

QUICK START GUIDE

Pulse 4K - Ref. PLS-4K



ANALOG WAY®
Pioneer in Analog, Leader in Digital

Thank you for choosing **Analog Way** and the **Pulse 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 **Pulse 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 **Pulse 4K (PLS-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 **Pulse 4K** can be fully operated from the Web RCS or from 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 **Pulse 4K** can be set to Mixer or Matrix mode.

- **Mixer mode** manages 1 Screen with 2 Mixing layers + 1 Aux. Screen.
- **Matrix mode** manages 2 Screens with 1 Mixing layer per Screen.

The Screens of the **Pulse 4K** have layers called: **Background layer** (unscalable), **Layer 1**, **Layer 2** and **Foreground layer**. The Aux. Screen has one unscalable 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 > Templates** and select the operating mode of the device.

5. Go to **Preconfig > Screen Configuration** and select a Screen or Aux. Screen to enter a Screen label, set the Screen audio mode or display a test pattern.

6. 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**.

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

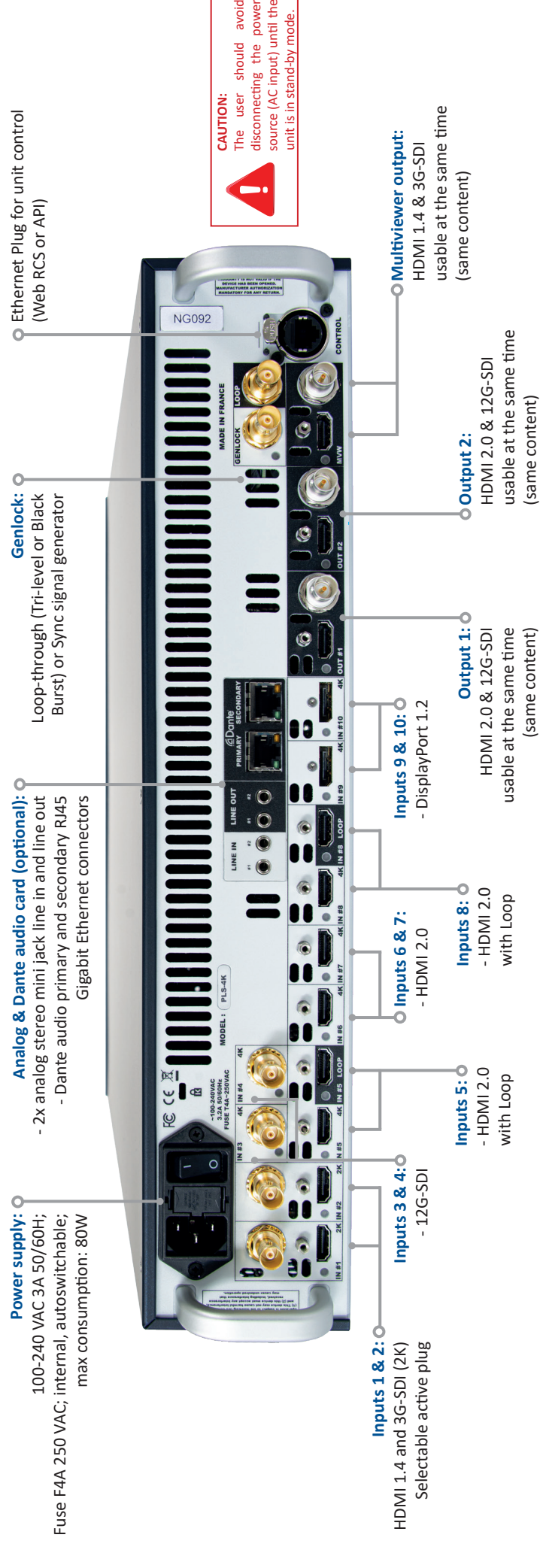
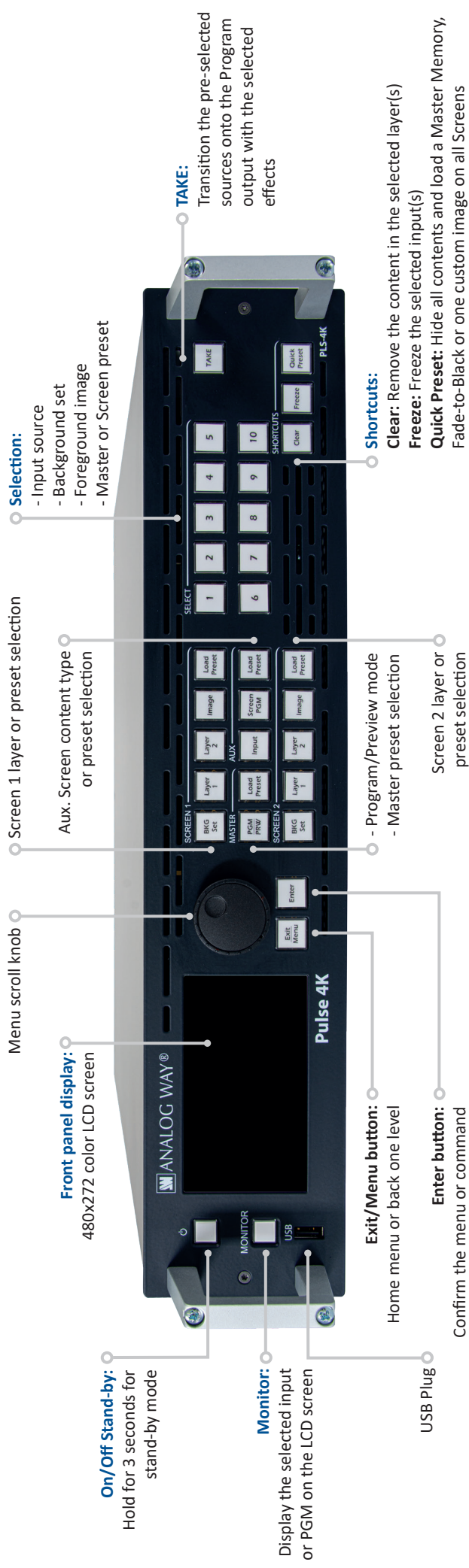
8. Go to **Images > BKG/FRG Images** and select a Screen. Assign images of the Library to the Image slots for Background Image and Foreground Image in each Screen.

9. Go to **Preconfig > Background Set Configuration** then select a Screen and a Background Set. Set Crop mode and background content (Background Image or Live input).

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

11. Go to **MVW** and select a Template, or assign Inputs, Preview Screens, Program Screens and Timers and place widgets manually.

PULSE 4K - REF. PLS-4K / FRONT & REAR PANELS DESCRIPTION



OPERATION OVERVIEW

BUTTON COLOR GUIDE

Solid green:		<ul style="list-style-type: none">- Preview mode is active- Element or Function is available- Layer or Aux element is empty- Input is connected and available
Weak green:		<ul style="list-style-type: none">- No Input connected
Blinking green:		<ul style="list-style-type: none">- Screen layer or Load preset is currently selected and empty
Solid orange:		<ul style="list-style-type: none">- Layer or Aux element has a source- «Select» element is currently used in the selection
Blinking orange:		<ul style="list-style-type: none">- Screen layer or Load preset is currently selected and has a source
Solid red:		<ul style="list-style-type: none">- Program mode is active- Take is available
Blinking red:		<ul style="list-style-type: none">- Take in progress

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.

MVV (Multiviewer): Select a template, set Timers and Widgets.

Audio: Set rate mode, 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 adjustment.

Preconfig: Select Operating mode, set Screen label, Audio mode, pattern or Background set.

USE THE WEB RCS

The Pulse 4K uses standard ethernet LAN networking. To access the Web RCS, connect a computer to the **Pulse 4K** using the Ethernet cable. Then on the computer, open an internet browser (Google Chrome is recommended).

Into this internet browser, enter the IP address of the **Pulse 4K** displayed on the front panel screen (192.168.2.140 by default).

The connection starts.

Often, computers are set to DHCP client (automatic IP detection) mode. You may need to change the IP address configuration on your computer before you can connect. These settings are found in the properties for your LAN network adaptor, and vary by operating system.

The default IP address on the **Pulse 4K** is 192.168.2.140 with a netmask of 255.255.255.0. Therefore, you can assign your computer a static IP address of 192.168.2.100 and a netmask of 255.255.255.0 and should be able to connect.

For more information, please refer to the User Manual or contact Analog Way Technical Support.

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**.
4. Extract the updater file.
5. 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.

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 a 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 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.

Screen will go to black without displaying the HDCP input image, or concerned layers will output to grey.

The output status provide 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**.

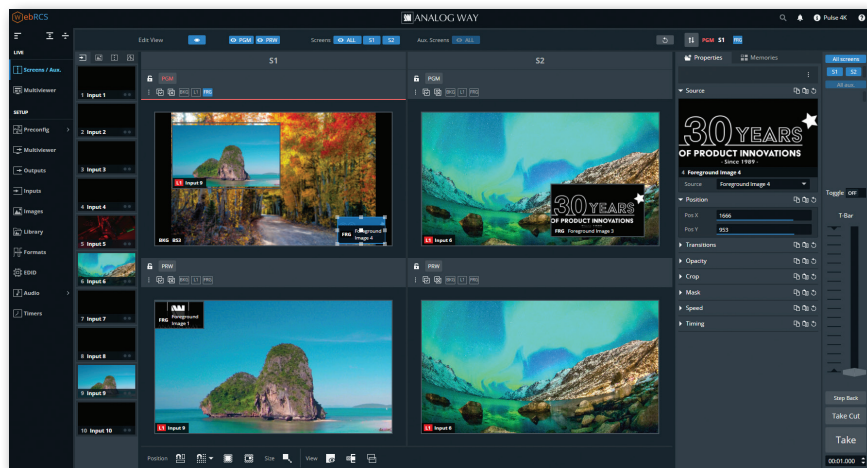
ASSIGN CONTENT TO LAYERS AND CREATE MEMORIES

- In the *MASTER area*, press the **PGM/PRW** key to select to work on Program Screens or Preview Screens.
- In **Matrix mode**, 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.
- In **Mixer mode**, the *SCREEN 1 area* works like in Matrix mode and the *SCREEN 2 area* is disabled.
In the *AUX area*, press **Input** or **Screen PGM** to select the source type, then press a number key in the *SELECT area* to assign the corresponding content to the Aux layer.
- Go to **Live > Screen 1 > Layer X** for more layer settings (position, size, transition, etc.).
- To clear a layer, select the layer, then press **CLEAR** in the *SHORTCUTS area*.
- Press **TAKE** to transition the source from Preview to Program output.

TIP: To toggle/flipflop Preview and Program during each Take, enable it in **Live > Screen 1 > Global > Preset Toggle**.

- Go to **Memories** to create Master, Screen, Aux. Screen and Multiviewer Memories.
- Go to **Memories** or press a **Load Preset** key then press a number key in the *SELECT area* to load a memory.

WEB RCS FOR MIDRA™ 4K



INSPIRED BY LIVEPREMIER

Familiar to LivePremier users, the Web RCS for Midra™ 4K is the easiest way to setup 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 PULSE 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