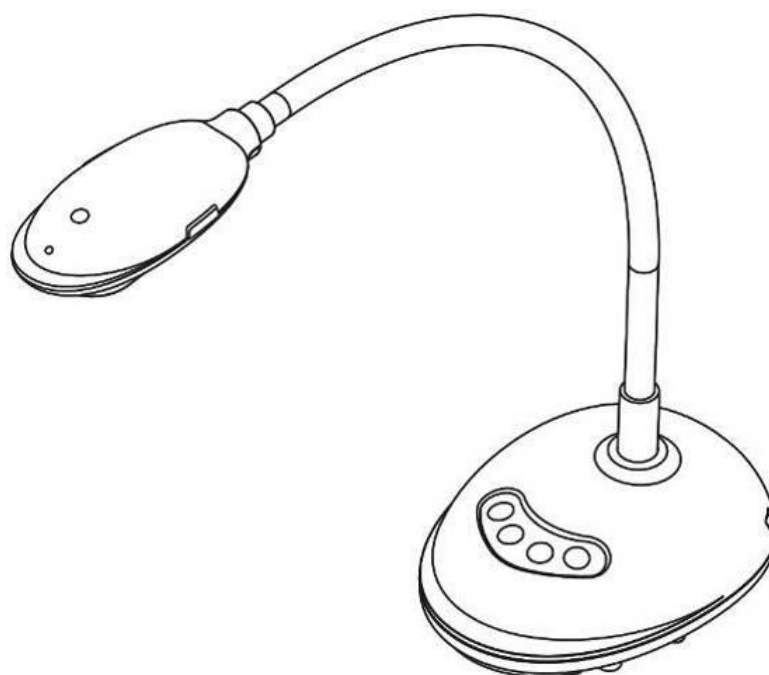


DC136

Document Camera

User Manual - English



[Important]

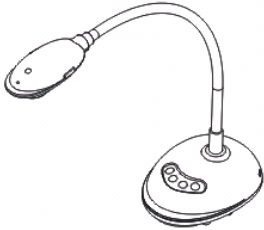
To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens
<https://www.MyLumens.com/support>

Table of Contents

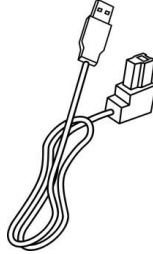
Chapter 1	Package Contents	2
Chapter 2	Product Overview	3
	2.1 Description of LED Indicator	3
	2.2 Relative Operation Position	4
Chapter 3	Installation and Connections	5
	3.1 Connecting to a computer	5
	3.2 Connecting to an Interactive Whiteboard (IWB)	5
	3.3 For use with VESA Installation Base	5
	3.4 Installing Application Software	6
Chapter 4	Start Using	7
Chapter 5	Function Menu	8
	5.1 Function Descriptions of Control Panel Button	8
Chapter 6	Descriptions of Major Functions	9
	6.1 Control the Camera	9
	6.2 Use Skype for Video Conference	9
Chapter 7	Connecting to Microscope	10
Chapter 8	Troubleshooting	11
Chapter 9	Safety Instructions	12
	Copyright Information	14

Chapter 1 Package Contents

DC136



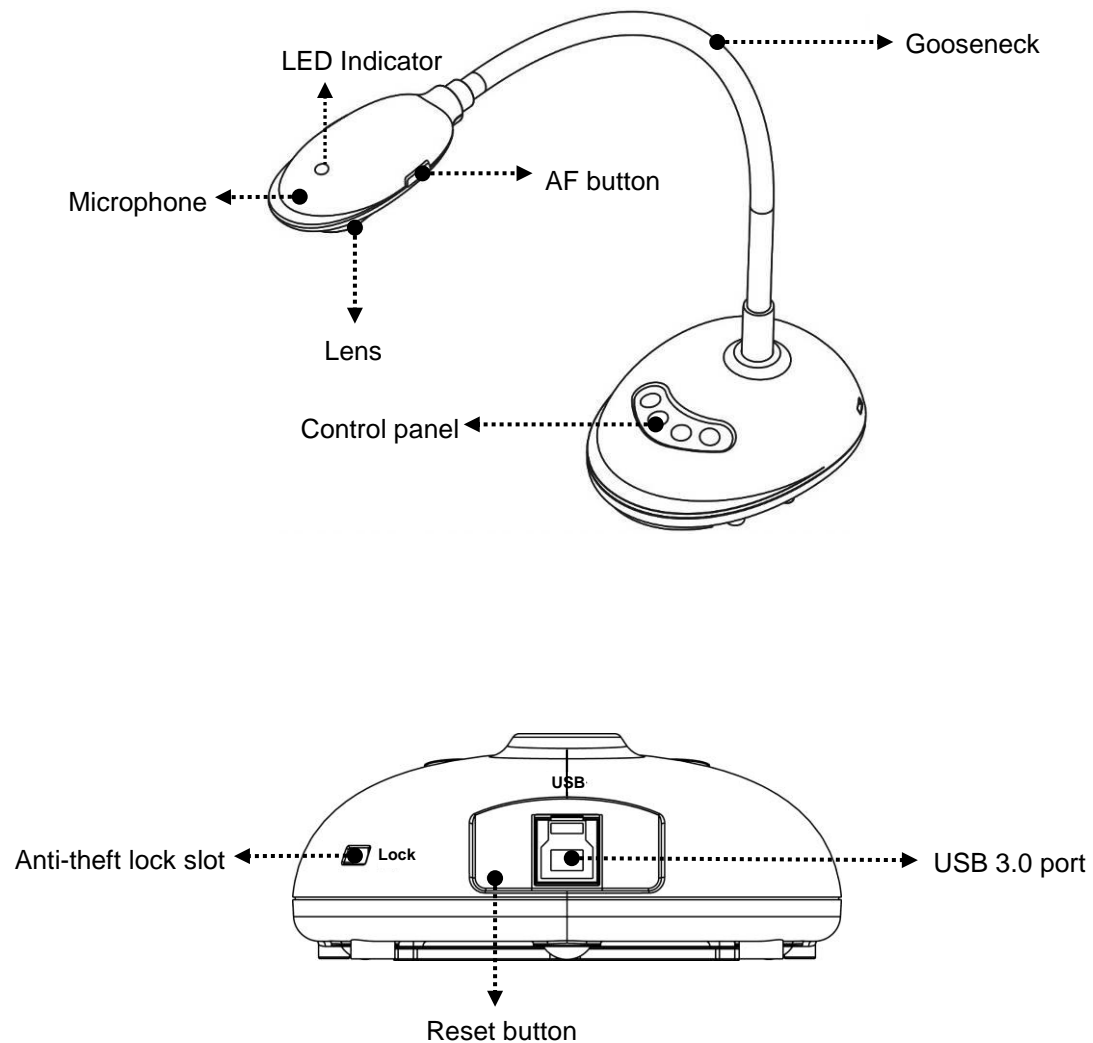
USB 3.0 cable
(Type B to Type A, 2M)



4-Step Instruction
Card



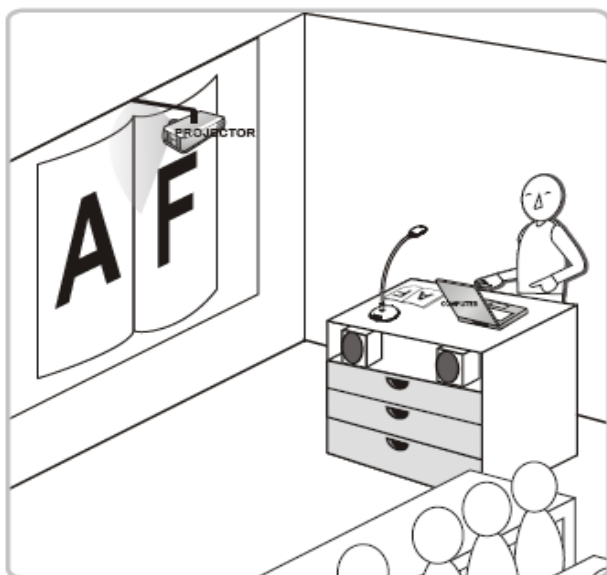
Chapter 2 Product Overview



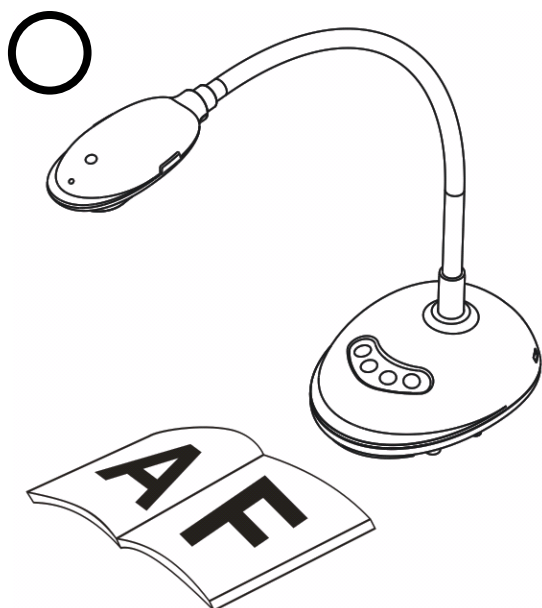
2.1 Description of LED Indicator

1. Enable the image, and LED indicator will light up
2. Display the image, and LED indicator will light up
3. Disable the image, and LED indicator is OFF

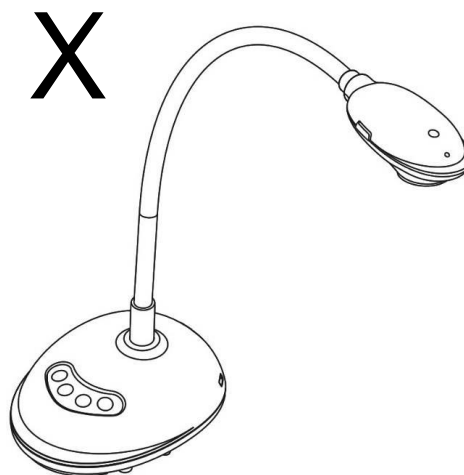
2.2 Relative Operation Position



Correct use



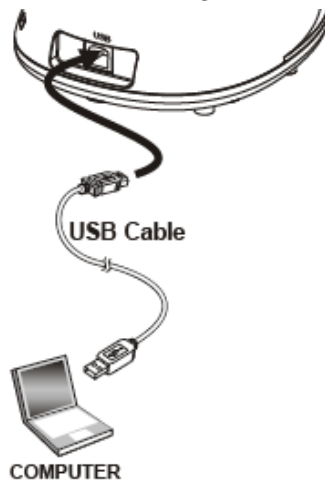
Incorrect use



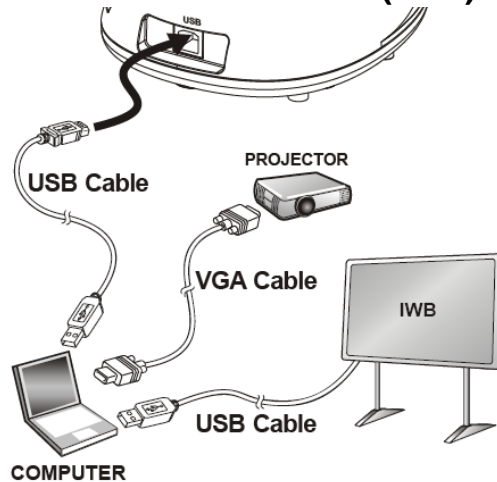
Chapter 3 Installation and Connections

3.1 Connecting to a computer

※Use USB to connect to the computer to start using, and no need to connect the power supply.

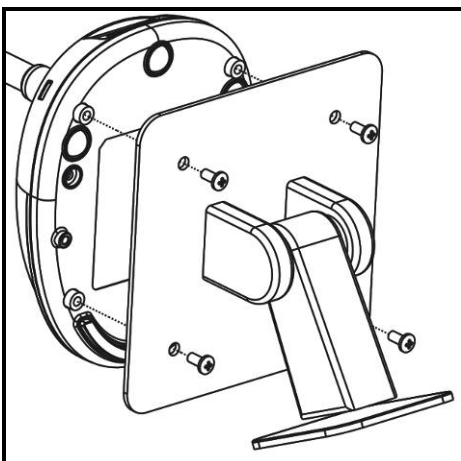


3.2 Connecting to an Interactive Whiteboard (IWB)



3.3 For use with VESA Installation Base

1. Please purchase the standard VESA installation base
2. Please use appropriate screws: Screw length = 5 mm + base thickness (H1); M4 screw (P=0.7)



- VESA bolt pitch 75*75mm
- VESA base thickness (H1)
- Screw length = 5 mm + base thickness (H1)
- M4 screw (P=0.7)

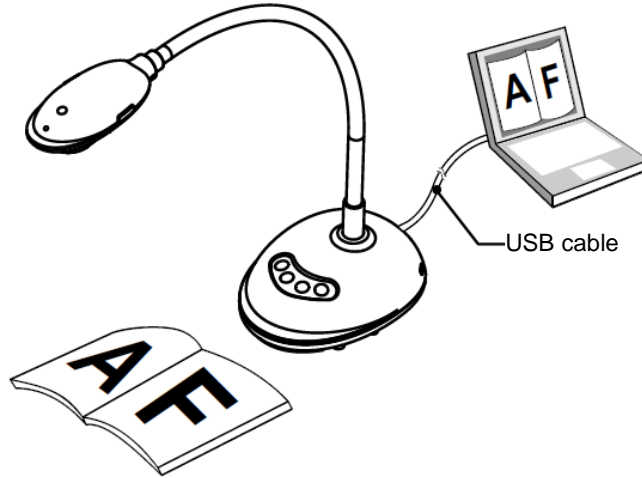
3.4 Installing Application Software

The Lumens Ladibug software installed on the computer enables you to:

- Control the DC136.
- Capture and record images.
- Annotate the image, highlight important details and save it.
- Support the full screen function.
- × Please refer to the software user manual for installation steps and software operation.
 - Windows: Ladibug 4K Software User Manual
 - MAC: Ladibug 3.0 Software User Manual

Chapter 4 Start Using

<Note>Please make sure that the USB cable is connected and Ladibug™ application software is installed at first. Please refer to [Chapter 3 Installation and Connections](#)



1. After installing Ladibug software, double-click the icon to open the software to view the images and control DC136
POWER Frequency setting page will display during the first use, please complete the settings following the instructions on the screen.

Windows:

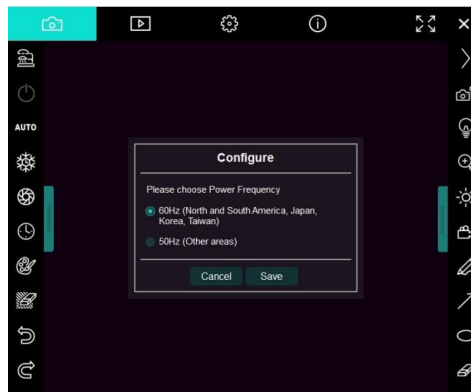


Ladibug 4K

MAC:



Ladibug MAC 3.5



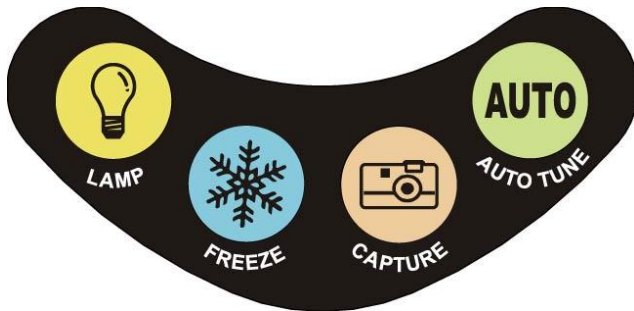
2. Place an object to be displayed under the camera.
3. Press [AUTO TUNE] **AUTO** or **AUTO** button to optimize the image.
4. You are ready to teach/present.





※Please download Ladibug software from Lumens website.

※When connected to a computer via a USB cable, DC136 can also be used with video software, such as Skype and Zoom.

Chapter 5 Function Menu

5.1 Function Descriptions of Control Panel Button




Icon	Name	Function Descriptions
	LAMP	Turn on/off LED indicator.
	FREEZE	Freeze the current image to remain temporarily on the screen. Press again to defreeze.
	CAPTURE	Capture the image to the computer.
	AUTO TUNE	Automatically adjust the image to have the best brightness and focusing performance.

Chapter 6 Descriptions of Major Functions

6.1 Control the Camera

1. Please download Lumens Ladibug software at Lumens website.
2. Please refer to [Ladibug Software User Manual](#) for software-related functions.

6.2 Use Skype for Video Conference

Please refer to [Chapter 3 Installation and Connections](#) to finish connecting the computer. Start Skype, select a contact, and press  to start the video conference.

If it doesn't work, please refer to the following steps to setup the camera:

1. Start Skype -> [Setting] -> [Audio & Video]
2. Select [Lumens DC136 Video Camera]
3. Select [Lumens DC136 Audio]

After the setting is completed, the video conference is ready to begin.

※It can also be used with Zoom, Teams, Google Meet, and other video software

※If the image of the video software is opposite to the actual image (mirror image), please use Lumens Ladibug software to rotate the image

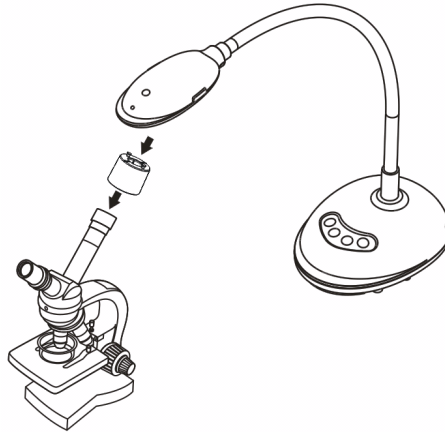
Chapter 7 Connecting to Microscope

※Microscope adapters are optional. Please contact Lumens sales to purchase them

1. Attach the microscope adapter to the microscope.

<Note> Microscope adapter accessories are applicable to eyepieces of Ø28 mm.

2. Connect the lens with the microscope adapter



3. If the image is not clear

3.1 Press the [FOCUS] button on both sides of the lens to activate the auto focus.

Chapter 8 Troubleshooting

This chapter describes problems you may encounter while using DC136. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributor or the service center.

No.	Problems	Solutions
1.	Boot without power signal	Ensure that the USB cable is connected.
2.	No screen with Ladibug software	<ol style="list-style-type: none"> 1. Change the USB cable 2. Please try the USB port on the back of the computer or other USB port. 3. Make sure no other application software has DC136 images open at the same time. If other software is already using DC136 images, Ladibug software cannot output the screen.
3.	Unable to focus	Probably the document is too close. Please pull the document away from the lens, and then press the [AF] button on both lateral sides of the lens.
4.	DC136 cannot operate normally	The machine cannot operate normally probably because the power supply of the USB port at the front end of the computer is insufficient. Try to connect to a USB port at the rear end or a USB Hub with a power adapter.
5.	Output screen flicker	<p>The presetting value of Ladibug current frequency is 60 (Hz). If current frequency of your local country is 50 (Hz), output screen flicker may occur during the use of Ladibug.</p> <p>Please refer to the Camera Settings section of the Software Manual to change the Power frequency setting to 50 Hz.</p>
6.	When the function of Time Lapse is executing, Preview screen remains still	Connecting USB Hub may result in insufficient bandwidth, which makes the machine unable to operate normally; therefore, it is advised that the machine shall be connected to the computer directly through USB cable instead of USB Hub.
7.	When using the video software, the image screen is opposite to the actual one (mirror image)	<p>Please use Lumens Ladibug software to rotate the image.</p> <p>Please refer to Ladibug Software User Manual for software-related functions.</p>

Chapter 9 Safety Instructions

English

Always follow these safety instructions when setting up and using this Product:

1 Operation

- 1.1 Please use the product in the recommended operating environment, away from water or source of heat
- 1.2 Do not place the product on a tilted or unstable trolley, stand or table.
- 1.3 Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- 1.4 Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- 1.5 Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the USB port becomes damaged or frayed.
 - If liquid is spilled into the product or the product has been exposed to rain or water.

2 Installation

- 2.1 For security considerations, please make sure the standard hanging rack you bought is in line with UL or CE safety approbations and installed by technician personnel approved by agents.



3 Storage

- 3.1 Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 3.2 Remove the USB cable during thunderstorms or when the product is not used for a long time.
- 3.3 Do not place this product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

- 4.1 Disconnect all the cables prior to cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.

■ Precautions

	This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock. Do not remove the cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.		This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.
---	---	--	---

■ FCC Warning (A)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Notice :

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment..

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

■ IC Warning

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

■ EN55032 CE Warning

Operation of this equipment in a residential environment could cause radio interference.

Warning: Operation of this equipment in a residential environment may cause radio interference

Français

Respectez toujours les instructions de sécurité lors de la configuration et de l'utilisation de la Document Camera :

1 Opération

- 1.1 Veuillez utiliser le produit dans l'environnement d'exploitation recommandé, à l'écart de l'eau ou d'une source de chaleur.
- 1.2 N'installez pas le produit sur une position inclinée ou sur un chariot, un support ou une table instable.
- 1.3 Ne pas bloquer les orifices et ouvertures du boîtier du produit. La ventilation qu'elles fournissent empêche le produit de surchauffer.
- 1.4 Ne pas ouvrir ou retirer les couvercles sous peine d'exposer les utilisateurs à des tensions électriques dangereuses et à d'autres dangers. Référer vous pour tout entretien au personnel de service autorisé.
- 1.5 Débranchez le produit de la prise murale et adressez-vous pour l'entretien au personnel de service autorisé dans les situations suivantes :
 - Si les cordons d'alimentation sont endommagés ou effilochés.
 - Si du liquide est renversé à l'intérieur du produit ou s'il a été exposé à la pluie ou à de l'eau.

2 Installation

- 2.1 Pour des raisons de sécurité, veuillez vous assurer que le support de suspension standard que vous avez acheté est conforme aux normes de sécurité UL ou CE et qu'il a été installé par un technicien agréé par des agents.

3 Stock.

- 3.1 N'installez pas le produit à un emplacement où le cordon peut être piétiné car cela risque d'effiloche ou d'endommager le cordon ou la prise.
- 3.2 Débranchez le produit pendant les orages ou s'il n'est pas utilisé pendant une longue période.
- 3.3 Ne placez pas le produit ou les accessoires sur le dessus d'un équipement vibrant ou des objets chauffés.

4 Nettoyage

- 4.1 Débranchez tous les câbles avant de nettoyer et essuyez la surface avec un chiffon sec. N'utilisez pas d'alcool ou de solvants volatils pour le nettoyage.

■ Précautions



Ce symbole indique que cet équipement peut contenir une tension dangereuse qui risque de causer une décharge électrique. Ne retirez pas le couvercle (ou la partie arrière). Il n'y a aucune pièce réparable par l'utilisateur à l'intérieur. Veuillez vous référer au personnel de service autorisé.



Ce symbole indique qu'il y a des instructions d'opération et d'entretien importantes dans le manuel d'utilisation accompagnant cet unité.

■ Avertissement de la FCC

Cet équipement a été examiné et avéré être conforme aux limites pour un dispositif numérique de la classe A, conformément à la partie 15 des règlements de la FCC. Ces limites sont conçues pour assurer une protection raisonnable contre une interférence nocive lorsque l'équipement est actionné dans un environnement commercial.

Notice :

Les changements ou modifications non expressément approuvés par la partie responsable de la conformité pourraient annuler le droit de l'utilisateur à utiliser l'équipement.

■ Avertissement de l'IC

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'Industrie.

■ Avertissement EN55032 CE

L'utilisation de cet équipement dans un environnement résidentiel peut provoquer des interférences radio.

Copyright Information

Copyrights © Lumens Digital Optics Inc. All rights reserved.

Lumens is a trademark that is currently being registered by Lumens Digital Optics Inc.

Copying, reproducing or transmitting this file is not allowed if a license is not provided by Lumens Digital Optics Inc. unless copying this file is for the purpose of backup after purchasing this product.

In order to keep improving the product, the information in this file is subject to change without prior notice.

To fully explain or describe how this product should be used, this manual may refer to names of other products or companies without any intention of infringement.

Disclaimer of warranties: Lumens Digital Optics Inc. is neither responsible for any possible technological, editorial errors or omissions, nor responsible for any incidental or related damages arising from providing this file, using, or operating this product.