



ANALOG WAY QMX-4K Multi Layer Video Mixer User Guide

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ANALOG WAY QMX-4K Multi-Layer Video Mixer



Product Information

The QuickMatrix 4K (Ref. QMX-4K) is a 4K60 multi-layer video mixer and seamless presentation switcher. It offers a range of capabilities and features an intuitive interface for easy show and event management.

The device supports Matrix mode, allowing for the management of 2 Screens with up to 2 Live layers per Screen. The Screens have layers including Background Image, Layer 1, Layer 2 (only in Split layers mode), and Foreground Layer.

What's in the Box

- User Manual and quick start guide
- USB Plug

Specifications

- Operating Mode: Matrix mode
- Screen Layers: Background Image, Layer 1, Layer 2, Foreground layer
- Front Panel Display: 480×272 color LCD screen

Product Usage Instructions

Quick Setup & Operation

Step 1: Connect Cables

- Before starting the device, connect the inputs, outputs, power, and network cables.

Step 2: Set Inputs

- Go to the Inputs menu to set each input. Configure labels, audio settings, crop, etc.

Step 3: Select Active Plug

- In the Inputs menu, select the active plug to use for Input 1 or Input 2.

Step 4: Set Screen Configuration

- Using the Web RCS 4 or the front panel controls, go to Preconfig > Screen Configuration. Select a Screen and

set the layer mode, enter a Screen label, set the Screen audio mode, or display a test pattern.

Step 5: Set Output Resolution

- Go to Outputs > Format and set an output resolution that matches the native resolution of the connected display.

For example Outputs > Output 1 > Format > Internal rate > UHD TV 2160p > 60 Hz.

Step 6: Import Images

- Go to Images > Import to transfer images from a USB key to the device image library.

Step 7: Assign Background and Foreground Images

- Go to Images > BKG/FRG Images and select a Screen. Assign images from the Library to the Image slots for Background Images and Foreground Images on each Screen.

Step 8: Configure Background Set

- Go to Preconfig > Background Set Configuration. Select a Screen and a Background Set. Set Crop mode and background content for the Background Image only.

Step 9: Create Timers

- Go to Multiviewer (MVW) > Timers to create Current Time, Countdown, or Stopwatch timer sources.

Step 10: Customize Multiviewer

- Go to MVW and select a Template or assign Inputs, Preview Screens, Program Screens, and Timers. Customize the widgets manually.

FAQ

Q: Where can I find the user manual and quick start guide?

- A: The user manual and quick start guide are available on the Analog Way website at www.analogway.com.

Q: How can I reset the device to default values?

- **A:** To reset the device to factory settings, go to Control > Reset to default values and select "Yes".

Q: Can the QuickMatrix 4K be operated from the front panel?

- **A:** Yes, the QuickMatrix 4K can be fully operated using the controls on the front panel.
- Thank you for choosing Analog Way and the QuickMatrix 4K. By following these simple steps, you will be able

to set up and use your 4K60 multi-layer video mixer and seamless presentation switcher within minutes.

- Discover the QuickMatrix 4K capabilities and intuitive interface while configuring your first show and unleash your creativity for a new experience in show and event management.

WHAT'S IN THE BOX

- 1 x QuickMatrix 4K (QMX-4K)
- 1 x Power supply cord
- 1 x Ethernet cross cable (for device control)
- 1 x Web-based Remote Control Software included and hosted on the device
- 1 x Rack mount kit (the parts are stowed in the packaging foam)
- 1 x User Manual (PDF version)*
- 1 x Quick start guide*
- User Manual and quick start guide are also available on www.analogway.com

Register your product

- Go on our website to register your product(s) and be notified about new firmware versions: <http://bit.ly/AW-Register>

CAUTION!

- Damage caused by improper rack mounting will not be covered under warranty.

QUICK SETUP & OPERATION

- The QuickMatrix 4K can be fully operated from the Web RCS or the front panel. This guide describes procedures using the controls of the front panel.

Reset the device to default values:

- You may wish to reset the unit to factory settings to get started. Use the scroll knob and go to Control > Reset to default values > Yes

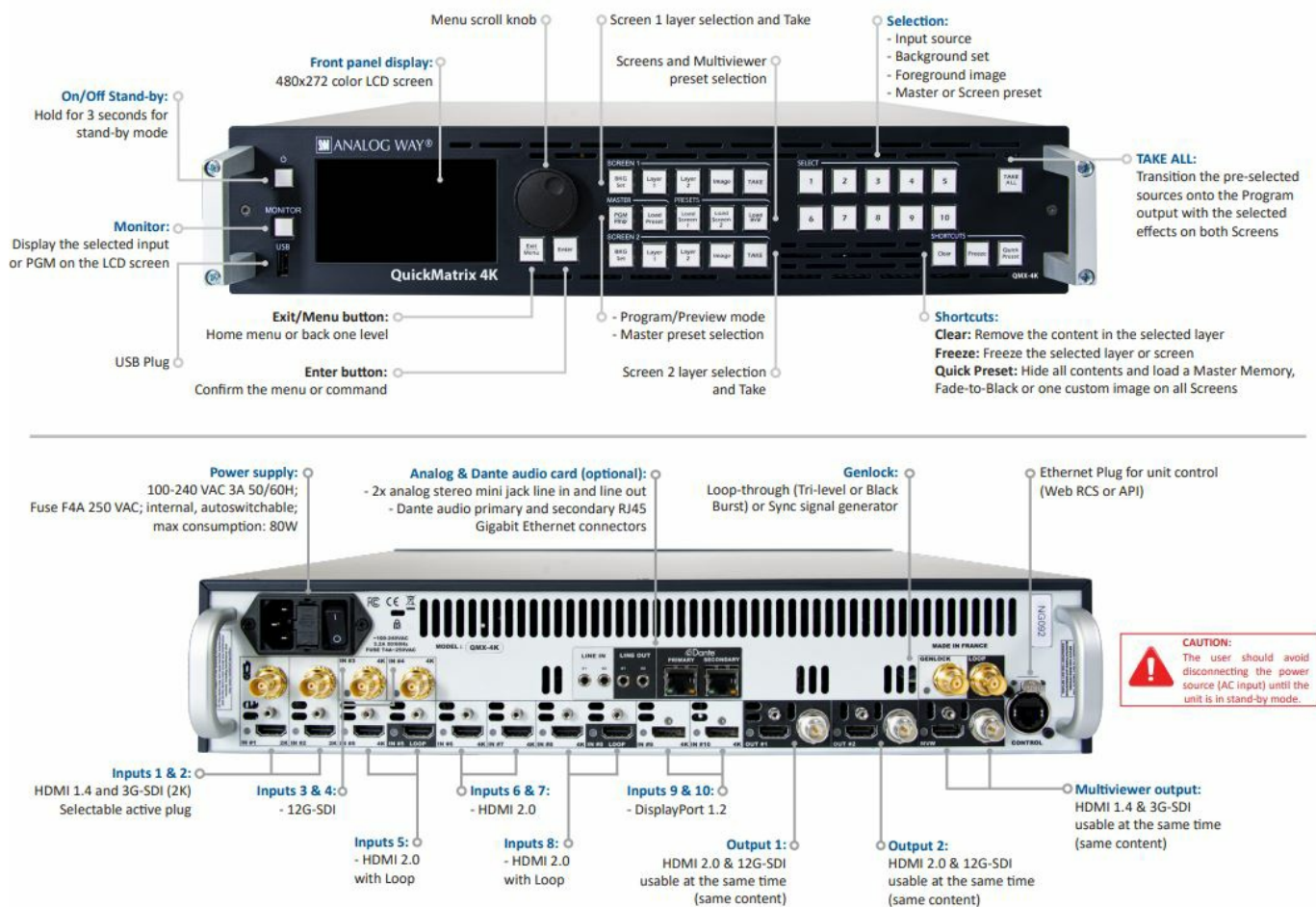
Operating mode:

- The QuickMatrix 4K can only be set to Matrix mode. Matrix mode manages 2 Screens with up to 2 Live layers per Screen.
- The Screens of the QuickMatrix 4K have layers called the background layer (unscalable), Layer 1, Layer 2 (only in Split layers mode), and Foreground layer.
- **IMPORTANT:** Simply selecting a menu item will not set it to that value. Be sure to press the ENTER button when setting the menu items.

Quick start:

1. Connect inputs, outputs, power, and network cables before starting the device.
2. Go to Inputs to set each input (label, audio, crop, etc.).
3. Go to Inputs > Input 1 (or 2) > Select Active Plug to select the active plug to use.
4. Go to Preconfig > Screen Configuration and select a Screen to set the layer mode, enter a Screen label, set the Screen audio mode, or display a test pattern.
5. Go to Outputs > Format and set an output resolution that matches the native resolution of the connected display. For example Outputs > Output 1 > Format > Internal rate > UHDTV 2160p > 60 Hz.
6. Go to Images > Import to transfer images from a USB key to the device image library.
7. Go to Images > BKG/FRG Images and select a Screen. Assign images of the Library to the Image slots for Background Images and Foreground Images in each Screen.
8. Go to Preconfig > Background Set Configuration then select a Screen and a Background Set. Set Crop mode and background content (Background Image only).
9. Go to Multiviewer (MVW) > Timers to create Current Time, Countdown, or Stopwatch timer sources.
10. Go to MVW and select a Template, or assign Inputs, Preview Screens, Program Screens, and Timers and place widgets manually.







QUICKMATRIX 4K – REF. QMX-4K / FRONT & REAR PANELS DESCRIPTION



OPERATION OVERVIEW

BUTTON COLOR GUIDE

- **Solid green:**  Preview mode is active

- Element or Function is available
- Layer or Aux element is empty
- Input is connected and available
- **Weak green:**  No Input connected
- **Blinking green:**  Screen layer or Load preset is currently selected and empty
- **Solid orange:**  Layer or Aux element has a source The «Select» element is currently used in the selection
- **Blinking orange:**  The screen layer or Load preset is currently selected and has a source
- **Solid red:**  Program mode is active
 - Take is available
 - Freeze is enabled for a layer or screen
- **Blinking red:**  Take in progress

UPDATE AND CUSTOM FORMATS

Firmware Update

1. Download the latest Midra™ 4K firmware on www.analogway.com.
2. Put the updater file on a USB drive.
3. Connect the USB drive on the front panel.
4. The updater file is automatically detected. Otherwise, go to Control > USB Host > Scan for Updater.
5. Extract the updater file.
6. Install the new firmware.

Use Custom Formats

1. Go to Extras > Custom Formats > Create New Format, set the frame rate, H Active, V Active, Reduced Blanking, etc.
2. Select Check to verify the Custom format parameters.
3. If needed, select Edit Custom Format Label and enter a label.
4. Select Save as and select a Memory slot.

The created Custom formats are available at the top of the Output format list.

FRONT PANEL MENUS

- **Status:** Check device status and settings (Outputs, Screens, Inputs, DANTE, Library, etc.).
- **Memories:** Save, load, and delete Master, Screen, Layer, or Multi-viewer Memories.
- **Live** Screen layers and transition settings.
- **MVW (Multiviewer):** Select a template, and set Timers and Widgets. Audio: Set rate mode, and manage Dante Audio and audio routing. Control: Device settings (Network, Firmware update, Front panel, Factory reset, etc.)
- **Services:** Check temperature and fan status, check information for Technical Support, export configuration,

etc.

- **Extra:** Manage custom formats and EDIDs.
- **Images:** Import images into the unit. Then load them as image presets to be used in BKG or FRG layers.
- **Inputs:** Set Inputs signal settings (resolution and rate), patterns, image adjustment, cropping, and keying. It is also possible to Freeze or Black an input.
- **Outputs:** Set Outputs format, AOI, HDCP, patterns, or image adjustments.
- **Preconfig:** Select Operating mode, set Screen label, Audio mode, pattern, or Background set.

AUDIO SETTINGS

Global Audio settings

1. Go to Audio > Global settings to set the rate and transition delay.
2. Go to Audio > Outputs to check the audio routing status.
3. Select an output to access its settings (source, delay, balance, level, pattern, etc.).

Set Output audio source

1. Go to Audio > Outputs and select an output.
 - For a Screen output, go to Mode to select the source:
 - Auto is set by default and follows the Screen audio mode.
 - Select an input for direct routing.
 - For a Dante output, go to Mode to check the matrix status and select the source:
 - Select Direct routing and select an audio source.
 - Or select Follow Screen and select a Screen.

Set Screen audio settings

1. Go to Preconfig > Screen Configuration > Screen X > Audio mode and select an audio mode:
 - Direct routing and select a source.
 - Follow live layer content and select the layer leading the audio.
 - Follow the audio layer to set the source from Live > Screen > Audio.

DISABLE HDCP ENCRYPTION

- The HDCP encryption can be disabled on HDMI and DisplayPort inputs and/or output. This is useful when your computer detects the HDCP compliance of your switcher and protects the content by encrypting the signal from this computer. This feature will disable the HDCP compliance on this specific HDMI/DP input only.
- If you want to use HDCP content from your sources, be sure to use only HDCP-compliant screens or projectors. Otherwise, the output image could be disabled.
- The screen will go to black without displaying the HDCP input image, or the concerned layers will output to grey.

- The output status provides all information about the output in real-time. This feature is particularly useful when HDCP is used with long cable to be sure the communication is well handled.

Disable DHCP on an HDMI or DisplayPort input

- Go to Inputs > Input X > HDMI settings (or DisplayPort settings) > HDCP > None.

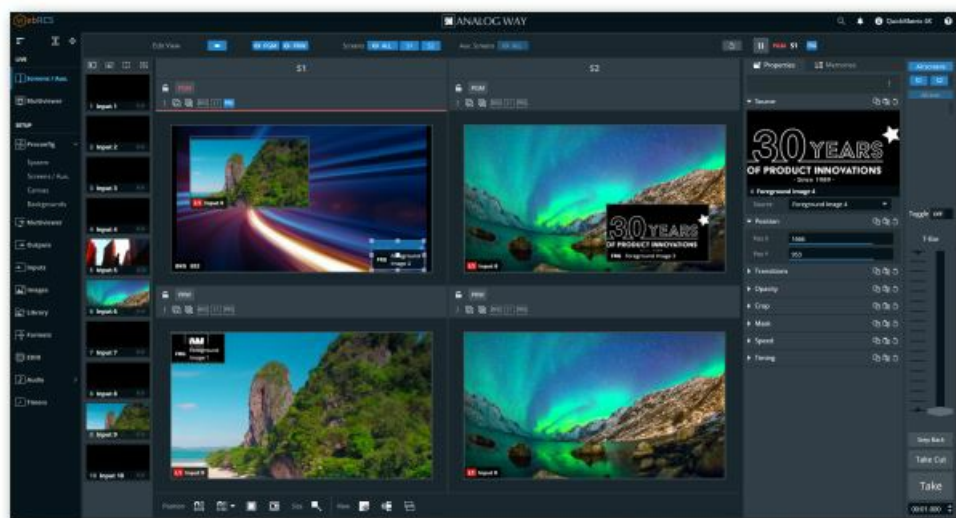
Disable DHCP on an HDMI output

- Go to Outputs > Output X > Plug settings > HDMI > HDCP detection > Disable.

ASSIGN CONTENT TO LAYERS AND CREATE MEMORIES

- In the MASTER area, press the PGM/PRW key to select to work on Program Screens or Preview Screens.
- In each SCREEN area, press BKG Set to select the Background layer (or press Image to select the Foreground layer), then press a number key in the SELECT area to assign the corresponding background set (or foreground image).
- In each SCREEN area, press Layer 1 or Layer 2 (it will blink), then press a number key in the SELECT area to assign the corresponding live input.
- Go to Live > Screen X > Layer 1 for more layer settings (position, size, transition, etc.).
- To clear a layer, select the layer, then press CLEAR in the SHORTCUTS area.
- Press TAKE or TAKE ALL to transition the source from Preview to Program output.
- **TIP:** To toggle/flipflop Preview and Program during each Take, enable it in Live > Screen X > Global > Preset Toggle.
- Go to Memories to create Master, Screen, and Multiviewer Memories.
- Go to Memories or press a Load key in the PRESETS area, then press a number key in the SELECT area to load a memory.

WEB RCS FOR MIDRA™ 4K



INSPIRED BY LIVEPREMIER

- Familiar with LivePremier users, the Web RCS for Midra™ 4K is the easiest way to set up your configuration and manage your live presentation.
- The Web RCS for Midra™ 4K is embedded in the device and requires no software installation.
- For detailed procedures, please refer to the Midra™ 4K unit User Manual.


WARRANTY AND SERVICE

- This Analog Way product has a 3-year warranty on parts and labor (back to factory). Broken connectors are not covered by warranty.
- This warranty does not include faults resulting from user negligence, special modifications, electrical surges, abuse (drop/crush), and/or other unusual damage.
- In the unlikely event of a malfunction, please contact your local Analog Way office for service.

GOING FURTHER WITH THE QUICKMATRIX 4K

- For complete details and operations procedures, please refer to the Midra™ 4K unit User Manual and our website for further information: www.analogway.com
- **01-SEP-2023**
- **QMX-4K – QSG**
- **Code: 140206**

Documents / Resources

	<p>ANALOG WAY QMX-4K Multi Layer Video Mixer [pdf] User Guide QMX-4K, QMX-4K Multi Layer Video Mixer, Multi Layer Video Mixer, Layer Video Mixer, Video Mixer, Mixer</p>
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References

- [Product registration | Analog Way](#)
- [Analog Way – Pioneer in Analog, Leader in Digital](#)
- [User Manual](#)