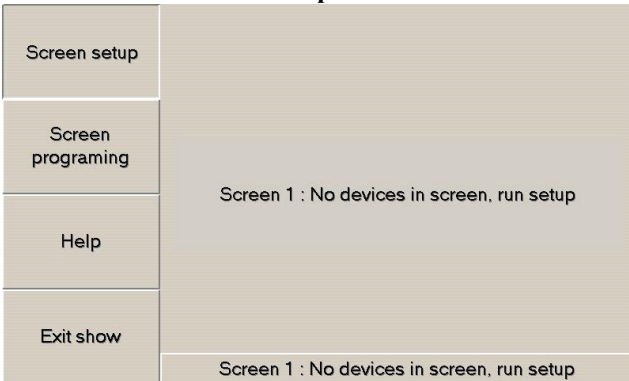
...then press **Create a new show**.



- Type the show's name (i.e: Show#2) and press **Enter**.



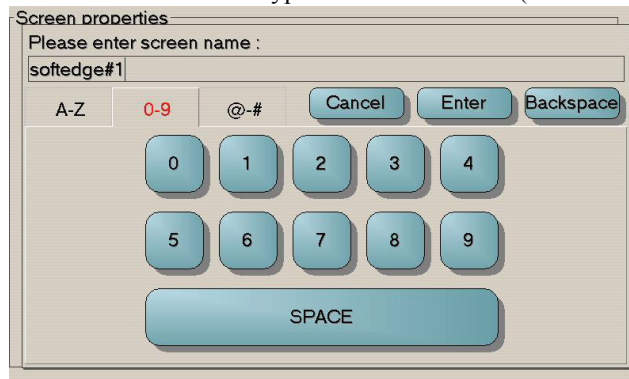
- Then Press the **Screen setup** touchscreen button...



...the **Screen properties** window is thus displayed.



- Press **Edit name** and type the Screen's name (i.e: softedge#1) then press **Enter**.

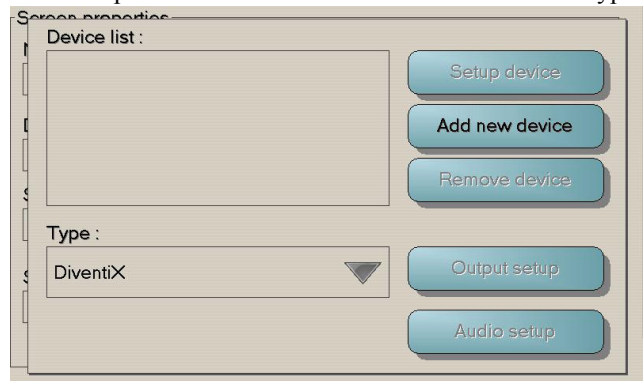


3-1. SCREEN SET UP (continued)

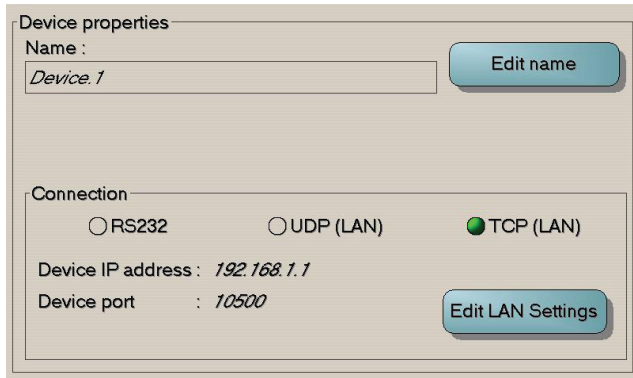
- Press **Edit devices** to add the 2 devices to your Screen.



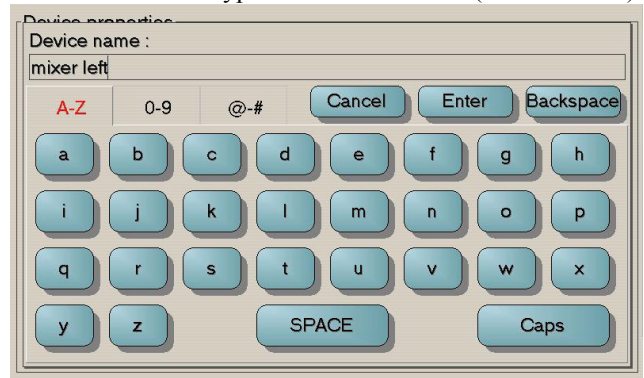
...then press **Add new device** and select the device type.



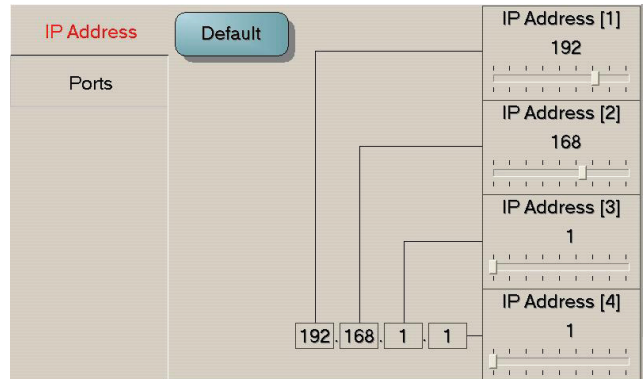
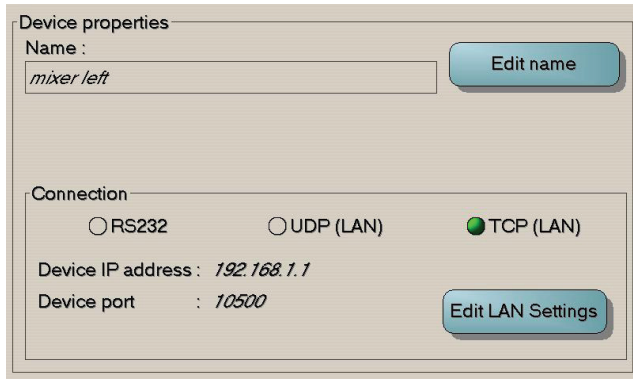
- Press the **Edit name** button...



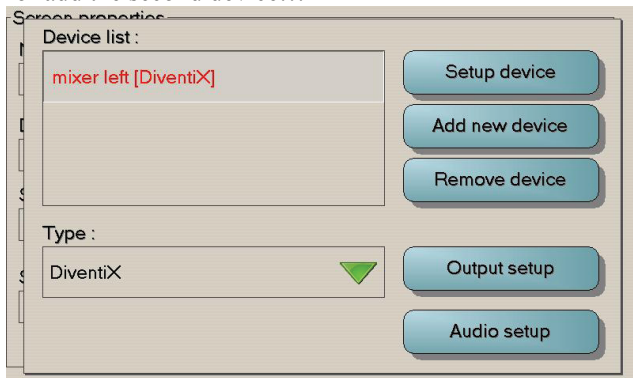
...then type the Device's name (i.e: mixer left).



- Press **ENTER** to return to the **Device properties** window, then press **Edit LAN Settings** and configure the Device connection...



- Press the **ENTER** Axion's button several time up to display the **Device list** window then renew the same last operations for add the second device...



3-2. PROJECTORS CONFIGURATION

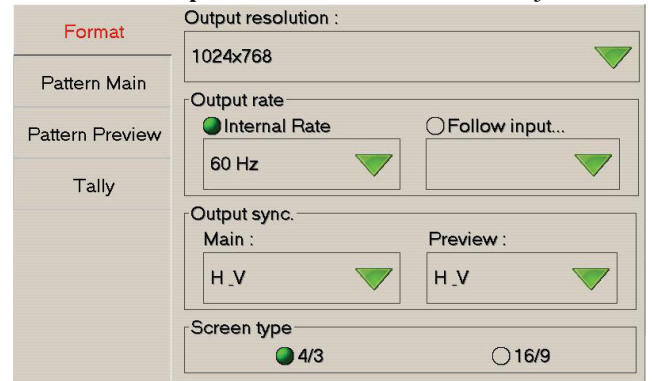
IMPORTANT: Before doing the following adjustments, make sure the 2 projectors are the same (mark, model and type) with same lenses. The projector matrices should be imperatively at the same resolution. The parameters of the 2 projectors should be homogenous (color, gamma, lamp lifetime...). The screen projection should be vertical and perpendicular to the projectors to avoid geometric distortion like bow or keystone. Use only mechanical lens shifts and avoid using them in their maximal values. Don't use wide-angle lenses.

- Connect your Computer & Video sources to the inputs of the 2 Di-VentiX and connect the 2 projectors to the MAIN outputs.

- Select a device and press **Output setup**

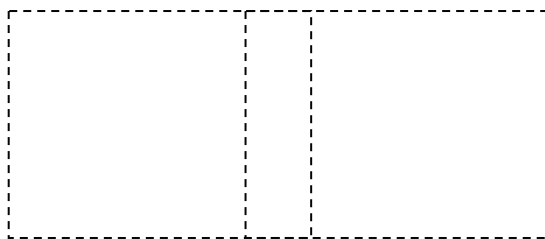


... then set the **Output resolution** and the others adjustments.

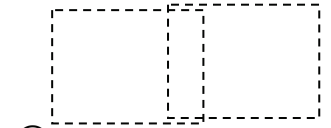


- Press **Pattern Main** and select **Centering** to display the centering pattern. Renew the last steps for the others devices.
- Adjust the test pattern in full screen (matrix) of each projector with the auto-adjust, position or size adjustments of the projector. Then align mechanically the projectors to have a covering area between 10 and 20% (of each matrix) and to have the test pattern well aligned one on top of the other. As required, you can use the burst pattern available in the output section to adjust your projector.

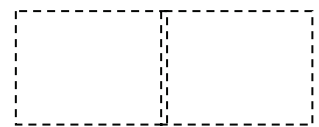
Example: Test pattern in horizontal SE configuration.



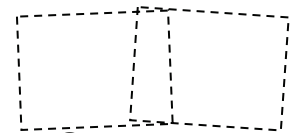
☺ Projectors well aligned.



☹ Top and bottom not aligned.



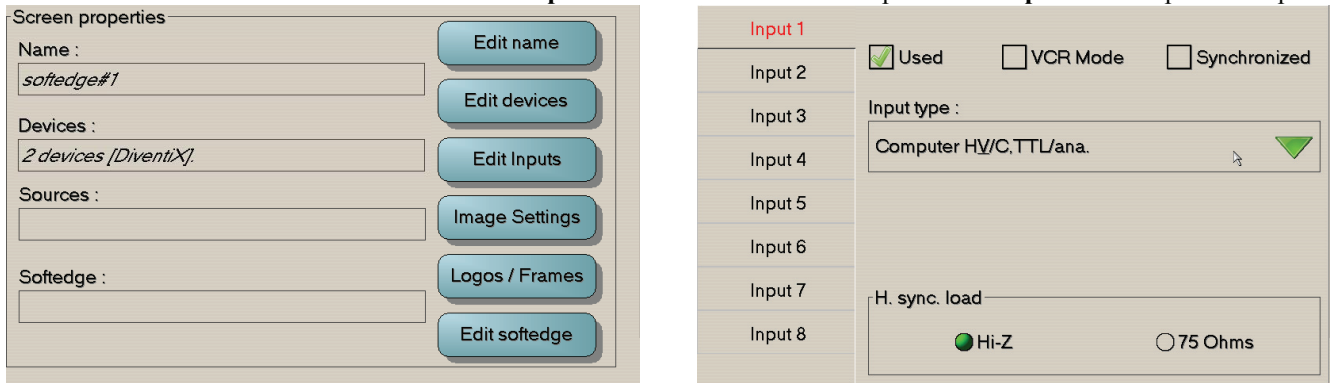
☹ Too small covering area.



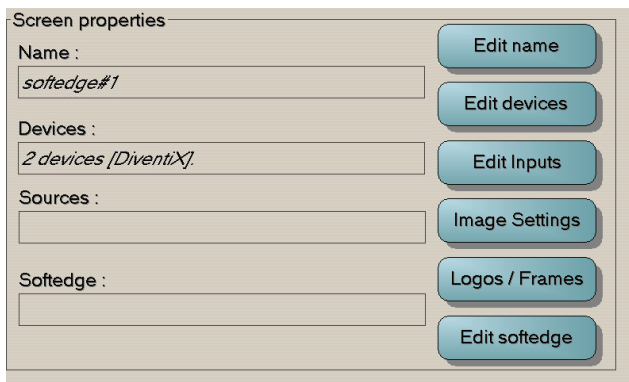
☹ Edges not paralleled.

3-2. PROJECTORS CONFIGURATION (continued)

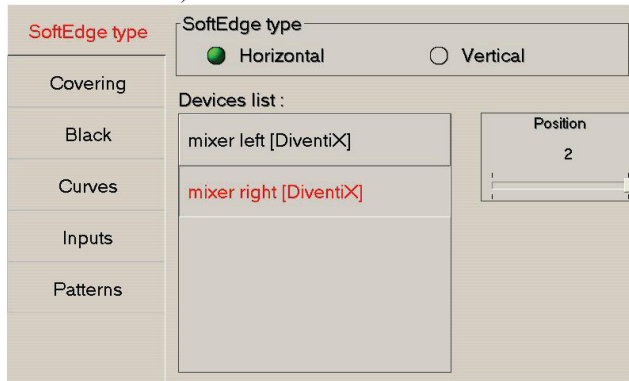
- Press ENTER button to return to the **Screen Properties** window... ..then press **Edit Input** and set up all the inputs.



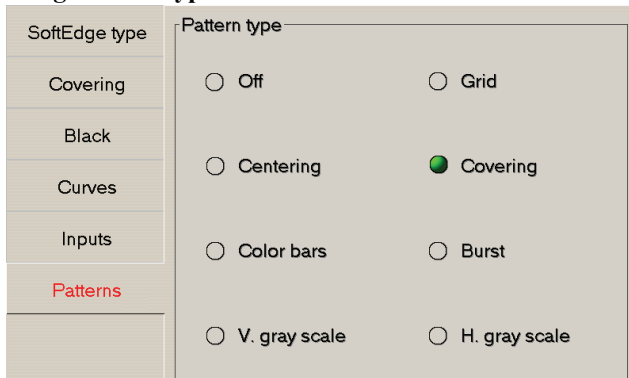
- Press ENTER Axion’s button to come back to the **Screen properties** window. Then Press **Edit softedge** to display the softedge window.



- Set the Softedge type (**Horizontal** or **Vertical**) and device’s **Position**.

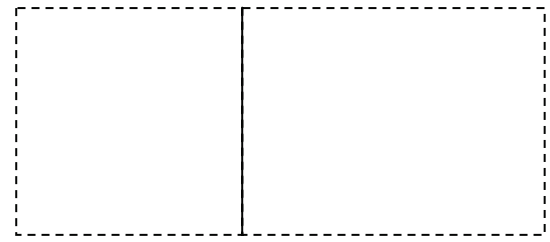
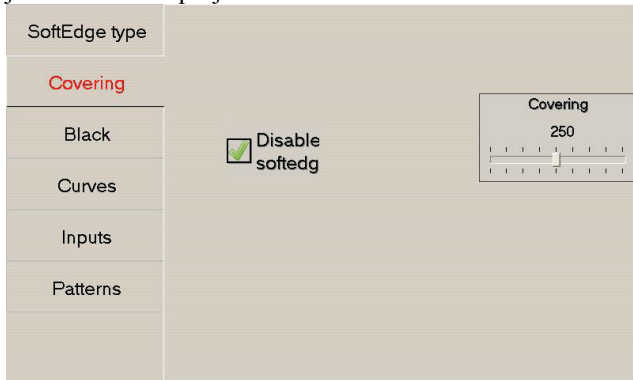


- Press **Patterns** and select **Covering Pattern** type.



3-2. PROJECTORS CONFIGURATION (continued)

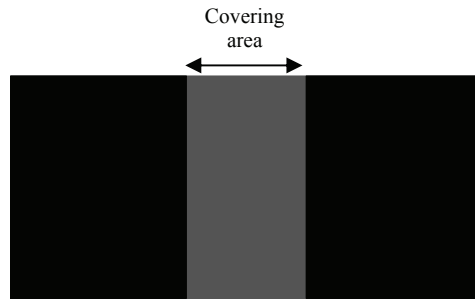
- Press the **Covering** touchscreen button and set the **Covering** adjustment so that the test pattern overlaps each other at the junctions of the projectors.



Example: Test pattern in horizontal SE configuration.

NOTE: Verify that the **Softedge** is disabling.

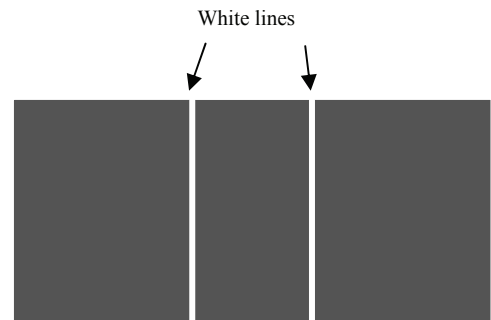
- Press the **Patterns** touchscreen button and turn OFF the test pattern: The covering area will appear brighter than the non-covering areas.



Projected image (before black level adjustment)

- Press the **Black** touchscreen button to display the Black functions.

-First, you need to adjust the 2 non-covering areas to obtain a uniform dark grey on the entire screen: Select a device and press **ALL** (to adjust the 3 colors in the same time) and adjust the Black level. As required, you can also separately adjust the colors of each projector with the **Red (R)**, **Green (G)** & **Bleu (B)** adjustments. Two white lines will appear at the junctions of the covering areas.



Projected image (after black level adjustment)

-Then Use the **Black start** (mixer right) and **Black end** (mixer left) functions to remove the 2 white lines. A uniform dark grey image is then displayed.

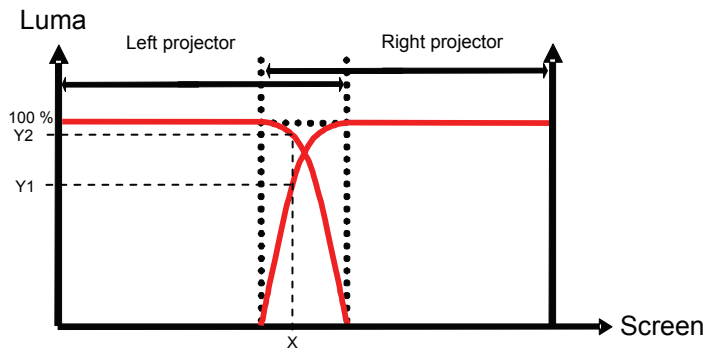


Uniform projected image.

3-2. PROJECTORS CONFIGURATION (continued)

• **Softedge curve explanations:**

The operation consist of attenuate progressively the light diffused of one projector and in the same time increase symmetrically the light of the other one. Thus, at any point (X) of the covering area, the sum of light (Y1+Y2) provided by each projector must be equal to the light that would be provided by one projector alone. The luminance curves of each projector are represented as follow:



On the touchpanel screen we represent the curve of one projector only: the device automatically calculate the inverted curve for the other projector of the covering area.

• **Softedge curve adjustments:**

Display your background source or display the grey scale pattern (horizontal grey scale pattern for horizontal softedge and vertical grey scale pattern for vertical softedge) available in the **Patterns** menu.

-Press the **Covering** touchscreen button, then **Enable the Softedge** (press on the **Disable Softedge** check box) to activate the attenuation. The default value of the softedge curves is thus applied. The covering area may appear brighter or darker than the other areas of the screen.

-Adjust the Softedge Curve in order to have a uniform image: Move the position of the 2 points of the curve with the knobs (or press and drag directly the points on the **Bezier** curve). Then press **Send Curve** to display the adjustments.

SoftEdge type	mixer left [DiventiX]	Control Point 1 X	26
Covering		Control Point 1 Y	129
Black		Control Point 2 X	128
Curves		Control Point 2 Y	232
Inputs			
Patterns			
Send Curve			
		26:129	128:232

SoftEdge type	mixer left [DiventiX]	Control Point 1 X	9
Covering		Control Point 1 Y	136
Black		Control Point 2 X	91
Curves		Control Point 2 Y	251
Inputs			
Patterns			
Send Curve			
		9:136	91:251

• Then Press Axion’s ENTER button several times to return to the Show menu...

Screen properties	
Name :	<input type="text" value="softedge#1"/> Edit name
Devices :	<input type="text" value="2 devices [DiventiX]"/> Edit devices
Sources :	<input type="text"/> Logos / Frames
Softege :	<input type="text"/> Edit softedge

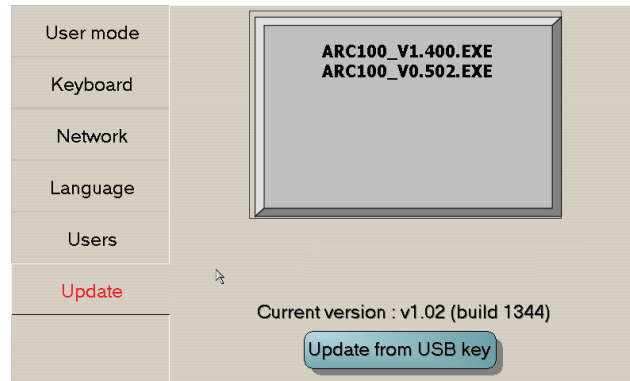
Screen setup	softedge#1 : Please select a preset
Screen programing	
Help	
Exit show	



CHAPTER 4 : UPDATING THE DEVICE

The AXION can be updated thanks a USB memory stick.

- ① Plug your USB memory drive to your computer, open the disk drive and create a folder named AXION.
- ② Go on our website (<http://www.analogway.com>) and download the last firmware version to the AXION folder of your USB memory drive.
- ③ Plug the USB memory drive to the USB port of the AXION (Top left of the front panel).
- ④ Press the System touchscreen button and press the Update button. Then select the needed version and press the Update from USB button. The update will start and will restart the AXION automatically in few minutes.



CHAPTER 5 : TECHNICAL SPECIFICATIONS

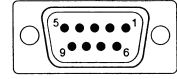
5-1. COMMUNICATION PORTS

• **RS-232 (on DB9 female connector)**

Data Rate: 9600 Bauds, 8 data bits, 1 stop bit, no parity bit, and no flow control.

Pin-out:

PIN #	FUNCTIONS
2	RXD (Receive data)
3	TXD (Transmit data)
5	GROUND (Gnd)



DB9 connector

• **LAN (on RJ45 connector)**

Protocol: TCP (Transmission Control Protocol) / UDP (User Datagram Protocol).

Data Rate: 10 / 100 Mbps.

5-2. ENVIRONMENTAL

Power Supply: Internal CE / UL / CSA / IEC 950 (50 W), universal, automatic.
Input: 100 VAC to 250 VAC; 50-60 Hz; I = 1 A Max.

Storage Temperature: - 25 °C to + 85 °C (- 13 °F to + 185 °F).

Operating temperature: 0 °C to + 50 °C (32 °F to 122 °F).

Hygrometry: 10% to 80% (without condensation).

Dimensions: D 395 x W 540 x H 125 mm / D 15.5" x W 21.3" x H 4.95".
Unit: D 265 x W 440 x H 110 mm / D 10.5" x W 17.5" x H 4.35".

Weight: 9 kg / 20 lbs.



WARRANTY

Analog Way warrants the product against any defects in materials and workmanship for a period of three years from the date of purchase (back to the factory).

In the event of any malfunction during the warranty period, Analog Way will, at its discretion, repair or replace the defective units, including free materials and labor.

This warranty does not apply if the product has been:

- improperly installed or abused,
- handled with improper care,
- used or stocked in abnormal conditions,
- modified, opened,
- damaged by fire, war, or Natural disasters (Acts of God).

In no way shall Analog Way be responsible for direct or indirect loss of profit or consequential damages resulting from any defect in this product.

In case of any problem, get the serial number of the unit, a description of the problem, and then call your authorized dealer.