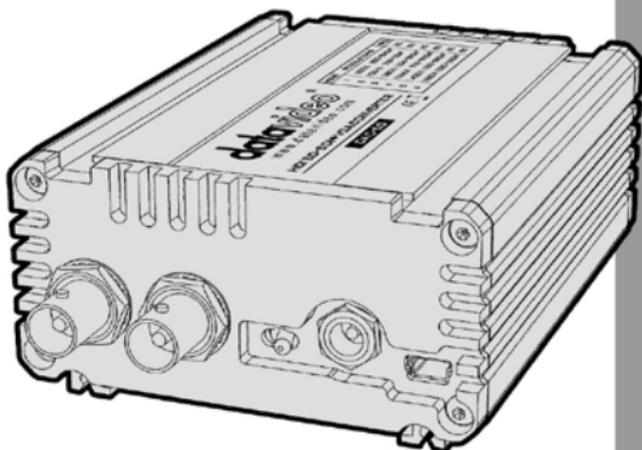# datavideo

HD/SD-SDI TO VGA CONVERTER
DAC-60
Instruction Manual

www.datavideo.com

Warranty

Standard Warranty

- Datavideo equipment is guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered by this warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- Cables & batteries are not covered under warranty.
- Warranty only valid within the country or region of purchase.
- Your statutory rights are not affected.

Two Year Warranty

- All Datavideo products purchased after 01-Oct.-2008 qualify for a free one year extension to the standard Warranty, providing the product is registered with Datavideo within 30 days of purchase. For information on how to register please visit www.datavideo.com or contact your local Datavideo office or authorized Distributors
- Certain parts with limited lifetime expectancy such as LCD Panels, DVD Drives, Hard Drives are only covered for the first 10,000 hours, or 1 year (whichever comes first).

Any second year warranty claims must be made to your local Datavideo office or one of its authorized Distributors before the extended warranty expires.

Disposal

For EU Customers only - WEEE Marking

This symbol on the product indicates that it will not be treated as household waste. It must be handed over to the applicable take back scheme for the recycling of electrical and electronic equipment. For more detailed information about the recycling of this product, please contact your local Datavideo office.

1. Front Panel
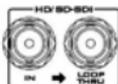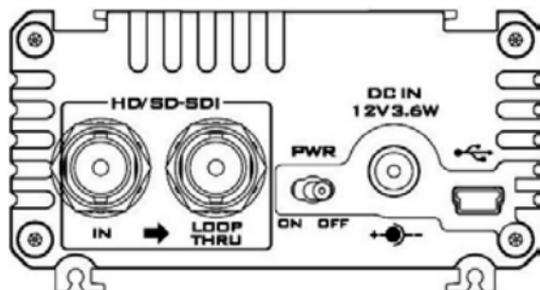
HD/SD - SDI IN / OUT

HD/SD - SDI input and pass-through output connectors.

Power Switch

Switches the power On / Off.

DC In Socket

Connects the supplied 12V PSU to this socket. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.
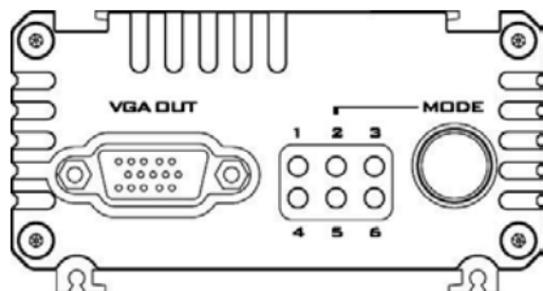

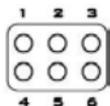
USB

Firmware Upgrade by PC or Box Controller

2. Rear Panel

VGA Output

Connects your VGA equipment to this connector

LED

The LEDs indicate VGA output format

Mode Select

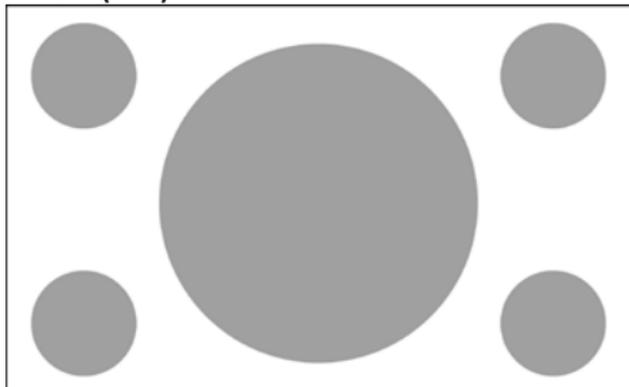Selects VGA Output Format (Please see Page 9 for more details).

Press and hold the **MODE** button for 3 second to enter **TV SCREEN MODE**, and then press this button again to switch screen ratio mode.

Note: OPTIMAL RATIO = 16:9 mode

3. Aspect Ratio Modes

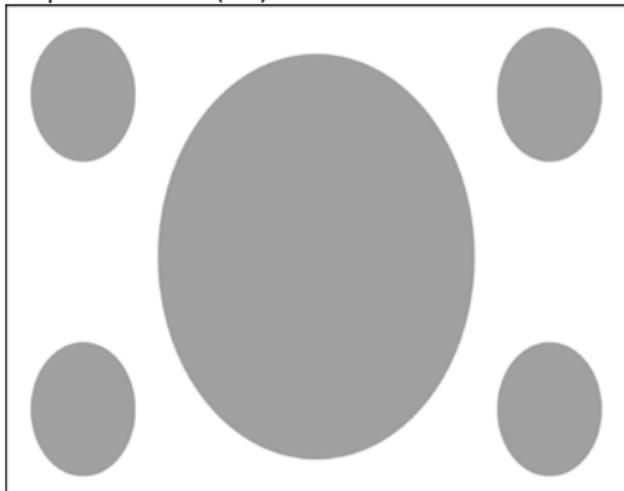The DAC-60 has three aspect ratio modes, which are **Full Screen, Dot by Dot and Optimal Ratio.**

Source = 1920x1080 (16:9)

1. **Full Screen Mode**

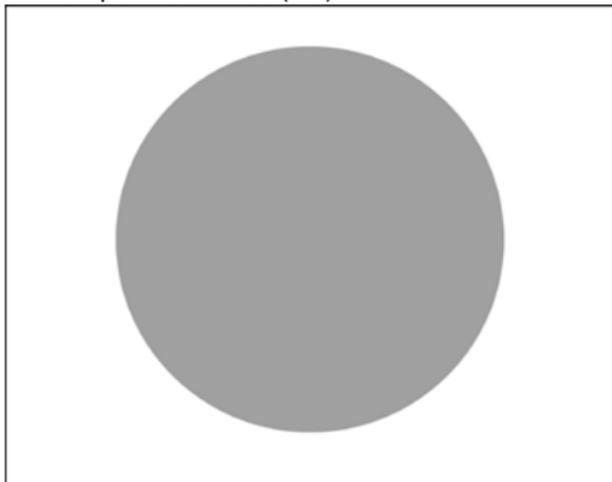   Source = 1920x1080 (16:9)
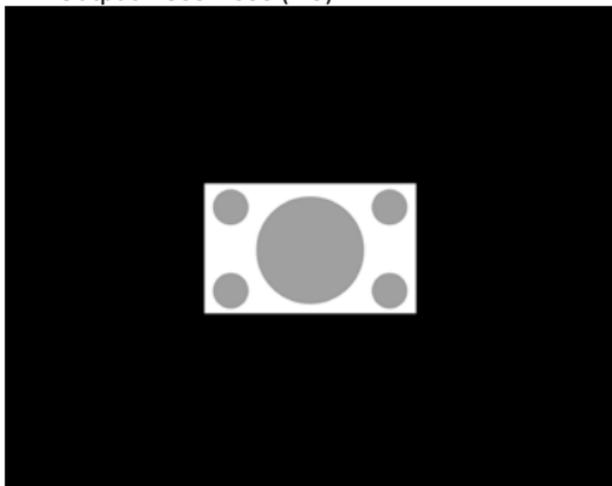   Output = 800x600 (4:3)

2. Dot by Dot Mode

A. Source = 1920 x 1080 (16:9)
   Output = 800 x 600 (4:3)
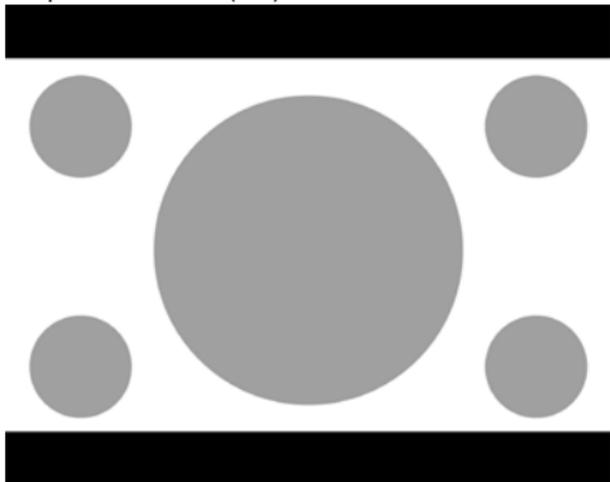

B. Source = 720 x 480i 60
   Output = 800 x 600 (4:3)

3. Optimal Ratio Mode

Source = 1920 x 1080 (16:9)
Output = 800 x 600 (4:3)

4. DAC-60 installation

1. First make sure your equipment is not connected to power or disconnect all power connectors before connecting the video equipment.

2. Connect Video Source (SDI) to the BNC input connector.

3. Connect VGA equipment to the VGA connector.

4. Connect optional SDI equipment to the BNC output connector.

5. Connect the +12V DC power adapter to the converter.
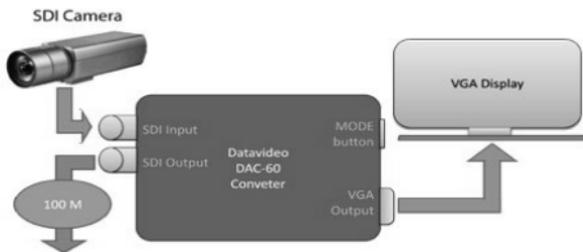
5. LED Indication

The DAC-60 works with nine presets, which can be selected by pressing the menu button.

| Resolution	LED Indication
800 x 600 60Hz	●○○ ○○○
1024 x 768 60Hz	○●○ ○○○
1280 x 800 60Hz	○○● ○○○
1280 x 1024 60Hz	○○○ ●○○
1366 x 768 60Hz	○○○ ○●○
1400 x 1050 60Hz	○○○ ○○●
1600 x 1200 60Hz	●●○ ○○○
1920 x 1080 60Hz	○●● ○○○
1920 x 1200 60Hz	○○● ●○○
●: LED ON ○: LED OFF	

6. Firmware Upgrade

Firmware is upgradable in the field using the integrated USB port.

Step 1- Connect the DAC-60 to PC by USB cable. Connect the supplied 12V PSU to DC IN socket and turn off the power.

Step 2- Open the "Datavideo Upload Firmware" program and turn on the DAC-60 power.
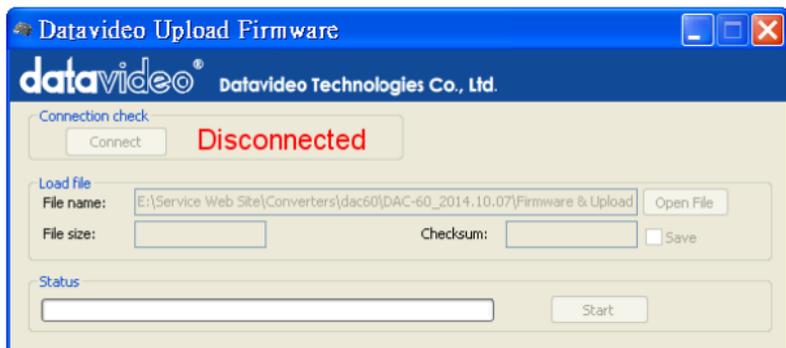
Step 3 - Press the **Connect** button.
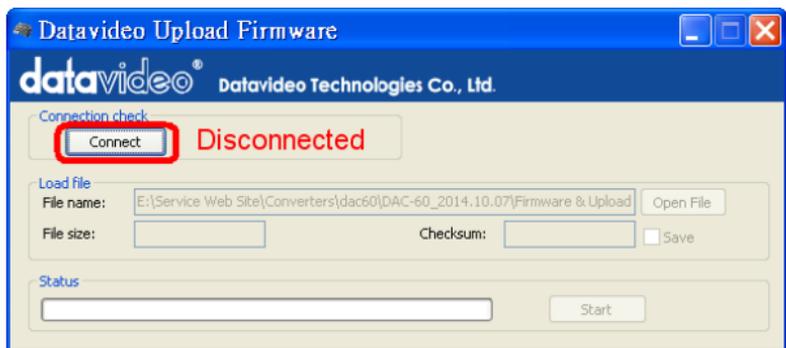
Step 4 - Press **Open File** button to select firmware.
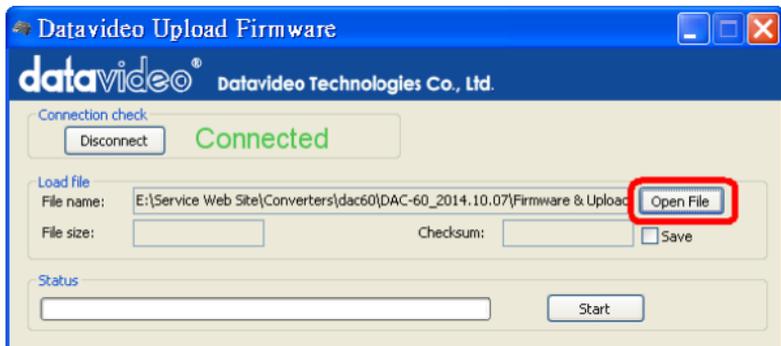
Step 5 - Press **Start** button to update the firmware.

Step 6 – Close the "Datavideo Upload Firmware" program

Note: The latest Firmware updates and Software applications for the DAC-60 can be obtained by contacting your local Datavideo office or dealer. A list of regional Datavideo offices is provided at the rear of this manual.

7. DAC-60 Center Utility Features

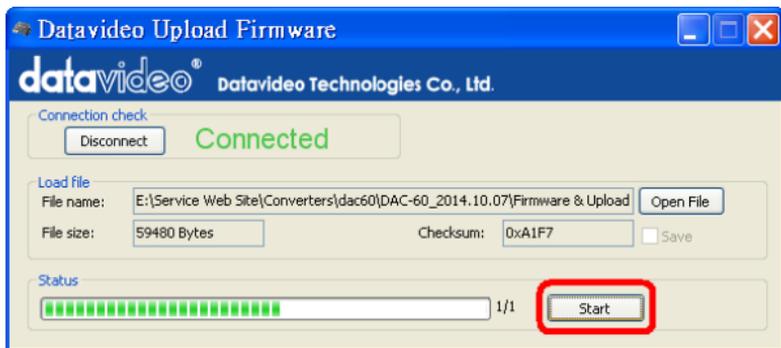Please copy the DAC-60 Center.exe utility software from the supplied CD to your Windows computer. Now connect the DAC-60 by USB cable to the same computer. Switch on the DAC-60 and then launch the DAC-60 Center utility software.

Note: When the application is on, the first priority is PC.

Control Priority	Function
1	PC Controller (Application)
2	Box Controller (Button)

1. Click on the **Information** tab to display the input format & firmware version.

2. Click on the **Video** tab to enter the video setup.

3. Set the aspect ratio and output format then click **Apply.**

4. Click the **Proc AMP** tab to adjust the picture settings.

5. Set the Brightness, Contrast, Hue and Saturation values.
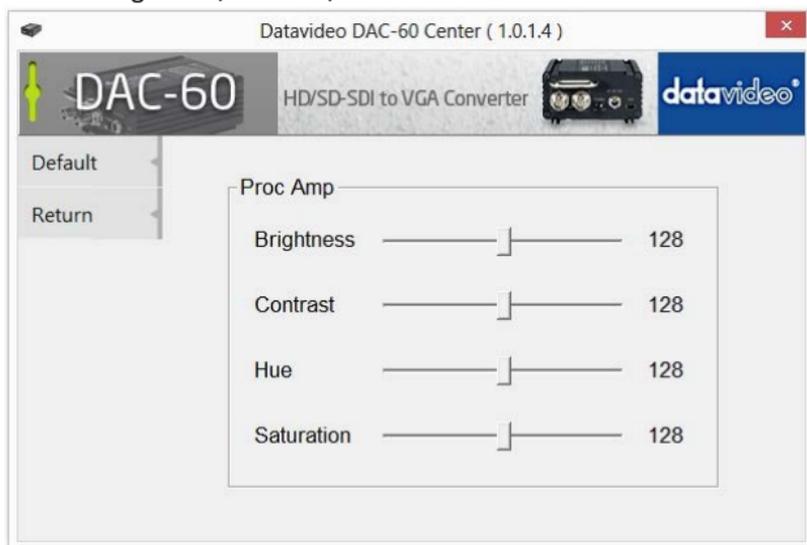
6. Click the **Setting** tab to access the restore factory defaults window.
7. Set the OSD Hide Function **Enable/ Disable**.
8. Click the **Factory Default** button to reset the DAC-60 to factory defaults.

8. Specifications

Supported Input Video Formats	SD - 720 x 480 i / 720 x 576 i
	HD - 1280 x 720 50p/60p/59.94p
	        1920 x 1080 50i/60i/59.94i
	        1920 x 1080 24p/25p/30p
	3G - 1920 x 1080 50p/60p/59.94p

SDI Formats	SD-SDI (SMPTE 259M) HD-SDI (SMPTE 292M) 3G-SDI (SMPTE 494M/495M)
VGA Output Formats	800 x 600 1024 x 768(XGA projector) 1280 x 800(WXGA projector) 1280 x 1024 1366 x 768 1400 x1050 1600 x 1200 1920 x 1080 1920 x 1200(WUXGA projector)
Re-clock Function	Yes (Default)
Firmware Updates	USB
Software Support	Yes (OS: Windows XP/ Windows 7)
Coaxial Cable Type	RG6/RG59 (75Ω)
Cable Equalization	3G: 140m of RG6/ 100m of RG59 HD: 200m of RG6/ 140m of RG59 SD: 400m of RG6/ 280m of RG59
Input Connections	1 x BNC [SDI]
Output Connections	1 x VGA 1 x BNC [SDI]
BNC Connectors	3G 75 Ω inter-locked socket
Button	VGA Format Switching
Power Source	AC 100 ~ 240 V / DC (12V/3.6W)

Service & Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo.com for answers to common questions, support requests or contact your local office below.

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Please refer to our website for update the latest version manual.
www.datavideo.com/Converters/DAC-60

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