CCM-1 Quick Start Guide

SmallHD User Manual

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PHYSICAL PROPERTIES

Front

CCM-1

Rear

Left

Rear

Right

A: VF   **F:** Headphone   **K:** User buttons

B: PWR IN

C: SDI IN

D: ARRI Pin-Lock ¼" Interface

E: SDI In/Out

G: USB Locking Connector 5-Pin

H: Power button

I: Back button

J: Joystick

L: USB-C slot

M: Lock Slider

N: Menu button

POWER AND CONNECT

POWER

1. Connect power to the monitor using the included VF cable or a power cable.

  • When using the VF cable, the monitor's max brightness is 100nits.
  • When using the power cable, the max brightness will be 1300nits.

2. Press the power button.

SIGNAL

  • Video signals via 3G-SDI up to 1080p60

MOUNTING OPTIONS

¼"-20 MOUNTING POINTS
There are 4x ARRI Pin-Lock ¼" mechanical interfaces to secure the monitor to a camera or rig (bottom, rear, right side, top).

ARRI FOLDABLE SUNHOOD

This foldable sunhood for the Camera Control Monitor CCM-1 can be mounted to the CCM-1 without any tools, as the side flaps and the top flap hold together magnetically. The outside material is strong and durable, while the microfiber material inside protects the CCM-1 display and prevents reflections even when folded.

ARRI MONITOR ARM FOR CAMERA MAC-1

The 2-axis MAC-1 monitor arm allows for rapid positioning of the CCM-1 without affecting the horizon relative to the camera. The MAC-1 features an adjustable friction system for one-handed repositioning and inserts for different mounting standards (1/4" ARRI Pin-Lock and SmallHD Pins).
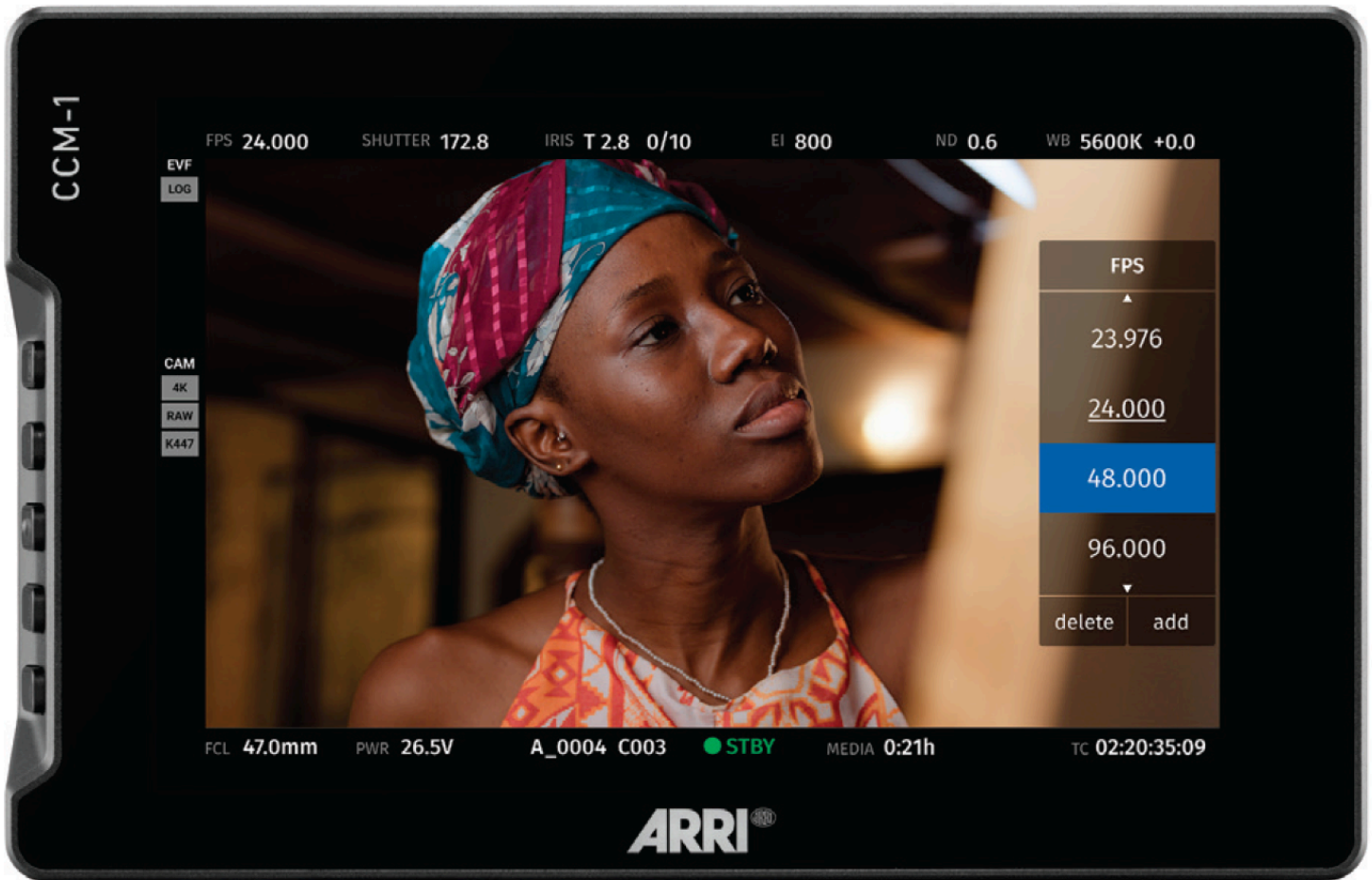
ARRI CAMERA CONTROL

INTERACTIVE OVERLAYS
Status Components
A live image with interactive status components allows quick access to the most frequently adjusted settings. Changes occur in real-time and can be viewed live instead of changing between a menu and the image.

HOME SCREEN

The familiar HOME screen has been updated for the larger CCM-1 display and shows all relevant camera information at a glance. Touching one of the five main exposure parameters will take users to a live image where they can make adjustments with a real-time preview. On the left, an overview of the user button assignments is shown.

CLASSIC MENU

The CCM-1 offers access to the complete camera menu for access to all camera settings. The menu[1] can be controlled with touch or physical keys and offers the same intuitive layout as the MVF-2.
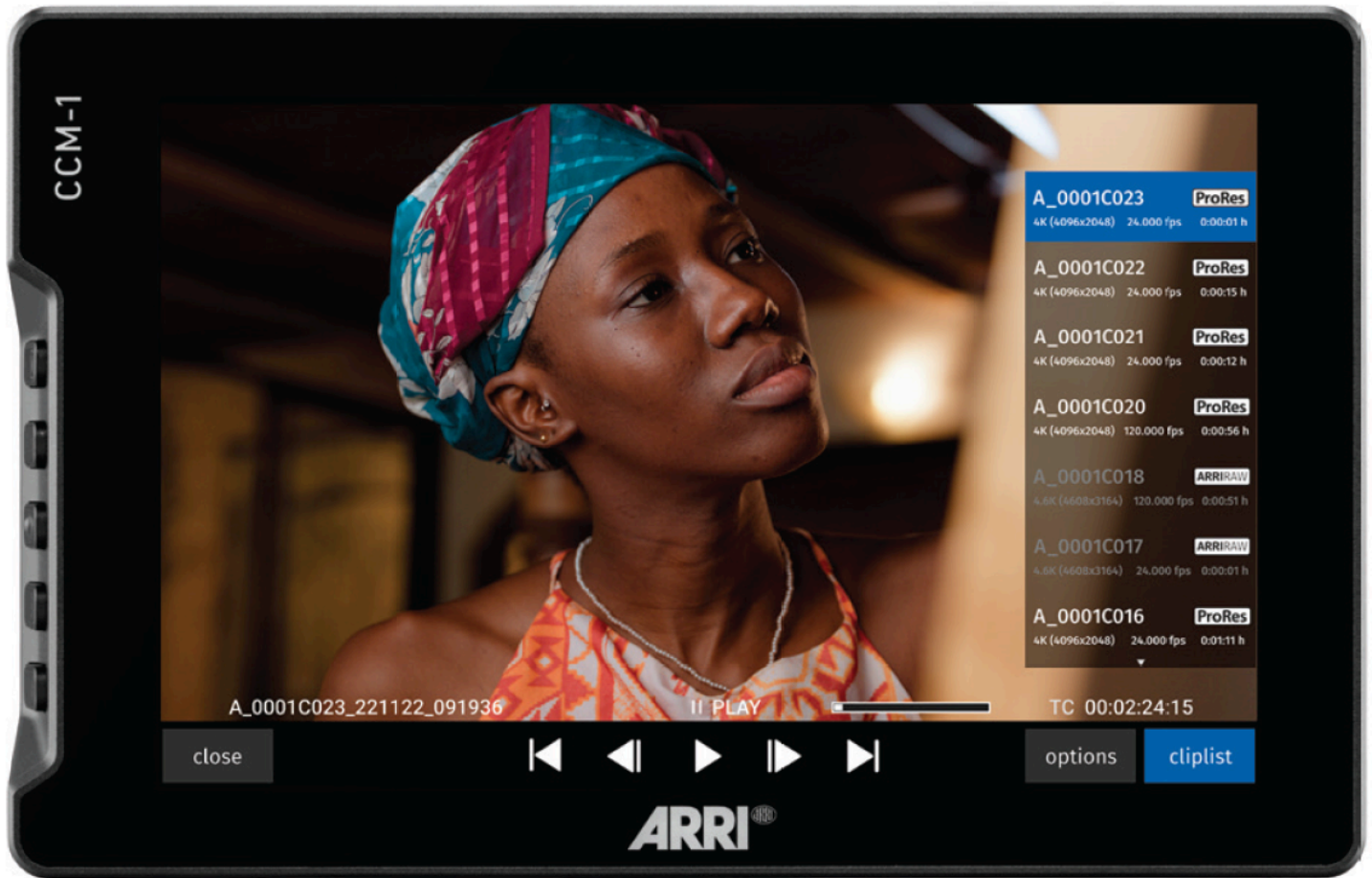
[1]Menu Button

PLAYBACK CONTROL

Improved playback control is accessed via the menu or a user button. An extended clip list can be viewed during playback and includes a handy metadata display.
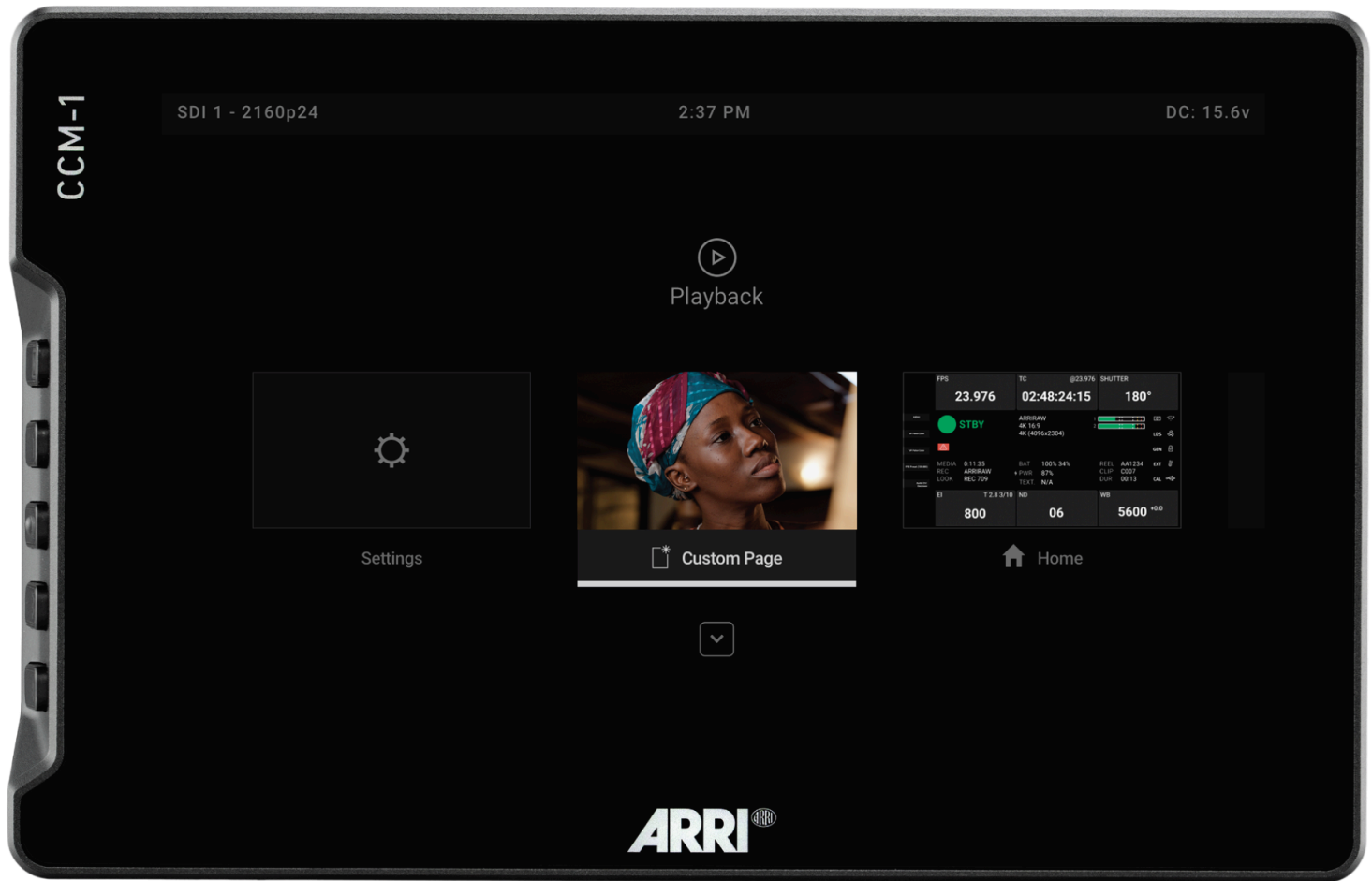
PageOS OVERVIEW

The PageOS 5 interface allows users to configure and assign specific image-analyzing tools and/ or features to up to eight customizable pages. Users can access those tools by navigating to the corresponding page on the monitor, instead of enabling or disabling features individually.

General Layout

Pages View

The 'Pages View' offers a zoomed-out perspective of all configured pages, allowing organization and naming to ensure the most efficient overall setup.
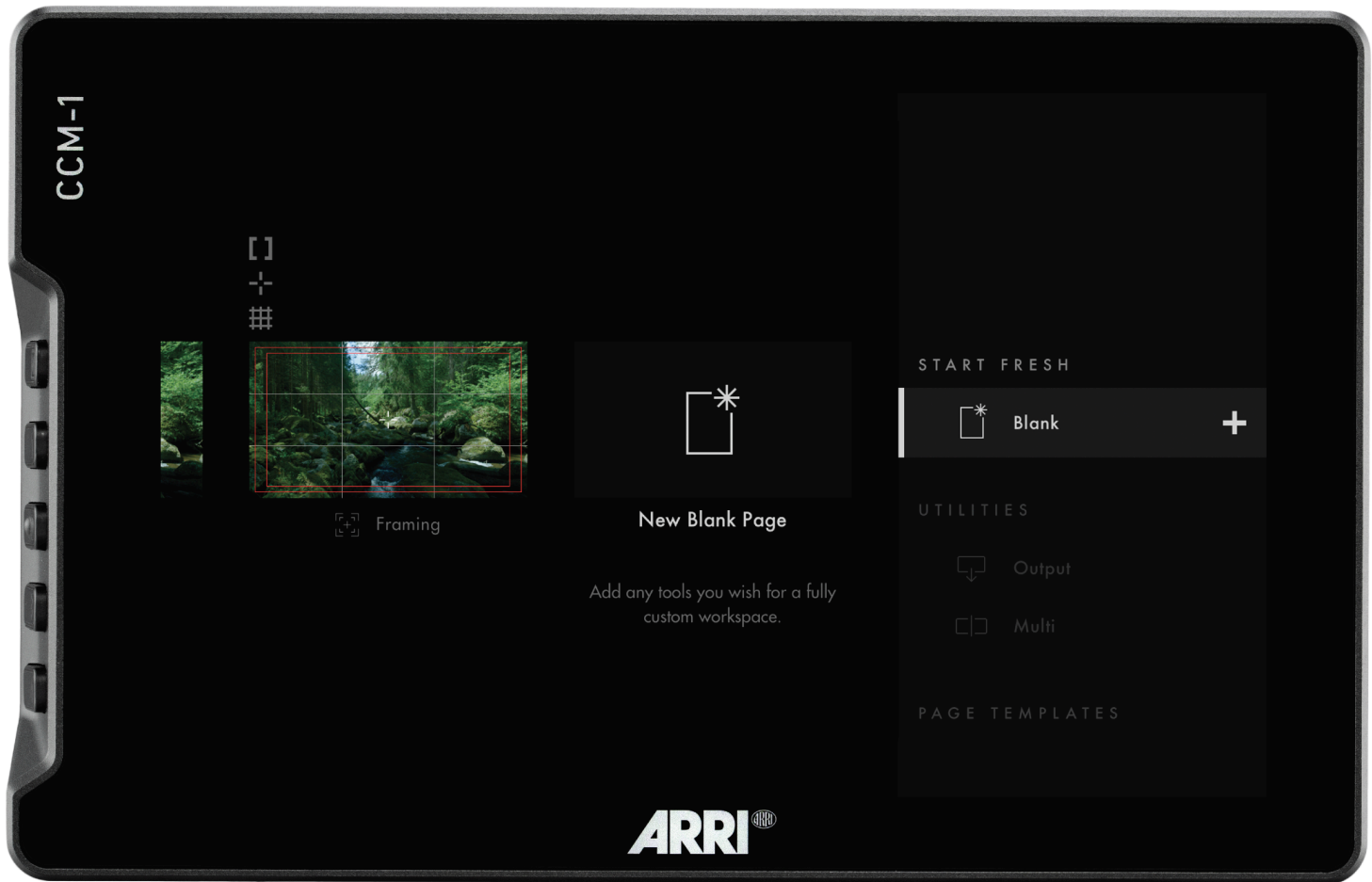
Monitor Settings

The Monitor Settings page will allow you to adjust a wide range of global monitor settings.

Dashboard

The Dashboard provides access to the most commonly-used settings such as Input, Volume, and Backlight. The Dashboard can be disabled via **Full Settings > Dashboard**.

Basic Navigation

Touch Screen

PageOS has an easy-to-navigate touchscreen that works just like your smartphone.

- Pinch to zoom
- Swipe left and right between custom pages
- Slide your finger down for a view of all your preset pages
- Swipe all the way left to access your deep settings menu (Calibration, Profiles, etc)

Joystick

Use the joystick to navigate the Pages menu:

- LEFT or RIGHT -- to change Pages
- DOWN -- Enter Page View mode
- UP -- Zoom or Exit Page View mode
- Button press or depress selects highlighted items

Back Button

Click to close or navigate back/exit.

User Buttons

Press and hold to program these custom user buttons as shortcuts.

Add New Tool to a Page

Tap your screen while on any page to reveal the toolbar. Press the plus sign that appears on the left side of the page. Select the tool you want added to that page.

Activating Tools

Tap your screen while on any page to reveal the toolbar. Then select the tool you want to activate. To adjust the custom settings of that tool press the arrow that appears next to the name of the tool.

Pages

Add a Page

To create a new page from either a fresh workspace, a premade template, or a specific utility, navigate

to the right-hand side of the Pages View. Select the New Blank Page option and then choose which type of page you would like to add, or create a custom one from scratch.

Delete a Page
Zoom out and navigate to the page you would like to delete, push down with your joystick to select the delete option, or if using touch just press the delete button and then confirm.


Add New Tool to a Page

1. Tap your screen while on any page to reveal the toolbar.
2. Press the **+** sign that appears on the left side of the page.
3. Select the tool you want to add to that page.
4. You will be presented with an option to add to that specific page or to add the tool to all pages. If you choose to add it to all pages, that tool will be present on every single page, whereas if you select a single page, it will be confined to the page you are currently on.

Adjusting Tools
Tap your screen while on any page to reveal the toolbar, then select the tool you want to activate. To adjust the custom settings of that tool press the arrow that appears next to the name of the tool. This will take you to a submenu that will show your adjustment options for that specific tool.

Settings: Feed
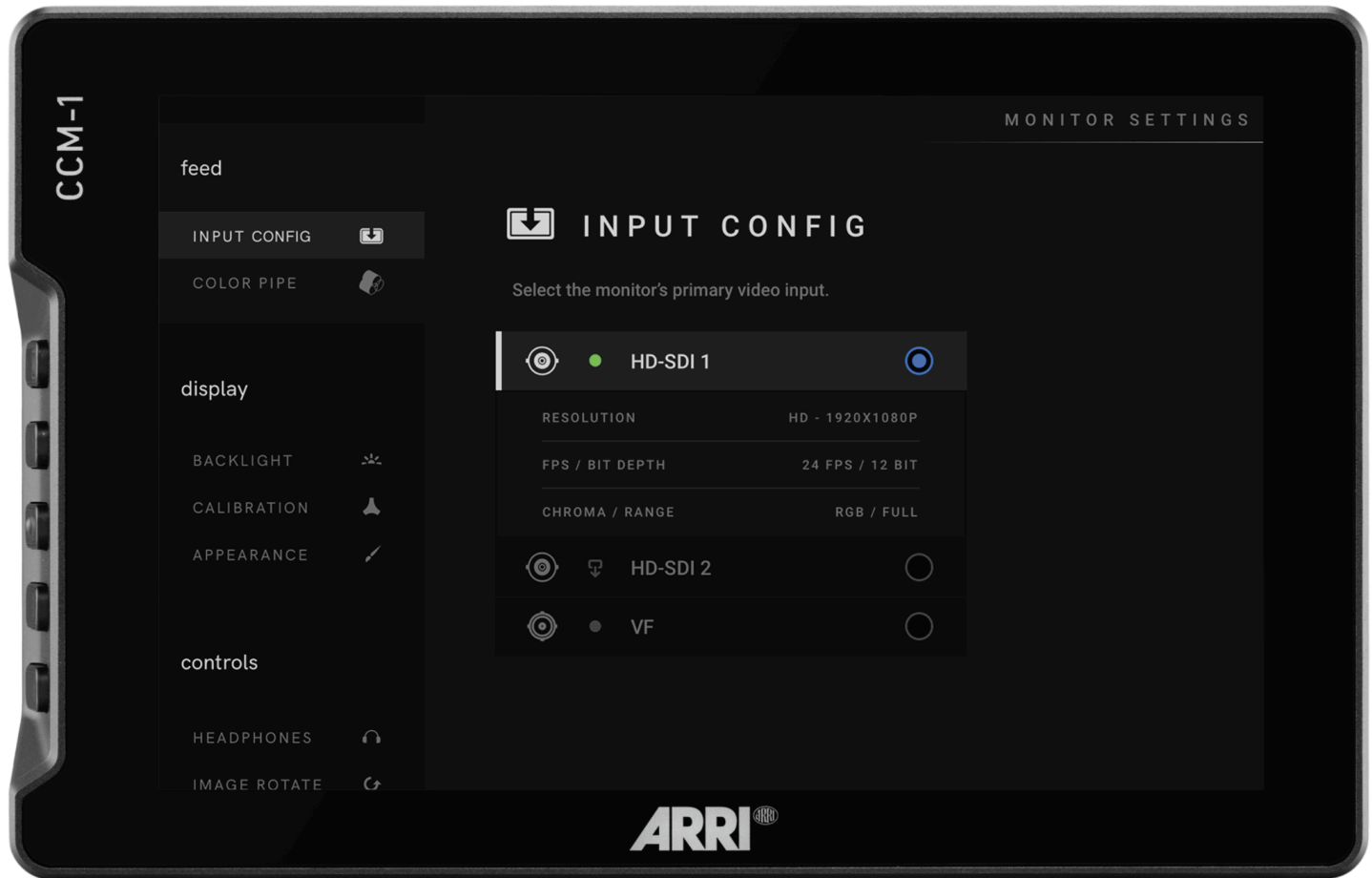
Input Config
Select an input to display the image present on SDI 1, SDI 2, or VF

Color Pipe
Follow the Wizard instructions to assign and configure color space and curve transformations, to enable HDR and SDR from incoming log-based sources.

Settings: Display

Backlight
Select a backlight level that suits your viewing environment to maximize contrast and viewability.

Calibration
Calibration ensures chrominance and luminance accuracy that can be relied upon for critical color decisions.

Appearance
Apply sharpening to the video data, if desired

Settings: Controls

Volume
Adjust the audio output level for the headphone jack and/or monitor speaker.

Image Rotate
Image Rotate options enable upside-down mounting - or enable Mirroring for when the monitor must face the subject.

Interlace
These options control how interlaced footage is displayed.
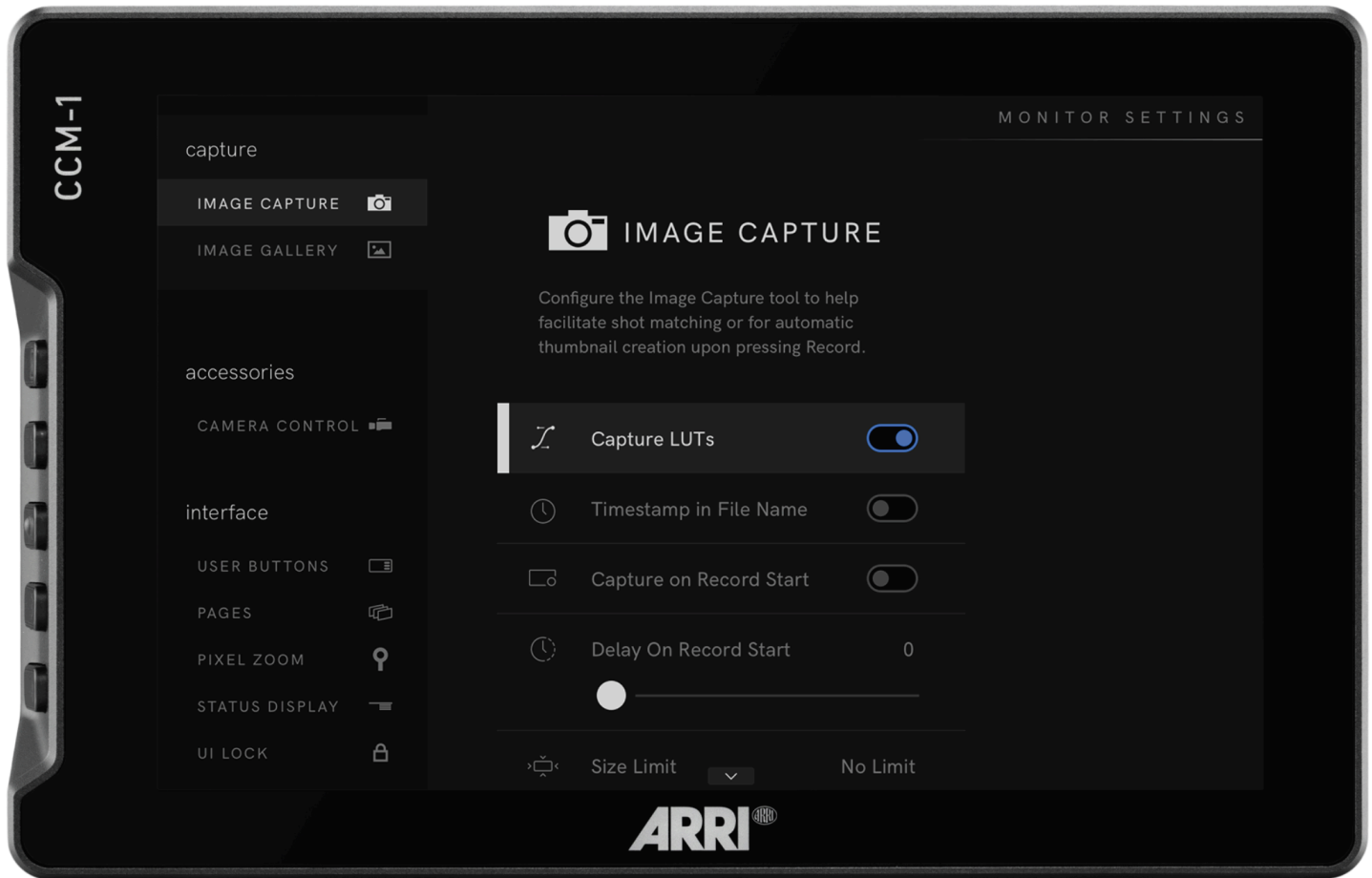
Settings: Capture

Image Capture
Configure the Image Capture tool to help facilitate shot matching or for automatic thumbnail creation upon pressing **Record**.

Image Gallery
Browse the Image Gallery to review the images on your removable media.

Settings: Interface

Pixel Zoom
Configure the default zoom levels for Pixel Zoom to 'punch in' to a desired amount when spot-checking a particular shot.

Status Display
Enable and configure the Status Display to get info on various monitoring-related data such as battery life and frames per second.
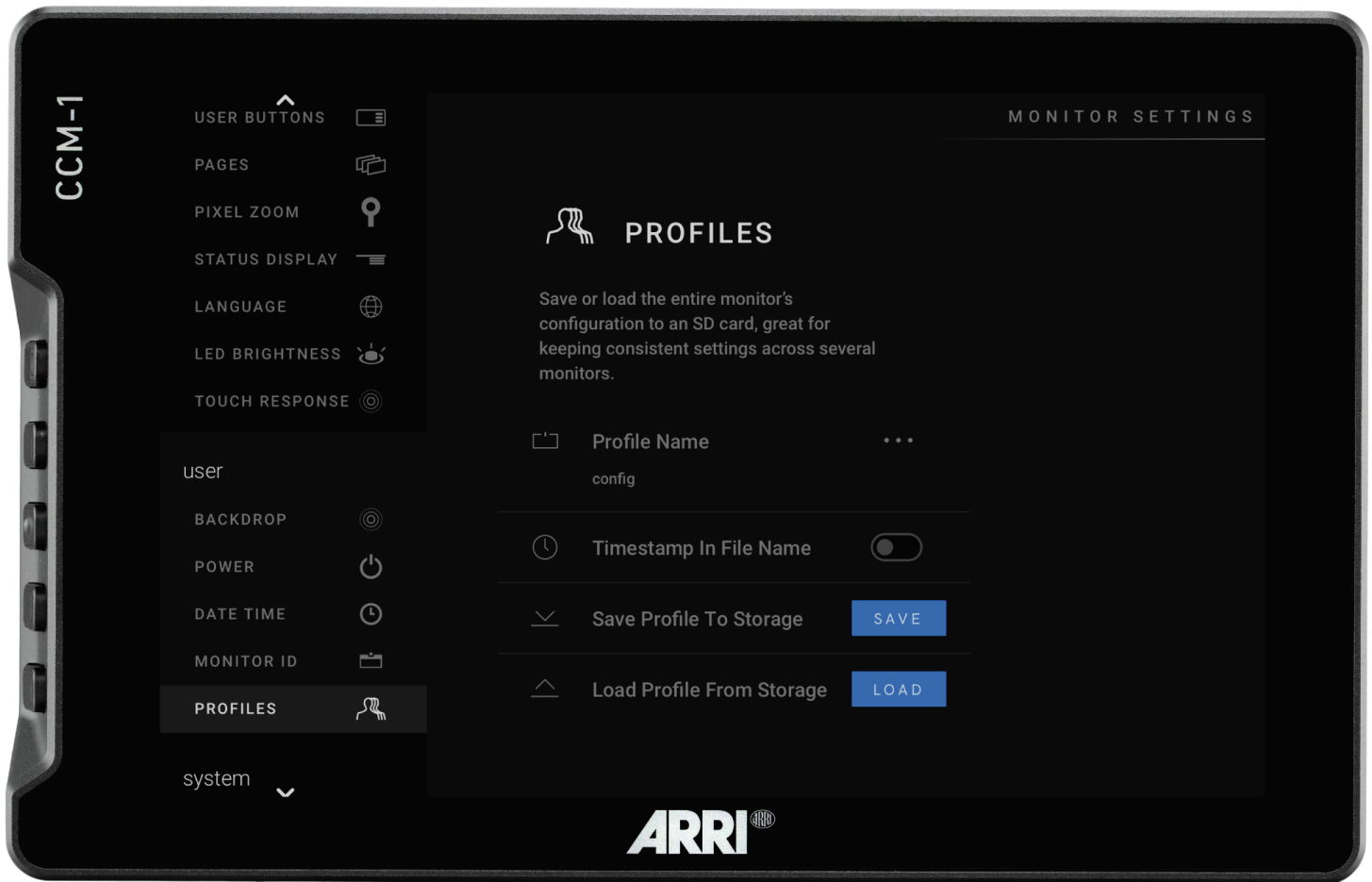
UI Lock
Once enabled, pressing and holding on the touchscreen for five seconds will lock the UI. Repeating the process will unlock the UI.

Language
Change the language of the internal menu system.

Settings: User

Backdrop
Enable a customizable backdrop for when the monitor is not displaying a signal.

Monitor ID
Set a custom name for your monitor, to make it more easily recognizable.

Date Time
Setting the correct Date & Time will ensure that captured images get an accurate timestamp.

Power
Power-related options such as auto recovery.

Profiles
Save or load the entire monitor's configuration to an SD card, great for keeping consistent settings across several monitors.

Settings: System

Firmware
Firmware can be updated by inserting an SD card with a compatible update file.

Factory Reset
Reset the monitor settings to its original factory settings, with the option to clear registration and calibration.

LINKS AND FCC RULES/REGULATIONS

1   Additional Resources
www.arri.com/ccm-1

2   Social Media
@arri   @TeamARRI

Certifications

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