

ANALOG WAY MIDRA™ 4K

Module: SCREEN

Crestron 3-series & 4-series & VC-4

Date: **December 2022**
Driver version: **V1.3.0**
Compatible with: **Midra™ 4K Firmware v2.2.33 or above**

GENERAL

This module provides information from a screen of the Midra 4K video processor as well as some commands to change layers content and trigger transitions.

Note: When Preset Toggle is enabled for a Screen, the layers in Program replace the layers in Preview during a Take or Take Cut (“swap” effect). If Preset Toggle is disabled, the layers in Preview are copied to Program and remain in Preview during a Take or Take Cut.

LAYER SOURCES

None	0
Inputs	[1, 99]
Still images (Foreground layer)	[101, 150]
Background sets (Background layer)	[151,199]
Color	400

AUDIO SOURCES

None	0
De-embedded audio from live inputs	[1 .. 10]
Dante 8ch audio groups	[101..104]
Analog audio inputs	[201..202]
Follow layer	[1001..1004]
Follow audio layer	2000

CONTROL

Parameters

ScreenName	Param List	The Screen identifier
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General

Screen_RefreshInfos	Digital_in	Pulse this signal to force the download and processing of information from the Midra 4K video processor. Most of the time, this signal is never used
Screen_Take_Cmd	Digital_in	Pulse this signal to trigger a "TAKE" transition
Screen_Cut_Cmd	Digital_in	Pulse this signal to trigger a "CUT" transition
Screen_Take_EnableToggleMode_CMD	Digital_in	Enable or disable Preset Toggle for the screen
Screen_Is_Available_FB	Digital_out	Equals 1 when the screen is available
Screen_Take_FB	Digital_out	Equals 1 when a transition is in progress
Screen_Take_ToggleModeEnabled_FB	Digital_out	Equals 1 when Preset Toggle is enabled
Screen_ScreenLabel_Txt[1]	String_out	The screen label

Screen_Infos

Screen_ScreenWidth_FB	Analog_out	The screen width
Screen_ScreenHeight_FB	Analog_out	The screen height
Screen_LayerCount_FB	Analog_out	The screen layer count

Background_Images

Screen_Img_Background_Cmd[X]	Analog_in	Defines the index of the image in the image library that will be associated with background image X of the screen
Screen_PrvgBgSource_CMD	Analog_in	Use to select the background set of the screen (Preview)
Screen_PrgBgSource_CMD	Analog_in	Use to select the background set of the screen (Program)
Screen_Img_Background_FB[X]	Analog_out	The image index selected to be on background image

		X
Screen_PrBgSource_FB	Analog_out	Current screen background set value (Preview)
Screen_PrgBgSource_FB	Analog_out	Current screen background set value (Program)

Foreground_Images

Screen_Img_Foreground_Cmd[X]	Analog_in	Defines the index of the image in the image library that will be associated with foreground frame X of the screen
Screen_PrBgSource_CMD	Analog_in	Use to select the foreground image of the screen (Preview)
Screen_PrBgTop_CMD	Analog_in	Defines the top position of the foreground image (Preview)
Screen_PrBgLeft_CMD	Analog_in	Defines the left position of the foreground image (Preview)
Screen_PrgBgSource_CMD	Analog_in	Use to select the foreground image of the screen (Program)
Screen_PrgBgTop_CMD	Analog_in	Defines the top position of the foreground image (Program)
Screen_PrgBgLeft_CMD	Analog_in	Defines the left position of the foreground image (Program)
Screen_Img_Foreground_FB[X]	Analog_out	The image index selected to be on foreground frame X
Screen_PrBgSource_FB	Analog_out	Current screen foreground frame value (Preview)
Screen_PrBgTop_FB	Analog_out	Top position of the foreground image (Preview)
Screen_PrBgLeft_FB	Analog_out	Left position of the foreground image (Preview)
Screen_PrBgWidth_FB	Analog_out	The width of the foreground image (Preview)
Screen_PrBgHeight_FB	Analog_out	The left position of the foreground image (Preview)
Screen_PrgBgSource_FB	Analog_out	Current screen foreground frame value (Program)
Screen_PrgBgTop_FB	Analog_out	Top position of the foreground image (Program)
Screen_PrgBgLeft_FB	Analog_out	Left position of the foreground image (Program)
Screen_PrgBgWidth_FB	Analog_out	The width of the foreground image (Program)
Screen_PrgBgHeight_FB	Analog_out	The left position of the foreground image (Program)

Preview_Sources

Screen_PrSource_Cmd[X]	Analog_in	The source to be assigned to layer X (Preview)
Screen_PrSource_FB[X]	Analog_in	The source assigned to layer X (Preview)

Preview_Position_Size

Screen_PrTop_Cmd[X]	Analog_in	Assign layer X top value (Preview)
Screen_PrLeft_Cmd[X]	Analog_in	Assign layer X left value (Preview)
Screen_PrWidth_Cmd[X]	Analog_in	Assign layer X width value (Preview)
Screen_PrHeight_Cmd[X]	Analog_in	Assign layer X height value (Preview)
Screen_PrTop_FB[X]	Analog_out	Layer X top value (Preview)
Screen_PrLeft_FB[X]	Analog_out	Layer X left value (Preview)
Screen_PrWidth_FB[X]	Analog_out	Layer X width value (Preview)
Screen_PrHeight_FB[X]	Analog_out	Layer X height value (Preview)

Program_Sources

Screen_PrgSource_Cmd[X]	Analog_in	The source to be assigned to layer X (Program)
Screen_PrgSource_FB[X]	Analog_in	The source assigned to layer X (Program)

Program_Position_Size

Screen_PrgTop_Cmd[X]	Analog_in	Assign layer X top value (Program)
Screen_PrgLeft_Cmd[X]	Analog_in	Assign layer X left value (Program)
Screen_PrgWidth_Cmd[X]	Analog_in	Assign layer X width value (Program)
Screen_PrgHeight_Cmd[X]	Analog_in	Assign layer X height value (Program)
Screen_PrgTop_FB[X]	Analog_out	Layer X top value (Program)
Screen_PrgLeft_FB[X]	Analog_out	Layer X left value (Program)
Screen_PrgWidth_FB[X]	Analog_out	Layer X width value (Program)
Screen_PrgHeight_FB[X]	Analog_out	Layer X height value (Program)

Audio

Screen_Audio_Cmd	Analog_in	Defines screen audio source
Screen_Audio_FB	Analog_out	The screen audio source
Screen_AudioLayer_Preview_CMD	Analog_in	The source to be assigned to the Screen audio layer (Preview)
Screen_AudioLayer_Program_CMD	Analog_in	The source to be assigned to the Screen audio layer (Program)
Screen_AudioLayer_Preview_FB	Analog_out	The source assigned to the Screen audio layer (Preview)
Screen_AudioLayer_Program_FB	Analog_out	The source assigned to the Screen audio layer (Program)

Borders

Screen_EnablePrevBorder_Cmd[X]	Digital_in	Pulse this signal to enable layer X border (Preview)
Screen_DisablePrevBorder_Cmd[X]	Digital_in	Pulse this signal to disable layer X border (Preview)
Screen_EnableProgBorder_Cmd[X]	Digital_in	Pulse this signal to enable layer X border (Program)
Screen_DisableProgBorder_Cmd[X]	Digital_in	Pulse this signal to disable layer X border (Program)
Screen_PrevBorderEnabled_FB[X]	Digital_out	Equals 1 when layer X border is enabled (Preview)
Screen_ProgBorderEnabled_FB[X]	Digital_out	Equals 1 when layer X border is enabled (Program)
Screen_BorderColor_Cmd[X]	String_in	The border color using R,G,B format: red would be: "255,0,0"