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## DVI EDID Recorder/Writer with Serial Control AT-DVISync



User Manual

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[www.atlona.com](http://www.atlona.com)

## TABLE OF CONTENTS

1. Introduction	2
2. Features	2
3. Package Contents	2
4. Specifications	3
5. Panel Description	3
5.1. Front Panel	3
5.2. Rear Panel	4
5.3. Bottom Panel	4
6. DIP Switch	4
7. Installation	5
8. Software Operation	5
9. Safety Information	8
10. Warranty	9
11. Atlona Product Registration	10

## INTRODUCTION

Atlona Technologies AT-DVISync EDID Reader/Writer is able to emulate the EDID (Extended Display Identification Data) information. This unit will both store and recall a default EDID setting in non-volatile memory, thus allowing your computer to boot directly from the EDID Reader/Writer. This unit also has the ability to read and store the EDID of your display, as well as allows you to modify the EDID and upload the modified EDID to the desired display, all while maintaining optimum DVI Video resolutions. With the additional function of preventing computers from deactivating inactive DVI ports, this is the perfect for ensuring lossless communication between computers and displays for all users.

*Note: Extended Display Identification Data (EDID) is a standard data format that contains basic information about a monitor and its capabilities, including vendor information, maximum image size, color characteristics, factory pre-set timings, frequency range limits, and character strings for the monitor name and serial number.*

*The information is stored in the display and is used to communicate with the system through a Display Data Channel (DDC), which sits between the monitor and the PC graphics adapter. The system uses this information for configuration purposes, so the monitor and system can work together.*

## FEATURES

- Built-in Default EDID
- Both Reads and remembers the EDID of displays
- Prevents computers from deactivating inactive DVI ports
- Writes EDIDs into the EDID reader/writer or the displays
- Maintains DVI video resolution
- No power required after initial programming

*Note: Power is always required when using several monitors.*

## PACKAGE CONTENT

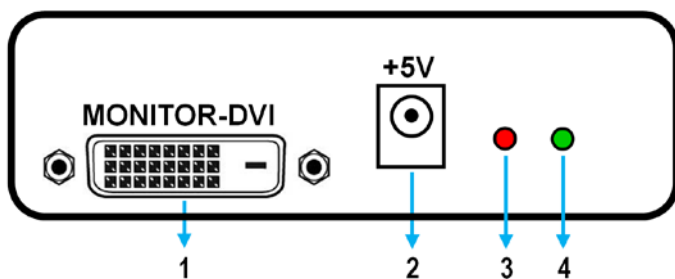
- 1x AT-DVISync Unit
- 1x 5V DC power adapter
- 1x User Manual

## SPECIFICATIONS

Technical		
DVI compliance		DVI 1.1
HDCP compliance		No
Video bandwidth		Single-link 165MHz [4.95Gbps]
Video support		Up to WUXGA [1920x1200@60Hz] & UXGA [1600x1200@60Hz]
Input		1x DVI; 1x RS-232
Output		1x DVI
DVI connector		DVI-I [29-pin female digital only]
RS-232 connector		DE-9 [9-pin D-sub female]
RAM		256 byte [non-volatile]
Mechanical		
Dimensions [L x W x H]	Model	85 x 40 x 28mm [3.3"x1.6"x1.1"]
	Package	270 x 175 x 80mm [10.6"x6.9"x3.2"]
	Carton	450 x 370 x 300mm [1'5.7"x1'2.6"x11.8"]
Weight	Model	180g [6.3 oz]
Fixedness		Wall-mounting case upon request
Power supply		5V 2A DC
Power consumption		1 Watt [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]

## PANEL DESCRIPTION

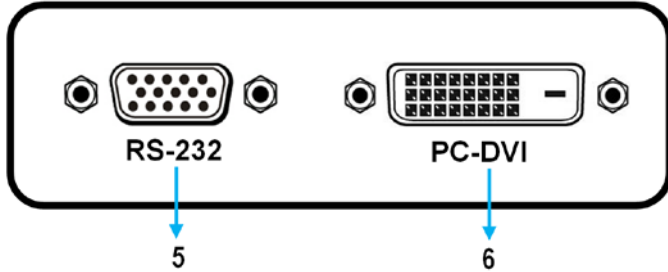
### 1. Front Panel



1. Monitor-DVI: Connect your display to AT-DVISync here
2. 5V DC power jack
3. Red LED: Red Light indicates unit is powered ON
4. Green LED: Green Light indicates unit is in the process of reading or writing EDIDs



## 2. Rear Panel



5. RS-232: Link your computer with the AT-DVISync here in order to read/write EDIDs from/ to displays.
6. PC-DVI: Connect to Desired PC

## 3. Bottom Panel



**Caution! Do not plug DVI cable into PC-DVI connector when you are changing from one operation mode to another**

## DIP SWITCH

1	2	Mode
OFF (↑)	OFF (↑)	Reserved mode, not in use.
OFF (↑)	ON (↓)	Recording: Connect desired monitor to the DVI-monitor connector. Once the recording process is completed, the AT-DVISync will have copied the EDID from the monitor into its flash memory and the green LED will turn off.
ON (↓)	ON (↓)	Reset to default: Write the default EDID back into the AT-DVISync to replace the existing EDID in the AT-DVISync. Once the writing process is complete, the green LED will turn off.
ON (↓)	OFF (↑)	Connection mode: Set DIP switches at this position before you connect your computer to the AT-DVISync

*Note: To avoid initiating undesired errors during switching between modes (e.g. changing from Recording mode to Connection mode might overwrite the EDID of the display in the AT-DVISync by the default EDID), please unplug the power cord before changing one of the above modes. Plug in the power cord after you have changed the position of the DIP switches.*



## INSTALLATION

- 1) Read the EDID from a display
  1. Set the DIP switches at the button of AT-DVISync to: (1-off 2-on).
  2. Connect desired monitor to the AT-DVISync and plug in the 5V DC power cord.
  3. Remove the 5V DC power cord when the green LED turns off.
  4. Connect the AT-DVISync to your computer via DVI cable and boot up your computer.
- 2) Recall the default universal EDID
  1. Set the DIP switches at the button of AT-DVISync to: (1-on 2-on).
  2. Plug in the 5V DC power cord; remove the 5V DC power cord when the green LED turns off.
  3. Connect desired monitor to the AT-DVISync
  4. Connect the AT-DVISync to your computer via DVI cable and boot up your computer.
- 3) Write EDIDs to displays
  1. Set the DIP switches at the button of AT-DVISync to: (1-ON / 2-OFF ).
  2. Plug in the 5V DC power cord.
  3. Connect your monitor (DVI cable) and computer (RS-232 cable) to the AT-DVISync.
  4. Boot up your computer and install the software.
  5. Refer to the Software Operation.

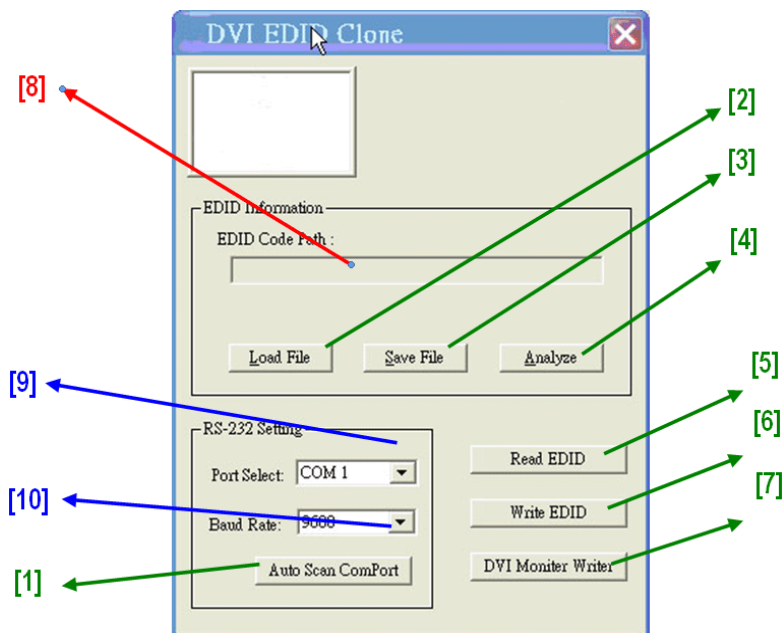
## SOFTWARE OPERATION

Before executing the software, please make sure the DIP switch at the bottom:



1. The power supply is connected.
2. DIP switches are at the right position as shown below.

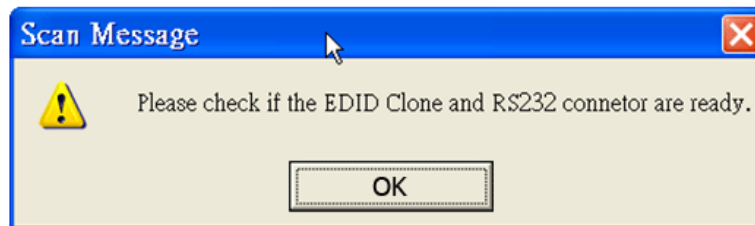
### 1) Getting started



1. First, make sure setup is correct, and click on the button "Auto Scan ComPort" [1]. If the installation is accurate, the following Pop-up message window will show up, indicating the serial port [9] is automatically detected and successfully connected.



2. If the error message as shown below appears, inappropriate setup has occurred. Check at the power supply and serial port connection.



## 2) Read EDID

1. If users would like to read EDID information from the connected monitor, simply click on the button "Read EDID" [5]. The following message will show to inform you that the correct reading of the EDID has been finished.



2. Click on "Analyze" [4] button, and make a quick analysis on the read EDID information, which users are capable of monitoring or modifying

3. To save the EDID information for your future reference, please click on "Save File" [3] button. The pop-up will guide you to save the EDID information within the PC.

## 3) Write EDID

1. You can modify the EDID content in the pop-up after clicking "Analyze" [4] button. You can also load the previously saved EDID information in the analysis window by clicking on "Load File" [2] button.

2. While finishing editing the EDID content, you can click on "Write EDID" button [6] to write the EDID information to EDID Re/writer. After the write action is completed, the following message window will show up.



#### 4) DVI Monitor Write

Executing "DVI Monitor Write" [7] might cause damage to your monitor's EDID. For instance, the sudden power surge or the disconnection of the serial port while updating EDID may result in an incomplete update process. Therefore, it is not recommended to use the "DVI Monitor Write" [7]. If users would like to update the monitor's EDID content with understanding such risk, please make a backup copy of the original EDID, and make sure there is no damage to your monitor's EDID.

1. Click "Analyze" [4] button or load the previously saved EDID information in the analysis window by clicking on "Load File" [2] button
2. Click on "DVI Monitor Write" [7] button, and wait for the following message showing up. When the EDID update is successfully done with, you can see the following message window show up.





## SAFETY INFORMATION

### Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

### Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols.

Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-DVISync. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

## WARRANTY

### Limited Warranty

Atlona Technologies warrants that (a) its products (the AT-DVISync) will perform substantially in accordance with the accompanying written materials for a period of 3 years from the date of receipt and (b) that the product will be free from defects in materials and workmanship under normal use and service for a period of 3 years. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 3 years from the date of receipt. Some jurisdictions do not allow such limitations on duration of an implied warranty, so the above limitation may not apply to customers that fall within those areas.

### Customer Remedies

Atlona Technologies' and its suppliers' entire liability and Customer's exclusive remedy shall be, at Atlona Technologies' decision, either return of the price paid for the product, repair, or replacement of the product that does not meet this Limited Warranty and which is returned to Atlona Technologies with a copy of the Customer's receipt. This Limited Warranty is void if failure of the product has resulted from accident, abuse, misapplication, or natural occurrence. In example but not limited to: power surges (electrical storms, local power outage), dropping the product (or items on the product), contact with fluids, and physical misconduct (i.e. kicking or punching). Any replacement product will be warranted for the remainder of the original warranty period.

### No other warranties

To the maximum extent permitted by applicable law, Atlona Technologies and its suppliers disclaim all other warranties, either expressed or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, with regard to the product and any related written materials. This Limited Warranty gives customer specific legal rights. Customers may have other rights depending on the jurisdiction.

### No liability for damages

To the maximum extent permitted by applicable law, in no event shall Atlona Technologies or its suppliers be liable for any damages arising out of the use of or inability to use this product, even if Atlona Technologies has been advised of the possibility of such damages. Such damages include but are not limited to: special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss.

Atlona Technologies' and its suppliers' entire liability under any provision of this agreement shall be limited to the amount actually paid by you for the product. Some Jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damage. The above limitations may not apply to you in such jurisdictional cases.

## ATLONA PRODUCT REGISTRATION

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: **<http://www.atlona.com/registration>**