

Manual

April 2019

VFC HDMI

HDMI / SDI CROSS CONVERTER

VFC PAL

QUAD PAL / NTSC / SECAM to SDI CONVERTER

VFC VGA

VGA / SDI to HDMI / SDI CONVERTER

VFC SDI SPLITTER

2:4 SDI SPLITTER with EYEANALYSER



VFC Video Format Converter

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Timing & I/O Summary

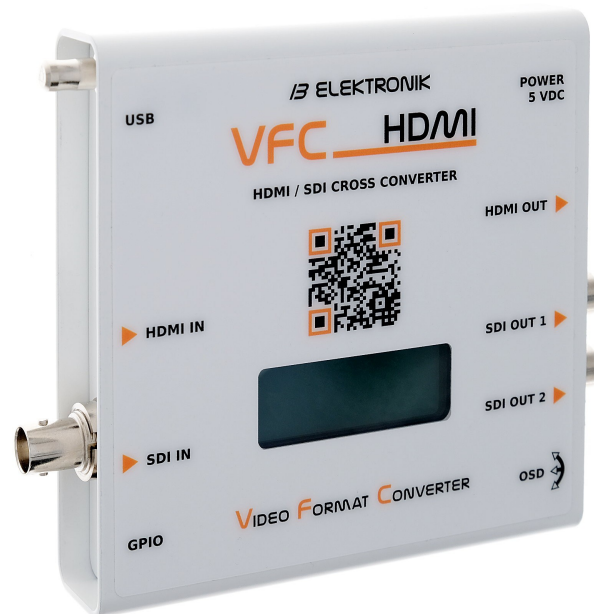
Timing	Type	VFC HDMI	VFC PAL	VFC VGA	VFC SDI
PAL	CVBS		I		
NTSC	CVBS		I		
SECAM	CVBS		I		
720x480i 59.54 Hz	SD-SDI	I	O	I	I/O
720x560i 50.00 Hz	SD-SDI	I	O	I	I/O
1280x720p 50.00 Hz	HD-SDI	I/O		I/O	I/O
1280x720p 59.94 Hz	HD-SDI	I/O		I/O	I/O
1280x720p 60.00 Hz	HD-SDI	I/O		I/O	I/O
1920x1080i 50.00 Hz	HD-SDI	I/O		I/O	I/O
1920x1080i 59.94 Hz	HD-SDI	I/O		I/O	I/O
1920x1080i 60.00 Hz	HD-SDI	I/O		I/O	I/O
1920x1080p 25.00 Hz	HD-SDI	I/O		I/O	I/O
1920x1080p 29.97 Hz	HD-SDI	I/O		I/O	I/O
1920x1080p 30.00 Hz	HD-SDI	I/O		I/O	I/O
1920x1080p 50.00 Hz	3G-SDI	I/O		I/O	I/O
1920x1080p 59.94 Hz	3G-SDI	I/O		I/O	I/O
1920x1080p 60.00 Hz	3G-SDI	I/O		I/O	I/O
SVGA (800x600)	HDMI	I			
XGA (1024x768)	HDMI	I/O		O	
SXGA (1280x1024)	HDMI	I/O		O	
UXGA (1600x1200)	HDMI	I/O		O	
HD (1920x1080)	HDMI	I/O		O	
WUXGA (1920x1200)	HDMI	I/O		O	
720x480i 59.54 Hz	RGB / YCbCr			I	
720x560i 50.00 Hz	RGB / YCbCr			I	
SVGA (640x480)	RGB / YCbCr			I	
XGA (1024x768)	RGB / YCbCr			I	
1280x800	RGB / YCbCr			I	
SXGA (1280x1024)	RGB / YCbCr			I	
UXGA (1600x1200)	RGB / YCbCr			I	
WUXGA (1920x1200)	RGB / YCbCr			I	
SD 720x480i 59.54 Hz	RGB / YCbCr			I	
SD 720x560i 50.00 Hz	RGB / YCbCr			I	
HD 1280x720p 50, 59,94, 60Hz	RGB / YCbCr			I	
HD 1920x1080i 50, 59,94, 60Hz	RGB / YCbCr			I	
HD 1920x1080p 25, 29,97, 30, 50, 59,94, 60Hz	RGB / YCbCr			I	
HD (1920x1080i 50, 59,94, 60Hz)	RGB / YCbCr			I	

VFC HDMI

The VFC-HDMI is a scaler / frame rate converter with SDI, HDMI or Test Pattern as input. The scaler can drive HDMI and SDI out. As alternative, both outputs can be used as loop of their corresponding input signal.

OR
Pre / Post Production
Live Events

VFC HDMI is the ideal solution where ever is the need to establish a well defined timing environment. Unique auto detection and GPIO features ease up to handle various scenarios.



1 HDMI IN

1 SDI IN

1 HDMI OUT

2 SDI OUT

LCD and OSD for easy configuration

One Hand Multidirectional Switch

IR Remote available

2 GPIO

USB for Control and Update

ZPA connector for additional safety in medical applications

Comes with Medical Power Supply

SD SDI HD SDI 3G SDI

Automatische Eingangsumschaltung

Off, Normal, Priority

Aspect Ratio

Auto, Fullscreen, Overscan

Interlaced / Progressive Timings

Protected Mode

User Presets

Supply Voltage 5V DC

Current 1.5A

Dimension 110x110x25mm

Operational 0 - 60°C

Package

VFC, 15 W Power supply , USB Cable



ZPA

Ø 6mm ZPA Connector for additional safety in medical applications. **Nevertheless this scaler/converter is NOT a medical device.**

USB

Connector type: Micro USB
Used for communication and optional supply voltage 5V / 1.5 A (max 2A)

HDMI IN

Connector type: HDMI

SDI IN

Connector type: BNC, 75Ohm

IR Window

For remote control

GPIO

Connector type: Eurostyle Terminal Block, 3.5mm, 4 contacts, Molex 39502-1004 Mating type: Most 3.5mm pitch Industry Standard Plugs, eg. Molex 39500, 39503

Pinout

Pin 1: GPIO 1 (Button, Switch, 3,3V Level)

Pin 2: GPIO 2 (Button, Switch, 3,3V Level)

Pin 3: optional 5V supply Pin 4: GND

DC 5V

Connector type: CUI PJ-066B
Locking: 5/16 – 32NEF – 2A Thread
Center pin: 0.100" (2.5mm) 5V
Mating: Switchcraft 760K

HDMI OUT

Connector type: HDMI

SDI OUT 1 / 2

Connector type: BNC, 75Ohm

OSD

The multidirectional switch UP , DOWN, MENU allows navigation and adjustment all system properties which are shown in the LCD and OSD.

Push DOWN to select next menu item

Push UP to select previous menu item

Push MENU to enter adjust mode for the selected menu item.

Push DOWN to decrease items value

Push UP to increase items value

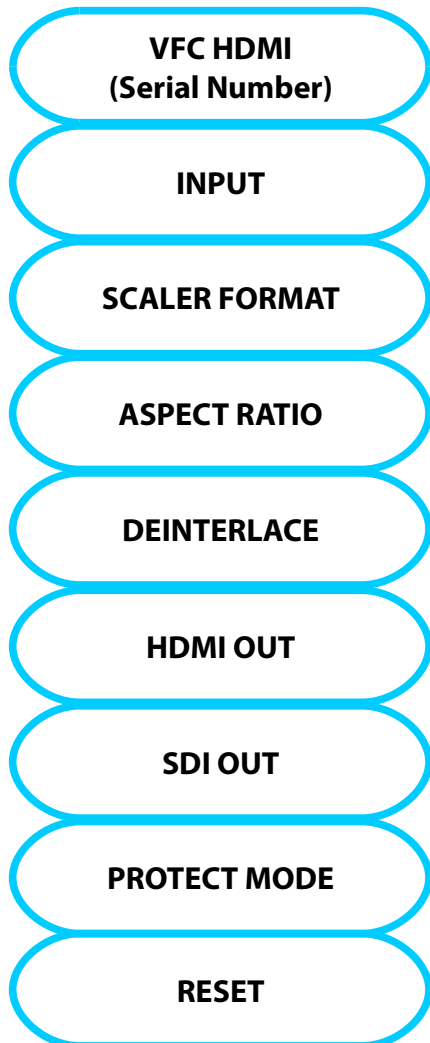
Push MENU to go back to menu level (select items) and save adjusted value.

When no item is selected Hold MENU for 5 seconds to enter Settings Mode.

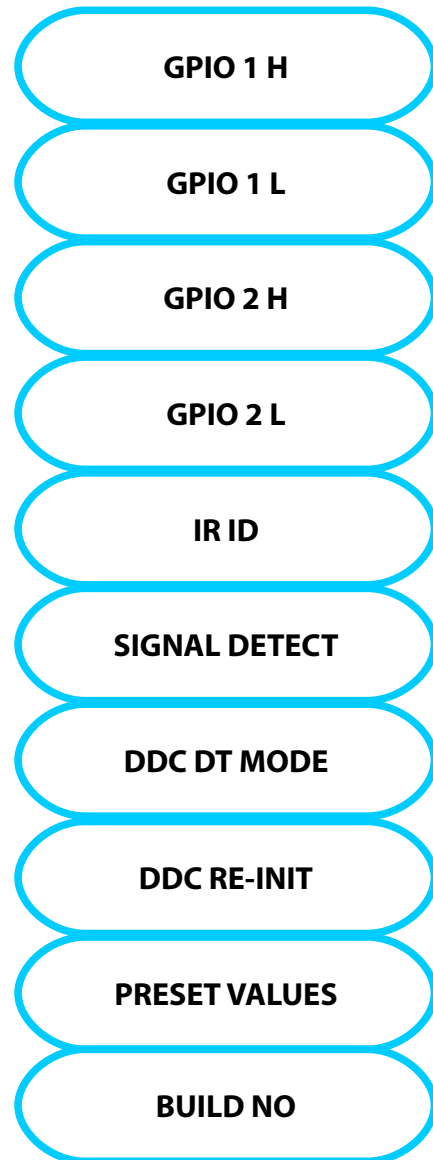
When no item is selected Push MENU to enter Adjustment Mode.

VFC HDMI Menu Structure

Adjustment Mode



Settings Mode



VFC HDMI Adjustments

SCALER INPUT

(HDMI)
SDI
TEST PATTERN

SCALERFORMAT

720p50
720p59.94
720p60
1080p25
1080p29.97
1080p30
1080i50
1080i59.94
1080i60
1080p50
1080p59.94
(1080p60)
1024x768
1280x1024
1600x1200
1920x1200

ASPECT RATIO

(AUTO)
If necessary, Aspect Ratio is solved by black borders.
FULLSCREEN
Aspect Ratio is ignored.
OVERSCAN
If necessary, Aspect Ratio is solved by pixel or line cropping.

DEINTERLACE

Sport
(Adaptive)
Weaving

HDMI OUT

(SCALER)
HDMI IN

SDI OUT

(SCALER)
SDI IN

PROTECT MODE

Protected
Protected
Protected
(Unprotected)
Protected
Protected
Protected

In Protected Mode all adjustments except this one are protected. Select several times + or - to switch to Unprotected. This function prevent to change settings accidentally.

RESET

Reset all Adjustments to their default value. Settings are preserved.

(value) = default

VFC HDMI Settings

GPIO1 H

GPIO allows to increase or decrease a specific function of the adjustments or select a specific value for a function.

(Nothing)

Input +

Input -

Input SDI

Input HDMI

Input TP

Scaler Format +

Scaler Format -

SF 720p50

SF 720p59.97

SF 720p60

SF 1080p25

SF 1080p29.94

SF 1080p30

SF 1080i50

SF 1080i59.97

SF 1080i60

SF 1080p50

SF 1080p59,97

SF 1080p60

SF 1024x768

SF 1280x1024

SF 1600x1200

SF 1920x1200

Aspect Ratio +

Aspect Ratio -

AspectR Auto

AspectR FS (Fullscreen)

AspectR OS (Overscan)

Dint. +

Dint. -

Dint. Sport

Dint. Adapt.

Dint. Weav.

HDMIo +

HDMIo Scaler

HDMIo HDMI In

SDIo +

SDIo Scaler

SDIo SDI In

Reset

GPIO1 L

refer GPIO1H except default value:
(Input SDI)

GPIO2 H

refer GPIO1H

GPIO2 L

refer GPIO1H except default value:
(Input HDMI)

IR CODE

01..99: Allows operation of multiple VFC Devices with on IR-Remote. A specific VFC is selected by sending the desired IR Code. Any VFC which receives an non matching IR Code will ignore further IR commands until receiving its own IR code. By default IR Code 00 means this function is disabled.

SIGNAL DETECT

(Off)

On

On HDMI Prio

On SDI Prio

When ON, a new signal applied is automatically selected. After all, an actual input with active signal, marked as PRIO is never changed. Additionally after Signal Loss on the actual input an other input

with signal applied is selected. Again, an active input, marked as PRIO is preferred rather than any other input.

DDC MODE

(AUTO)

Detailed Timing of the HDMI DDC EEPROM is set according to selected SCALER FORMAT.

FIXED

Detailed Timing of the HDMI DDC EEPROM is fixed.

DDC RE-INIT

RE-Programming of the entire HDMI DDC EEPROM.

PRESETVALUES

(Factory data)

User data

When switching to „User data“ the actual Settings will be saved as default values to be used for RESET.

Switching to Factory data reinitialize the original factory default values to be used for RESET

BUILD NO ID

Shows the software build number YYXXX ID.

YY = Year. XXX = counting.

ID = Firmware type identifier (among VFC PAL, VFC HDMI, VFC VGA and others)

This item is not adjustable.

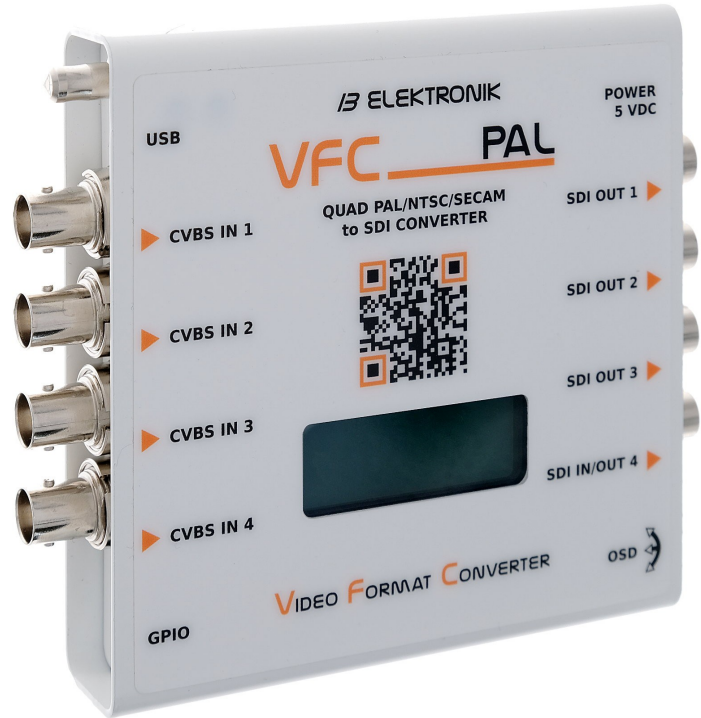
(value) = default
HDMIo = HDMI OUT
SDIo = SDI OUT

VFC PAL

VFC PAL converts simultaneously 4 Composite Video Signals to 4 SD-SDI signals. For NTSC input signals output is 525i 60Hz , for PAL / SECAM signals output is 625i 50Hz. The outputs can be used for matrix/distribution amplifier of the input signals.

OR
Live Events
Security

VFC PAL is the ideal solution to connect a broad range of legacy video sources to todays video distribution and monitor equipment. Unique GPIOs features ease up to handle various scenarios.



VFC-PAL 4 Composite Video In
VFC-PAL/S 4 Y/C Video In
VFC-PAL/FS 2 CVBS & 2 Y/C Video In
4 SD SDI Out
LCD for easy configuration
One Hand Multidirectional Switch
IR Remote available
2 GPIO
USB

ZPA connector for additional safety in medical applications

Comes with Medical Power Supply

BALUN coupled signals supported
Signal Conditioning for Each Input
Brightness
Contrast
Saturation

Supply Voltage 5V DC
Current 0.7A
Dimension 110x110x25mm
Operational 0 - 60°C

Package

VFC 15 W Power supply USB Cable



ZPA

Ø 6mm ZPA Connector for additional safety in medical applications. **Nevertheless this scaler/converter is NOT a medical device.**

USB

Connector type: Micro USB
Used for communication and optional supply voltage 5V / 1.2 A (max 2A)

FBAS IN 1..4

Connector type: BNC, 75Ohm

IR Window

For remote control

GPIO

Connector type: Eurostyle Terminal Block, 3.5mm, 4 contacts, Molex 39502-1004
Mating type: Most 3.5mm pitch Industry Standard Plugs, e.g. Molex 39500, 39503

Pinout

Pin 1: GPIO 1 (Button, Switch, 3,3V Level)
Pin 2: GPIO 2 (Button, Switch, 3,3V Level)
Pin 3: optional 5V supply
Pin 4: GND

DC 5V

Connector type: CUI PJ-066B
Locking: 5/16 – 32NEF – 2A Thread
Center pin: 0.100" (2.5mm) 5V
Mating: Switchcraft 760K

SDI OUT 1..4

Connector type: BNC, 75Ohm

OSD

The multidirectional switch UP , DOWN, MENU allows navigation and adjustment all system properties which are shown in the LCD and OSD.
Push DOWN to select next menu item
Push UP to select previous menu item
Push MENU to enter adjust mode for the selected menu item.
Push DOWN to decrease items value
Push UP to increase items value
Push MENU to go back to menu level (select items)

When no item is selected Hold MENU for 5 seconds to enter Settings Mode.

When no item is selected Push MENU to enter Adjustment Mode.

VFC PAL Menu Structure

Adjustment Mode



Settings Mode



VFC PAL Adjustments

SDI OUT 1

(CVBS IN 1)
CVBS IN 2
CVBS IN 3
CVBS IN 4

SDI OUT 3

CVBS IN 1
CVBS IN 2
(CVBS IN 3)
CVBS IN 4

ADJUST

CVBS IN 1
CVBS IN 2
CVBS IN 3
CVBS IN 4

BRIGHTNESS (ADJUST)

0..200 (100)

CONTRAST (ADJUST)

0..200 (100)

SDI OUT 2

CVBS IN 1
(CVBS IN 2)
CVBS IN 3
CVBS IN 4

SDI OUT 4

CVBS IN 1
CVBS IN 2
CVBS IN 3
(CVBS IN 4)

Select the CVBS input which is adjusted by the next parameters Brightness, Contrast, Saturation.

SATURATION (ADJUST)

0..200 (100)

RESET

Reset all Adjustments to their default value. Settings are preserved.

VFC PAL Settings

GPIO1 H

GPIO allows to increase or decrease a specific function of the adjustments or select a specific value for a function.

(Nothing)

SDIOUT1 +

SDIOUT1 -

SDIOUT1 CVBS IN 1

SDIOUT1 CVBS IN 2

SDIOUT1 CVBS IN 3

SDIOUT1 CVBS IN 4

SDIOUT2 +

SDIOUT2 -

SDIOUT2 CVBS IN 1

SDIOUT2 CVBS IN 2

SDIOUT2 CVBS IN 3

SDIOUT2 CVBS IN 4

SDIOUT3 +

SDIOUT3 -

SDIOUT3 CVBS IN 1

SDIOUT3 CVBS IN 2

SDIOUT3 CVBS IN 3

SDIOUT3 CVBS IN 4

SDIOUT4 +

SDIOUT4 -

SDIOUT4 CVBS IN 1

SDIOUT4 CVBS IN 2

SDIOUT4 CVBS IN 3

SDIOUT4 CVBS IN 4

Reset

GPIO1 L

refer GPIO1H except default value: (SDIOUT1 +)

GPIO2 H

refer GPIO 1H

GPIO2 L

refer GPIO1H except default value: (SDIOUT1 -)

IR Code

01..99: Allows operation of multiple VFC Devices with on IR-Remote. A specific VFC is selected by sending the desired IR Code. Any VFC which receives a non matching IR Code will ignore further IR commands until receiving its own IR code. By default IR Code 00 means this function is disabled.

(value) = default

VFC VGA

The VFC VGA is a Scaler / Frame rate Converter with SDI, VGA or Test Pattern as input. The scaler can drive HDMI and SDI out. As alternative, SDI outputs can be used as loop of SDI input signal. The versatile VGA input can be used to convert R G B VESA Timings (800x600 .. 1600x1200) as well as SD and HD YCbCr or RGsB signals.

The Sync on Green, respective Sync on Luma (SOY) Signal can be used for self-determine between RGB and YCbCr input signal levels.

OR
Pre / Post Production
Live Events
CRT Replacement

VFC VGA is the ideal solution to connect a broad range of legacy video sources to today's video distribution and monitor equipment. Unique auto detection and GPIOs features ease up to handle various scenarios.



1 VGA IN

1 SDI IN

1 HDMI OUT

2 SDI OUT

LCD and OSD for easy configuration

One Hand Multidirectional Switch

IR Remote available

2 GPIO

USB

ZPA connector for additional safety in medical applications

Comes with Medical Power Supply

SoG C-SYNC H/V SYNC

SD SDI HD SDI 3G SDI

Auto Input Selection for Scaler

Off, Normal, Priority

Aspect Ratio

Interlaced / Progressive Timings

Protected Mode

User Presets

Noise Reduction for EGA, CGA

Supply Voltage 5V DC

Current 1.5A

Dimension 110x110x25mm

Operational 0 - 60°C

Package

VFC 15 W Power supply USB Cable



ZPA

Ø 6mm ZPA Connector for additional safety in medical applications. **Nevertheless this scaler/converter is NOT a medical device.**

USB

Connector type: Micro USB
Used for communication and optional supply voltage 5V.

VGA IN

Connector type: HD DSub

SDI IN

Connector type: BNC, 75Ohm

IR Window

For remote control

GPIO

Connector type: Eurostyle Terminal Block, 3.5mm, 4 contacts, Molex 39502-1004 Mating type: Most 3.5mm pitch Industry Standard Plugs, eg. Molex 39500, 39503

Pinout

Pin 1: GPIO 1 (Button, Switch, 3,3V Level)

Pin 2: GPIO 2 (Button, Switch, 3,3V Level)

Pin 3: optional 5V supply Pin 4: GND

DC 5V

Connector type: CUI PJ-066B
Locking: 5/16 – 32NEF – 2A Thread
Center pin: 0.100" (2.5mm) 5V
Mating: Switchcraft 760K

HDMI OUT

Connector type: HDMI

SDI OUT 1 / 2

Connector type: BNC, 75Ohm

OSD

The multidirectional switch UP , DOWN, MENU allows navigation and adjustment all system properties which are shown in the LCD and OSD.

Push DOWN to select next menu item

Push UP to select previous menu item

Push MENU to enter adjust mode for the selected menu item.

Push DOWN to decrease items value

Push UP to increase items value

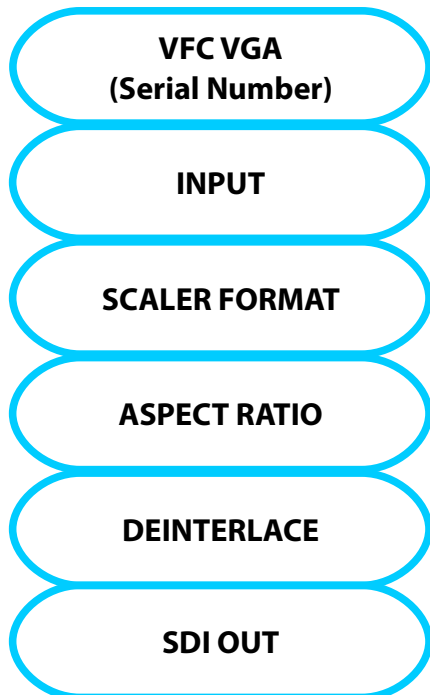
Push MENU to go back to menu level (select items) and save the adjusted value.

When no item is selected Hold MENU for 5 seconds to enter Settings Mode.

When no item is selected Push MENU to enter Adjustment Mode.

VFC VGA Menu Structure

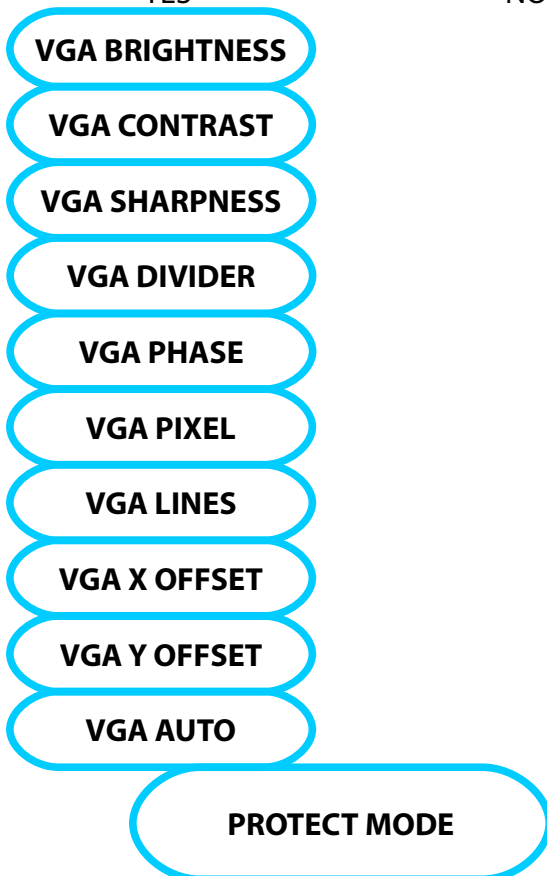
Adjustment Mode



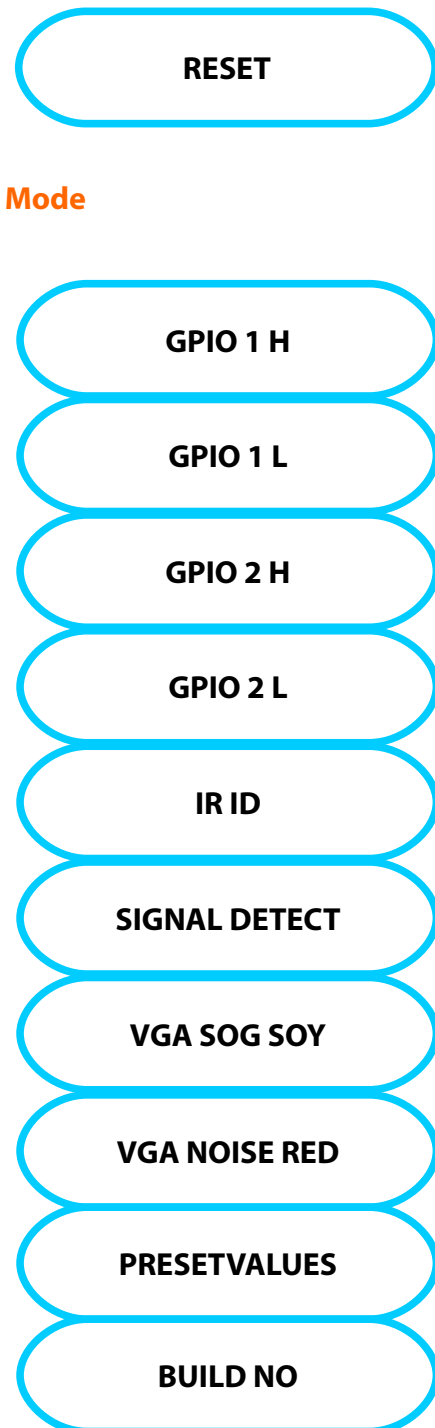
INPUT = VGA

YES

NO



Settings Mode



VFC VGA Adjustments

SCALERINPUT

(VGA)
SDI
TEST PATTERN

At VGA input basing on total line count and frame rate a specific VESA resolution is chosen out of a VESA Timing table. Within a tolerance of +/- 32 pixels and +/- 32 lines VGA X OFFSET and VGA Y OFFSET is optimized by content detection. Also Phase is automatically adjusted.

User adjustments of the various VGA Parameters are stored in up to 7 VGA Timing Blocks. If more then 7 different timings has to be stored the oldest timing is removed. The identifier for those blocks are line count and frame rate.

SCALERFORMAT

720p50
720p59.94
720p60
1080p25
1080p29.97
1080p30
1080i50
1080i59.94
1080i60
1080p50
1080p59.94
1080p60
1024x768
1280x1024
1600x1200
1920x1200

ASPECT RATIO

(AUTO)

(value) = default

If necessary, Aspect Ratio is solved by black borders.

FULLSCREEN

Aspect Ratio is ignored.

OVERSCAN

If necessary, Aspect Ratio is solved by pixel or line cropping.

DEINTERLACE

Sport
(Adaptive)
Weaving

SDI OUT

(SCALER)
SDI IN

VGA BRIGHTNESS

0..200 (100)

VGA CONTRAST

0..200 (100)

VGA SHARPNESS

Off
(Auto)
On

Off = linear scaling. In Auto mode scaling is achieved by pixel doubling as soon input resolution drops below 800x600, except for 625i (PAL) and 525i (NTSC). ON scaling is allways done by pixel doubling.

VGA DIVIDER

Sample rate

VGA PHASE

0..31: Sample phase

VGA PIXEL

Active Pixel (e.g. 1280)

VGA LINES

Active Lines (e.g. 1024)

VGA X OFFSET

Horizontal Shift

VGA Y OFFSET

Vertical Shift

VGA AUTO

Auto detection of input resolution.

Basing on actual given VGA PIXEL and VGA LINES a matching VGA DIVIDER, VGA X OFFSET, VGA Y OFFSET and VGA PHASE a established by autodetection and stored in the VGA Timing Block

PROTECT MODE

Protected
Protected
Protected
(Unprotected)
Protected
Protected
Protected

In Protected Mode all adjustments except this one are protected. Select several times + or - to switch to Unprotected. This function prevent to change settings accidentally.

RESET

Reset all user adjustments to their default value. Settings are preserved.

VFC VGA Settings

GPIO1 H

GPIO allows to increase or decrease a specific function of the adjustments or select a specific value for a function.

(Nothing)

Input +

Input -

Input SDI

Input VGA

Input TP

Scaler Format +

Scaler Format -

SF 720p50

SF 720p59.97

SF 720p60

SF 1080p25

SF 1080p29.94

SF 1080p30

SF 1080i50

SF 1080i59.97

SF 1080i60

SF 1080p50

SF 1080p59,97

SF 1080p60

SF 1024x768

SF 1280x1024

SF 1600x1200

SF 1920x1200

Aspect Ratio +

Aspect Ratio -

AspectR Auto

AspectR FS (Fullscreen)

AspectR OS (Overscan)

Dint. +

Dint. -

Dint. Sport

Dint. Adapt.

SDIo +

SDIo Scaler

SDIo SDI IN

VGA Brightness +

VGA Brightness -

VGA Contrast +

VGA Contrast -

VGA Sharpness +

VGA Sharpness -

VGA Sharp Off

VGA Sharp Auto

VGA Sharp On

VGA Divider +

VGA Divider -

VGA Phase +

VGA Phase -

VGA Pixel +

VGA Pixel -

VGA Lines +

VGA Lines -

VGA Xoffset +

VGA Xoffset -

VGA Yoffset +

VGA Yoffset -

VGA Auto

VGA Noisereduction +

Reset

GPIO1 L

refer GPIO1H except default value:

(Input VGA)

GPIO2 H

refer GPIO1H

GPIO2 L

refer GPIO1H except default value:

(Input SDI)

IR CODE

01..99: Allows operation of RGB

multiple VFC Devices with on IR- (YCbCr)

Remote. A specific VFC is selected

by sending the desired IR Code. Input signals with Sync on Green

Any VFC which receives an non are handled as RGB or YCbCr

matching IR Code will ignore signals.

further IR commands until

receiving its own IR code. By default IR Code 00 means this function is disabled.

SIGNAL DETECT

(Off)

On

On VGA Prio

On SDI Prio

When ON, a new signal applied is automatically selected. After all, an actual input with active signal, marked as PRIO is never changed.

Additionally after Signal Loss on the actual input an other input with signal applied is selected. Again, an active input, marked as PRIO is preferred rather than any other input.

DDC MODE

(AUTO)

Detailed Timing of the VGA DDC EEPROM is set according to selected SCALER FORMAT.

FIXED

Detailed Timing of the VGA DDC EEPROM is fixed.

DDC RE-INIT

RE-Programming of the entire VGA DDC EEPROM.

VGA SOG SOY

VGA NOISE REDUCTION

Off
(Auto)
On

For legacy timings with low color depth. (e.g. 16 Colors) up to 8 signal levels will be detected by a histogram function. The color resolution artificially will be reduced to the detected levels. Analog noise will be removed nearly complete of the signal..

Despite special care is take to recovery the color characteristics

of the original levels this has to be qualified in were color is mission critical. Also a AGC functionality is provided.

In Automatic Mode Noise Reduction will be applied to timings below 800x600 except for 525i and 625i.

PRESETVALUES

(Factory data)

User data

When switching to „User data“ the

actual Settings will be saved as default values to be used for RESET.

Switching to Factory data reinitialize the original factory default values to be used for RESET

BUILD NO ID

Shows the software build number YYXXX ID.

YY = Year. XXX = counting.

ID = Firmware type identifier (among VFC PAL, VFC HDMI, VFC VGA and others)

This item is not adjustable.

VFC SDI SPLITTER

The VFC SDI is a dual 1:2 SDI Splitter with Reclocker. Supported Standards are SD, HD and 3G SDI (270Mbits/s, 1,485Gbit/s, 2,97Gbits). Beside Dual 1:2 also single 1:4 signal reclocker / distribution / amplifier output modes are available.

OR

Pre / Post Production

Live Events

Security

VFC SDI SPLITTER is the ideal solution where easy setup of splitting or reclocking of up to two SDI signals is required.

Unique GPIOs features ease up to handle various scenarios.

With VFC Remote, Eye Pattern of both inputs are available to give you a rough idea about the quality of the input signal.

2 SDI IN

4 SDI OUT

LCD for easy configuration

One Hand Multidirectional Switch

IR Remote available

2 GPIO

USB

ZPA connector for additional safety in medical applications

Comes with Medical Power Supply



Eye Pattern

Supply Voltage

5V DC

Current

0.5A

Dimension

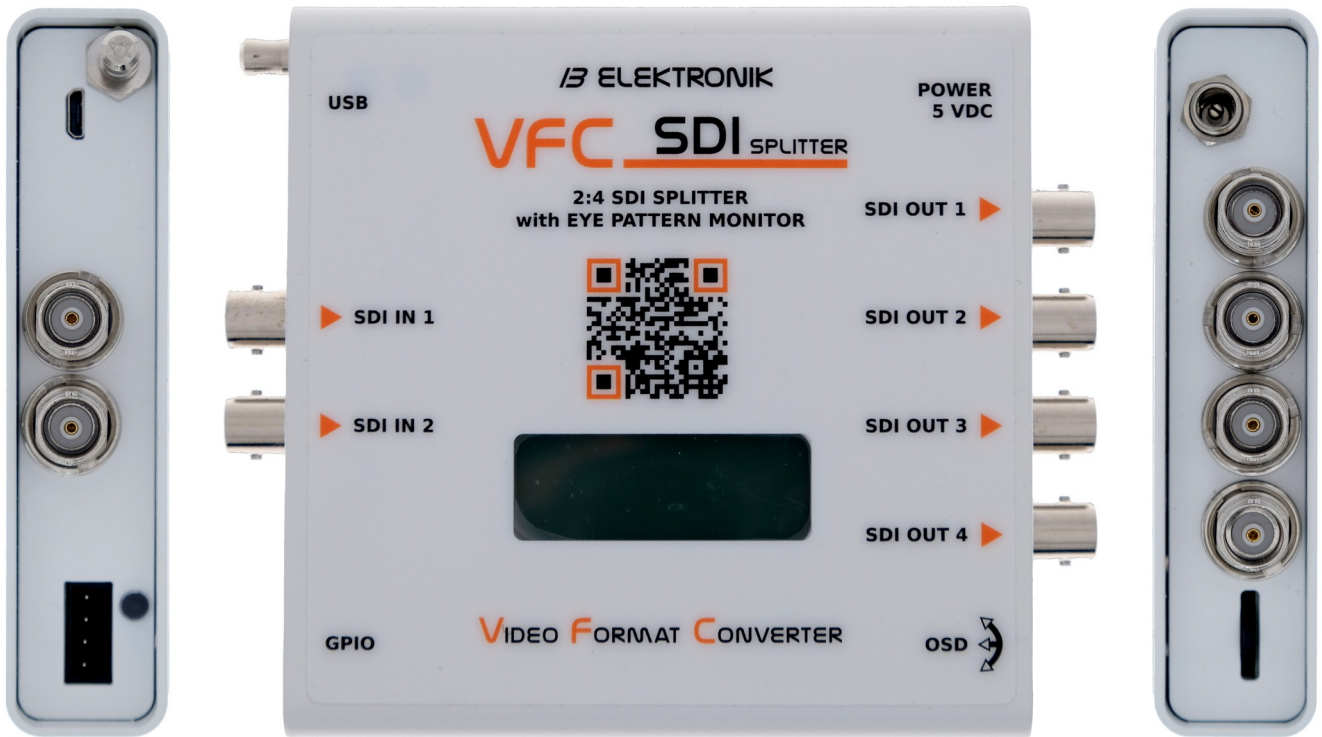
110x110x25mm

Operational

0 - 60°C

Package

VFC 15 W Power Supply USB Cable



ZPA

Ø 6mm ZPA Connector for additional safety in medical applications. **Nevertheless this scaler/converter is NOT a medical device.**

USB

Connector type: Micro USB
Used for communication and optional supply voltage 5V / 1.2 A (max 2A)

SDI IN 1, SDI IN 2

Connector type: BNC, 75Ohm

IR Window

For remote control

GPIO

Connector type: Eurostyle Terminal Block, 3.5mm, 4 contacts, Molex 39502-1004
Mating type: Most 3.5mm pitch Industry Standard Plugs, eg. Molex 39500, 39503

Pinout

Pin 1: GPIO 1 (Button, Switch, 3,3V Level)
Pin 2: GPIO 2 (Button, Switch, 3,3V Level)
Pin 3: optional 5V supply
Pin 4: GND

DC 5V

Connector type: CUI PJ-066B
Locking: 5/16 – 32NEF – 2A Thread
Center pin: 0.100" (2.5mm) 5V
Mating: Switchcraft 760K

SDI OUT 1-4

Connector type: BNC, 75Ohm
Routing options
SDI IN 1 goes to SDI OUT 1 and SDI OUT 2
SDI IN 2 goes to SDI OUT 3 and SDI OUT 4
SDI IN 1 goes to SDI OUT 1 – 4
SDI IN 2 goes to SDI OUT 1 – 4

OSD

The multidirectional switch UP , DOWN, MENU allows navigation and adjustment all system properties which are shown in the LCD and OSD.
Push DOWN to select next menu item
Push UP to select previous menu item
Push MENU to enter adjust mode for the selected menu item.
Push DOWN to decrease items value
Push UP to increase items value
Push MENU to go back to menu level (select items)

When no item is selected Hold MENU for 5 seconds to enter Settings Mode. When no item is selected Push MENU to enter Adjustment Mode.

Contact:

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