Specs

HDfury3 is the world's most powerful HDCP deciphering converter ever built! Introducing new features such as two HDMI 1.3 inputs with Deep Colour(TM) support and auto/manual switching, 5.1 Dolby Digital/DTS sound, perfect image centering in both component and RGB modes, output resolution limiting, and user customizable options via DIP switches!

How does the HDfury3 compare to previous versions?

Feature	HDfury1	HDfury2	HDfury3
Compatibility	GOOD(Issues with some devices such as HDMI receivers & switchers)	BETTER(Not compatible with Deep Color mode)	New BEST
Data processor	10 bit, 175 Mhz	11 bit, 200 Mhz	New **11 bit, 225 Mhz**
Pixel clock bandwidth	165 Mhz	165 Mhz	New 225 Mhz
Maximum Resolution supported	1080p/60	1080p/60	New 1080p/72
Number of Inputs	One	One	New Two
Input Type	DVI-D	HDMI 1.1/1.2	New HDMI 1.3 with Deep Color^{TM} support
Output Type	RGBHV only	Component or RGBHV(user selectable)	**Component or RGBHV(user selectable)**
Long output cable support	NO	YES(25-35' cable)	New **YES!(40-50' cable)**
User adjustable sync in RGB output mode	NOThe H/V output sync matches the input sync	NOThe H/V output sync matches the input sync	New **YES!The H/V output sync may be forced positive or negative**
User selectable manual or automatic input switching	N/A	N/A	New **YES!**
Sound Output	NO	YESLimited to 2-channel in both analog and digital	New **YES!2-channel analog &Dolby/DTS 5.1 digital**
Image centering in component mode	N/A	YES, Automatic	**YES, Automatic**
Image centering in RGB mode	NO	NO	New **YES!User adjustable RGB image centering via pushbuttons**
Colour Depth Upscaling	NO	YES(always on in all modes,not adjustable)	New **YES!(user selectable in all modes)**
Lower power consumption	NO	YES(0.5A power supply)	NO(1A power supply)
Firmware upgradeable	NO	YES(by manufacturer only)	**YES(by manufacturer only)**
EDID upgradeable	YES	YES	**YES**
Screen position adjustable via firmware	NO	YES	**YES**
User selectable EDID banks	NO	NO	New **YES!4 EDID banks (2 per input)**
User selectable output resolution limit settings	NO	NO(EDID must be reprogrammedby manufacturer or the user)	New **YES!Two EDID banks are provided: One supports all resolutions, the other supports up to 1080i with 24Hz disabled(Both banks may be reprogrammed as well)**
Output resolution limit and custom profiling	NO	YES	**YES**
Technology	4 layer mid density class 5 PCB	6 layer high densityclass 5 PCB	**6 layer high densityclass 5 PCB**
Ability to turn off the blue LED status light	NO	NO	New **YES!For those who want 100% control over the light in their Home Theater**

The HDfury1 was RGBHV output only with a DVI-D input.

The HDfury2 introduced component (Y/Pb/Pr) output support with HDMI 1.1/1.2 input, colour depth upscaling to render 16-235 as 0-255, stereo sound output in both optical and analog, and supported third party accessories support on its output. The HDfury2 had an RGB output similar to the HDfury1 but with extended colour depth range for better colours.

For the HDfury3, the component features from HDfury2 were kept while the RGB and audio output were completely re-worked and improved. We are now extremely proud to announce that the LEFT SHIFT issue in RGB mode is NO MORE! The HDfury3 allows users to shift the picture LEFT/RIGHT at will through push buttons. The colour depth upscaling feature is now also user selectable (ON/OFF via DIP switch). The HDfury3 also features 4 customizable EDID banks, two of which may be used to limit the output resolution to 1080i out of the box (again via DIP switches). A very useful feature for anyone with a display that supports 1080i but not 1080p and has sources that do not offer manual setting of the output resolution. Also included are two HDMI 1.3 inputs with Deep Colour support and MANUAL or AUTO switching. Owners of fussy RGB

displays will also be happy to learn that the H/V syncs may also now be force to either positive or negative via DIP switch. The RGB pixelclock bandwidth is greatly improved with 225Mhz support (1080p/72 is now perfectly resolved)!

For information on how to set these options see our **HDFury3 User Manual**.

HDfury3 main features:

- New 2x HDMI 1.3 input with Deep Colour support (Manual or Auto switch mode available, user selectable)
- Component (YPbPr/YCbCr) and VGA (RGBHV) video output
- New Sound output in both Analog and Digital Optical (S/PDIF 5.1 Dolby/DTS) through an innovative 3.5mm combo jack
- New 4x EDID banks (2 per channel)
- New Built-in user selectable output resolution limit settings
- New Customisation settings available through DIP SWITCH
- Perfectly and automatically center image in all standard NTSC/PAL component modes
- New Manually adjust horizontal screen position in all NTSC/PAL RGBHV modes
- New Performs Colour Depth Upscaling in all modes (ON/OFF user selectable)
- New Sync Polarity Inverter included
- Automatic SD/HD color-space selection
- Accept third party accessories on its output
- New Improved output cable driver for driving long cable runs (40-50′)
- Software upgradeable

HDfury3 specifications:

- Input: 2 x HDMI v1.3 (DVI 1.0 compatible)

  - Switch: Auto / PortA / PortB

- 10-bit deep color HDMI native support
- Output: VGA FEMALE output connector, 10 bit analog resolution.
- HDCP supported (Integrated HDCP decipher engine, Pre-programmed HDCP key)
- Horizontal shift capability for RGB output mode

  - Enabled with a dip-switch, applied with push-buttons

- Output sync polarity selector for RGB modes (dip switch)
- Output format: Either RGB or YPbPr, dip-switch selectable

  - YPbPr requires VGA->3RCA breakout cable

- All HD/SDTV formats from 1080p down to 480i, NTSC and PAL

  - Including 1080p @ 72Hz PAL and NTSC (for RGB output only)
  - Including 1080p @ 24Hz PAL and NTSC

- 11-bit 225MHz DAC processing (for true 10-bit analog output)
- Two separate Internal EDID EEPROM with complete CEA861 extension block

  - Dip-switch selectable
  - One EDID supports all formats
  - The other EDID is up to 1080i, and no 24Hz support (by default, reprogrammable)

- Automatic Input Format Detection: Digital YCbCr and RGB
- Full BTB and WTW support in YPbPb output
- Automatically switches color-spaces for both HDTV and SDTV
- Precise black levels – no black crush in any standard mode
- Dual purpose audio output connector

  - SPDIF digital output for 5.1 Dolby/DTS
  - Analog L/R 2-channel stereo

- Industry-Standard Compliance

  - HDMI 1.3
  - EIA/CEA-861D
  - DVI 1.0
  - HDCP 1.1

- Digital Video Input / Output

  - Dual integrated HDMI 1.3 cores
  - Supports DTV resolutions up to 1080p @ 72Hz or 720p/1080i @ 120Hz with 36-bit color depth.
  - Flexible digital video interface:- 24/30/36-bit RGB/YCbCr 4:4:4- 16/20/24-bit YCbCr 4:2:2- 8/10/12-bit YCbCr 4:2:2 (ITU-R BT.656)

- Integrated RGB Color Space Converter for both RGB-to-YCbCr and YCbCr-to-RGB (both 601 and 709) with true 12-bit accurate data using 14-bit processing
- 4:2:2 <> 4:4:4 converter with 12-bit accurate data using 14-bit processing
- Digital Audio Output
    - Industry-standard S/PDIF output
    - Supports 2-channel 32-192kHz stereo audio
    - Supports IEC60958 2-channel PCM
    - Capable of passing IEC61937 compressed audio (5.1 Dolby® Digital, DTS, etc.)