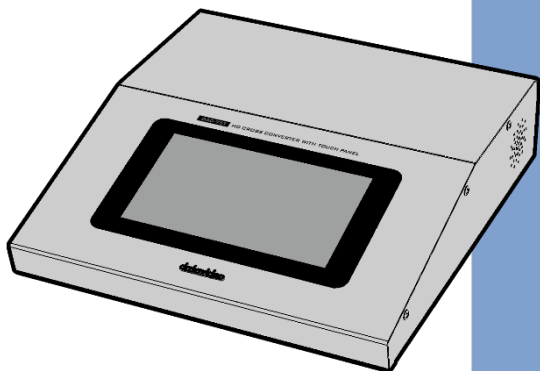


datavideo



HD CROSS CONVERTER
WITH TOUCH PANEL
DAC-75T
Instruction Manual

www.datavideo.com

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Disclaimer of Product and Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.



Warnings and Precautions

1. Read all of these warnings and save them for later reference.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord rating.
10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.
11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.
12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.
13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:

- a. When the power cord is damaged or frayed;
- b. When liquid has spilled into the unit;
- c. When the product has been exposed to rain or water;
- d. When the product does not operate normally under normal operating conditions.
Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;
- e. When the product has been dropped or the cabinet has been damaged;
- f. When the product exhibits a distinct change in performance, indicating a need for service.

Warranty

Standard Warranty

- Datavideo equipment are 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.
- The product warranty period begins on the purchase date. If the purchase date is unknown, the product warranty period begins on the thirtieth day after shipment from a Datavideo office.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered under warranty.
- Viruses and malware infections on the computer systems are not covered under warranty.
- Any errors that are caused by unauthorized third-party software installations, which are not required by our computer systems, are not covered under 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 and batteries are not covered under warranty.
- Warranty only valid in the country or region of purchase.
- Your statutory rights are not affected.

Three Year Warranty

- All Datavideo products purchased after July 1st, 2017 are qualified for a free two years extension to the standard warranty, providing the product is registered with Datavideo within 30 days of purchase.
- Certain parts with limited lifetime expectancy such as LCD



panels, DVD drives, Hard Drive, Solid State Drive, SD Card, USB Thumb Drive, Lighting, Camera module, PCIe Card are covered for 1 year.

- The three-year warranty must be registered on Datavideo's official website or with your local Datavideo office or one of its authorized distributors within 30 days of purchase.

Disposal



For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is

recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



CE Marking is the symbol as shown on the left of this page. The letters "CE" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

1. Introduction

The Datavideo DAC-75T provides built-in 7" Touch LCD for friendly setting with easy to use interface. It features up/down/cross conversion to convert video signals from HDMI, SDI, and VGA with Audio input to HDMI or 3G-SDI output.

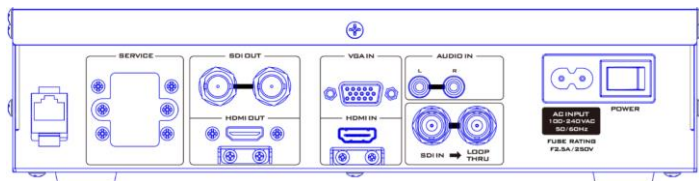
It allows instantly switch between HD and SD video formats automatically when the video input changes. Perfect for lecture theater, hotel, church, conference hall and other large events with breakout rooms.

Features

- Friendly and Easy-to-use interface
- Large 7" LCD Touch Screen for configuration
- Up/Down/Cross convert between SD, HD, and 3G formats
- Various inputs of Audio/HDMI/SDI/VGA
- 3G/HD/SD SDI and HDMI output
- 3G-SDI technology with full 10 bit processing and low SDI jitter

2. Connections & Controls

Rear Panel



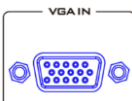
Power Switch

This power switch is used to power on/off the DAC-75T



AC Input Connector

This AC input connector is used for connecting the bundled AC power cable. The AC input voltage range of the DAC-75T is 100V~240V.



VGA IN

VGA IN connects the VGA equipment.

Supported Resolutions

800x600@60Hz, 1024x768@60Hz, 1280x1024@60Hz
1366x768@60Hz, 1400x1050@60Hz, 1600x1200@60Hz
1280x720@60Hz, 1920x1080@60Hz



HDMI IN

HDMI IN connects the HDMI equipment.

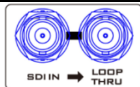
HDCP Copy Protection

For legal reasons, the HDMI input is unable to pass on video from copy protected HDMI sources.



Audio IN

Inputs for 2 channels of RCA unbalanced audio

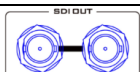


HD-SDI IN & Output (Loop Thru)

HD-SDI input and loop-through output connectors.

Left BNC connector: HD/SD-SDI Input

Right BNC connector: Loop Thru Output



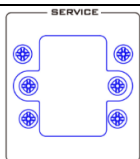
HD/SD - SDI OUT

SDI Video and Audio output.



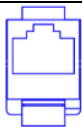
HDMI OUT

HDMI Video and Audio output.



SERVICE

This service section is reserved for service purpose only by the original manufacturer. Please Do Not Use this section.



Ethernet Port

This Ethernet port is preserved for functional extension in the future.

Front Panel



DAC-75T HD CROSS CONVERTER WITH TOUCH PANEL



Touch Screen

This touch screen is used for users to set and control different parameters for the DAC-75T including input interface, output format, refresh rate and Aspect//Audio by the graphic user interface.

3. Operation

For powering-on and input source connection of the DAC-75T, please follow following steps.

For VGA Input Source (Take VGA to HDMI as an Example)

Step 1. Please connect a VGA cable from your VGA input source to the VGA IN interface on the rear panel of the DAC-75T.

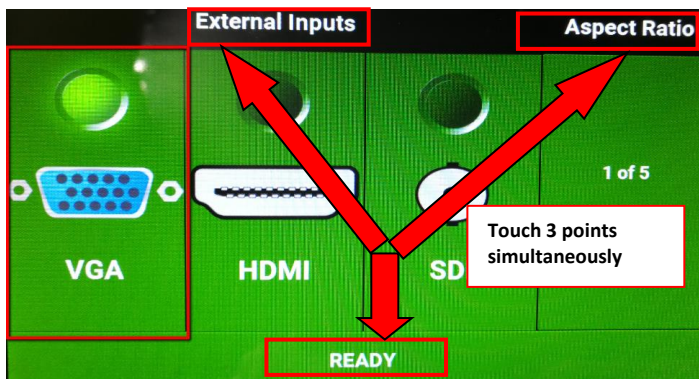
Step 2. Please connect an HDMI cable from the HDMI OUT interface on the rear panel of the DAC-75T to the HDMI interface of an external monitor.






Step 3. Please turn on the power switch of the DAC-75T on its rear panel.

Step 4. After the DAC-75T is turned on, users can select the VGA Input option and then switch to the detailed user interface by touching the “External Input”, “Aspect Ratio” and “READY” simultaneously.

Step 5. After the detailed user interface is shown, users can select their desired parameters such as **Output Format**, **Refresh Rate** and **Aspect/Audio**.

Note: The output format and refresh rates that are shown in **green** are options that can be selected by users. The output formats and refresh rates that are shown in **gray** are options that can not be selected by users. Please remember that if users want to change the output format, please select the output format at first and then the frame rate can be selected.



|  Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | HD 1920x1080 | 50.00p | Dot By Dot |
| 59.94i | | Full Screen 16:9 | |
|  HDMI | | SD NTSC | 59.94p |
| | SD PAL | 60.00i | Pan Scan 16:9 |
|  SDI | | 60.00p |  |
| | | DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | |

For HDMI Input Source (Take HDMI to SDI as an Example)

Step 1. Please connect an HDMI cable from your HDMI input source to the HDMI IN interface on the rear panel of the DAC-75T.

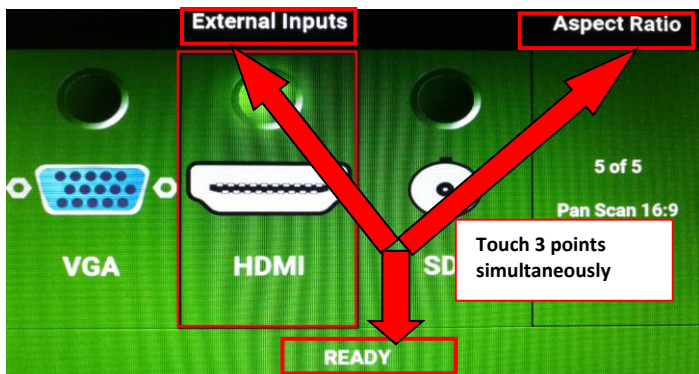
Step 2. Please connect an SDI cable from the SDI OUT interface on the rear panel of the DAC-75T to the SDI interface of an external monitor.

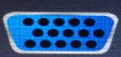




Step 3. Please turn on the power switch of the DAC-75T on its rear panel.

Step 4. After the DAC-75T is turned on, users can select the HDMI Input option and then switch to the detailed user interface by touching the “External Input”, “Aspect Ratio” and “READY” simultaneously.

Step 5. After the detailed user interface is shown, users can select their desired parameters such as **Output Format**, **Refresh Rate** and **Aspect/Audio**.

Note: The output format and refresh rates that are shown in **green** are options that can be selected by users. The output formats and refresh rates that are shown in **gray** are options that can not be selected by users. Please remember that if users want to change the output format, please select the output format at first and then the frame rate can be selected.



| Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
|  HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
|  SDI | SD PAL | 60.00i | Pan Scan 16:9 |
| | | 60.00p |   |

DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None

For SDI Input Source (Take SDI to HDMI as an Example)

Step 1. Please connect an SDI cable from your SDI input source to the SDI IN interface on the rear panel of the DAC-75T.

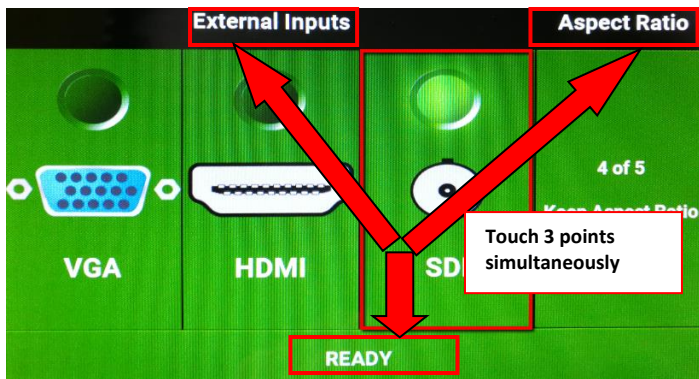
Step 2. Please connect an HDMI cable from the HDMI OUT interface on the rear panel of the DAC-75T to the HDMI interface of an external monitor.







Step 3. Please turn on the power switch of the DAC-75T on its rear panel.

Step 4. After the DAC-75T is turned on, users can select the SDI Input option and then switch to the detailed user interface by touching the “External Input”, “Aspect Ratio” and “READY” simultaneously.

Step 5. After the detailed user interface is shown, users can select their desired parameters such as **Output Format**, **Refresh Rate** and **Aspect/Audio**.

Note: The output format and refresh rates that are shown in **green** are options that can be selected by users. The output formats and refresh rates that are shown in **gray** are options that can not be selected by users. Please remember that if users want to change the output format, please select the output format at first and then the frame rate can be selected.



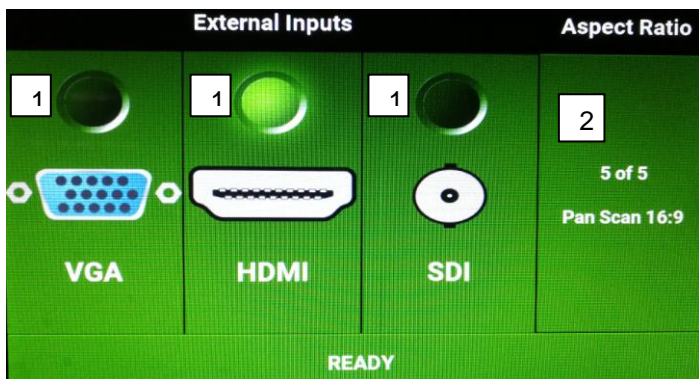
|  Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
|  HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
|  SDI | | 60.00i | Pan Scan 16:9 |
| | SD PAL | 60.00p |   |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |

4. Introduction of the Touch-Screen UI

The DAC-75T provides a user friendly touch-screen user interface for users to control the DAC-75T. There are two touch-screen user interfaces including **Presenter Mode** and **Tech Mode**. Please see following paragraphs.

The **Presenter Mode** user interface is shown as following once the converter booting is finished. The **Presenter Mode** user interface provides users to select the external input source and the aspect ratio.

Presenter Mode

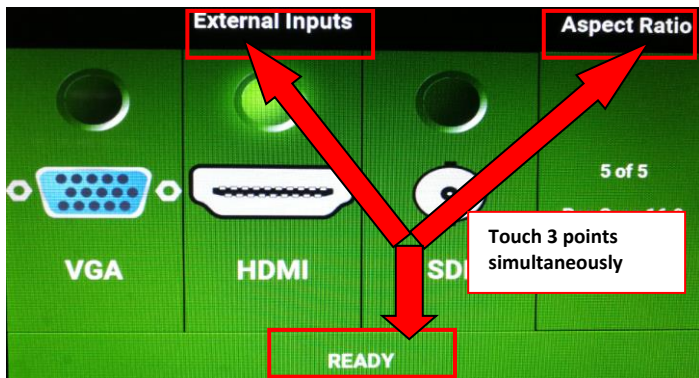


1. Allows users to select which input is activate.
2. Allows users to select aspect ratio of the selected input.
 - 4:3: Image is output in 4:3 ratio.
 - Dot by Dot: No scaling is applied. This may result in cropping or 'window framing', depending on input and output resolutions.
 - Full Screen 16:9: Image Is scaled to fill a 16:9 output No cropping will occur.
 - Keep Aspect Ratio: Current Image Aspect is retained and scaled to fit the output format.
 - Pan Scan 16:9: The image is scaled to fit the 16:9 by cropping the top and bottom of the 4:3 image.






How to enter into the Tech Mode

Once the Presenter Mode is shown, please follow following steps for entering into the Tech Mode user interface.

Step 1. Please touch three of your fingers at the words **“External Inputs”**, **“Aspect Ratio”** and **“Ready”** simultaneously which is shown as following diagram.



Step 2. After that, the **Presenter Mode** will be switched to the **Tech Mode** instantly.

|  | Input | Output Format | Refresh Rate | Aspect / Audio |
|--|-------|---------------|--------------|---|
|  VGA | | HD 1280x720 | 50.00i | 4:3 |
| | | | 50.00p | Dot By Dot |
|  HDMI | | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | | | 59.94p | Keep Aspect Ratio |
|  SDI | | SD NTSC | 60.00i | Pan Scan 16:9 |
| | | SD PAL | 60.00p |  |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | | |

The Tech Mode provides users to set following parameters.




- **Input:** This allows users to select the active input.
- **Output Format:** This allows users to set the output resolution.
 - **HD 1280 x 720:** Selectable Refresh Rate.
 - **HD 1920 x 1080:** Selectable Refresh Rate.
 - **SD NTSC:** SD NTSC=480i59
 - **SD PAL:** SD PAL= 576i50
- **Refresh Rate:** This allows users to set output refresh rate. When selecting the output format, only the available refresh rates will be highlighted.
- **Aspect:**
 - 4:3: Image is output in 4:3 ratio.
 - Dot by Dot: No scaling is applied. This may result in cropping or 'window framing', depending on input and output resolutions.
 - Full Screen 16:9: Image is scaled to fill a 16:9 output No cropping will occur.
 - Keep Aspect Ratio: Current Image Aspect is retained and scaled to fit the output format.
 - Pan Scan 16:9: The image is scaled to fit the 16:9 by cropping the top and bottom of the 4:3 image.
- **Audio Embed:** Allows digital audio passthrough from HDMI or SDI, or

embeds audio from the analog input jacks

How to go back to the Presenter Mode from the Tech Mode

Please follow following steps for going back to the Presenter Mode from the Tech Mode.

Step 1. Please touch the sentence “DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP:None” once and then the screen of the Tech Mode will be switched to the Presenter Mode instantly.


| Input | Output Format | Refresh Rate | Aspect / Audio |
|--|--|--------------|----------------|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | HD 1920x1080 | 50.00p | Dot By Dot |
|  HDMI | | SD NTSC | 59.94i |
| |  SDI | SD PAL | 59.94p |
| 60.00i | | | Pan Scan 16:9 |
| | | | 60.00p |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |

Input Interfaces and Supported Video Input Formats

VGA

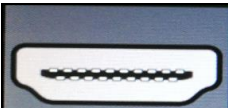
The input column of the touch-screen user interface provides three input interfaces for users which are shown as following.

- VGA(RGB): The DAC-75T supports following VGA input source formats.

| | |
|--|---|
| <div data-bbox="60 59 291 237"> <p>Input</p>  <p>VGA</p> </div> | <p>800x600@60Hz 1024x768@60Hz 1280x1024@60Hz 1366x768@60Hz 1400x1050@60Hz 1600x1200@60Hz 1280x720@60Hz 1920x1080@60Hz</p> |
|--|---|


HDMI

- HDMI(YUV/RGB): The DAC-75T supports following HDMI input source formats.

| | |
|--|---|
| <div data-bbox="42 589 339 773">  <p>HDMI</p> </div> | <p>1080p60/59.94/50 1080p30/29.97/25/24/23.98 1080psf30/29.97/25/24/23.98 1080i60/59.94/50 720p60/59.94/50 480p, 576p, 480i, 576i 800x600@60Hz, 1024x768@60Hz, 1280x1024@60Hz 1366x768@60Hz 1400x1050@60Hz 1600x1200@60Hz</p> |
|--|---|

SDI

- SDI: The DAC-75T supports following SDI input source formats.

| | |
|---|---|
|  | 1080p60/59.94/50 1080p30/29.97/25/24/23.98 1080psf30/29.97/25/24/23.98 1080i60/59.94/50 720p60/59.94/50 525i, 625i |
|---|---|

Supported Output Format and Refresh Rate

The supported output format and refresh rate of different input interfaces are shown as following table.

For VGA Input interface

The supported output formats and refresh rates for the VGA input interface are shown as following.





- **HD 1280 x 720 50.00p**
- **HD 1280 x 720 59.94p**
- **HD 1280 x 720 60.00p**






- **HD 1920 x 1080 50.00i**
- **HD 1920 x 1080 50.00p**
- **HD 1920 x 1080 59.94i**
- **HD 1920 x 1080 59.94p**
- **HD 1920 x 1080 60.00i**
- **HD 1920 x 1080 60.00p**






- **SD NTSC 59.94i**

- **SD PAL 50.00i**

| ⚙️ Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
|  HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
|  SDI | SD PAL | 60.00i | Pan Scan 16:9 |
| | | 60.00p |  |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |

| ⚙️ Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
|  HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
|  SDI | SD PAL | 60.00i | Pan Scan 16:9 |
| | | 60.00p |  |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |

|  Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | HD 1920x1080 | 50.00p | Dot By Dot |
|  HDMI | | SD NTSC | 59.94i |
| | 59.94p | | Keep Aspect Ratio |
|  SDI | SD PAL | 60.00i | Pan Scan 16:9 |
| | | 60.00p |  |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |

|  Input | Output Format | Refresh Rate | Aspect / Audio |
|---|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
|  HDMI | HD 1920x1080 | 50.00p | Dot By Dot |
| | SD NTSC | 59.94i | Full Screen 16:9 |
| | | 59.94p | Keep Aspect Ratio |
|  SDI | SD PAL | 60.00i | Pan Scan 16:9 |
| | | 60.00p |  |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |

Note: For above diagrams, the output format and refresh rates that are shown in **blue** are options that can be selected by users. The output formats and refresh rates that are shown in **gray** are options that can not be selected by users.

For HDMI Input interface






The supported output formats and refresh rates for the HDMI input interface are shown as following.

- HD 1280 x 720 50.00p
- HD 1280 x 720 59.94p
- HD 1280 x 720 60.00p



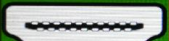



- HD 1920 x 1080 50.00i
- HD 1920 x 1080 50.00p
- HD 1920 x 1080 59.94i
- HD 1920 x 1080 59.94p
- HD 1920 x 1080 60.00i
- HD 1920 x 1080 60.00p







- SD NTSC 59.94i

- SD PAL 50.00i

| Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
|  HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
| | | 60.00i | Pan Scan 16:9 |
|  SDI | SD PAL | 60.00p |   |
| | | | |

DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None

|  Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
|  HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
|  SDI | SD PAL | 60.00i | Pan Scan 16:9 |
| | | 60.00p |   |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |

|  Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|---|
|  VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
|  HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
|  SDI | | SD PAL | 60.00i |
| | | 60.00p |   |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |

| Input | Output Format | Refresh Rate | Aspect / Audio |
|--|---------------|--------------|-------------------|
| VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
| HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
| | | 60.00i | Pan Scan 16:9 |
| SDI | SD PAL | 60.00p | |
| DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None | | | |



Note: For above diagrams, the output format and refresh rates that are shown in **blue** are options that can be selected by users. The output formats and refresh rates that are shown in **gray** are options that can not be selected by users.

For SDI Input interface



The supported output formats and refresh rates for the SDI input interface are shown as following.

- HD 1280 x 720 50.00p
- HD 1280 x 720 59.94p
- HD 1280 x 720 60.00p
- HD 1920 x 1080 50.00i
- HD 1920 x 1080 50.00p
- HD 1920 x 1080 59.94i
- HD 1920 x 1080 59.94p
- HD 1920 x 1080 60.00i
- HD 1920 x 1080 60.00p
- SD NTSC 59.94i

➤ SD PAL 50.00i

| Input | Output Format | Refresh Rate | Aspect / Audio |
|-------|---------------|--------------|---|
| VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
| HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
| SDI | | 60.00i | Pan Scan 16:9 |
| | SD PAL | 60.00p |   |

DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None

| Input | Output Format | Refresh Rate | Aspect / Audio |
|-------|---------------|--------------|---|
| VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
| HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
| SDI | | 60.00i | Pan Scan 16:9 |
| | SD PAL | 60.00p |   |

DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None

| Input | Output Format | Refresh Rate | Aspect / Audio |
|-------|---------------|--------------|-------------------|
| VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
| HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
| SDI | | 60.00i | Pan Scan 16:9 |
| | SD PAL | 60.00p | |

DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None

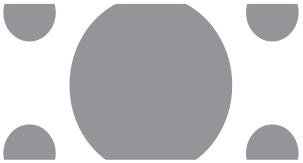
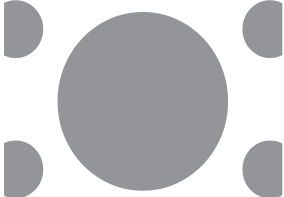
| Input | Output Format | Refresh Rate | Aspect / Audio |
|-------|---------------|--------------|-------------------|
| VGA | HD 1280x720 | 50.00i | 4:3 |
| | | 50.00p | Dot By Dot |
| HDMI | HD 1920x1080 | 59.94i | Full Screen 16:9 |
| | SD NTSC | 59.94p | Keep Aspect Ratio |
| SDI | | 60.00i | Pan Scan 16:9 |
| | SD PAL | 60.00p | |

DAC-75T Ver: 1.3-1.2 Serial: B02006092114 IP: None

Note: For above diagrams, the output format and refresh rates that are shown in **blue** are options that can be selected by users. The output formats and refresh rates that are shown in **gray** are options that can not be selected by users.

What is Pan Scan 16:9

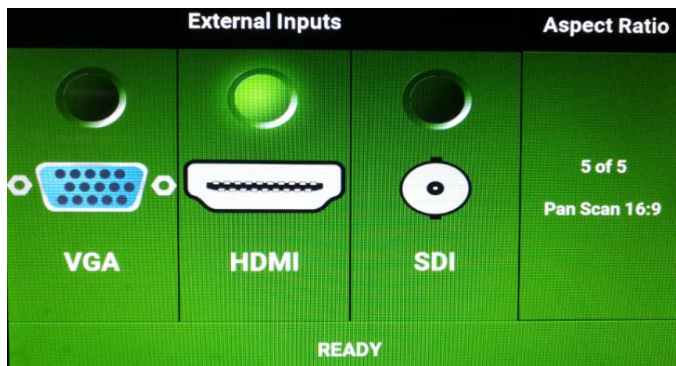
If the Pan Scan 16:9 mode is selected, the table below provides an illustration as to how the image will be displayed on the 16:9 and 4:3 monitors given that their respective input aspect ratios are 4:3 and 16:9.

| Input 4:3, output 16:9 | Input 16:9, output 4:3 |
|---|---|
|  |  |

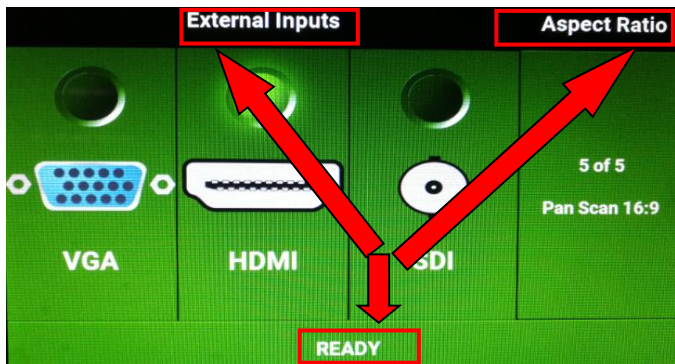
Audio Source Selection for SDI/HDMI Outputs


The DAC-75T allows digital audio passthrough from HDMI or SDI Inputs. Moreover, it can embed audio from the analog input jacks. Please follow following steps for setting the audio source.









Step 1. After the DAC-75T booting is finished, please select your desired external input interface from the screen of the Presenter Mode.



Step 2. After the External Input is selected, please enter the Tech Mode by pressing the three points simultaneously.




Step 3. After entering Tech Mode, users can switch between different audio sources by pressing the speaker button .

| External Input Source | Supported Audio Sources | |
|---|---|---|
|  VGA | RCA unbalanced Audio  | |
|  HDMI | HDMI Audio Source  | RCA unbalanced Audio  |
|  SDI | RCA unbalanced Audio  | SDI Audio Source  |

Configuration Menu

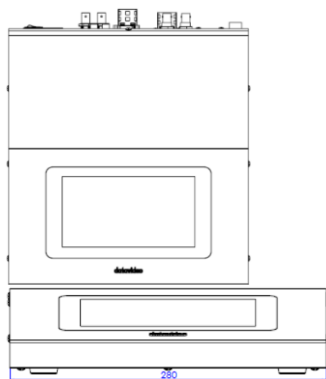
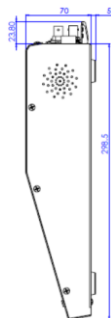
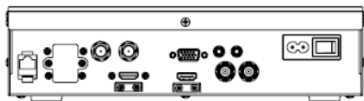
The DAC-75T provides a configuration menu for users to some parameters including brightness, audio standards (SMPTE & EBU). Moreover, it also allows users to output black or blue screen to the connected external display when there is no input signal existed. Users can also disable the input signal as their desire. Please follow following steps for entering the Configuration Menu.

- Step 1. Please touch the gearwheel icon  on the touch-screen interface.
- Step 2. The configuration menu will be shown for users to do further settings.



1. Brightness Adjustment Slider: This allows users to adjust the brightness.
2. Selection for Different Audio Standard: This allows users to select SMPTE or EBU audio standard
3. Output for No Signal Status: This allows users to choose black or blue for the output screen if there is no signal existed. Moreover, it allows users to disable the input.
4. The Finished Button: Please press this button to go back to the Tech Mode Interface.

5. Dimensions



All measurements in millimeters (mm)

6. Frequently-Asked Questions

This section describes problems that you may encounter while using the DAC-75T. If you have questions, please refer to related sections and follow all the suggested solutions. If problem still exists, please contact your distributor or the service center.

| No | Problems | Solutions |
|----|---|---|
| 1. | The important thing that must be pay attention to before switching the Refresh Rates in the hidden menu of the touch screen user interface. | Before switching to different Refresh Rate in the hidden menu, please remember to select the Output Format at first. |
| 2 | There is a slight delay when the DAC-75T is switching between different functions? | The DAC-75T is a video format converter rather than the switcher. So, if the input format is changed too frequently, the DAC-75T can not respond immediately. It needs some time for format converting. |

7. Specifications

| | |
|----------------------------|--|
| Input | VGA x 1, HDMI x 1 , HD/SD-SDI x 1, Analog Audio L/R(Unbalanced) |
| Output | SDI x 2, HDMI x 1, SDI Loop thru BNCx1 |
| Settings Control | 7" Touch Screen (Resolution 800 x 480) |
| Video Input Format | <ul style="list-style-type: none"> • SDI (YUV) <ul style="list-style-type: none"> ➤ 1080p60/59.94/50, 1080p30/29.97/25/24/23.98 ➤ 1080psf30/29.97/25/24/23.98 ➤ 1080i60/59.94/50, , 720p60/59.94/50 ➤ 525i, 625i • HDMI (YUV / RGB) <ul style="list-style-type: none"> ➤ 1080p60/59.94/50, 1080p30/29.97/25/24/23.98 ➤ 1080psf30/29.97/25/24/23.98 ➤ 1080i60/59.94/50, 720p60/59.94/50 ➤ 480p, 576p, 480i, 576i ➤ 800x600@60Hz, 1024x768@60Hz, 1280x1024@60Hz ➤ 1366x768@60Hz, 1400x1050@60Hz, 1600x1200@60Hz • VGA (RGB) <ul style="list-style-type: none"> ➤ 800x600@60Hz, 1024x768@60Hz, 1280x1024@60Hz ➤ 1366x768@60Hz, 1400x1050@60Hz, 1600x1200@60Hz ➤ 1280x720@60Hz, 1920x1080@60Hz |
| Video Output Format | <ul style="list-style-type: none"> • SDI (YUV)/ HDMI(YUV) <ul style="list-style-type: none"> ➤ 1080p60/59.94/50, 1080p30/29.97/25/24/23.98 ➤ 1080i60/59.94/50, 720p60/59.94/50 ➤ 525i, 625i |
| Video Process | <ul style="list-style-type: none"> • SDI : YUV422 • HDMI: YUV422/YUV444/RGB444 |

| | |
|------------------------------|---|
| Audio Format | Input Unbalanced Analog Audio L/R : stereo audio SDI embedded audio : up to 8ch, 48KHz, PCM audio HDMI embedded audio : up to 8ch, 44.1/48/96KHz, PCM audio Output SDI embedded audio up to 8CH, 48KHz, PCM audio HDMI embedded audio up to 8CH, 48KHz, PCM audio |
| Input Power | AC IN 100V~240V 50/60 Hz |
| Operating Temperature | 0°C ~50°C [32°F ~122°F] |
| Humidity | 10% to 80% |
| Storage Temperature | -10~ +60°C |
| Dimensions | 280mm(L) x 300mm(W) x 70mm(H) |
| Weight | 2.43Kg |

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China Shanghai

Datavideo Technologies China Co
601 Building 10, No. 1228,
Rd. Jiangchang,
Jinan District, Shanghai
Tel: +86 21-5603 6599
Fax: +86 21-5603 6770
E-mail: service@datavideo.cn

China Beijing

Datavideo Technologies China Co
No. 812, Building B, Wankai Center,
No. 316, Wan Feng Road, Fengtai District,
Beijing, China
Tel: +86 10-8586 9034
Fax: +86 10-8586 9074
E-mail: service@datavideo.cn

China Chengdu

Datavideo Technologies China Co
B-523, Meihua Square, No. 1386,
Middle of Tianfu Avenue, Gaokun District,
Chengdu, Sichuan
Tel: +86 28-8613 7796
Fax: +86 28-8613 6486
E-mail: service@datavideo.cn

China Fuzhou

Datavideo Technologies China Co
A1-2318-19 Room, No. 8, Aojiang Road,
Taijiang District, Fuzhou, Fujian, China
Tel: 0591-83211756 • 0591-83210187
Fax: 0591-83211262
E-mail: service@datavideo.cn

China Jinan

Datavideo Technologies China Co
902, No. 1 business building,
Xiangtai Square, No. 129,
Yingshiangshan Road, Shizhong District,
Jinan City, Shandong Province, China
Tel: +86 531-8607 8813
E-mail: service@datavideo.cn

Hong Kong

Datavideo Hong Kong Ltd
Q/F, 26 Cross Lane,
Wanchai, Hong Kong
Tel: +852-2833-1981
Fax: +852-2833-9916
E-mail: info@datavideo.com.hk

India Noida

Datavideo India Noida
A-132, Sec-63, Noida-201307,
India
Tel: +91-0120-2427337
Fax: +91-0120-2427338
E-mail: sales@datavideo.in

India Kochi

Datavideo India Kochi
2nd Floor- North Wing, Govardhan Building,
Opp. NCC Group Headquarters, Chittoor Road,
Cochin- 682035
Tel: +91 4844-025336
Fax: +91 4844-047696
E-mail: sales@datavideo.in

Netherlands

Datavideo Technologies Europe BV
Fliondreef 106
3565 AM Utrecht,
The Netherlands
Tel: +31-30-261-99-66
Fax: +31-30-261-96-57
E-mail: info@datavideo.nl

Singapore

Datavideo Visual Technology(S) Pte Ltd
No. 178 Paya Lebar Road #06-07
Singapore 409030
Tel: +65-6749 6866
Fax: +65-6749 3266
E-mail: info@datavideovirtualset.com

Singapore

Datavideo Technologies (S) PTE Ltd
No. 178 Paya Lebar Road #06-03
Singapore 409030
Tel: +65-6749 6866
Fax: +65-6749 3266
E-mail: sales@datavideo.sg

Taiwan

Datavideo Technologies Co. Ltd
10F, No. 176, Jian 1st Rd., Chung Ho
District, New Taipei City 235, Taiwan
Tel: +886-2-8227-2888
Fax: +886-2-8227-2777
E-mail: service@datavideo.com.tw

United States

Datavideo Corporation
7049 Elmer Avenue,
Whittier, CA 90602,
U.S.A.
Tel: +1-562-596 2324
Fax: +1-562-596 6930
E-mail: sales@datavideo.com

France

Datavideo France s.a.r.l.
Cité Descartes 1, rue Albert Einstein
Champs sur Marne 774477 -
Marne la Vallée cedex 2
Tel: +33-1-60370246
Fax: +33-1-60376732
E-mail: info@datavideo.fr



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