

**ELMO**

# ***ELMO Huddle Space***

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**HS-G1/HS-G2/HS-G3**

# **INSTRUCTION MANUAL**

Please read this instruction manual carefully before using this product.



## ■ IMPORTANT SAFEGUARDS

### ■ Read Instructions

All the safety and operating instructions should be read before the appliance is operated.

### ■ Retain Instructions

The safety and operating instructions should be retained for future reference.

### ■ Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

### ■ Follow Instructions

All operating and use instructions should be followed.

### ■ Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

### ■ Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

### ■ Water and Moisture

Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

The connector of this unit and the USB cable into the water or foreign matter, or not wet. This could cause a fire or electric shock.

### ■ Placement

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

### ■ Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

### ■ Power Sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

■ **Grounding or Polarization**

This product may be equipped with either a polarized 2-wire AC line plug (a plug having one blade wider than the other) or a 3-wire grounding type plug, a plug having a third (grounding) pin. The 2-wire polarized plug will outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. The 3-wire grounding type plug will fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

■ **Power-Cord Protection**

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

■ **Lightning**

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

■ **Overloading**

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

■ **A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.**



■ **Object and Liquid Entry**

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

■ **Servicing**

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

■ **Damage Requiring Service**

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

- If the product has been dropped or damaged in any way
- When the product exhibits a distinct change in performance - this indicates a need for service.

#### ■ Replacement Parts

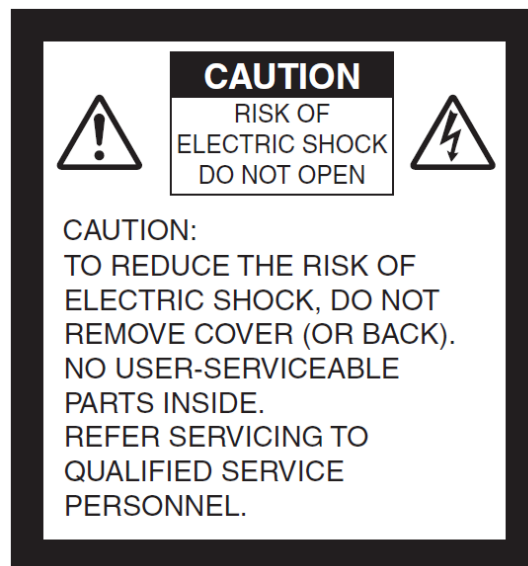
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

#### ■ Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

#### ■ Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



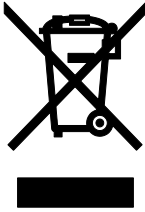
SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



SA 1966

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature



This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the EU countries.

Please do not throw the equipment into the domestic refuse.  
Please use the return and collection systems available in your country for the disposal of this product.



This symbol [crossed-out wheeled bin Directive 2006/66/EC Annex II] indicates separate collection of waste batteries in the EU countries.

Please do not throw the batteries into the domestic refuse.  
Please use the return and collection systems available in your country for the disposal of the waste batteries.

## **WARNING**

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.**

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification or Declaration of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## **FOR UNITED STATES USERS: INFORMATION**

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.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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.

## **FCC CAUTION**

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

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

**THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.**

## **WARNING:**

Handling the cord on this product or cords associated with accessories sold with this product, will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

***Wash hands after handling.***

# BEFORE YOU USE

## Power Supply

- Be sure to use the power cable and AC adapter that come with the product.
- The power cable and AC adapter that come with the product are for the product only. Do not use them with another product.
- Be sure to use the AC adapter applicable to your local power specifications. If the product was sold in Japan, use the AC adapter sold with the product with 100 VAC and 50 or 60 Hz.

## Installation

- Do not place this product in any humid, dusty, salt bearing wind, or vibrating locations. Use it under the following environmental conditions:
  - Temperature: 0°C - 40°C
  - Humidity: 30% - 85% (No condensation)
- Follow the guidelines below to prevent the unit from dropping or overturning.
  - Use the product on a stable base, desk, or table. Do not place the product on an unstable base or slanted location.
  - Place or wire the product to prevent the cables such as power cable and AC adapter cable from pulling.

## Storage and Maintenance

- Make sure to turn off the power of the product before cleaning. Use a soft, dry cloth for cleaning.
  - Do not use any volatile solvent such as thinner or benzene.
- When storing the product, do not leave it under direct sunlight or by heaters. It may be discolored, deformed, or damaged.

## Battery

- Remove the battery from the remote control when not in use for an extended period of time.
- Do not use a rechargeable battery.
- Do not charge or short-circuit the battery.
- Follow the regulations of the city or town when disposing of the battery.
- Pay attention to the polarity (+ / - ) of the battery.
- Children may ingest small batteries; always keep batteries safe and out of reach.
  - If a battery is swallowed, consult a doctor immediately as this could result in asphyxiation or be an obstacle to digestion, etc.
- If any liquid from a battery leaks onto your skin or clothes, flush the area with clean water immediately. If it gets into your eye, flush immediately with clean water and then contact a doctor.
- A battery is used for the internal clock. When you need to replace the battery, contact the dealer from whom you purchased this product.

## Other Precautions

- Do not open the cover of the product or disassemble the product. Doing so may cause malfunction.
- Carry the product by holding the lower part of the main unit in both hands.
- Do not wrap the cable tightly during use, otherwise the cable may be broken.
- Save a backup copy before switching HDMI devices. Malfunction of the product may occur due to a problem while switching the devices.
- If the product is used for longer than the warranty period, its performance and quality may deteriorate due to the lifetime of its parts. For parts replacement (on chargeable basis), consult the dealer from whom you purchased the product or our branch/office near your location.
- ELMO shall not be liable for any loss of data or program occurred during the use of the product.
- This product is designed to be used with the normal HDMI devices. It is not designed to be used for the applications which require high-level reliability and security.
- There may be unexpected compatibility problems when different devices of different manufacturers are connected to the product. Also, the full performance of the devices may not be obtained when multiple devices are connected.
- About features  
Functions and features may vary depending on the models. Some setting items or functions are not available with some models.
- Copyright  
Unless used for personal use, it is prohibited strictly under copyright law to use any data recorded using the product without the prior consent of the copyright holder. Even if using for personal use, be careful that there could be a situation where recording is restricted or illegal.
- The contents of this document are subject to change without notice.  
The latest version can be obtained from the following official website:  
<http://www.elmousa.com/>  
<http://www.elmoeurope.com/>
- It is prohibited under copyright law to use or copy any part or the whole of this document without our prior written consent.
- ELMO shall not be liable for any claim for damage or loss of earnings or any claim raised by a third person due to the use, malfunction or repair of this product.
- Recording / Playback
  - We recommend that you make a test recording and playback before the actual recording to ensure the normal video and audio recording operations.
  - When the recording time becomes too long, the video file may be divided into multiple files.
- Microphone  
Connecting a microphone other than an electret condenser microphone (a microphone for a computer) may cause malfunction.

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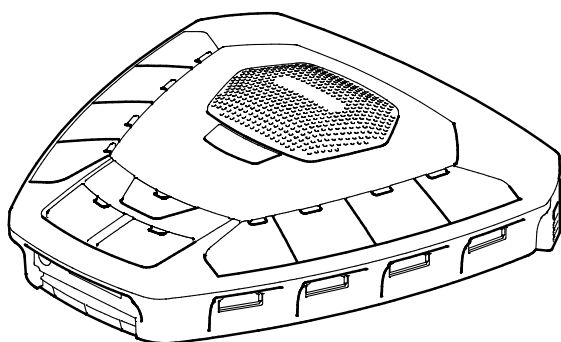


# ① PACKAGE CONTENTS

The items below are included with the product. If any item is missing, contact the dealer from whom you purchased this product.

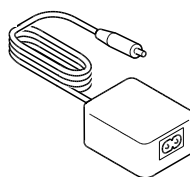
The items included vary depending on the model. Note in advance that some items may not be included depending on the model.

①



Huddle Space

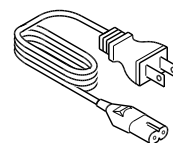
②



AC adapter

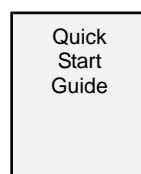
※By destination shape is different

③



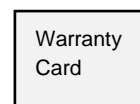
AC power cable (black)

④



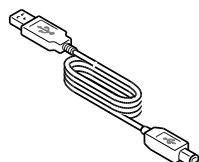
Quick Start Guide

⑤



Warranty Card  
(For Japan/ North America only)

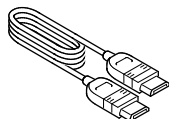
⑥



USB cable (gray)

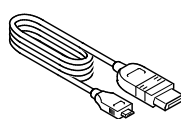
※For HS-G2/HS-G3 only

⑦



HDMI cable  
(TYPE A-TYPE A) (1m)  
2pcs

⑧



HDMI cable  
(TYPE A-micro) (1m)  
2pcs

⑨



IR wireless remote control  
※For HS-G2/HS-G3 only

⑩



Battery CR2025

(for remote control)

※For HS-G2/HS-G3 only

## ② FEATURE COMPARISON BY MODEL

Ports (input/output) and features vary depending on the models (HS-G1/ HS-G2/ HS-G3).

Refer to the below table for details.

### ■ INTERFACE AND FUNCTIONS

INTERFACE		HS-G1	HS-G2	HS-G3
INPUT	MIC IN	–	○	○
	HDMI IN (8 terminals)	○	○	○
	Built-in microphone	○	○	○
	DC IN 12V	○	○	○
OUTPUT	HDMI OUT	○	○	○
	HDBaseT OUT	–	–	○
	DC OUT 5V	○	○	○
	RGB OUT	○	○	○
	AUDIO OUT	–	○	○
	USB	–	○	○
	SD card slot	○	○	○

RECORDING	HS-G1	HS-G2	HS-G3
Still image recording	–	○	○
Video recording	○	○	○

AUDIO		HS-G1	HS-G2	HS-G3
INPUT	Built-in microphone	Possible to record to the SD card. ※Not possible to output the audio. ※The audio from the built-in microphone will not be recorded when an external microphone is connected.		
	External microphone			
	Audio of the connected HDMI device	Possible to output the audio. ※Not possible to record the audio.		
OUTPUT	AUDIO OUT	The audio of the connected HDMI device is output from this port. ※Available only when the output mode is set to RGB. ※This feature is not available with the HS-G1. ※HDCP protected signal is not output.		
	Recording with audio	The audio from the built-in microphone or external microphone will be recorded. ※The audio from the built-in microphone will not be recorded when an external microphone is connected. ※The audio of the connected HDMI device will not be recorded.		

FUNCTION	HS-G1	HS-G2	HS-G3
Playback	Use a media player on your computer to play the recorded files.		
Operation with the remote control	–	○	○
Mass storage mode	–	○	○
Clock function	○	○	○
Use with the Battery for the Huddle Space (sold separately)	○	○	○

## ■ LED

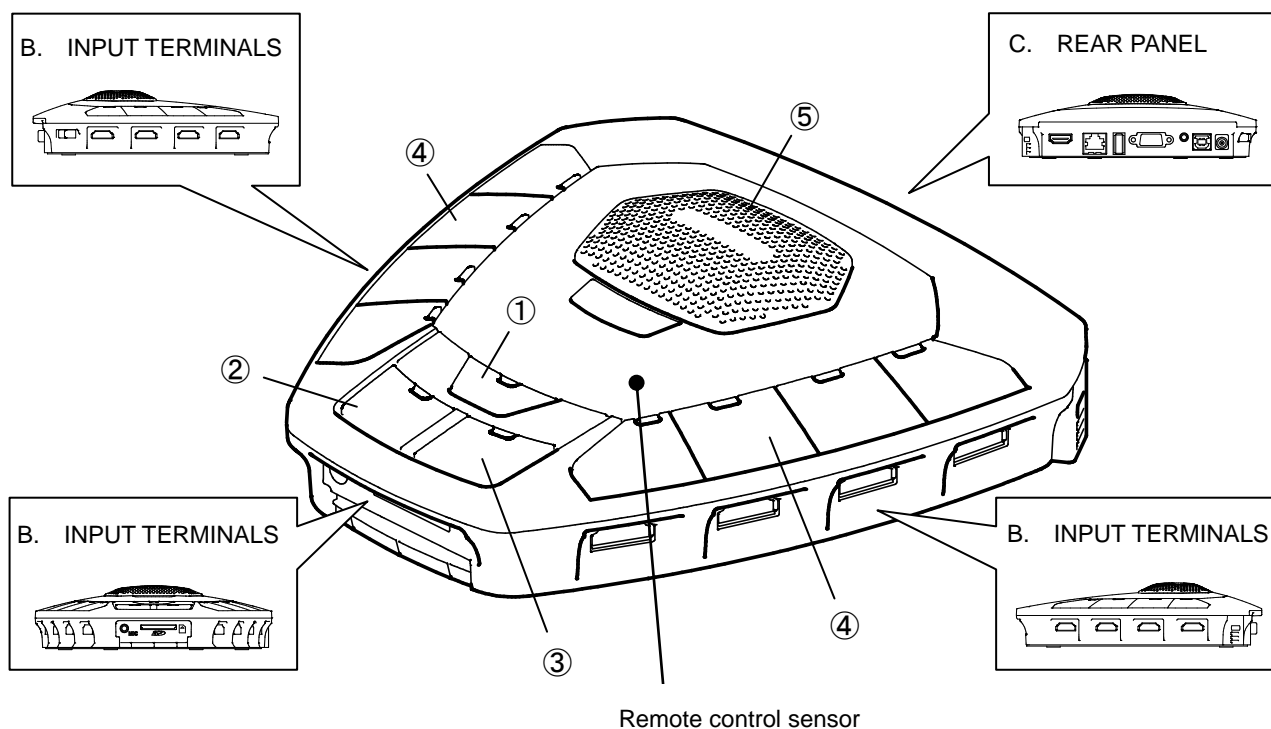
		LED COLOR	LED STATUS
Power LED	Standby	Red	ON
	Power ON	Blue	ON
Channel LED	When selected	Green	ON
MIC MUTE LED	When MUTE is on	Green	ON
REC LED	When recording	Green	ON
	When recording is not possible ※1	Green	Quickly flashes 3 times and then goes off
	When there are recording limitations ※2	Green	Flashing (Continuously)

※1. When the SD card cannot be recognized or when there is insufficient capacity on the SD card or when the product is connected to a computer via the USB cable.

※2. When an input device is not connected or when HDCP signal (copy-protected signal) is input.

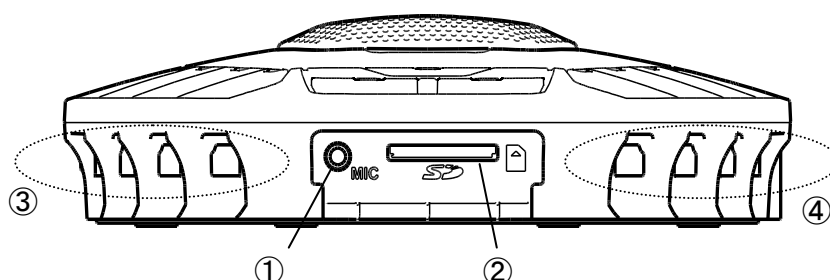
### ③ THE NAME OF EACH PART

#### A. OPERATING PANEL



	Name	Function
①	Power button	To turn ON/OFF the power. Power ON : LED lights up blue Power OFF : LED lights up red (Standby)
②	MIC MUTE button	To mute or cancel mute of the microphone during recording.
③	REC button	To start or stop recording. (The recorded video file and audio will be saved in the SD card.) ※The LED lights up during recording.
④	Channel buttons (8ch)	Switch the channel of the image to be input to the product.
⑤	Built-in microphone	To record surrounding voice and sound during video recording.

## B. INPUT TERMINALS



	Name	Function
①	MIC IN port	To connect an external microphone (electret condenser microphone) to input audio from the external microphone. ※When the external microphone is connected, the built-in microphone is disabled.
②	SD card slot	To insert the SD card (commercially available). To remove, push in again, then pull out.
③	HDMI input ports (HDCP non-compliant) (Channel 1,3,5,7)	To switch among the input devices with the Channel buttons. Connect a device such as Windows PC or Chromebook to HDCP compliant connectors (channel 2,4,6,8). Devices such as DVD player or Android device can be connected to HDCP compliant connectors (channel 2,4,6,8) to display images. (The recording cannot be performed.) Connect an Apple device such as iPhone, iPad, or MacBook to HDCP non-compliant connectors (channel 1,3,5,7). Refer to “Matrix of HDMI input connectors and HDMI devices” for details.
④	HDMI input ports (HDCP compliant) (Channel 2,4,6,8)	

### Matrix of HDMI input connectors and HDMI devices

HDMI device	Windows PC / Chromebook			
HDMI input connector	HDCP non-compliant (Channel 1,3,5,7)		HDCP compliant (Channel 2,4,6,8)	
Input image	Normal image (Not protected)	Image protected by HDCP	Normal image (Not protected)	Image protected by HDCP
HDMI OUT HDBaseT OUT	○	×	○	○
RGB OUT,AUDIO OUT Video recording, Still-image recording	○	×	○	×

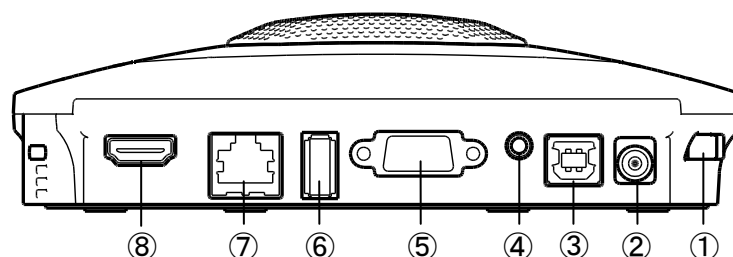
HDMI device	Blu-ray player / DVD player / Android device			
HDMI input connector	HDCP non-compliant (Channel 1,3,5,7)		HDCP compliant (Channel 2,4,6,8)	
Input image	Normal image (Not protected)	Image protected by HDCP	Normal image (Not protected)	Image protected by HDCP
HDMI OUT HDBaseT OUT	×	×	○	○
RGB OUT,AUDIO OUT Video recording, Still-image recording	×	×	×	×

HDMI device	iPad / iPhone / MacBook			
HDMI input connector	HDCP non-compliant (Channel 1,3,5,7)		HDCP compliant (Channel 2,4,6,8)	
Input image	Normal image (Not protected)	Image protected by HDCP	Input image	Normal image (Not protected)
HDMI OUT HDBaseT OUT	○	×	○	○
RGB OUT,AUDIO OUT Video recording, Still-image recording	○	×	×	×

### CAUTION

- We do not guarantee the compatibility with all the commercially available HDMI devices (including HDMI conversion tools).
- The above matrix shows only examples.  
Be sure to verify the compatibility with the HDMI device to be connected before actually using it with the Huddle Space.

## C. REAR PANEL

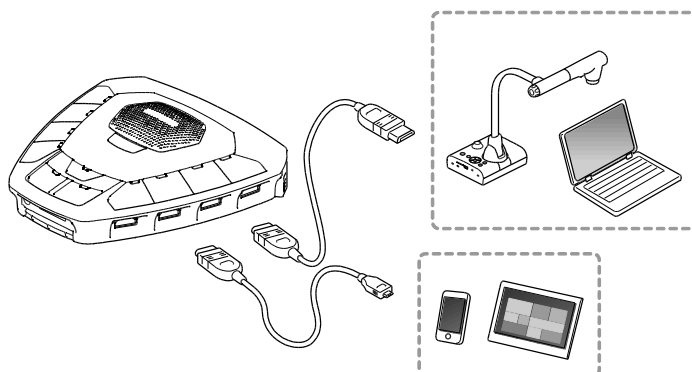


	Name	Function
①	Output mode selection switch	To set the output video mode of the selected channel. (RGB/HDBaseT/HDMI) ※The HDBaseT mode is for HS-G3 only.
②	DC IN 12V port	To connect the DC plug of the supplied AC adapter.
③	USB port	To connect to a computer via the supplied USB cable to play video files or audio files on the SD card. Use a media player on your computer to play the recorded files. (※The USB cable is not included in the HS-G1.)
④	AUDIO OUT port	To output audio. (The audio cable is not included in the product.) ※This function is available only when the analog RGB output is selected. ※HDCP protected signal is not output.
⑤	RGB OUT port	To output analog RGB images. (The RGB cable is not included in the product.) ※HDCP protected signal is not output.
⑥	DC OUT 5V port	To supply DC5V power to an external WHDI module (commercially available). ※WHDl module only, please use.
⑦	HDBaseT OUT port	To connect to a projector or monitor which has an HDBaseT port, or to the Receiver Box (commercially available) via a commercially available Ethernet cable (Cat5e or higher).
⑧	HDMI OUT port	To output digital images and sound. (The HDMI cable is included in the product.)

## 4 BASIC OPERATIONS

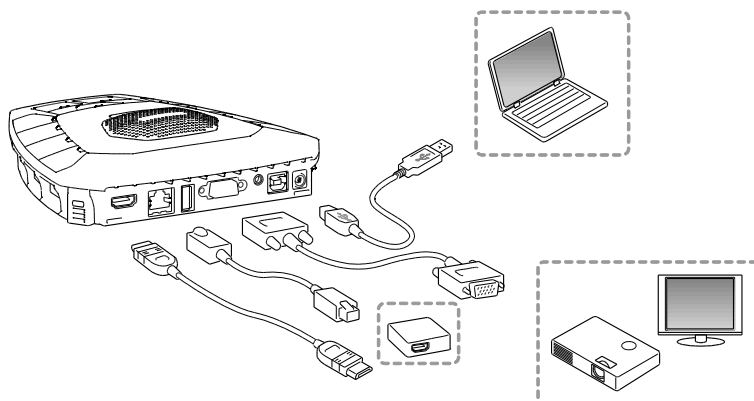
### ■ CONNECTING THE INPUT CABLE TO THE PRODUCT

After connecting the HDMI cable to the device, connect it to the HDMI input port of the product. Repeat the same when multiple devices are connected.



### ■ CONNECTING THE OUTPUT CABLE TO THE PRODUCT

Connect the output port in the rear panel of the product and the input port of the output device (such as a monitor or projector) with an appropriate cable.



### ■ TURNING ON/OFF THE POWER

#### TURNING ON THE POWER

- ① Connect the product and the supplied AC adapter. Connect the AC adapter to an AC outlet.
- ② Connect each HDMI device to the product with the HDMI cable.
- ③ Connect a video cable corresponding to an image display device to the product.
- ④ Press the Power button to turn on the power.

#### TURNING OFF THE POWER

- ① Press the Power button for long to turn off the power.
- ② Remove the video cable from the product. Disconnect the AC adapter from the AC outlet.



## 5 SWITCHING THE DISPLAYED IMAGE

### ■ SWITCHING THE INPUT SOURCE

The HDMI device to input can be selected by the following methods:

※Make sure that the Output mode selection switch is set correctly.

<Switching with the Channel buttons on the Operating panel>

Select the desired port by pressing the Channel button (①~⑧) on the Operating panel.

The video of the HDMI device connected to the selected port appears.

<Switching with the remote control>

Select the desired port by pressing the Channel button (①~⑧) on the remote control.

The video of the HDMI device connected to the selected port appears.

#### 【CAUTION】

The time it takes to change the channel may differ depending on the connected device.

### ■ REMOTE CONTROL

The input source can also be switched from the remote control.

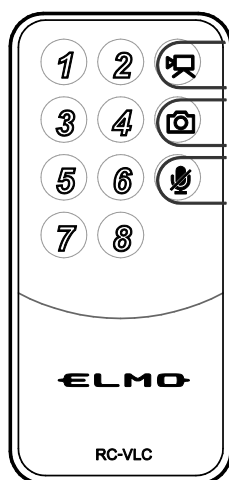
#### PREPARATION OF THE REMOTE CONTROL




Remove the cover in the back of the remote control and insert the supplied battery.

#### NOTE

The supplied remote control uses a coin cell battery, type “CR2025”.

#### REMOTE CONTROL OPERATIONS



Button	Name	Function
①~⑧	Channel buttons	To select the HDMI input for CH.
	REC button	To start/stop recording. (The recorded video file will be saved in the SD card)
	Capture button	To capture still images. (The captured image will be saved in the SD card.)
	MIC MUTE button	To mute the microphone during recording.

## 【CAUTION】

### ●About Recording

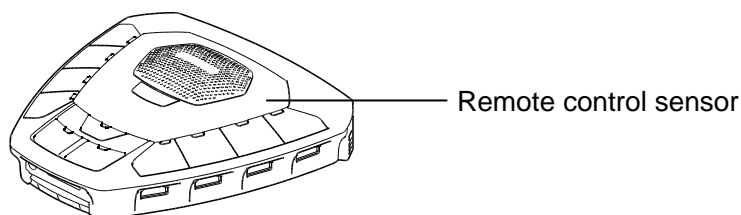
There are cases where recording is not possible.

In that case, LED of the REC button flashes.

For details, refer to “**⑥ RECORDING FEATURES**”.

## RECEIVING SIGNAL FROM THE REMOTE CONTROL

Point the transmitter of the remote control at the receiver of the product. Then press the desired button.



### NOTE

The receivable range may be reduced when the product is placed in direct sunlight or near an inverter fluorescent light.

Depending on the surrounding environment, the receivable range may be shorter or the sensor may fail to receive any infrared light. In such cases, relocate the product or shield the light source.

## PAIRING OF THE REMOTE CONTROL

By pairing the remote control with the product, the remote control works as a dedicated remote control for the product.

### HOW TO DO THE PAIRING

- ① While the product is powered off, press the Power button of the product for long. Then press the Channel button ① of the remote control three times.
- ② Check that the pairing is successfully completed. (The Channel LED of the 8 Channel buttons of the product will flash 2 times.)

### HOW TO CANCEL THE PAIRING

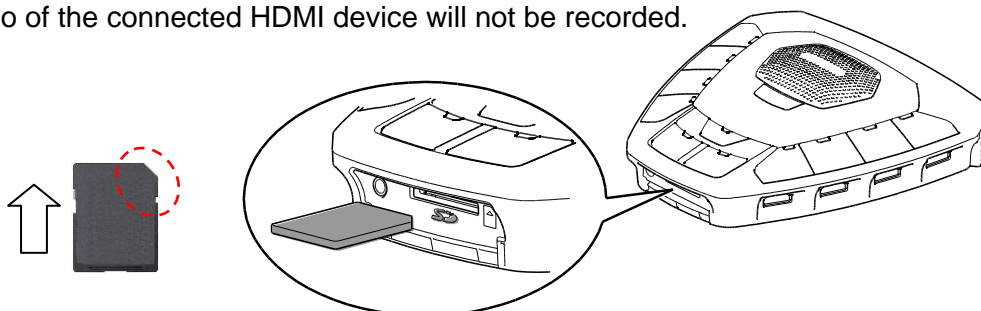
- ① While the product is powered off, press the Power button of the product for long. Then press the Capture button of the remote control three times.
- ② Check that the pairing is cancelled. (The MIC MUTE LED and REC LED will flash 2 times.)

## 6 RECORDING FEATURE

### RECORDING TO THE SD CARD

You can record still images and videos of the device connected to the product via the HDMI cable as well as the audio from the built-in microphone or external microphone to the SD card.

- ※Before you begin, insert a commercially available SD card into the SD card slot under the Operating panel.
- ※The product records a displayed image as well as the audio from the built-in microphone or external microphone.
- ※When an external microphone is connected, only the audio from the external microphone will be recorded.
- ※The audio of the connected HDMI device will not be recorded.



The product is not equipped with a playback feature.

Remove the SD card from the product and insert into your computer or connect the product and your computer with the supplied USB cable in the Mass Storage mode to playback the recorded still images or videos.

- ※The Mass Storage feature is not available with the HS-G1.

#### Recording limitations

The recording is not possible in the following cases:

- ①The product is connected to a computer with the USB cable.
- ②The HDCP protected signal is input to the selected channel.
- ③An HDMI cable is not connected to the selected channel.
  - ※The REC LED flashes when the recording (still image/ video) is not possible.
  - ※The REC LED starts to flash when ② or ③ occurs during video recording. (Only the audio from the built-in microphone will be recorded in this case.)
- ④The SD card does not have enough capacity.

#### NOTE

- It may take some time to recognize the SD card after inserting it or to save images to the SD card.
- Do not remove the SD card when it is in read/write operation.
- If you want to turn off the power during recording, press the REC button to stop recording and then long press the Power button to turn off the power.

#### CAUTION

- Depending on the type of the SD card being used, it may not be used with the product.
- Transfer the data from the SD card onto a device such as a computer to save a backup copy.
- When inserting the SD card, pay attention to its direction.
- Supported SD cards: SD, SDHC, SDXC (64 GB or less: Using the SD card class 6 or higher is recommended.)

## RECORDING PROCEDURES

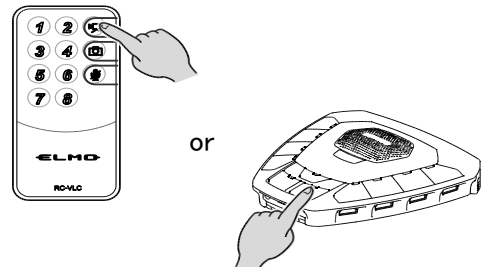
This section explains how to record still images and videos of the device connected to the product via the HDMI cable as well as the audio from the built-in microphone or external microphone to the SD card.

### Video (MP4 file / Image size: 1080p/30fps)

- ① Select the desired channel from 8 HDMI input channels.

Press the Channel button to perform the recording.

- ② Confirm that the image of the selected device is displayed on the monitor.
- ③ Press the REC button of the remote control or the product.
- ④ The REC LED turns during the recording.  
Press the REC button again to stop the recording.

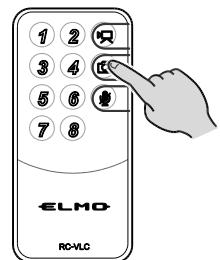


### **【CAUTION】**

- Do not remove the SD card while the LED is on.
- The REC LED flashes when the recording is not possible due to the recording limitations.
- The product records the audio from the built-in microphone when an external microphone is not connected. When an external microphone is connected, only the audio from the external microphone will be recorded.

### Still image (JPEG file / Image size: 1920×1080)

- ① Select the desired channel from 8 HDMI input channels.  
Press the Channel button to perform the still image capturing.
- ② Confirm that the image of the selected device is displayed on the monitor.
- ③ Press the Capture button on the remote control.  
The still image of the selected channel will be captured.
- ④ The REC LED turns for a few seconds. It will go off when the saving of data is completed.



### **【CAUTION】**

- Do not remove the SD card while the LED is on.
- The REC LED flashes when the still image capturing is not possible.
- The REC LED flashes once when a still image capturing is performed during recording.

### **CAUTION**

- We recommend that you make a test recording and playback before the actual recording to ensure the normal video and audio recording operations.
- When the recording time becomes too long, the video file may be divided into multiple files.
- Unless used for personal use, it is prohibited strictly under copyright law or international treaty to use any photo files or movie files without the prior consent of the copyright holder. Even if using for personal use, be careful that there could be a situation where video or audio recording is restricted or illegal.

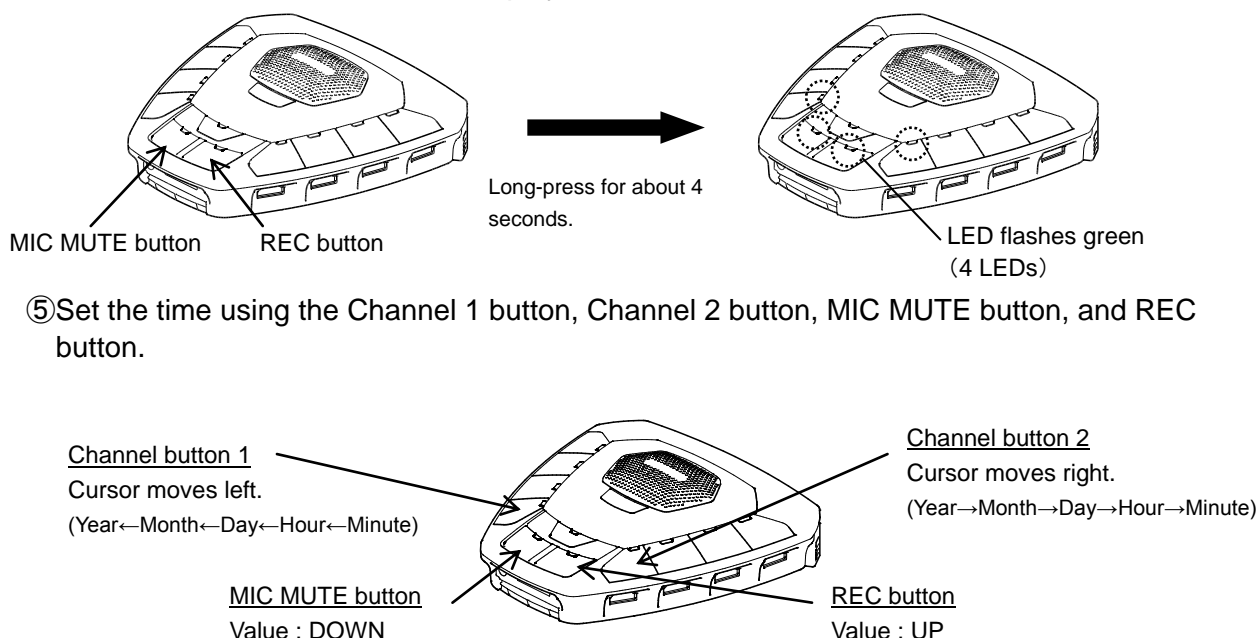
## 7 OTHER FEATURES

### ■ REAL TIME CLOCK FUNCTION

By setting the time, you can add time information to the data (video / still image) when recording to the SD card.

#### HOW TO SET THE TIME

- ① Set up the product and connect an image output device with a commercially available RGB cable.
- ② Set the output mode of the Output mode selection switch to RGB. Then turn on the power of the product.
- ③ Press and hold the REC button and MIC MUTE button together for about 4 seconds.
- ④ The Channel 1 LED, Channel 2 LED, MIC MUTE LED, and REC LED start to flash green and the Time Set screen will be displayed.



- ⑥ Press and hold the REC button and MIC MUTE button together for about 4 seconds.  
The time setting is completed and the product returns to the normal mode.

### ■ VIEWING FILES IN THE SD CARD ON A COMPUTER

You can view the still images or videos saved in the SD card on your computer.

Remove the SD card from the product and insert into your computer to playback the recorded still images or videos. You can also view the recorded files using the USB Mass Storage function. (Only for the HS-G2 and HS-G3)

Connect the USB port in the rear panel and your computer with the USB cable.

Do not remove or insert the SD card while the product is connected to a computer in the USB Mass Storage mode.

## ■ CONNECTING A COMMERCIALLY AVAILABLE HDBaseT DEVICE

※Only for the HS-G3

By connecting an HDBaseT device or a receiver which converts HDBaseT signals from the product to different types of signals, you can transmit high quality video signals without delay or degradation of image quality.

Connect the HDBaseT device to the HDBaseT port in the rear panel.

### NOTE

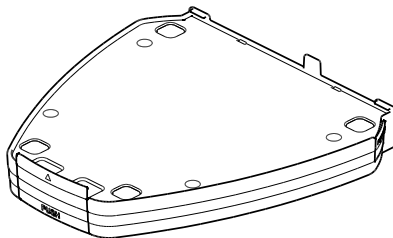
- Do not connect another transmitting device between the product and the transmitting device. The image quality may deteriorate.
- We do not guarantee the compatibility with all the commercially available HDBaseT transmission devices.

### CAUTION

- Do not connect/disconnect an Ethernet cable of the HDBaseT port while the product is powered on. It could cause malfunction.
- The HDBaseT port of the product does not support a connection with multiple devices using a hub.
- Use an Ethernet cable higher than Cat5e.
- Do not install or use the product while a part of the Ethernet cable connected to the product is bundled or wound.

## ■ BATTERY FOR THE HUDDLE SPACE (OPTION)

By connecting the optional battery attachment to the product, you can supply the power to the product and operate the product without using the AC adapter.



For details about the installation and operation procedures, refer to the instruction manual included in the battery for the Huddle Space.

※Also check the following Elmo official website for further details.

<http://www.elmousa.com/>

<http://www.elmoeurope.com/>

## ⑧ TROUBLE SHOOTING

### ■ SYMPTOMS AND SOLUTIONS

Check the following items. If any abnormality is found, consult the dealer from whom you purchased this product or our nearest branch/office.

Symptom	Possible cause/ remedy
No image is displayed.	<ul style="list-style-type: none"> <li>• The cable is not correctly connected. (Input cable, output cable)</li> <li>• The power cable is disconnected from the AC outlet.</li> <li>• The AC adapter is disconnected from the power supply socket of the product.</li> <li>• The power is not ON. (Check whether the Power button lights up blue.)</li> <li>• The power of the connected HDMI device is not ON.</li> <li>• If you turn on the power immediately after turning off, the product may not start. Wait for several seconds after turning off the power and then turn on.</li> <li>• Wrong output mode (RGB/HDBaseT/HDMI) is selected. Set the correct output mode with the Output mode selection switch.</li> <li>• Reconnect the AC adapter, power cable or other cables.</li> <li>• Wrong HDMI cable is used.</li> <li>• The HDMI cable is damaged (disconnected).</li> <li>• The image protected by HDCP is input to the Channel 1, 3, 5, 7. These channels are not compliant with HDCP and the image protected by HDCP cannot be output or recorded. Input the image protected by HDCP to the Channel 2, 4, 6, 8.</li> <li>• Data format of the input image is not supported by the product. Make sure that the data format of the image to be input is supported by the product.</li> <li>• Check if the LED of the desired channel button in the Operating panel is on. If the LED is not on, press the channel button to turn on the LED.</li> <li>• The output port of the Huddle Space is connected to the input port of another Huddle Space. Multiple number of Huddle Space cannot be connected together.</li> </ul>
The output image (resolution) changes automatically.	<ul style="list-style-type: none"> <li>• When a monitor is connected, the displayed image (resolution) is automatically changed according to the information from the connected monitor.</li> </ul>
Only noise appears on the screen.	<ul style="list-style-type: none"> <li>• There is a problem with the signal transmission. Check that the cables are properly connected.</li> <li>• An abnormal image such as a sandstorm may be displayed for a second when switching between the channels. This is not a malfunction.</li> </ul>
The color of the image is strange.	<ul style="list-style-type: none"> <li>• The setting of the output device is not correct. Check the setting of the output device.</li> </ul>

There is no sound.	<ul style="list-style-type: none"> <li>• The volume level of the connected device is too low. Increase the volume level.</li> <li>• An audio cable is connected to the MIC IN port in the front of the product. Reconnect the audio cable to the AUDIO OUT port in the rear panel.</li> </ul>
It is not possible to control the product from the remote control.	<ul style="list-style-type: none"> <li>• The remote control can only be used when the power of the product is ON. (The LED is lit in blue). Press the Power button to turn on the product.</li> <li>• The battery level of the remote control is low. Replace the battery.</li> <li>• The battery of the remote control is inserted in the wrong polarity. Make sure that the “ + ” mark is visible from the back of the remote control when installing the battery.</li> </ul>
It is not possible to record videos.	<ul style="list-style-type: none"> <li>• A cable is not connected properly.</li> <li>• The SD card is not inserted.</li> <li>• The SD card is broken.</li> <li>• The SD card is full.</li> <li>• Recording is not possible when the product is connected to a computer via the USB cable.</li> <li>• The image protected by HDCP is input to the Channel 1, 3, 5, 7.</li> </ul>
It is not possible to display HDBaseT videos.	<ul style="list-style-type: none"> <li>• The Output mode selection switch is not set to HDBaseT.</li> <li>• An Ethernet cable lower than Cat5e is used.</li> <li>• The length of the Ethernet cable is too long.</li> <li>• A part of the Ethernet cable connected to the product is bundled or wound.</li> <li>• A receiver which does not support HDBaseT is used.</li> </ul>
It is not possible to open (play) recorded video files.	<ul style="list-style-type: none"> <li>• A video player which does not support H.264/MP4 is used.</li> </ul>
No sound is recorded when recording videos.	<ul style="list-style-type: none"> <li>• The microphone is set to mute.</li> <li>• The sound from the input source will not be recorded.</li> </ul>

### **About long-term usage of this product**

- Due to the lifetime of its parts, if this product is used for longer than the warranty period, its performance and quality may deteriorate. In this case, we will replace the parts for a charge. Consult the dealer from whom you purchased this product or our nearest branch/office.

### **About a built-in coin cell battery**

- A coin cell battery is used to maintain the settings for the internal clock. If the clock does not show the correct time, contact the dealer from whom you purchased this product or our nearest branch/office and ask them to replace the battery (on chargeable basis).



## 9 SPECIFICATIONS

### ■ GENERAL

Item		Specifications
Power Source		DC12V(AC adapter AC100 ~ 240V)
Power consumption		7.0W
Outside dimensions		W 166.1 × D 179.1 × H 44.7 [mm]
Weight		Approx. 1.0kg(Main body only)
Compatible input devices		AV devices with HDMI output port such as a computer
Compatible output devices		AV devices with various input ports such as a monitor, TV and computer
Input terminal		Mic In terminalφ3.5mm jack× 1 Monaural electret Condenser microphone
		HDMI input terminal Type A× 8
		DC jack × 1
Output terminal		RGB output Mini Dsub 15P connector, female × 1
		Power terminal for WHDI module Type A × 1
		HDMI output terminal Type A × 1
		Line Out terminal Φ3.5mm stereo minijack × 1
		HDBaseT output terminal (RJ45) × 1
External control		USB device (2.0 compliant) Type B receptacle × 1
Memory interface		SD card slot ×1
USB	Specification	USB 2.0 compliant
	Transfer speed	High Speed (480 Mbps) / Full Speed (12 Mbps) ※The actual transfer speed may vary depending on the performance of your computer and the status of the USB bus.
	Power supply	Self-power ※No power supply from the USB bus.
Remote control		(IR) pulse-position modulation method
Slide switch (Output mode selection switch)		Selectable between HDMI, RGB and HDBaseT. ※For HS-G1 and HS-G2, selectable between HDMI and RGB.
Video recording format		H.264/mp4
Still image recording format		JPEG
Operating temperature		0~40°C
Humidity		30~85% (No condensation)

Battery (option)	
Outside dimensions	W156 × D161 × H29[mm]
Weight	330g

## ■ RESOLUTION / FRAMERATE

HDMI input supports the following resolutions:

Resolution	1080p/1080i/720p/480p/XGA (Max. 1080p/60fps)
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### NOTE

The output resolution and frame rate depend on the connected device.

## ■ TRADEMARKS AND LICENSES

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HDMI, **HDMI**™ logo and High-Definition Multimedia interface are trademarks or registered trademarks of HDMI Licensing LLC.

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This product is based on the work of the Independent JPEG Group.

All other company/product names described in this manual are trademarks or registered trademarks of their respective companies.

This product is licensed under the AVC Visual Patent Portfolio License (AVC Video) for the personal and non-commercial use of a consumer to

- (i) Play AVC Video that was recorded by a consumer engaged in a personal and a non-commercial activity and/or,
- (ii) Play AVC Video that was obtained from a video provider licensed from MPEG-LA, LLC.

Additional information including that relating to promotional and commercial uses may be obtained from MPEG-LA, LLC.

### ATTENTION

- Unless used for personal use, it is prohibited by copyright law to record slides, books and photos without the prior consent of copyright holder.
- This product is designed to be used in industrial environment. If it is used in a residential area or in an adjacent area thereto, harmful interference to radio or television reception may occur.
- Repair parts  
Repair parts are the items which are needed to maintain product functionality. The holding period of such repair parts is 3 years after the product discontinuation, which is equal to the repair period we will accept.
- Any image, which is obtained by this product, and which can be identified, is considered to be private information. Be forewarned that the person who makes use of such images shall be liable for disclosing of such images.

For details about specifications and instruction manual of the product, refer to the following official website.

<http://www.elmousa.com/>

<http://www.elmoeurope.com/>

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