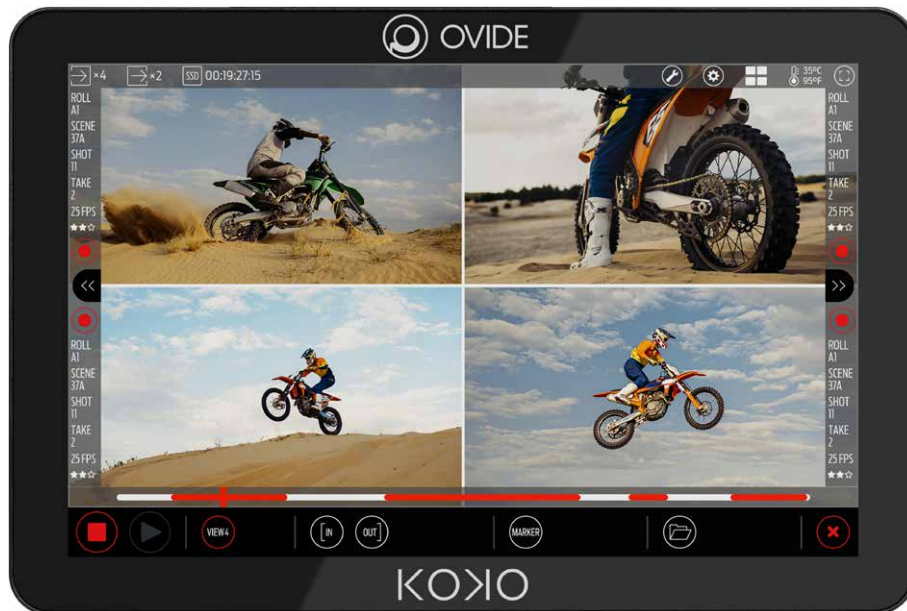
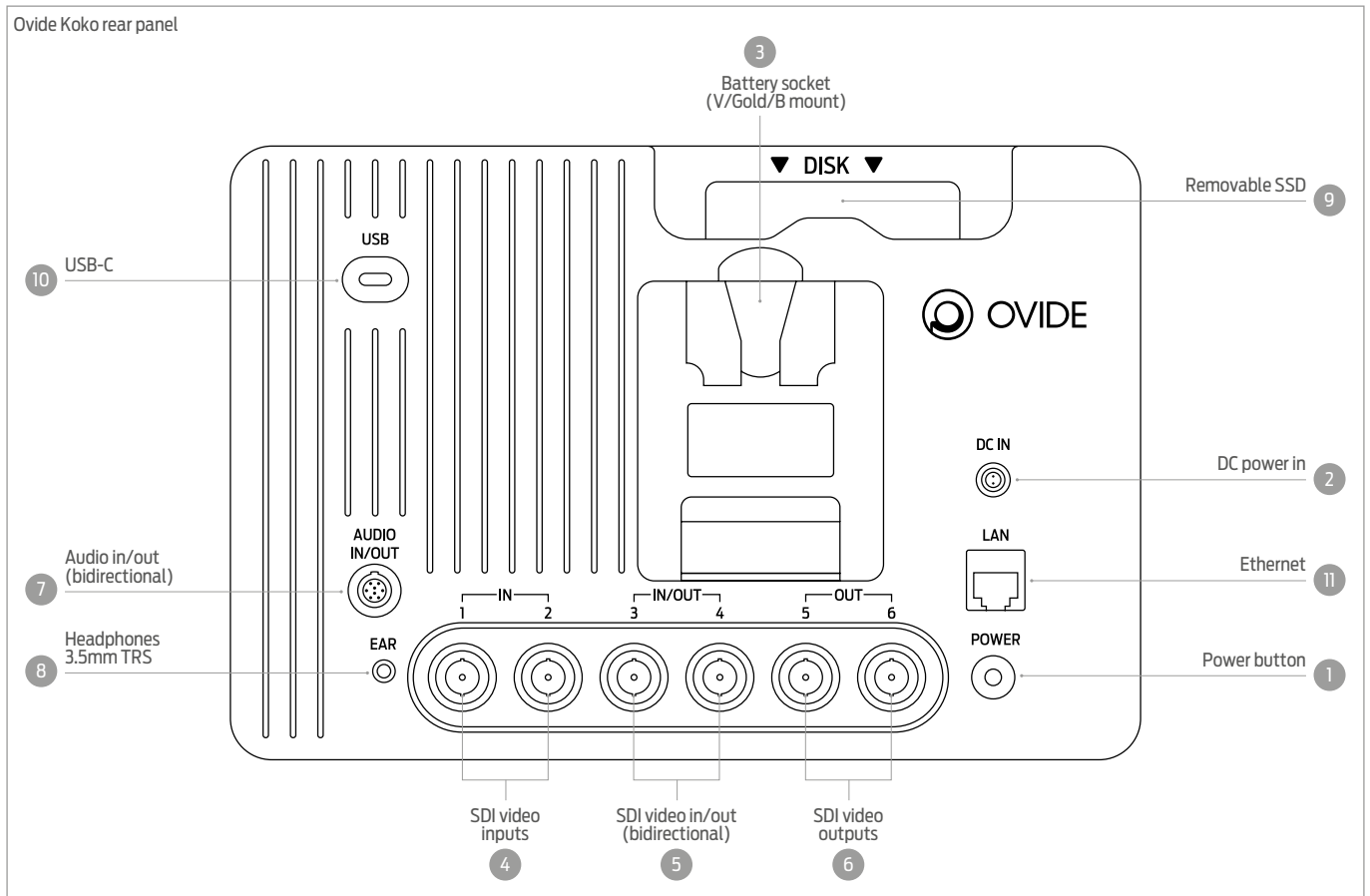


KOYO



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PLACEMENT AND FUNCTION OF PARTS



- POWER**
 - 1 **Power button:** Press and hold to turn on or off. Koko always starts in record mode.
 - 2 **DC power connector:** Connect the DC power supply (included) to the DC jack for mains power.
 - 3 **Battery slot:** Attach V, Gold or B Mount type batteries (depending on your Koko's battery mount).
- VIDEO**
 - 4 **12G SDI 1&2 inputs:** SDI video input
 - 5 **12G SDI 3&4 in/out:** Bidirectional 12G SDI connections, you can assign those as input or output
 - 6 **12G SDI 5&6 outputs:** SDI video output.
- AUDIO**
 - 7 **Audio in/out:** Multipin analog audio input/output.
 - 8 **Headphones:** 3.5mm jack output connector
- MEDIA**
 - 9 **SSD slot:** Insert your SSD with the branding facing outwards, disk should align just below the arrows, push it until you hear a click sound. To remove it, just pull it out.
- DATA**
 - 10 **USB:** For future expanded functionalities.
 - 11 **Ethernet port:** For future functionality.

These are the first steps you should follow for an optimal performance of your Ovide Koko.

You will need an SSD (not included) to use in Koko

FORMAT THE SSD TO exFAT

Advice: To ensure top SSD performance, format the SSD drive in Koko (not in a computer). It will make sure all blocks are consistently erased for sustained performance while recording. Formatting in a computer is usually only fast erase which leads to a slower drive while recording.

If the SSD it's not in exFAT format, you'll have to format it. You can do it in Koko.

1. When introducing the SSD, a pop-up will be shown to format in exFAT (only when the SSD introduced is not exFAT fomatted)
2. Tap on "Format" button.
3. Write "FORMAT" to confirm. **Caution: all of the disk contents will be lost.**

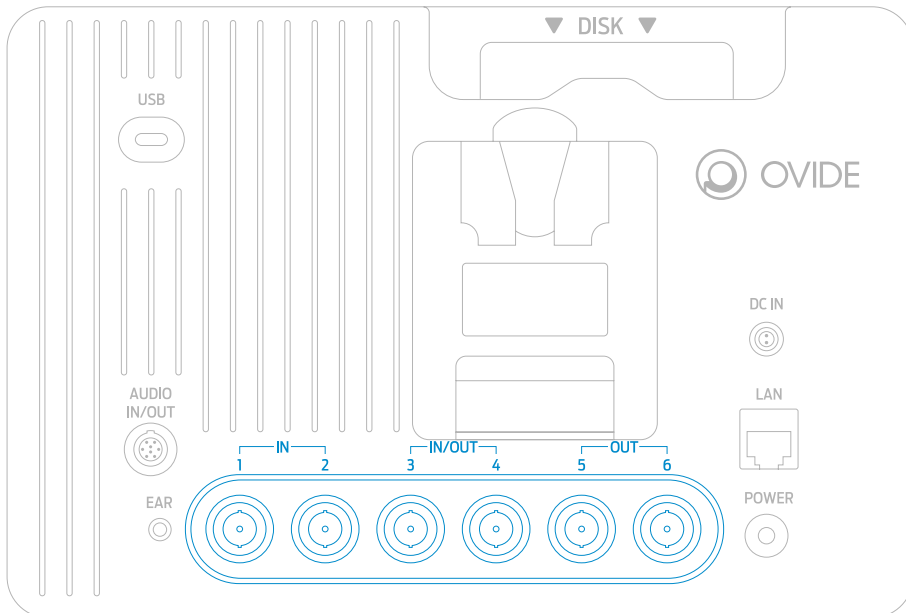
FIRMWARE UPDATE

1. Visit www.ovidsmart.com/ovide-koko/firmware-user-guide/ and download the .omfw (or its zipped version)
2. Copy the OMFw file (unzip if necessary) to the root of the SSD.
Please remember to have only one firmware file in the SSD.
3. Turn Ovide Koko on.
4. Insert the SSD into Koko.
5. Wait for the progress bar to finish and restart the device.
6. Do a factory reset after installing this firmware (Settings/Factory reset)



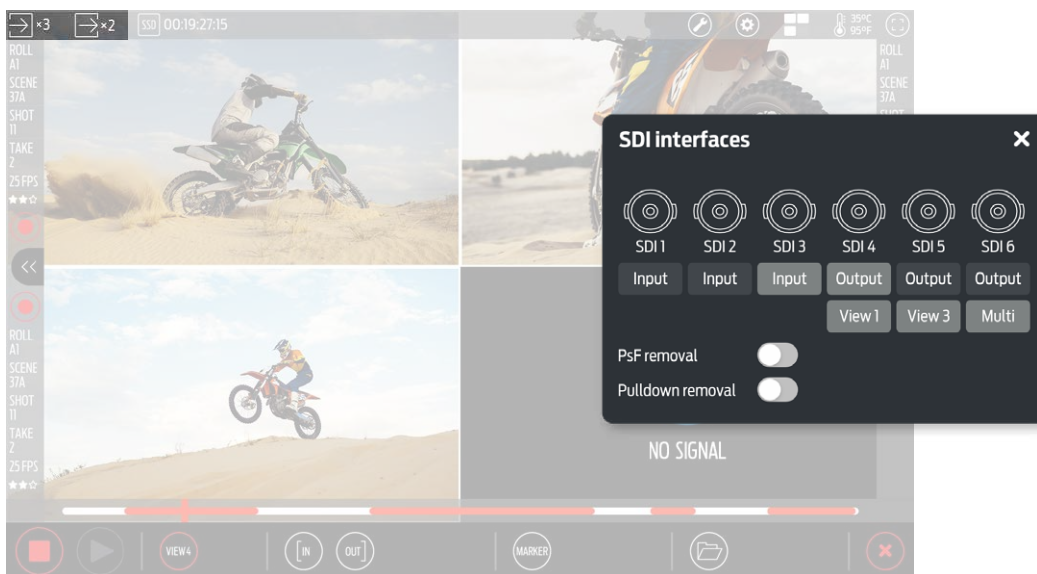
INPUTS & OUTPUTS SETTINGS

1. Connect the camera/s to inputs 1 to 4 (remember, inputs 3 and 4 are bidirectional)
2. Connect the monitors to outputs 3 to 6 (remember, inputs 3 and 4 are bidirectional)



3. Tap or on the top left corner to open the pop-up and designate all inputs and outputs
4. To enable PsF inputs, enable the PsF settings. If PsF support is not needed, disable it.

Pulldown removal is used for legacy cameras that use 24p over 30p.



Understanding Koko's video genlock and frequency

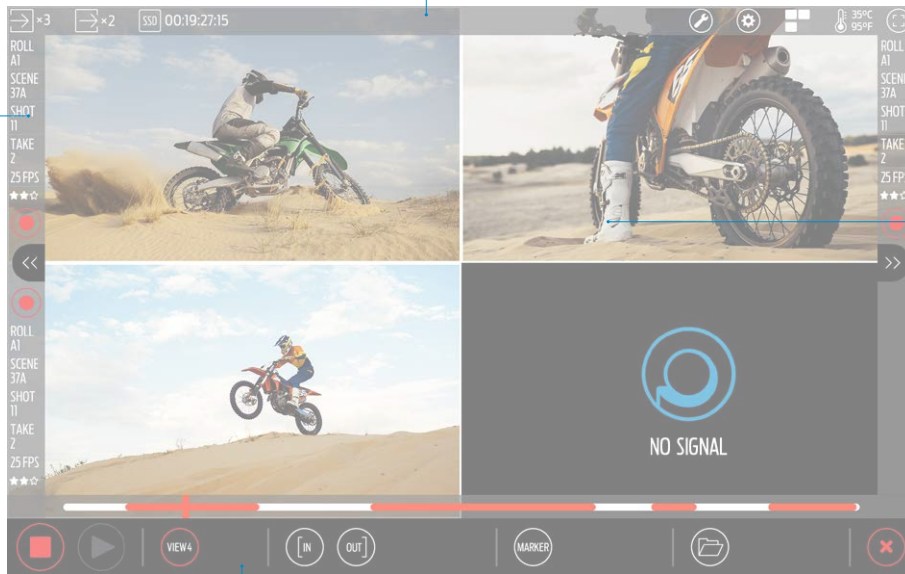
When in rec mode, one of the inputs will be used as genlock for both Koko's display and all SDI outputs. Koko will try to genlock to the lowest available SDI number, eg SDI1, if it isn't it will try SDI2 and so on. Once genlocked, Koko's display and all SDI outputs will sync to it; hence loosing the input used for genlock will cause a drop both in the display and in all SDI outputs. **This will not affect the recording.** All SDI outputs will run at the same frequency as the genlock input. Therefore any video that is in a different format, will be converted when sent to an SDI output. As there is no temporal interpolation, there will be a slight video stuttering when mixing formats being 25p the most apparent. Again, recording matches the original format and this only affects SDI outputs.

MAIN SCREEN

Ovide Koko main screen (rec mode)

Topbar: Shows information such as inputs & outputs, texts messages, play modes and includes a few buttons

Sidebars: Shows clip metadata and controls the clip on its side. Informs if its own clip is on play/rec/standby mode.



Views: Watch one view (full screen), 2 views (dual) or 4 views (quad).

Selected views: When a view is selected it will be framed in white. When it's not selected it won't be framed. When a view is recording/playing it will be framed in red/green.

Main toolbar: Controls all views and has the main functions

GESTURES

Tap: Main gesture for all buttons

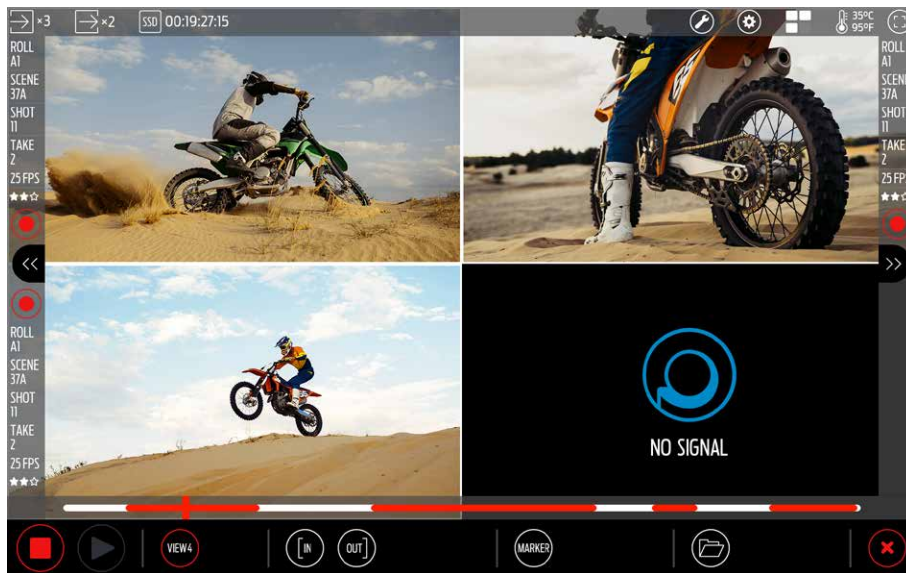
Swipe right/left: Used to scroll on the playback slider, hide lateral bars, settings like zebra...

INTERFACE OVERVIEW

REC MODE & PLAY MODE

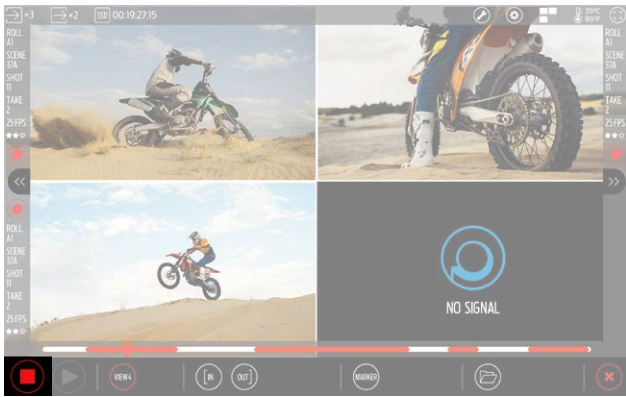
Koko has 2 working modes: Play & Rec. When Koko turns on, it's set in Rec Mode.

REC Mode example



PLAY Mode example





SYNC RECORDING

1. Select the views you would like to record tapping directly on the views
2. Tap on the Main Menu (lower left corner) or use the SDI Rec Trigger Flag many cinema cameras use

SDI Rec trigger feature can be switched in Koko's settings topbar by tapping on

NOTE:

Koko will record a session with a sync recording only if framerates between views match. Otherwise Koko will record separate clips and won't be able to sync them, however you will be able to playback them.

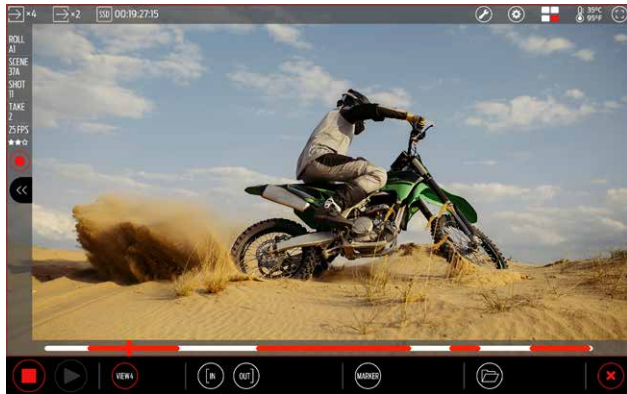


DUAL PLAYBACK

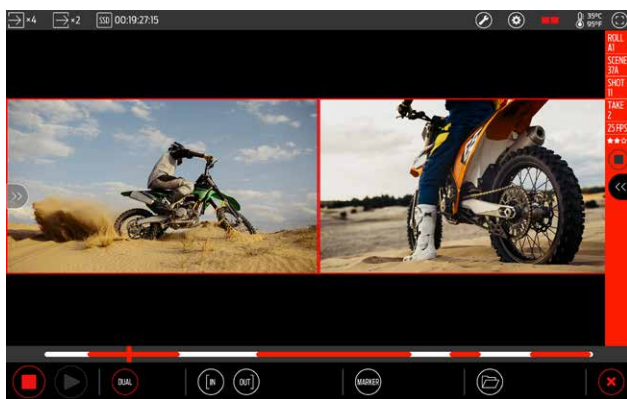
After a sync recording you can just tap on for a fast dual playback (A+B by default) or select the views in the browser.

1. Tap on to open the "Clip Browser" window
2. Select "Sessions" tab
3. Each recorded sync session will be composed of at least 2 views. Select the 2 you want to play.
4. Tab on next to the right of each session

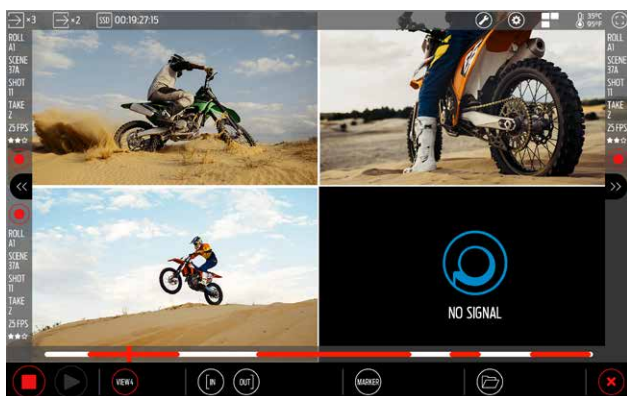
NUMBER OF VIEWS



Fullscreen mode



Dual mode



Quad mode

Koko can display 1 (fullscreen), 2 (dual) or 4 (quad) video modes.

REMEMBER: When a view is selected in standby the clip will be framed in white. When it's not selected it won't be framed.

VIEWS INDICATOR



Shows the views on the display and which state is each one (play, rec or standby)

Quad view: When 3 or more SDIs inputs are set to input

Dual view: When 2 or less SDIs inputs are set to input

Each rectangle will be colored according its state:

When a view is selected it will be framed in:

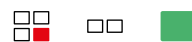
White: Selected

Grey: Not selected or no signal

Red: Recording

Green: Playing

Some multiview icon examples



VIEW BUTTON



View button: On tap changes shown views on Koko's from fullscreen (views from 1 to 4 if configured), to dual or quadsplit.

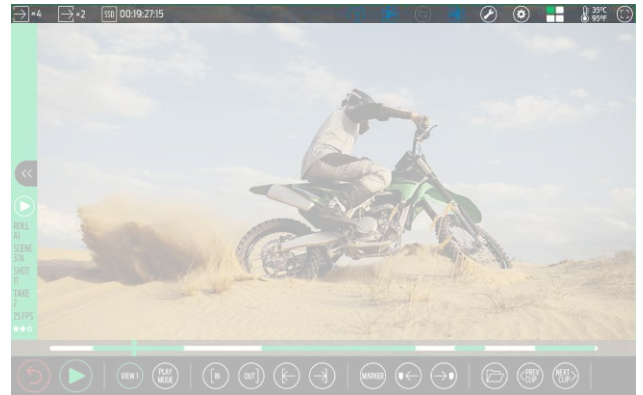
Circle color will be colored in red (recording) or green (playing) according which mode we are on.

Some "View" button examples



TOPBAR

Shows information such as connected inputs & outputs, text messages, play mode and includes a few buttons.



Inputs & Outputs: Indicates how many SDI inputs and outputs are set up. On tap, opens inputs/outputs settings window.

SSD: Displays SSD remaining rec time according to selected inputs.

Play Mode area: Indicates active play modes. On tap, opens Play Mode options window.

Speed: Sets play speed (x1 / x2 / x4)

Loop / Pong: Plays clip on loop or pong mode

Play all (grey): Plays entire clip without considering segments (in/out)

Play all: Plays all segments in the clip (in/out)

Play reverse: Sets playback in reverse

Play one: Plays just the selected segment

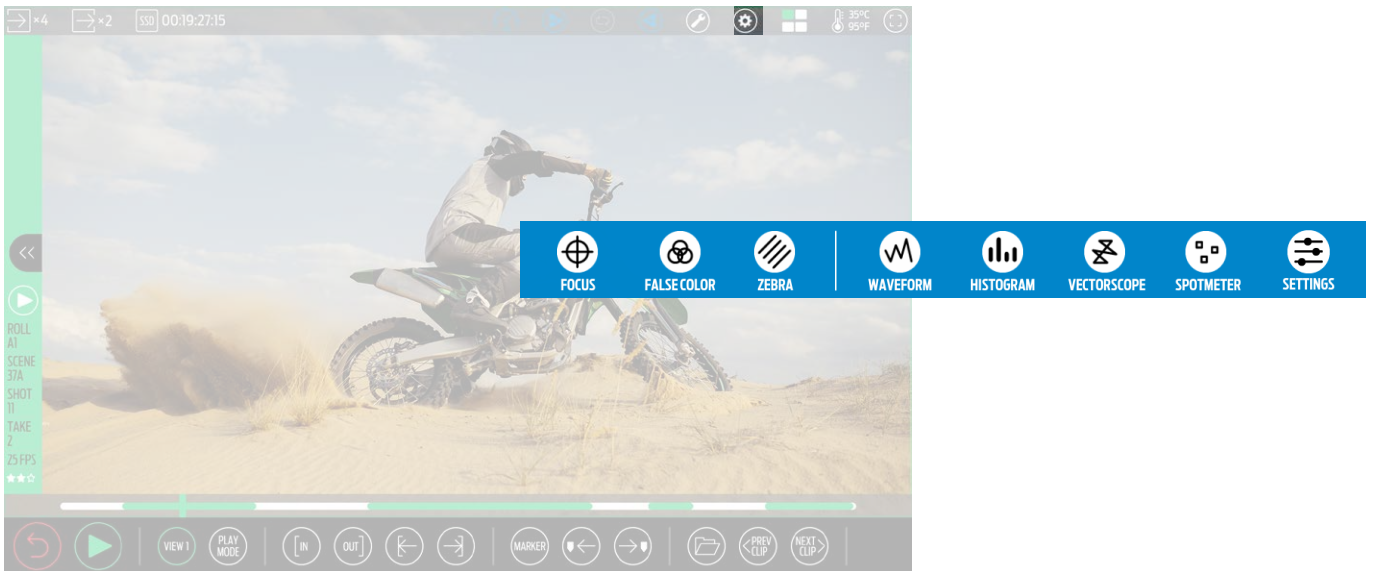
Toolbar button: Focus, false color, zebra, waveform, histogram, vectorscope, LUT's.

Settings button: System info, reset settings, abort button, format SSD, date and time, import, audio and network.

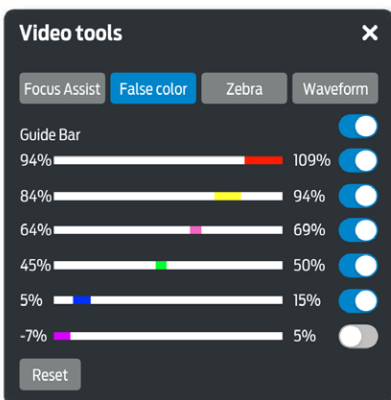
Fullscreen button: Hides top and side bars, main toolbar is the only one remaining. On fullscreen, tap on to show all menus.

TOPBAR: TOOLS

Tap on button to open “Tools menu”

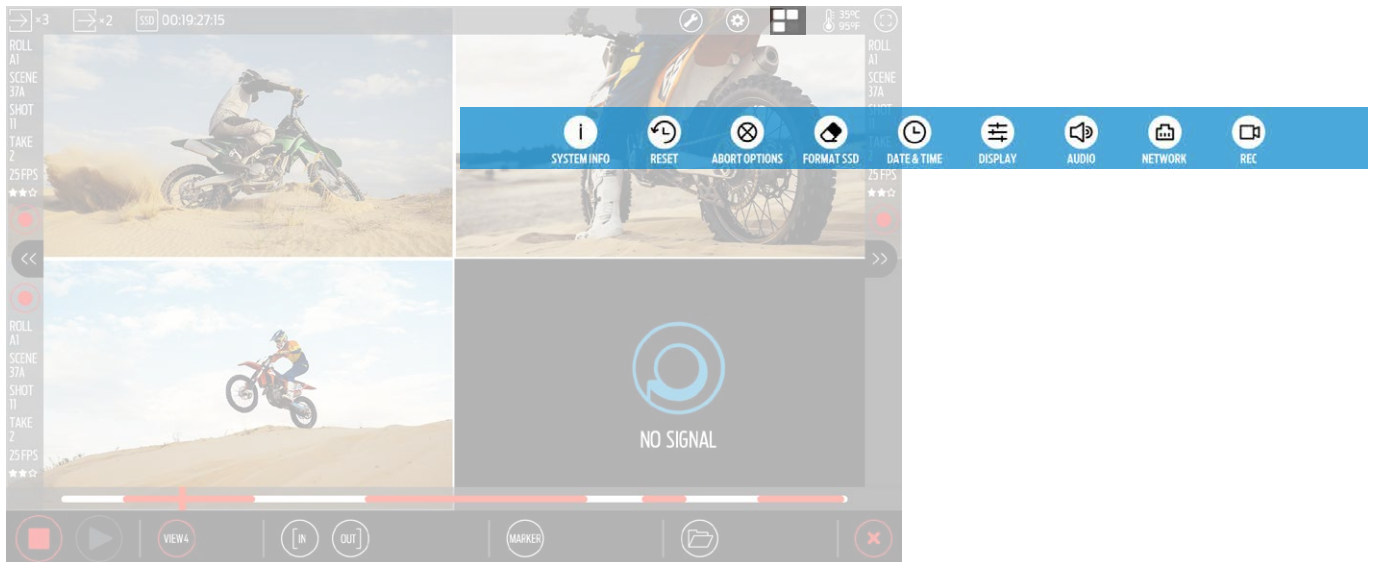


Tap on to open settings pop-up to configure each one of the image tools.



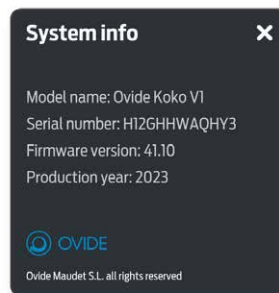
TOPBAR: SETTINGS

Tap on button to open “Settings menu”



SYSTEM INFO

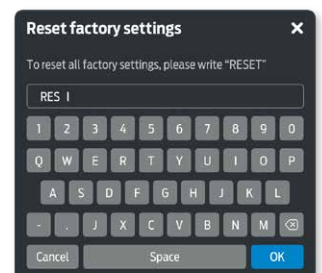
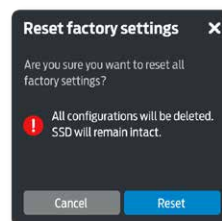
Shows Koko's information such as serial number, firmware version, temperature sensor, etc.



RESET

Allows to reset your Koko to factory settings. However, SSD won't be erased.

A first pop-up will be shown on taping the option, after, a second one will be shown to double-check the action.



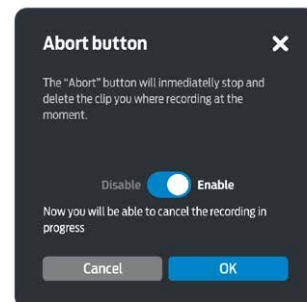
INTERFACE OVERVIEW



ABORT OPTIONS

Enables or disables the “Abort rec” button on the Main Toolbar

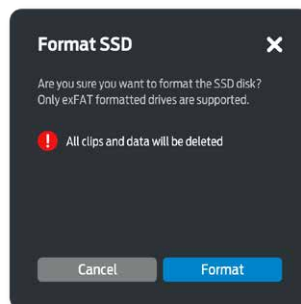
When enabled, “Abort Rec” button will delete the current recording.



FORMAT SSD

“Format SSD” first opens a pop-up to format the SSD, after, a second pop-up is shown to double-check the action.

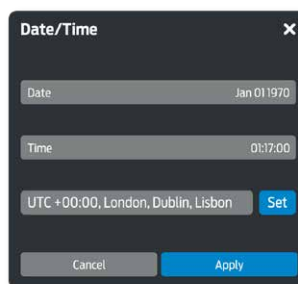
IMPORTANT: Ovide Koko only supports SSD drives in exFAT format.



DATE & TIME

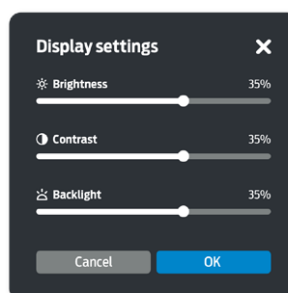
Shows and changes Koko’s date, time and time zone.

To set time/date tap on a number and drag your finger up/down the touchscreen or tap on **Set** to open the timezones map.



DISPLAY

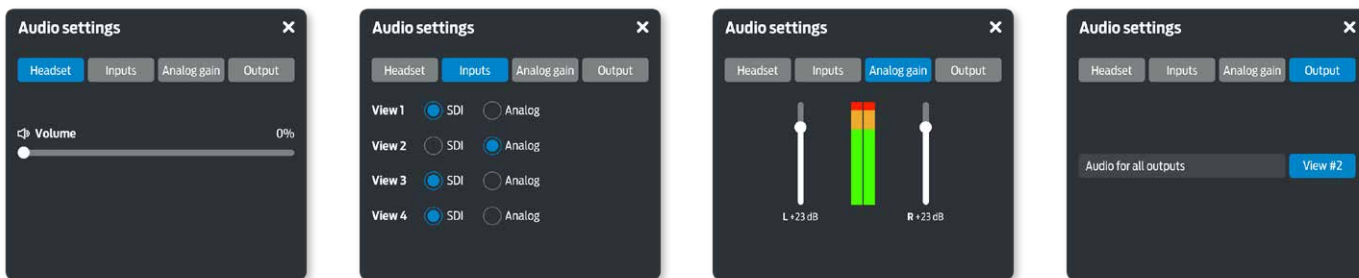
Adjusts Koko’s brightness contrast and backlight.





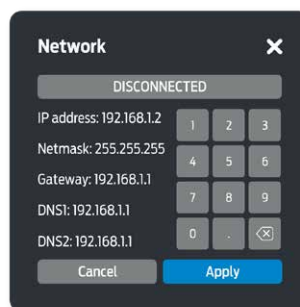
AUDIO

On the first tab, you can adjust connected headset volume, the second tab configures audio inputs via SDI or analog, in this case, you can also define the analog gain (third tab). On the fourth tab you can select the audio source for all outputs (all SDIs, analog out and headphones).



NETWORK

Configures IP Network configuration settings.

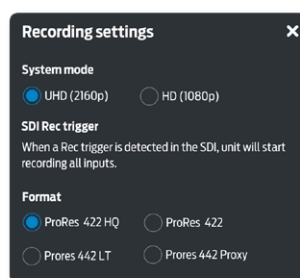


REC

System mode: UHD or HD mode allows selecting the resolution the Koko will record in. Select UHD for 2160p or HD for 1080p footage. UHD accepts just 1 video input on SDI1 and outputs 4 UHD signals on SDI 3-4-5-6.

SDI Rec trigger: When on, Koko will start/stop the recording of the selected views when the camera sends the SDI Flag. Then all selected views will be in sync.

Format: Choose the desired ProRes format. Koko estimates available SSD time according to selected format and number of active views.



MAIN TOOLBAR

REC MODE



- Global Rec / Global Stop:** In “Rec mode” will record selected views. When in play mode, will switch to “Rec Mode”.
- Displayed view/s:** Shows which view/s you are currently seeing.
- In/Out:** Adds in/out markers in the clips. Multiple in/out markers can be added, moved or deleted.
- Marker:** Allows adding markers for an easier navigation.
- Browser:** Opens/Closes the clip browser in the SSD.
- Abort:** Cancels recording and erases the current clip (only on Rec Mode). “Abort” is an option you can enable in the “Settings menu”.

PLAY MODE



- Go to rec:** Tap to go to Rec Mode.
- Play/Pause:** If you are in “Rec mode” and tap , Koko will play the last clip for the selected view. In case you were on quad view, it will play last recorded clip on View 1.
- Displayed view/s:** Shows which view/s you are actually seeing.
- Play Mode:** On tap, opens Play Mode options window (speed, loop/pong, reverse or single/all). See Fig.1
- In/Out:** Adds and removes in/out indicators to make segments in the clips. Set an outpoint at the same position as an inpoint to remove an in/out marker or a segment. Jump between in/out segments using arrows.
- Markers:** Adds and removes markers in the clips. Jump between markers using arrows.
- Browser:** Play prev/next clip/session. Opens/Closes the clip browser in the SSD.

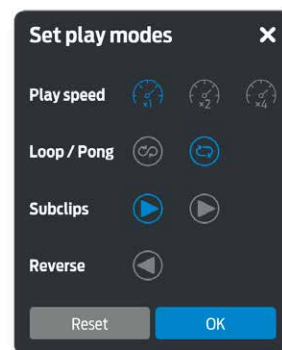
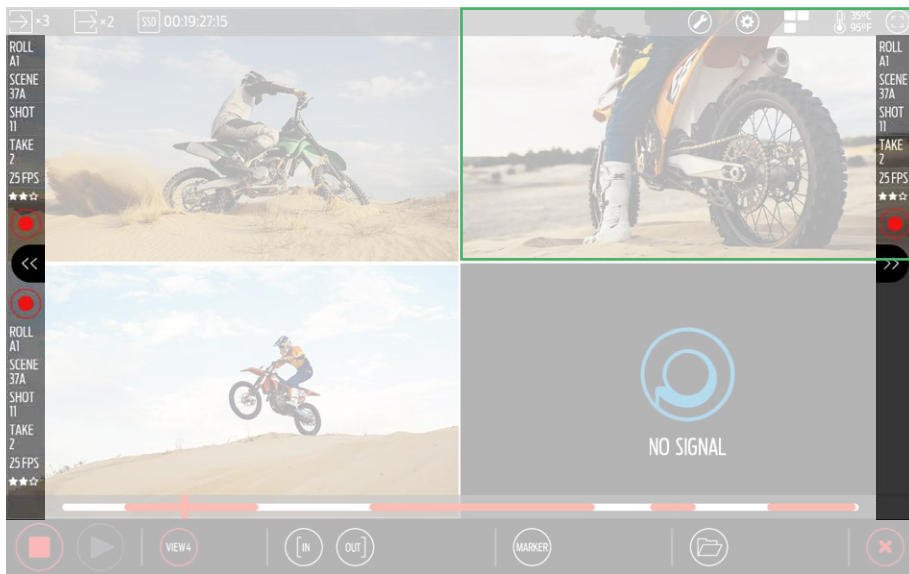


Fig.1

INTERFACE OVERVIEW

SIDEBARS



Each sidebar controls and informs about the clip on its side



Metadata: Show and edit roll, scene, shot and rating



Control the clip on its side (rec, stop, play, pause)

Hide/Show sidebar

Background color shows if its clip is recording (red), playing (green) or in standby (black)

OVIDE KOKO SPECIFICATIONS

Display	
LCD type	TFT LCD
Touchscreen	Capacitive
Size	10.1"
Resolution	1920×1200 px 8 bits 16.7M colors
Brightness	1000 nits
Contrast	900:1
Recording	
Recording encoding	Apple ProRes
Recording media	Removable SSD disk (7mm thick)
Video inputs	4× 12G-SDI*
Video outputs	4× 12G-SDI* *2× bidirectional BNC
TC	SDI embedded
Audio	
Audio in/out	SDI or analog XLR via the included break-out cable
Data	
USB	USB-C
LAN	Ethernet
Functions	Rec-Stop-Play in/out Histogram Waveform Focus assist Zebra False color Vectorscope 7-Spot Spotmeter Metadata
Physical specifications	
Dimensions	250×169×33mm
Weight	1,3 Kg
Battery mount	V-Lock / Gold / B
Temperature range	TBA
DC IN	12-17 vdc
Consumption	25W

Compatible SSDs	
Samsung 870 EVO 2TB (MZ-77E2T0)	
Samsung 840 EVO 1TB (MZ-7TE1T0)	
Samsung 850 EVO 1TB (MZ-75E1T0)	
Samsung 860 Pro 512GB (MZ-76P512)	
Lexar NQ100 960GB	

These SSDs have been tested and confirmed to reliably work with Koko.
Other drives may or may not work.
Please avoid using QVO Samsung drives, they cannot keep up the sustained bitrate Koko needs.