Digital AV Broadcast System for Schools

User's Manual



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1. Introduction

Thank you for purchasing MV-500T (transmitter) / MV-500R (receiver).

This manual provides information on how to configure and use MV-500T /MV-500R. Please read the **1-2. Safety Instructions** carefully before using MV-500T /MV-500R.

1-1. Introduction

MV-500T/MV-500R has a "multicast real-time streaming function" that transfers video/ audio from a PC or video camera to the connected display over an IP multicast, and a "program preset function" that plays a video of the storage device using MV-500R only. This document describes how to configure and use MV-500T/MV-500R to establish a digital AV broadcasting system at school.

Disclaimers

- The unauthorized transfer or copying of the content of this manual, in whole or in part, without prior written consent is expressly prohibited by law.
- The content of this manual is subject to change without notice.
- This manual was prepared to accurately match the content of each OS, but the actual information shown on the computer monitor may differ from the content of this manual due to future OS version upgrades, modifications, and other changes.
- Although every effort was made to prepare this manual with the utmost accuracy, Silex Technology will not be held liable for any damages as a result of errors, setting examples, or other content.

Trademarks

- AMC Manager[®] is a registered trademark of Silex Technology.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Other company names and product names contained in this manual are trademarks or registered trademarks of their respective companies.

1-2. Safety Instructions

This page provides the safety instructions for safe use of MV-500T/MV-500R.

To ensure safe and proper use, please read the following information carefully before using MV-500T/MV-500R.

<Indication of the warning>

Warning	"Warning" indicates the existence of a hazard that could result in death or serious injury if the safety instruction is not observed.
Caution	"Caution" indicates the existence of a hazard that could result in serious injury or material damage if the safety instruction is not observed.

<Meaning of the symbols>

$\boldsymbol{\bigtriangleup}$	This symbol indicates the warning and caution. (Example: 🕂 "Danger of the electric shock")				
\bigcirc	This symbol indicates the prohibited actions. (Example: 🛞 "Disassembly is prohibited")				
	This symbol indicates the actions users are required to observe. (Example: 💦 "Remove the AC plug from an outlet")				

🔨 Warning

₽ ₹ 5	*When unplugging the power plug of the evaluation board, do not pull the cord. The cord may be damaged and it may result in fire or electrical shock. Be sure to hold the plug when disconnecting it.
	 Do not disassemble or modify the product. It may cause fire, electrical shock or malfunction. Do not disassemble or modify the AC adaptor that comes with the product. It may cause fire, electrical shock or malfunction.
\bigcirc	 Do not place any objects on top of AC adaptor, and do not cover it up with anything. Also, do not use the AC adaptor on top of the heat/moisture retaining materials (carpet, sponge, cardboard, styrofoam, etc.). The accumulated heat may result in fire or malfunction. Do not roll up or wrap the AC cord. It may cause fire or an electrical shock. Do not plug or unplug the AC adaptor or any other cables with wet hands. It may cause an electrical shock or malfunction. Keep the cords and cables away from children. It may cause an electrical shock or serious injury. Do not cover up the vents on the product. The temperature inside may rise and cause fire or malfunction.
	 Do not move the product when the AC adaptor is connected to it. The cable of AC adaptor may be damaged, and which may result in fire or electric shock. For use of the devices connected to the product, please follow all warnings, cautions and notices given by that manufacturer and carefully use them in a proper manner. Failure to follow these instructions may cause fire, electrical shock or malfunction. If a ground wire is supplied with your device to use with, connect it to the ground terminal in order to prevent an electrical shock. Do not connect the ground wire to gas pipe, water pipe, lighting rod or telephone ground wire. It may cause fire or an electrical shock.

🔨 Caution

\bigcirc	 Do not place any objects on the cable or bend, twist, or pull it excessively. Do not use or store MV-500T/MV-500R under the following conditions. It may cause malfunction. Locations subject to vibration or shock Shaky, uneven or tilted surfaces Locations exposed to direct sunlight Humid or dusty places Wet places (kitchen, bathroom, etc.) Near a heater or stove Locations subject to extreme changes in temperature Near strong electromagnetic sources (magnet, radio, wireless device, etc.) When installing the product to a high position, make sure that the product is firmly fixed so it does not drop for weight of the cables.
0	 When removing MV-500T/MV-500R, disconnect the AC plugs of both MV-500T/MV-500R and the other devices you are using with. Verify all codes or cables are plugged correctly before using MV-500T/MV-500R. When MV-500T/MV-500R will not be used for a long time, unplug the power cables of MV-500T/MV-500R and the other devices you are using with.
8	When unplugging the power plug of the evaluation board, do not pull the cord. The cord may be damaged and it may result in fire or electrical shock. Be sure to hold the plug when disconnecting it.

1-3. Product Information and Customer Services

Product Information

The services below are available from the Silex Technology's website. For details, please visit the Silex Technology's website.



- Latest software download
- Support information (FAQ)

Customer Support Center

Customer Support is available for any problems that you may encounter.

If you cannot find the relevant problem in this manual or on our website, or if the corrective procedure does not resolve the problem, please contact Silex Technology Customer Support.

Contact Information		
USA support@silexamerica.com		
Europe	support@silexeurope.com	



[•] Refer to the Silex Technology's website (https://www.silextechnology.com/) for the latest FAQ and product information.

Note

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2. Product Specification

MV-500T (Transmitter) connects to a video source such as PC or a video camera. MV-500R (Receiver) connects to a display. The MV-500T encodes video signals (images/audio) and simultaneously sends the data to MV-500R, which decodes and displays the data.

2-1. Features and System Structure

MV-500T/MV-500R have the following features.

Features

[Video/Audio Control]

- Video codec: "JPEG-XR"
- Audio codec: 16-bit stereo + mono PCM (sampling rate: 32 KHz / 44.1 KHz / 48 KHz)
- Different screen resolutions (640 x 480 1920 x 1080)
- Frame rate: Max. 30 fps
- Video and audio synchronization (Lip-sync)
- microSD data: MV-500R can play video data inside a microSD memory without MV-500T.

[Network Control]

- Multicast data distribution (data distribution to multiple MV-500Rs)
- MV-500R's clock adjustment function that gets the time information from MV-500T. With this function, multiple MV-500Rs play the content in sync.
- Wired LAN (10Base-T/100Base-TX/1000Base-T)
- MV-500T's network interface selecting function that sends the data only to the network interface to which MV-500R is being connected. The function will reduce the traffic in a network where no MV-500R has been connected.
- SX Smart Manager Pro for the remote management function. (Max. 32 units of MV-500R can be controlled via MV-500T.)

[Others]

- Device configuration on embedded web pages.
- Silex's tools: AMC Manager[®] E model (comprehensive wireless LAN management software, sold separately), and AMC Finder (product search utility, download for free)
- · AMC Manager® E model allows you to remotely control and monitor Silex products, change the settings and upgrade the firmware at once.

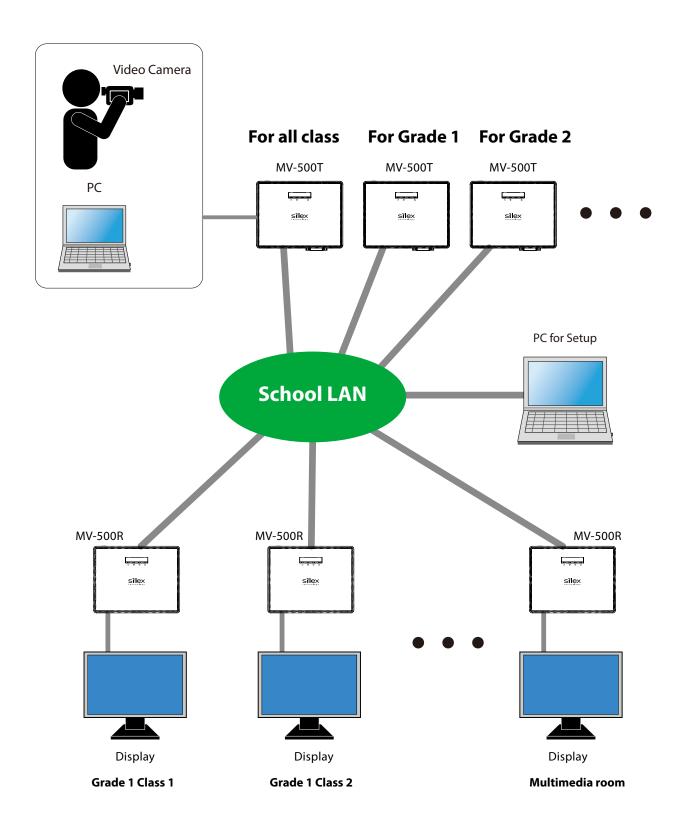


For details about AMC Manager® E Model, see Silex website.

Note

System Structure

This is an example structure of a school digital AV broadcast system using MV-500T/MV-500R.

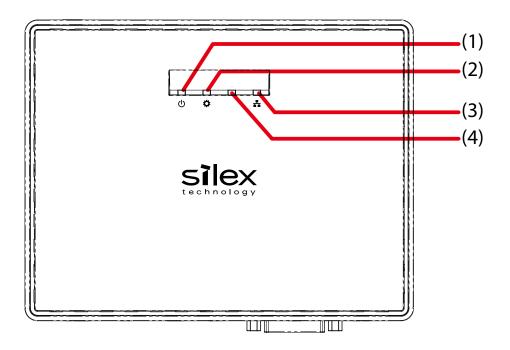


2-2. Parts and Functions

MV-500T (Transmitter)

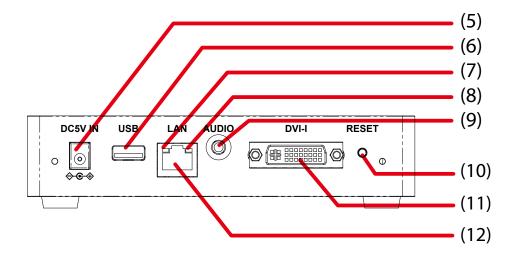
MV-500T hardware and the component functions are shown here:

(Top)



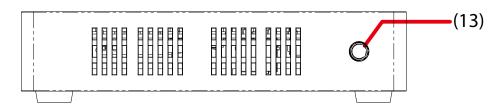
		Description	
(1)	PWR LED	Green - Solid	MV-500T is powered on.
	(Green / Orange / Red)	Red - Blinking	The firmware is being uploaded.
(2)	STAT LED	Green - Blinking	Video coding in progress (Tx digital)
	(Green / Orange / Red)	Orange - Blinking	Video coding in progress (Tx analog)
		Red - Solid	Resolution error
(3)	LAN LED	Green - Solid	Gigabit Link
	(Green / Orange)	Orange - Solid	10/100Base Link
		Off	No link
(4)	LED	Not used	

(Front Panel)



		Description		
(5)	Power Connector	Connects to the	Connects to the AC adapter.	
(6)	USB Port	Not used.		
(7)	Status LED (Yellow)	Solid on	Receiving packets (The LED turns on for 0.5 seconds every time a	
			packet arrives.)	
		Off	Not receiving packets	
(8)	Link LED (Green / Orange)	Green - Solid Gigabit Link		
		Orange - Solid	10/100Base Link	
(9)	Audio Output Jack	Connects to an audio cable (audio output plug).		
(10)	RESET Switch	Resets MV-500T to the factory default settings.		
		(For more details, see 6-4. Factory Reset)		
(11)	DVI-I Connector	Connects to a DVI cable.		
(12)	Network Port	Connects to a network cable.		

(Back Panel)

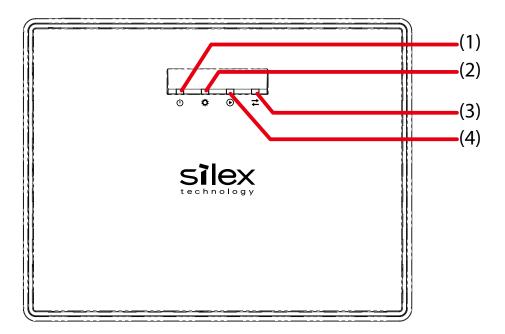


		Description	
(13)	Push Switch	Not used.	

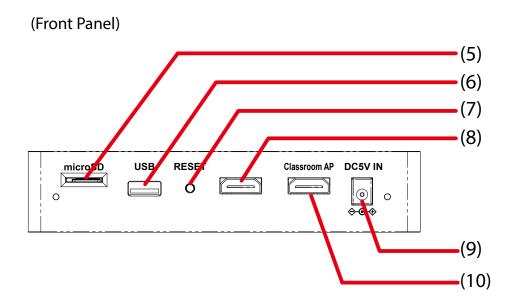
MV-500R (Receiver)

MV-500R hardware and the component functions are shown here:

(Top)

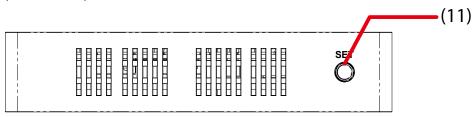


		Description	
(1)	Power LED	Orange - Solid	MV-500R is powered on.
	(Green / Orange / Red)	Red - Blinking	MV-500R is restarting.
		Red - Solid	The firmware is being uploaded.
(2)	Status LED	Green -Blinking	The bulletin board function is being effective.
	(Green / Orange / Red)	Orange - Blinking	Booting in process
(3) Device LED Shows the status of		Shows the status of a	a device connecting to the "Classroom AP" HDMI port.
	(Green / Orange / Red)	Green - Solid	MV-500R allows access from the connected device.
		Orange - Solid	The connected device has been authenticated.
		Red - Solid	MV-500R does not allow access from the connected device.
		Off	Nothing is connected.
(4)	Play Mode LED (Green / Orange / Red)	Green - Blinking	MV-500R is not playing anything or is playing the video data of a device connected to the "Classroom AP" HDMI port.
		Orange - Blinking	MV-500R is playing a preset program. (The program preset function is working.)
		Red - Blinking	MV-500R is playing streaming content. (The multicast real-time streaming is working).

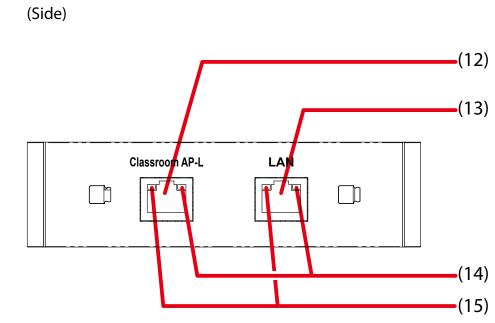


		Description
(5)	microSD Slot	Saves the content data to a microSD card that you inserted.
(6)	USB Port	Not used.
(7)	RESET Switch	Resets MV-500R to the factory default settings.
		(For more details, see 6-4. Factory Reset)
(8)	HDMI Connector	Connects to an HDMI cable.
(9)	Power Connector	Connects to the AC adapter.
(10)	HDMI Connector	Connects to an HDMI cable. This port is for a classroom access point (AP).

(Back Panel)



		Description
(11)	Push Switch	Switches transmitters that are executing the multicast real-time streaming
		function. This function is enabled only when Node List Method is set to
		Dynamic. The Static option disables this function and MV-500R cannot
		switch transmitters.



		Description						
(12)	Network Port	•	Connects to a network cable.					
		This port is for a d	This port is for a classroom AP.					
(13)	Network Port	Connects to a ne	Connects to a network cable.					
(14)	Link LED	Green - Solid Gigabit Link						
	(Green / Orange)	Orange - Solid	10/100Base Link					
(15)	Status LED (Yellow)	On	Receiving packets. (The LED turns on for 0.5 seconds every time a					
		packet arrives.)						
		Off	Off Not receiving a packet.					

2-3. Product Specification

Interface

MV-500T (Transmitter)

Interface	Video	DVI-I x 1						
		(Use a conversion cable for analog RGB In/Out)						
	Audio	3.5 Stereo Mini Jack x 1						
	Ethernet	10BASE-T/100BASE-TX/1000BASE-T Auto-negotiation						
	USB	USB2.0 x1						
Video In/Ou	t Support	Screen resolution auto-detect						
			District	Analog				
		Supported	Digital	(*See Note)				
		VGA(640x480)	Yes	Yes				
		480p(720x480)	Yes	Yes				
		SVGA(800x600)	Yes	Yes	l			
		XGA(1024x768)	Yes	Yes				
		720p(1280x720)	Yes	No				
		WXGA(1280x768)	Yes	No				
		WXGA(1280x800)	Yes	No				
		SXGA(1280x1024)	Yes	No				
		FWXGA(1360x768)	Yes	No				
		WSXGA(1600x1024)	Yes	No				
		Full-HD(1920x1080)	Yes	No				
		(*Note) Use a 15-pin D-sub to DVI-I	conversion adapte	r or cable for the a	nalog connection.			

MV-500R (Receiver)

Interface	Video/Audio	HDMI in, HDMI out	VII in, HDMI out		
	Ethernet	10BASE-T/100BASE-TX/1000BASI	E-T Auto-negotiation x 2		
	USB	USB2.0 x1			
	microSD	microSD, microSDHC			
Video Outpu	it Support	Screen resolution auto-detect			
		Supported	Digital		
		VGA(640x480)	Yes		
		480p(720x480)	Yes		
		SVGA(800x600)	Yes		
		XGA(1024x768)	Yes		
		720p(1280x720)	Yes		
		WXGA(1280x768)	Yes		
		SXGA(1280x1024)	Yes		
		FWXGA(1360x768)	Yes		
		WSXGA(1600x1024)	Yes		
		Full-HD(1920x1080)	Yes		

Video

Interface	DVI-I
	Analog : RGB
	Digital : DV/HDMI(HDCP is not supported for video content.)
Codec	JPEG-XR
Resolution	VGA(640 x 480) - Full-HD(1920 x 1080) Auto-detect
Frame Rate	30 fps -1 fps
Setting	Image position adjustment

Audio

Interface	3.5 Stereo Mini Jack
Codec	PCM 16-bit Stereo/Mono
Sampling Rate	32 KHz, 44.1 KHz, 48 KHz

USB

Standard	USB 2.0 Hi-Speed (USB 3.0 Super Speed operates in the compatibility mode.)
Memory	Max. 32 GB
File System	FAT, FAT32
Partition	1 partition only
Device Insertion/Removal	Prohibited
without shutting down the	
product	

Note: MV-500T/MV-500R do not use USB.

microSD

Supported Media	microSD, microSDHC
Memory	microSD: Max. 2 GB, microSDHC: Max. 32 GB
File System	FAT, FAT32
Partition	1 partition only
Device Insertion/Removal	Prohibited
without shutting down the	
product	

2-4. Usage Notes

Copyrights for Video/Audio Content

You need to obtain consent from a copyright owner to distribute the owner's creative material using MV-500T/MV-500R. Using a copyright work (content) without the appropriate permission will infringe the law.

2-5. Setting Management Software

SX Smart Manager Pro for MV-500

SX Smart Manager Pro for MV-500 (hereafter referred to as the setting management software) allows the user to remotely monitor the status of devices in an IP network, set up MV-500T/MV-500R, and manage the digital AV broadcast system for schools.

This user guide explains how to create a configuration file for the initial setup of MV-500T/ MV-500R using the setting management software.

🍯 SX Sma	art Manager	Pro						- 0	×
<u>F</u> ile <u>E</u> d	lit <u>V</u> iew	<u>Operation</u>	Log Option	<u>H</u> elp					
🗉 🧐 (ે 🛯 🔾	iick Filter:		÷¢					
itandard (Custom	Model	Host Nam	e IP Ad	ldress N	IAC Address	Group	Status	
🔁 All Node	es (9)	R MV-500F	R RX00113	3 192.1	168.1.4 8	4:25:3F:00:11:33	3F001133	😳 Online	
🔁 Groups		R MV-500F	R RX00113	4 192.1	168.1.5 8	4:25:3F:00:11:34	3F001134	Online	
	A7CA4 (7)	R MV-500F	R RX00113	5 192.1	168.1.6 8	4:25:3F:00:11:35	3F001135	Online	
Models		R MV-500F	R RX00113	6 192.1	168.1.7 8	4:25:3F:00:11:36	3F001136	Online	
_	-500T (3)	R MV-500F	R RX00113	7. 192.1	168.1.8 8	4:25:3F:00:11:37	3F001137	Online	
R MV-	-500R (6)	R MV-500F	R RX00113	B 192.1	168.1.9 8	4:25:3F:00:11:38	3F001138	Online	
		T MV-500	TX00112	2 192.1	168.1.1 8	4:25:3F:00:11:22	3F001122	🕗 No Vid	leo Signal
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		T MV-500	TX001124	4 192.1	168.1.3 8	4:25:3F:00:11:24	3F001124	\rm 🕓 No Vid	eo Signal
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evel	Time	м	AC Address	Alias / Host	Message				Code
i) Infor	1/7/2022 9:	50:47 AM 84	:25:3F:00:11:36	RX001136	Sending confi	guration data reque	st is in process		2061
i) Infor	1/7/2022 9:	50:47 AM 84	:25:3F:00:11:37	RX001137	Restarting req	uest is in process			2081
i) Infor	1/7/2022 9:	50:47 AM 84	:25:3F:00:11:38	RX001138	Restarting req	uest is in process			2081
_									>
	eue						1		
elected: M	IV-500T IP A	ddress: 192.16	8.1.1			Tot	al: 2 nodes 🛛 🖌	All Nodes Auto S	croll On

SX Smart Manager Pro for MV-500's Main Window

Supported OS	Windows 10	(32-bit/64-bit)
	Windows 8	(32-bit/64-bit)
	Windows 7	(SP1 or later, 32-bit/64-bit)
	Windows Vista	(SP2 or later, 32-bit/64-bit)
	Windows XP	(SP3 or later, 32-bit only)



• Place the setup PC on the same LAN environment as MV-500T/MV-500R's. The setting management software has to communicate with them to obtain the setup information if you want to create or update their configuration files.

Software Installation

The setting management software is included in CD-ROM "**SX Smart Manager Pro for MV-500 CD**" that comes with MV-500T (Transmitter).

Obtaining License Key

You must obtain User ID and License key of the setting management software. Please contact us. For the contact information, refer to **1-3. Product Information and Customer Services - Customer Support Center**.

• It will take you a few days to receive the user ID and license key after your request is sent.

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3. Installation and Setup

This section guides you through the installation and setup of MV-500T/MV-500R as a digital AV broadcast system for schools. Prepare configuration files in advance.

You only need to import the files into MV-500T/MV-500R at the use location to complete the setup.

3-1. Installation and Setup Steps

Here is the installation and setup steps to use MV-500T/MV-500R as a digital AV broadcast system for schools.

- 1. Create configuration files for MV-500T/MV-500R.
- 2. Install MV-500T/MV-500R in a school where you want to set up a digital AV broadcast system.
- 3. Change MV-500T/MV-500R's settings using the configuration files you created.

3-2. Preparation for Setup

Create a configuration file for MV-500T/MV-500R.

Required Items

Use the setting management software to create configuration files for MV-500T/MV-500R. Get one unit each of MV-500T and MV-500R, which you will use as information sources when you create configuration files with the setting management software.

MV-500T (Transmitter)	Prepare one transmitter.				
MV-500R (Receiver)	Prepare one receiver.				
Setting management software	Prepare SX Smart Manager Pro for MV-500 CD that came with MV-500T (Transmitter).				
	[Supported OS]				
	Windows 10 (32-bit / 64-bit)				
	Windows 8 (32-bit/64-bit)				
	Windows 7 (SP1 or later, 32-bit / 64-bit)				
	 Windows Vista (SP2 or later, 32-bit / 64-bit) 				
	Windows XP (SP3 or later, 32-bit only)				
Software license key	Prepare the license key of the setting management software.				
PC for configuration	Prepare a PC that has a wired LAN port to set up MV-500T/MV-500R.				
Network cable	Prepare network cables (Category 5e or greater) to connect PC and MV-500T/MV-500R				
	for the setup.				
	- Since MV-500T/MV-500R support Auto MDI/MDI-X, you can use either the straight-				
	through or the crossover network cables.				
	- You can use an Ethernet hub or directly connect MV-500T/MV-500R to the PC.				
Ethernet hub	Use an Ethernet hub to connect MV-500T/MV-500R and the PC. It is not needed when				
	you use your existing network environment.				

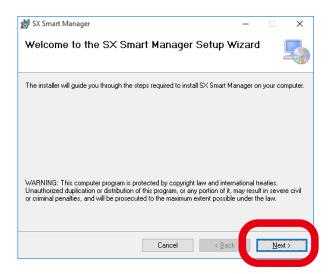
Installing Setting Management Software on Your PC

Install the setting management software on a PC for creating configuration files (hereafter referred to as the setup PC or simply the PC).

1. Insert CD-ROM SX Smart Manager Pro for MV-500 into the setup PC and execute SxSmartManager_XXX.msi.



2. The welcome window appears. Click **Next**.

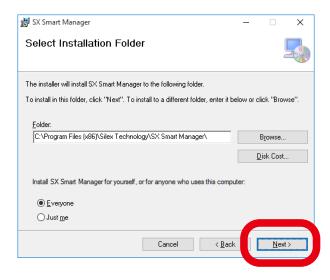


3. The software license agreement window appears.

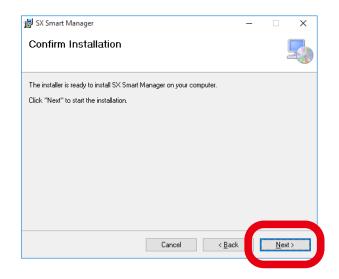
Read the license agreement, check **I Agree** if accept it, and click **Next**.

License Agreement Please take a moment to read the license agreement now. If you accept the terms below, click " Agree", then "Next". Otherwise click "Cancel". SX Smart Manager Software License Agreement PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE. This SX Smart Manager reasonse greement ("Agreement") is a	
Agree", then "Next". Otherwise click "Cancel". SX Smart Manager Software License Agreement PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE. This SX Smart Manager Common Decement ("Agreement") is a	
Software License Agreement PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THE SOFTWARE. This SX Smart Manager ("Agreement ("Agreement") is a	
SOFTWARE. This SX Smart Manager ("Agreement ("Agreement") is a	^
	~
OIDo Not Agree	
Cancer < Back Next >	

4. The installation path will be confirmed. Click **Next**.



5. The confirmation dialog appears. Click **Next**.

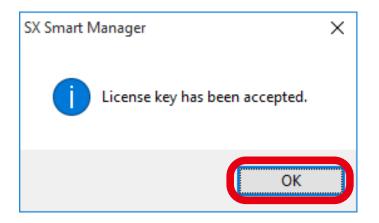


6. You will ask to enter the license.

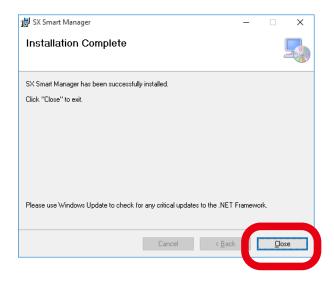
Enter your SX Smart Manager User Name and License Key, and click OK.



7. The confirmation dialog will appear after the license key is verified. Click **OK**.

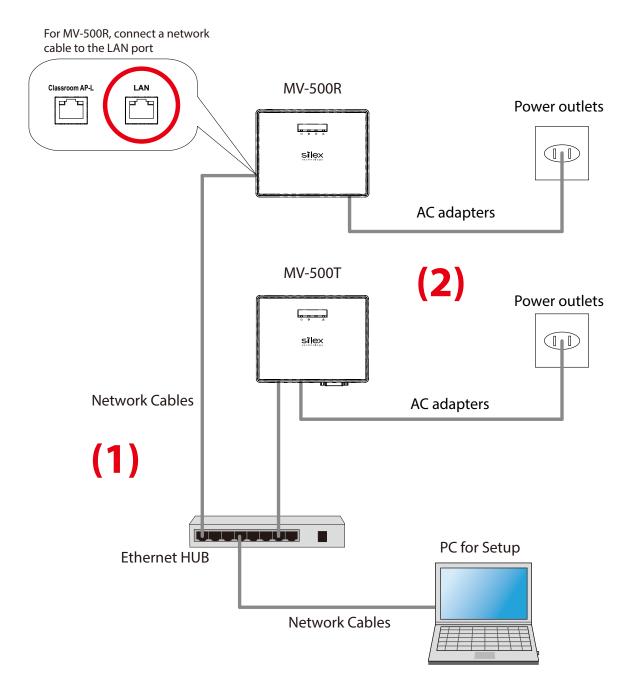


8. The installation complete window will appear. Click **Close**.



Connecting MV-500T/MV-500R and PC on the Same Network

Use an Ethernet hub to connect MV-500T and MV-500R with the setup PC on the same LAN. Connect them with network cables, and plug the AC adapters of MV-500T/MV-500R into power outlets. Since these MV-500T/MV-500R are for obtaining the setting information, they do not require a display unit or a video source to be connected.

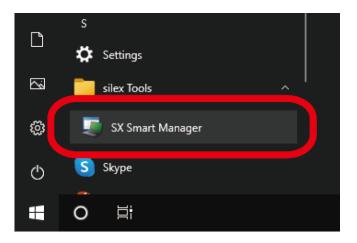


• When a static IP address is assigned to the PC, temporarily enable **Obtain an IP address automatically** on the PC.

Creating MV-500T's Configuration File

Use the setting management software to create configuration files for MV-500T.

1. Choose **SX Smart Manager** from the start menu of the setup PC.

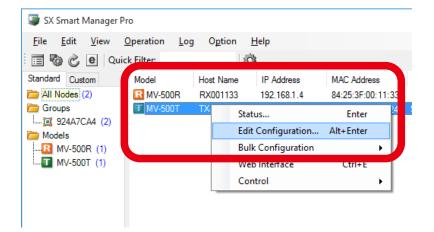


2. The setting management software starts.

The node list shows MV-500T/MV-500R connected on the same network.

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3. Create a configuration file for MV-500T that you will set up. Click MV-500T in the node list, right click and select Edit Configuration.



You can see Edit Configuration in a different way, select MV-500T in the node list, and click Operation -Edit Configuration on the menu bar. Note



K

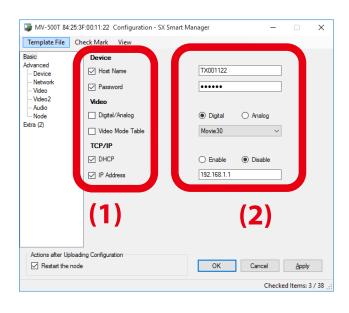
As you try to access MV-500T/MV-500R's setting webpage or maintenance page, the login page appears. Enter root as the user name and your MV-500T/MV-500R's root password. (Note that no password is set as factory default.)

4. The MV-500T's configuration window appears.

Selecting a category on the left shows the configuration items on the right.

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-	-	manager		- ^
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Actions after Uple	pading Configuration oode	ОК	Cancel	Apply ed Items: 0 / 38

5. Tick the items that you want to configure, and enter the values.



• Do not click **OK** or **Apply**. If you do so, the selected MV-500T will save these values to its memory. **TIP**

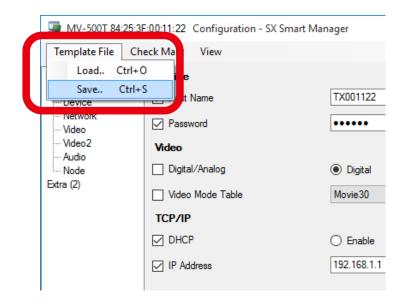
- Note
- For details about the setting values, see A-1. Setting Items.
- The factory default settings have already included the host name of MV-500T/MV-500R. It is a character string using the last 6 digits of the MAC address. You can use the default host name. If you change it, make sure that the new name is unique and not used by other network devices.
- Digital/Analog and Video Mode Table are the video settings.

Change **Digital/Analog** based on input signals from the video source.

Change **Video Mode Table** to set the balance between video smoothness and image quality. The table below shows the setting values. You should not change the default setting unless you have no choice but to change it.

Option	Performance
Custom	The Custom mode works based on the information set in the Advanced Configuration
	page.
Movie30	The Movie mode should be selected if you want to give priority to video smoothness.
Movie20	The numbers following the option name "Movie" indicate the number of images to be
Movie15	updated per second. The greater the number is, the smoother the video becomes, and
	the smaller the number is, the higher the image quality becomes.
	Movie30 is suitable for playing videos including scrolling text messages.
	\cdot Select Movie20 or Movie15 if you want to focus on motion but not want to lose the
	image quality.
Picture10	The Picture mode should be selected if you want to give priority to the image quality.
Picture5	The numbers following the option name "Picture" indicate the number of images to be
	updated per second. The greater the number is, the higher the quality becomes, and
Picture3	the smaller the number is, the smaller the communication loads become. If you want
Picture2	to reduce communication loads and get the stable audio quality, select Picture5. To
Picture1	increase the update cycles, select Picture1.

6. After updating all the values, click **Template File** - **Save** on the menu bar.



7. The file save dialog appears.

Name the file to save as a configuration file for MV-500T.

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Documents	*	Transmitter_for_3rd_grade.cfg	12/2/2021 4:27 PM	CFG File	
Pictures	*	Transmitter_for_whole_school_broadcasting.cfg	12/7/2021 10:13 AM	CFG File	
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	File <u>n</u> an	ne: Transmitter_for_whole_school_broadcasting.cfg	 Template files <u>Open</u> 	(*.cfg) Cance	~ I

- **8.** The MV-500T's configuration window appears again.
 - To create another configuration file, repeat **Step 4** through **Step 8**. Create the required number of configuration files.
 - After creating all the configuration files, click \times (close) on the top right of the window.

Template File	Check Mark View	
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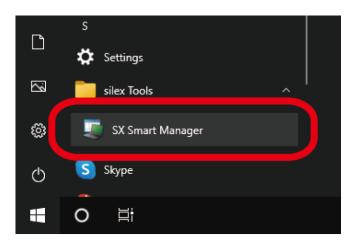
- **9.** The main window of the setting management software appears again.
 - To create configuration files for MV-500R, go to **Step 3** in **Creating MV-500R's Configuration File**.
 - To finish creating configuration files, click \times (close) on the top right to quit the setting management software. Unplug the AC adapter of MV-500T/MV-500R from the power outlet.

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Creating MV-500R's Configuration File

Use the setting management software to create configuration files for MV-500R.

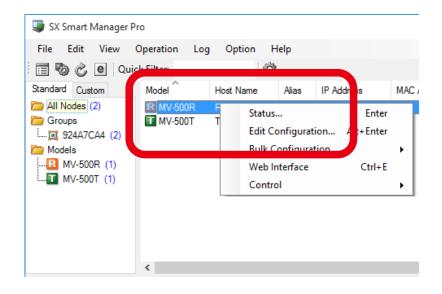
1. Click **SX Smart Manager** on the start menu of the PC.



2. The setting management software starts. The node list shows MV-500T/MV-500R connected on the same network.

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3. Create a configuration file for MV-500R that you will set up at school. Click MV-500R in the node list, right click and select **Edit Configuration**.



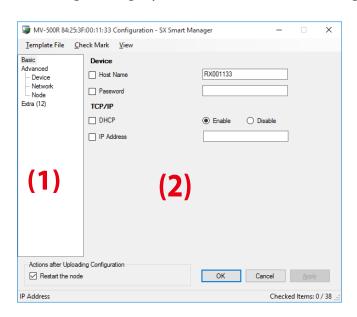
As you try to access MV-500T/MV-500R's setting or maintenance webpages, the login page appears. Enter
 root as the user name and your MV-500T/MV-500R's root password. (Note that no password is set as factory default.)

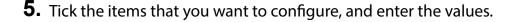


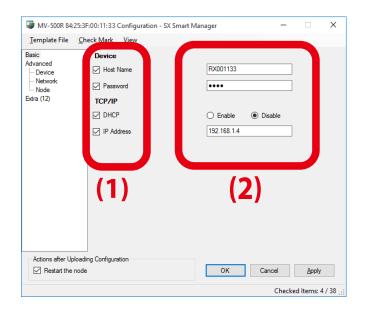
• You can see Edit Configuration in a different way, select MV-500R in the node list, and click Operation - Edit Configuration on the menu bar.

4. The MV-500R's configuration window appears.

Selecting a category on the left shows the configuration items on the right.







• Do not click **OK** or **Apply**. If you do so, the selected MV-500R will save these values to its memory.

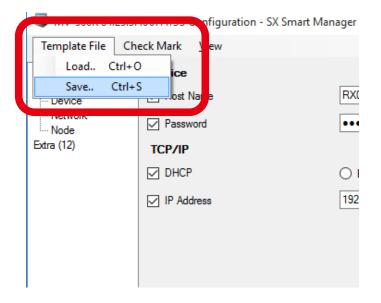
P Note

TIP

• For details about the setting values, see A-1. Setting Items.

• The factory default settings have already included the host name of MV-500T/MV-500R. It is a character string including the last 6 digits of the MAC address. You can use the default host name. If you change it, make sure that the new name is unique and not used by other networked devices.

• You can change the priority of receiving data in the node setting page. With this setting, MV-500R will receive data from the prioritized transmitter if multiple transmitters execute the multicast real-time streaming function at the same time. For more details, see **4-2. Streaming Data Priority**. 6. After updating all the values, click **Template File** - **Save** on the menu bar.



7. The file save dialog appears.

Name the file to save as a configuration file for MV-500R.

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🖶 Downloads	Receiver_for_2nd_grade.cfg	13	2/2/2021 4:27 PM	CFG File	
Documents	Receiver_for_3rd_grade.cfg	12	2/2/2021 4:27 PM	CFG File	
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- **8.** You will see the MV-500R's configuration window again.
 - To create another configuration file, repeat **Step 4** through **Step 8**. Create the required number of configuration files.
 - After creating files, click \times (Close) on the top right of the window.

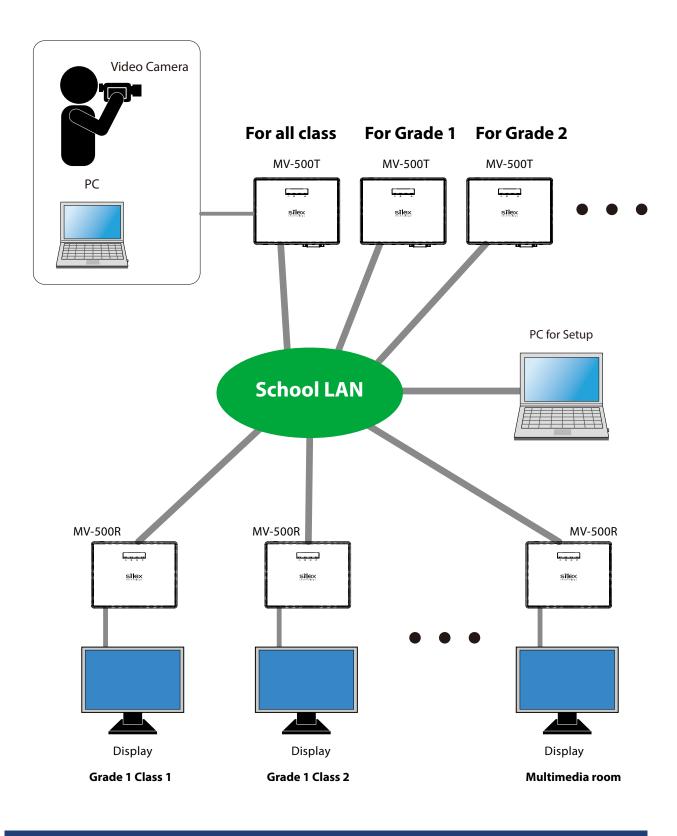
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	✓ IP Address	192.168.1.4
- Actions after L	Jploading Configuration	

- **9.** You will see the main window of the setting management software again.
 - To create configuration files for MV-500T, go to **Step 3** in Creating MV-500T's Configuration File.
 - To finish creating configuration files, click \times (Close) on the top right to quit the setting management software. Unplug the AC adapter of MV-500T/MV-500R from the power outlet.

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3-3. Installation

Install MV-500T/MV-500R as a digital AV broadcast system in classrooms and connect them to the school LAN as the following network diagram shows.



Required Items

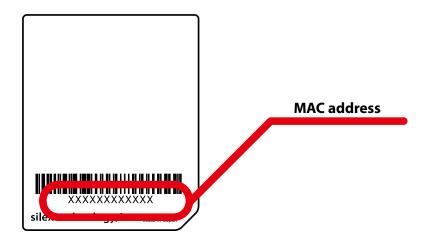
Prepare the following equipment to establish a digital AV broadcast system at school.

MV-500T (Transmitter)	Prepare as many MV-500Ts as you need in the system.
MV-500R (Receiver)	Prepare as many MV-500Rs as you need in the system.
	You can connect a display to each MV-500R.
Video source	Prepare video cameras or PC that have a DVI-I (DVI-D or Analog RGB) interface and their
	output screen resolutions are supported by MV-500T.
	[Note]
	MV-500T does not support HDCP. You cannot use HDCP-compliant media players.
Display	Prepare displays that are equipped with an HDMI interface and can work with screen
	resolutions that are supported by MV-500T/MV-500R. (You need as many displays as MV-
	500R.)
Display cable	[MV-500T (Transmitter)]
	Prepare display cables that are equipped with DVI-D connectors (male to male) and
	protected against noise. You need a display cable for each MV-500T.
	[MV-500R (Receiver)]
	Prepare as many HDMI cables as MV-500R.
Audio cable	Prepare audio cables that are equipped with stereo mini plug connectors and are
	protected against noise. You need an audio cable for each MV-500T.
PC (for set-up)	Prepare a PC that has a wired LAN port and the setting management software installed
	to set up MV-500T/MV-500R.
Network cable (for set-up)	Prepare network cables (category 5e or greater) to connect MV-500T/MV-500R and your
	PC.
	- Since MV-500T/MV-500R support Auto MDI/MDI-X, you can use either the straight-
	through or the crossover network cables.
Configuration file	The configuration files are the ones you created in 3-2. Preparation for Setup
	containing the setting information of MV-500T/MV-500R.
microSD card	Prepare microSD cards if necessary. Each MV-500R requires a microSD card to work with
	the program preset function.

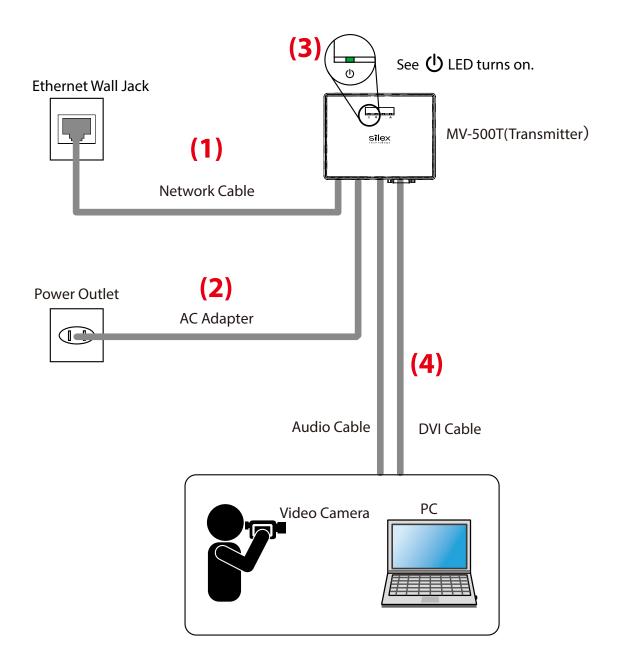
MV-500T Installation

Install MV-500Ts in the faculty's office or broadcasting rooms, and connect them to the school LAN.

1. You need to know the MAC address of the MV-500T, written on the bottom label, for the setup procedure in **3-4. Configuration File for Setup**. Make a note of the MAC address and the installed location.



 Connect MV-500T to an Ethernet wall jack for the school LAN using a network cable. Connect the AC adapter to the MV-500T and a power outlet. After you see the top () LED turns on, connect MV-500T to a video source (a video camera or PC) using a DVI cable and an audio cable.



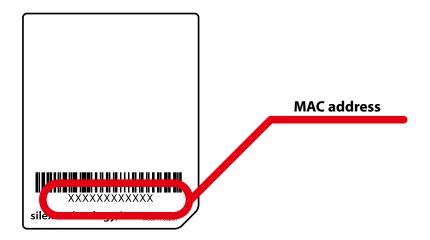


・ It may take 30 seconds before the top 也 LED turns on.

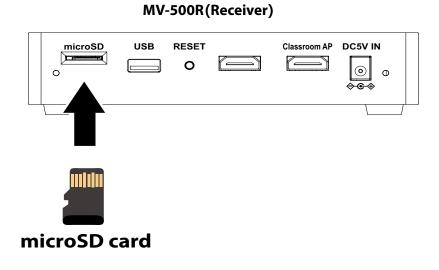
MV-500R Installation

Install MV-500R in classrooms and audiovisual rooms for school AV broadcasting, and connect them to the school LAN.

 You need to know the MAC address of the MV-500R, written on the bottom label, for the setup procedure in 3-4. Configuration File for Setup. Make a note of the MAC address and the installed location.



2. The program preset function, which allows MV-500R to play content by itself, requires a microSD card as a content storage. Make sure that your microSD card is facing the right direction as shown below, and insert it into the card slot.

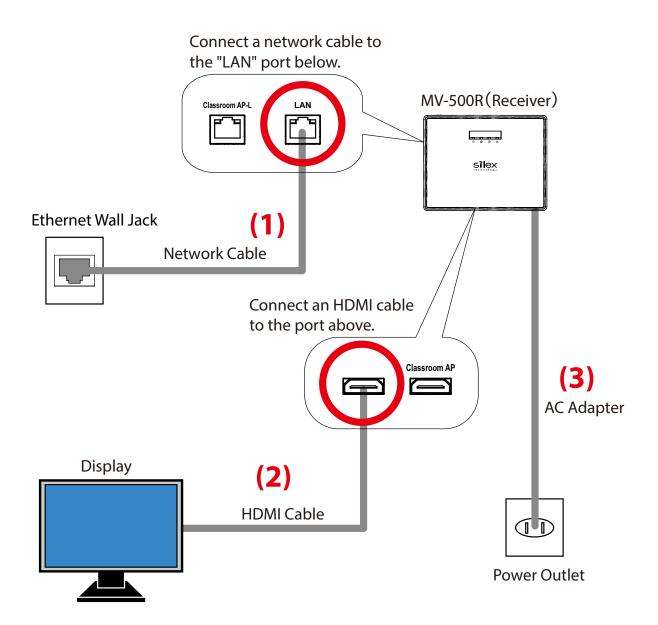




• MV-500R does not come with a microSD card. Please purchase it separately.

Note

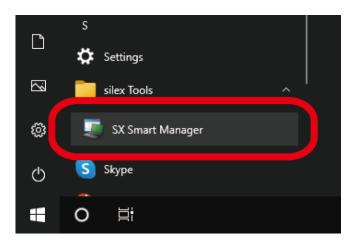
3. Connect MV-500R to an Ethernet wall jack for the school LAN using a network cable. One end of the network cable must be inserted into the right LAN port of MV-500R. Connect a display to the MV-500R with an HDMI cable. One end of the cable must be inserted into the left HDMI port of MV-500R. Connect the AC adapter to the MV-500R and a power outlet.



3-4. Configuration File for Setup

Set up MV-500T/MV-500R using configuration files that you have created beforehand.

1. Click **SX Smart Manager** on the start menu of the PC. Make sure that the PC is connecting to the network of MV-500T/MV-500R.



2. The setting management software starts. The node list shows MV-500R and MV-500T on the same network.

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	A7CA4 (7)	R MV-5	00R RX00113	35 192.	168.1.6	84:25:3F:00:11:35	3F001135	🔾 Onlin	e	
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		T MV-5	00T TX00112	22 192.	.168.1.1	84:25:3F:00:11:22	3F001122	🕛 No Vi	deo gn	ıal
		T MV-5	00T TX00112	23 192.	168.1.2	84:25:3F:00:11:23	3F001123	🕘 No Vi	deo gn	ıal
		T MV-5	00T TX00112	24 192.	168.1.3	84:25:3F:00:11:24	3F001124	🕛 No Vi	dec gn	al
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evel	Time		MAC Address	Alias / Host	Message				Code	
) Infor	1/7/2022 9	:50:47 AM	84:25:3F:00:11:36	RX001136	Sending cor	nfiguration data reque	est is in process		2061	
i) Infor	1/7/2022 9		84:25:3F:00:11:37	RX001137	Restarting re	equest is in process			2081	
i) Infor	1/7/2022 9	:50:47 AM	84:25:3F:00:11:38	RX001138	Restarting re	equest is in process			2081	
										>
	eue									_

3. Look for MV-500T/MV-500R that you want to set up. To do so, check the MAC address in your notebook. Find the same MAC address from the list, right click and select **Bulk Configuration** - **Load Setting from a File** from the menu.

			(1)		
i SX Smart Manager Pro						- 0
<u>File Edit View Operation Log</u>	Option <u>H</u> elp					
📰 🧐 🌝 😐 Quick Filter:	0					
tanderd Custom Model All Nodes (9) IMV-500R Groups MV-500R MV-500R Models IMV-500R MV-500R Image: Models Image: MV-500R MV-500R Image: MV-500T (3) Image: MV-500R MV-500R Image: MV-500R (6) Image: MV-500R Image: MV-500R	Host Name RX001133 RX001134 RX001135 RX001136 RX001137	IP Address 192.168.1.4 192.168.1.5 192.168.1.6 192.168.1.7 192.168.1.8	84:25:3 84:25:3 84:25:3	ddress F:00:11:33 F:00:11:34 F:00:11:35 F:00:11:36 F:00:11:37	Group 3F001133 3F001134 3F001135 3F001136 3F001137	Status Online Online Online Online Online
₽ MV-500T ₽ MV-500T ₽ MV-500T 8	Status Edit Configu Bulk Configu Web Interfac Control		ter ter	Load	3F001122 3F001123 3E001123 to a File Setting from a ential IP Addre	



• You can see **Apply Setting from Template File** in a different way, select MV-500T/MV-500R and click **Operation -Bulk Configuration - Load Setting from a File** on the menu bar.

4. The **Apply Setting from Template File** window appears. Click **Browse**.

Apply Settings from Template Fi	le			×
Elename:	Browse	Nias / H	le MAC Address 84:25:3F:00:11:22	
Refresh pre <u>v</u> iew	Check/Clear <u>A</u> ll	0	K Cancel	

5. The file dialog window appears.

Select a configuration file that you created in **3-2. Preparation for Setup** and click **Open**.

×
>
]] .::

6. You will see the setting information saved in the selected file. Tick the setting items and **Restart after upload**, and click **OK**.

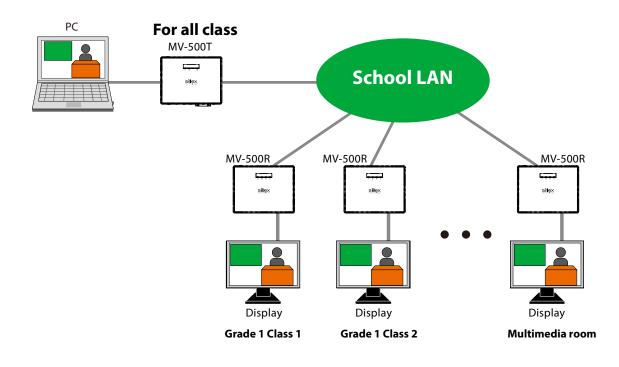
🕥 Apply S	Settings from Templat	e File					\times
<u>F</u> ilename:							
C:\Users	silex\Desktop\MV-500	Setting_Files\Tran	smitter_for v	Target No	des Schedu	le	
Preview te	emplate file:		<u>B</u> rowse	Model MV-500T	Alias / H TX001122	MAC Address 84:25:3F:00:11:22	
HECK	item	value					
	Password	1234567					
	Host Name	TX00001					
	IP Address	192.168.1.1					
	DHCP	Disable					
	(1)					(2)	
	rt after upload	Check/Clear	ЯI			K Cancel	

7. MV-500T/MV-500R will be updated with the selected configuration file and will restart automatically. The new settings will take effect after the restart.

i SX Smart N	1anager	Pro							-		×
<u>F</u> ile <u>E</u> dit	<u>V</u> iew	<u>Operation</u>	<u>L</u> og O <u>p</u> ti	on <u>H</u> elp	0						
i S 🕫 🗉	e Q	uick Filter:		Q.							
Standard Custo	om	Model	Host N	ame	IP Address	MAC Add	ress	Group	St	atus	
🚞 All Nodes (9)	R MV-50	DR RX001	133	192.168.1.4	4 84:25:3F:	00:11:33	3F001133	0	Online	
🚞 Groups		R MV-50	DR RX001	134	192.168.1.5	5 84:25:3F:	00:11:34	3F001134	0	Online	
🚺 924A7C	A4 (7)	R MV-50	DR RX001	135	192.168.1.6	6 84:25:3F:	01:11:35	3F001135	0	Online	
Models		R MV-50	OR RX001	136	192.168.1.3	7 84:25:3F:	00:11:36	3F001136	0	Online	
		R MV-50	DR RX001	137	192.168.1.8	84:25:3F:	00:11:37	3F001137	0	Online	
R MV-500	R (6)	R MV-50	DR RX001	138	192.168.1.9	84:25:3F:	00:11:38	3F001138	0	Online	
		T MV-50	OT TX001	122	192.168.1.1	1 84:25:3F:	00:11:22	3F001122	•	No Video	Signa
		T MV-50	OT TX001	123	192.168.1.2	2 84:25:3F:	00:11:23	3F001123	0	No Video	Signal
		T MV-50	OT TX001	124	192.168.1.3	84:25:3F:	00:11:24	3F001124		No Video	Signal
		<									
Level	Time		MAC Addre	ss Al	lias / Host	Message					Code
Complete 1/7/2022 1:51:05 PM		M 84:25:3F:0):11:22 T	X001122	Password authen	tication is (complete.			213	
(i) Information 1/7/2022 1:52:00 PM		M 84:25:3F:0):11:22 T)	X001122	Sending configure	ation data i	request is in proc	ess		206	
Complete 1/7/2022 1:52:01 PM		M 84:25:3F:0):11:22 T)	X001122	Sending configur	ation data i	is complete.			206	
<											>
Log Queue	ļ										
elected: MV-50	OT IP A	ddress: 192.	168.1.1				Tot	al: 2 nodes All	Nodes [Auto Scr	oll On

The device configuration has been completed. Repeat **Step 3** through **Step 7** for all the MV-500T and MV-500R installed in your digital AV broadcast system for school.

8. MV-500T/MV-500R have been installed and set up for your environment. As you play content using a video camera or PC connected to MV-500T, MV-500R shows the data on the display.



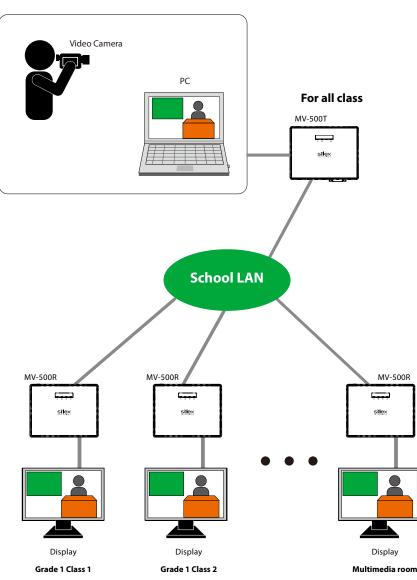
4. Multicast Real-time Streaming

This chapter guides you through the multicast real-time streaming function. With the function, MV-500T encodes signals (videos/audio) from the video source, such as movies shot by a video camera or created by a PC, and distributes the codec data to MV-500R in real time. MV-500R decodes and plays the content on the connected display in the classroom.

4-1. Video/Audio Distribution

With the multicast real-time streaming function, you only need to control a video camera or PC connected to MV-500T. After you complete the setup steps in the previous chapter, MV-500R plays content on the connected display.

If you stop playing content (stop sending video signals to MV-500T), MV-500R will show the preset standby screen and be in the standby mode until you start playing content again.



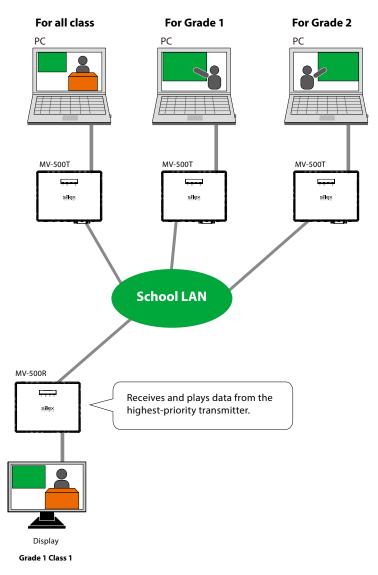
[Multicast Real-Time Streaming Image]



• MV-500R plays first-come streaming data when multiple MV-500T's execute the multicast real-time streaming function at the same time.

4-2. Streaming Data Priority

You can set transmitters' priorities for MV-500R. The setting has MV-500R receive data from a higher-priority transmitter when multiple transmitters perform multicast streaming at the same time.



[Prioritized Streaming Image]

TIP

• The priorities will be set by IP address of MV-500T. Do not change the IP addresses while the system is operating. Use static IP addresses for MV-500T. Even though you use DHCP to assign IP addresses, retain the same IP addresses.



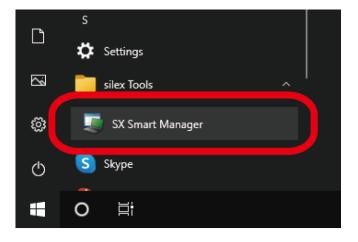
- When a higher priority transmitter sends data to MV-500R that is currently playing another transmitter's content, the MV-500R will play the higher-priority data.
- When the current data is stopped, MV-500R will automatically play the next higher-priority data.

Knowing MV-500T's IP Address

Use the IP address of MV-500T to identify priority transmitters. You need to know transmitters' IP addresses beforehand.

To do so, use the setting management software on the setup PC.

1. Click **SX Smart Manager** on the start menu.



2. The setting management software starts.

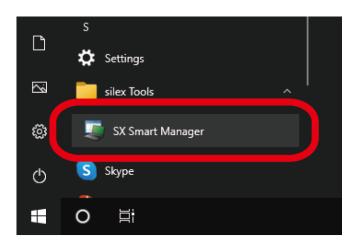
Make a note of IP addresses of the transmitters in the node list.

i SX Sm	art Manager	Pro								_		×
<u>File</u>	dit <u>V</u> iew	<u>O</u> peratio	n <u>L</u> og	O <u>p</u> tion	<u>H</u> elp							
I	🕑 e 🔍	ick Filter:			0							
itandard	Custom	Model		Host Name		IP Addre	SS	MAC Address	Group	Status		
All Noo	des (9)	R MV-5	00R	RX001133	• '	192.168	1.4	84:25:3F:00:11:33	3 3F001133	🔾 On	line	
🔁 Groups		R MV-5	00R	RX001134	L I	192.168	1.5	84:25:3F:00:11:34	4 3F001134	🔾 On	line	
	4A7CA4 (7)	R MV-5	00R	RX001135	;	192.168	1.6	84:25:3F:00:11:38	3F001135	🔾 On	line	
Models		R MV-5	00R	RX001136	;	192.168	1.7	84:25:3F:00:11:30	3F001136	🔾 On	line	
_	/-500T (3)	R MV-5	00R	RX001137	,	192.168	1.8	84:25:3F:00:11:37	7 3F001137	🔾 On	line	
	/-500R (6)	R MV-5	00R	RX001138		192.168	1.9	84:25:3F:00:11:38	3F001138	🔾 On	line	
		T MV-5	500T	TX001122		192.168	1.1	84:25:3F:00:11:2	2 3F001122	\rm No	Video Sig	jnal I
		T MV-5	00T	TX001123	1	192.168	1.2	84:25:3F:00:11:23	3F001123	🕒 No	Video Sig	ynal I
		T MV-5	00T	TX001124	ļ	192.168	1.3	84:25:3F:00:11:24	3F001124	No	Video Sig	jnal I
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evel	Time		MAC Ad	dress	Alias / Ho	st M	essage				Code	/
i) Infor	1/7/2022 9:	50:47 AM	84:25:3F	:00:11:36	RX00113	6 S	Sending configuration data request is in process				2061	
		84:25:3F	:00:11:37	RX00113		Restarting request is in process				2081	- 1	
i) Infor	1/7/2022 9:	50:47 AM	84:25:3F	:00:11:38	RX00113	8 R	estarting n	equest is in process			2081	

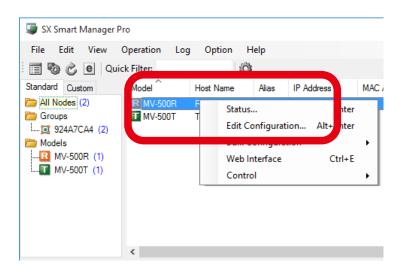
Transmitter Priority Setting in MV-500R

Change MV-500R's setting for transmitters' priorities.

1. Click **SX Smart Manager** on the start menu of the PC.



2. The setting management software starts. Right click MV-500R in the node list and click **Edit Configuration**.



3. The setting window of the MV-500R appears.

Click **Template File - Load** to choose a configuration file for MV-500R that you will update the setting.

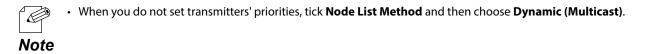
						_	
-	F:00:11:33 Configurat	- SX Smart Man	ager	-	-		×
	eck Mark View						
Load Ctrl+(ice						
Save Ctrl+	S ost Name		RX001133				
Network					_		
Extra (12)							
LAIId (12)	TCP/IP						
	DHCP		Enable	O Disable			
	IP Address						
Actions after Uploadi	ng Configuration						
Restart the node			ОК	Cancel		Apply	
				Che	ecked l	tems: 0 /	38:

4. The setting window shows the imported information. Click **Node** on the left category menu.

I MV-500R 84:25:3F:00:11:33 Configuration - SX Smart M	lanager — 🗆 X
Template File Check Mark View	
Basic Device	
Advanced Host Name	RX001133
Network Password	
Edra (12) TCP/IP	
П рнср	Enable
IP Address	
Actions after Uploading Configuration	
Restart the node	OK Cancel Apply
IP Address	Checked Items: 0 / 38 .:

5. The node setting window appears. Tick **Node List Method** and choose **Static**.

Basic	Node Option			
Advanced Device	Node List Method	Static	. ~	
Network	Static Nodes			
Extra (12)	Static Node No.	IP Address	Method	
	Static Node 0	192.168.1.1	Mcast ~	•
	Static Node 1	192.168.1.10	Mcast ~	•
	Static Node 2	192.168.1.20	OFF ~	•
	Static Node 3	192.168.1.30	OFF ~	•
	Static Node 4	0.0.0.0	Mcast ~	•
	Static Node 5	0.0.0.0	Mcast ~	•
	Static Node 6	0.0.0.0	Mcast ~	•
	Static Node 7	0.0.0.0	Mcast ~	•
- Actions after Uple	pading Configuration			



6. Enter a transmitter's IP address to each static node field. You can save max 8 IP addresses. Static node 0 is the highest priority, and Static node 7 is the lowest. To receive data from these transmitters, choose Mcast under Method. Select OFF to avoid receiving data from the transmitter.

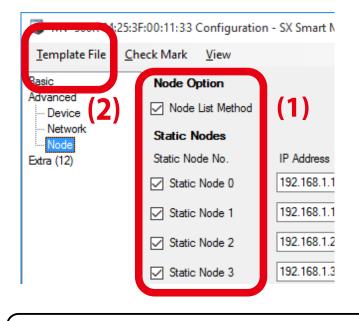
Template File	Check Mark View			
Advanced	Node Option			
Device Network	Static Nodes			
Extra (12)	Static Node No.	IP Address	Method	
	Static Node 0	192.168.1.1	Mcast ~	
	Static Node 1	192.168.1.10	Mcast ~	
	Static Node 2	192.168.1.20	OFF 🗸 🗸	
	Static Node 3	192.168.1.30	OFF 🗸 🗸	
	Static Node 4	0.0.0.0	Mcast ~	
	Static Node 5	0.0.0.0	Mcast ~	
	Static Node 6	0.0.0.0	Mcast ~	
	Static Node 7	0.0.0.0	Mcast ~	
- Actions after Uploa	ading Configuration			
Restart the no		0	K Cancel	Apply



Setting Example:

Number	IP Address	Method
Static Node 0	192.168.1.1	Mcast
Static Node 1	192.168.1.10	Mcast
Static Node 2	192.168.1.20	OFF
Static Node 3	192.168.1.30	OFF

- The MV-500R receives data from the transmitter set to Static node 0 before others.
- If the MV-500R receives data from Static node 0 while playing Static node 1's data, it will start playing Static node 0's data.
- The MV-500R does not receive data from Static node 2 and 3.
- 7. Make sure that you ticked **Node List Method** and each static node which you want to update. Click **Template File Save** on the menu bar.



If you click OK or Apply, all the values will rewrite the MV-500R that you are now selecting. Click
 Template File - Save to save the new values as a configuration file.

8. Transmitters' priorities were saved as a configuration file.

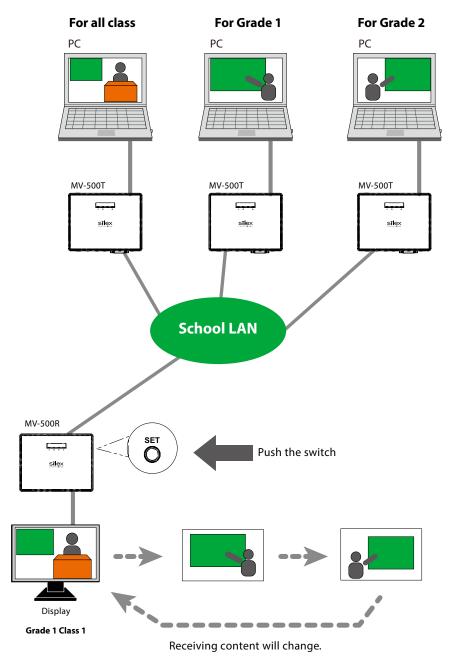
See 3-4. Configuration File for Setup to update MV-500R with the new settings.

Ľ Ľ

TIP

4-3. Data Source Change

You can switch receiving content with MV-500R's push switch when multiple transmitters perform multicast streaming at once.



[Content Change Image with Push Switch]

TIP

• When you have enabled the transmitter priority function in **4-2. Streaming Data Priority**, you cannot use this switch function.

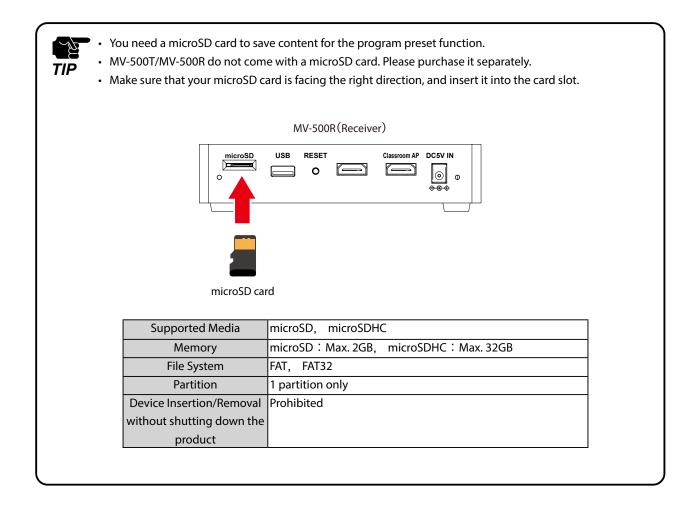
(Blank Page)

5. Program Preset Function

This chapter guides you through the program preset function that allows MV-500R to play delivered content by itself at a specific time. You will need our original software **silex Media Transporter E model** (hereafter referred to as the content delivery software) to create content, set time frames, and distribute the data to MV-500R.



 You can download the content delivery software from Silex's website. See also silex Media Transporter E model User's Manual.



5-1. Program Making and Playing Flow

Here is a flow to play content with MV-500R according to schedule.

1. Create a new program. (Create Project window)



2. Create content. (Select Contents window)



3. Schedule the program (set by minute). (Schedule Setting window)



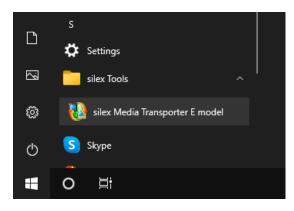
4. Transfer the program and schedule to MV-500R. (Transfer window)



5. Play the program (video/audio) with MV-500R alone.

5-2. Creating Program

1. Click the Start button and select **silex Tools** - **silex Media Transporter E model**.





• Windows 7:

Click Start - (All) Programs - silex Tools - silex Media Transporter E model.

Note . Windows 8:

Right click on the start screen, click **All apps** on the bottom app bar, and select **silex Tools -silex Media Transporter E model**.

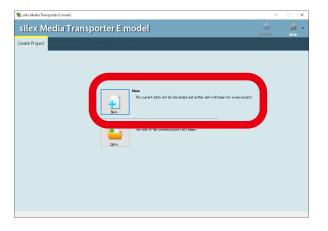
• For Windows 8.1: Click the arrow bottom at the bottom left of the start screen and select **silex Tools** - **silex Media Transporter**

E model.

• If the Windows Security Alert appears, click Allow access.

P Windows Security Alert							
Windows Defender Firewall has blocked some features of this app							
	Windows Defender Firewall has blocked some features of Silex UDP Receiver Service on all public and private networks.						
	<u>N</u> ame:	Silex UDP Receiver Service					
~	Publisher:	silex technology, Inc.					
	Pat <u>h</u> :	C:\program files (x86)\common files\silex technology shared\sxudpsvc.exe					
Allow Silex UDP Re	ceiver Service b	o communicate on these networks:					
Private netw	orks, such as m	y home or work network					
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)							
What are the risks of allowing an app through a firewall?							
		Sellow access Cancel					

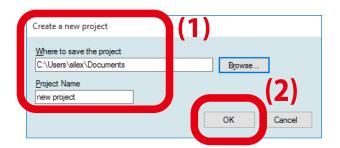
2. The Create Project window appears. Click New.





• To open a previously created program, click **Open** in the window.

3. In the **Create a new project** window, specify the path where you want to save the program, and name the program. Click **OK**.



• For the save location, specify a drive where enough space is left to save programs.

- Avoid using the following characters in program names: $\{$, /, :, *, ?, ", <, >, |

Ľ,

TIP

4. The **Select Contents** window appears.

🖹 new project.mitep - silex Media Transporter E model	– 🗆 🗙
silex Media Transporter E model	🔅 📝 - Settine Help
Create Project Select Contents Transfer	
ontent Liat Show Ligrary	
Preview., Benieze Delete	Sizze
rjacaw. renega bijara	oave

5-3. Creating Contents

This section describes how to convert videos and images into playable files for MV-500R in the **Select Contents** window.

Data Format

The following table shows the supported data formats.

File Category	Data Format		
	Microsoft AVI (.avi)		
Video	Windows Media Video (.wmv)		
Video	MPEG-4 (.m4v, .mp4, .mov) (*1)		
	PowerPoint (.ppt, .pptx) (*2)		
	Microsoft Bitmap (.bmp)		
Still image	Portable Network Graphic (.png)		
Still image	Joint Photographic Experts Group (.jpg, .jpe, .jpeg)		
	HTML (.html, .htm) (*3)		
	Microsoft Windows WAVE (.wav)		
	Windows Media Audio (.wma)		
Audio	MP3 (.mp3)		
	Audio Data Transport Stream (.aac)		
	MPEG-4 (.m4a)		

*1 : .mov files must be converted into the above MPEG-4 formats.

- *2 : Microsoft PowerPoint 2010 or later versions are supported.
- *3 : To set a web page, specify the file or the URL.



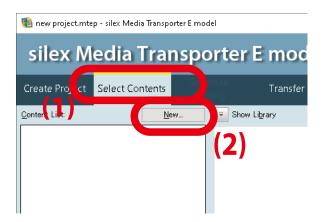
- Files under DRM (Digital Right Management function) files and other copyrighted files are not supported.
- Videos and audio must be non-DRM files that can be played back by the media player.
- **Note** The supported video frame rates are between 1 fps and 30 fps.
 - The following audio formats are supported.

Format				
Sampling rates	32kHz, 44.1kHz, 48kHz			
Sampling bits	16 bits			
Channels	1 channel (mono)			
Channels	2 channels (stereo)			

The content delivery software will show an error message if you try to convert an unsupported file.

Creating Contents

1. Open the **Select Contents** tab and click **New**.



2. Select **Resolution**, **Direction**, and **Keep aspect ratio** or **Full screen** in the window. Click **OK**.

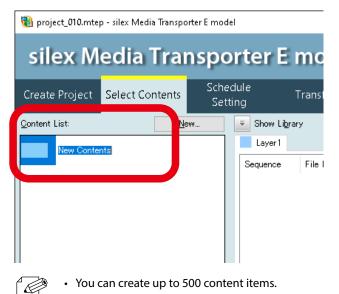
Create a new content	
	(1)
Resolution: Full-HD(1920x1080) Keep aspect ratio	Direction: Horizontal
	(2) OK Dancel



- To display content that is oriented in portrait, choose **Vertical** as the orientation.
- For a display that rotates clockwise, choose Vertical turn right.

For a display that rotates counterclockwise, choose Vertical - turn left.

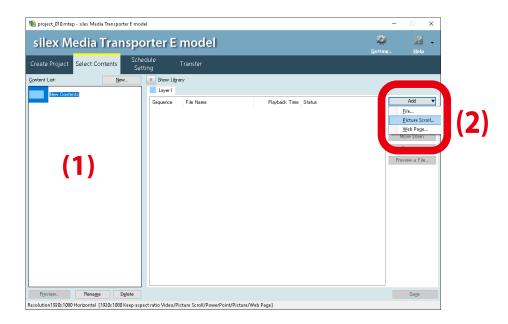
3. The **Content List** shows the newly created content. Name it and hit **ENTER**.



Note

Adding and Converting Content Data

 Click the name of content that you want to edit in the Content List. Click File under Add ▼ to add video or still image files. Picture Scroll is for still-image scrolling effects, and Web Page is for adding web pages.



If you click **Picture Scroll**, the following window will appear. Select the **Scroll speed** and the **Background color**, and click **OK**.

Note

Picture scroll setting		
Specify the scroll speed and backgr	ound color.	
Scroll speed :		
Normal V		
Background color :		
#000000		(2)
		Gancel
	ОК	Cancel

• If you click **Web Page**, the following window will appear. Click **Browse HTML file**.

Add Web	Page	×
	veb page URL start with "http://" or "https://". also use HTML file on your computer or shared folder.	
<u>U</u> RL:		
	Browse HTML file	J
	OK Cancel	

2. Select a file in the dialogue, and click **Open**.

Organize 🔻 New fold	der			III 🔻 🔟
	Name	Date	Туре	Size Length
📌 Quick access	🖬 movie_01.m4v	2017/08/24 19:39	M4V File	154,781 KB 00:09:5
📥 OneDrive - Personal	🖬 movie_02.m4v	2017/08/24 19:39	M4V File	154,781 KB 00:09:5
💶 This PC	🖬 movie_03.m4v	2017/08/24 19:39	M4V File	154,781 KB 00:09:5
	🖻 movie_04 .m4v	2017/08/24 19:39	M4V File	154,781 KB 00:09:5
🥏 Network	🖻 movie_05.m4v	2017/08/24 19:39	M4V File	154,781 KB 00:09:5
	<			

3. The selected file will be listed in the play list of the content. Click Save

project_010.mtep - silex Media Transporter E moc ilex Media Transpo			–
	edule Transfer tting		
tent List <u>N</u> ew	Show Library		
01.contents_010	Layer I	Playback Time Status	Add ▼ Delete Move Lib Move Dogn Property Preview a Eile



• Repeat Step 1 and Step 2 to add multiple files.

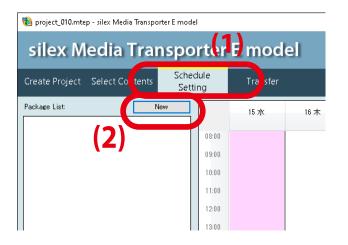
Note

5-4. Creating Package

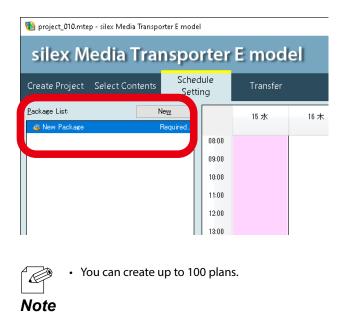
This section describes how to register the content to a package using the schedule setting screen.

Creating a new package

1. Open the Schedule Setting tab and click New.



2. A new schedule will be added to the **Package List**. Name it and hit **ENTER**.

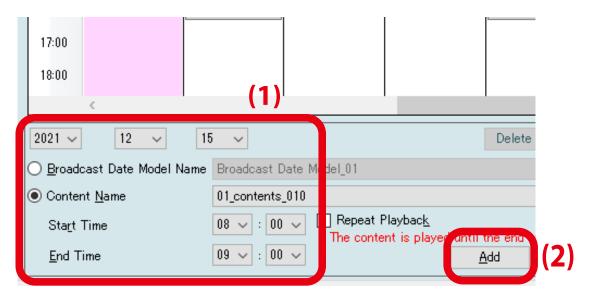


Registering a content to calendar

1. Choose a play schedule from the **Package List**.

🐞 project_010.mtep - sile	ex Media Transpo	rter E mode	2l	
silex Med	lia Trai	nspo	rter	
Contractor Director Contractor	ect Contents	Scheo Sett		
<u>P</u> ackage List:	N	le <u>w</u>		[
🎳 New Package	F	Required		
🚳 Package_01	1	Required	08:00	
💩 Package_02	I	Required	00.00	_
🍓 Package_03	I	Required	09:00	I.
			10:00	

2. Select the name of content under **Content Name** in the schedule setting panel to add to the schedule. Specify the play date (year-month-date format) and start/end time. Click **Add**.

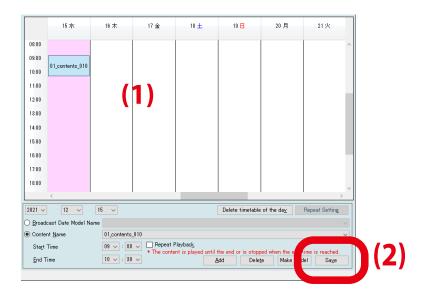


• To repeat short content that ends before the end time, tick **Repeat Playback**, which plays the content again and again until the end time comes.

Note

Ø

3. The added content will appear on the calendar. Click **Save**.



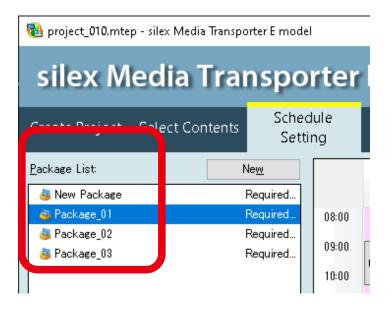
• Repeat **Step 2** and **Step 3** to add multiple content files.



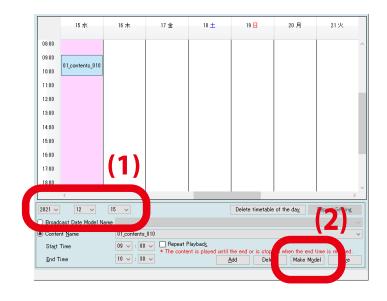
Creating Schedule Model

You can save settings of a day as a schedule model. Making the same settings available for other days will ease scheduling when you want to play the same content every day or every week at the same time.

1. Choose a program to edit under the **Package List**.



2. Select a date which you want to copy as a schedule model in the setting panel, and click Make Model.



3. The **New Broadcast Date Model** will show the new schedule model. Name it and hit **ENTER**.

silex Media Tra	nsporter	r E mod	el				🔅 Setting_	2 Help	-
Create Project Select Contents	Schedule Setting	Transfer							
ä New Package * ∉ Package_01 i Package_02	Neg. Required. Required. 13.00 14.00 15.00 15.00 15.00 15.00 16.00 17.00 19.00 20.00 21.00 22.00 23.00	15 % 01_contents_030 01_contentd_040	16 木	17 金	18 ±	19 🖯	20月	21 火	
Shange Name	Cont	dcast Date Model Na ent <u>N</u> ame : Time	15 v me New Broad 01_content: 08 v : 0 09 v : 0	a_010 0 ✓ Repeat F * The conte	nt is played until	Delete timetabl	ped when the end t tie Make Mod	ime is reached.	~

• Up to 366 broadcast date models can be created.



Using Schedule Model

Copy the settings of a schedule model into a specific day. With the repeat setting, you can copy the model to every day or specified days of week.

1. Specify a play date in the schedule setting panel, and select a schedule model to copy under **Broadcast Date Model Name**. Click **Add**.

iel								-
orter	r E mod	el					🔅 Setting	_
edule ting	Transfer							
	15 7K	16 木	17 金	18 ±		19 🗄	20 月	
08:00								
09:00								
10:00								
11:00								
12:00								
13:00								
14:00								
15:00								
16:00								
17:00		(1)						
18:00		(1)						
2021 ~	12 ~	15 🗸			Dele	te timetable	of the day	Rej
	dcast Date Model N					17		
	ent <u>N</u> ame	01_contents		laybac				
Start	Time	08 🗸 : 00			until the eno <u>A</u> dd	d o stopp Delet	ed when the en te Make N	
							File conv	resion

2. The schedule model will be copied to the specified date.

	15 7K	16 木	17 金	18 ±	19 🗄	20月	21火
08:00							^
09:00							
10:00		01_contents_010			01_contents_010		01_contents_010
11:00							
12:00		01_contents_020			01_contents_020		01_contents_020
13:00							
14:00		01_contents_030			01_contents_030		01_contents_030
15:00					01_contentd_040		
16:00		01_contentd_040			01_contentd_040		01_contentd_040
17:00							
18:00							~
	<	· ·					>
2021 ~	12 ~	15 🗸			Delete timetable	of the day	Repeat Setting
O <u>B</u> road	cast Date Model N	Name Broadcast D	ate Model_01				
 Conter 	nt <u>N</u> ame	01_contents_	010				~
Start	Time	08 🗸 : 00	Repeat F		the end or is stoppe	ed when the end	time is reached
<u>E</u> nd T	ime	09 🗸 : 00			Add Delete		
						File conve	rsion is completed.

- To set a weekly schedule, click **Repeat Setting**. In the daily/weekly schedule setting window, copy the schedule model into particular days of week.
- **Note** The repeat setting takes effect from the current date to the end of the fiscal year (March 31st).

	15 水	16 木	17 金	18 ±	19 🗄	20 月	21火
08:00							^
09:00							
10:00		01_contents_010			01_contents_010		01_contents_010
11:00							
12:00		01_contents_020			01_contents_020		01_contents_020
13:00		01 contents 030			01_contents_030		01 contents 030
14:00		01_contents_030			01_contents_0a0		01_contents_030
15:00		01_contentd_040			01_contentd_040		01_contentd_040
16:00		01_contentd_040			01_001/01/040		o 1_comento_ovo
17:00							
18:00							~
	<						
2021 ~	12 🗸	15 🗸			Delete timetable	of the day	Repeat Setting
O Broado	ast Date Model I	Name Broadcast D	ate Model_01				
 Conter 	it <u>N</u> ame	01_contents_	010				~
Start -	Fime .	08 🗸 : 00	Repeat F * The conte		the end or is stoppe	ed when the end	time is reached.
<u>E</u> nd Ti	me	09 🗸 : 00			dd Delete		
						File conve	rsion is completed.

1. Click **Repeat Setting** in the schedule setting panel.

2. The Daily /Weekly Schedule Settings window appears.

Choose a schedule model for everyday or particular days of week.

Daily/\	Weekly Schedule Se	ettings	Х
	Sunday	(None)	~
	Monday	(None)	~
	Tuesday	(None)	~
	Wednesday	(None)	~
	Thursday	(None)	~
	Friday	(None)	~
	Saturday	(None)	~
	Everyday	(None)	\sim
		OK	Cancel

5-5. Transferring Program to MV-500R

Send created programs to MV-500R.



TIP

The created programs will be converted into a data format supported by the content player.

Adding Devices to Device List

All MV-500R's have to be registered to the device list in order to receive programs. When the setup PC and MV-500R are on the same LAN, you can use the auto-search function to add the receivers.

Before sending programs to MV-500R, make sure the following:

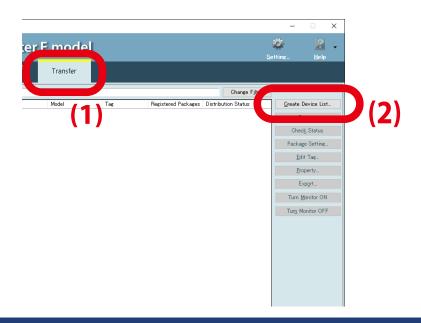
1. The setup PC is connecting to MV-500R's LAN.

2. MV-500R's have been powered on.

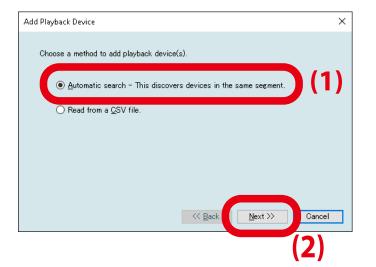
3. The content delivery software on the PC is configured to communicate with the networked MV-500R's.

4. A microSD card has been inserted into each MV-500R and has enough empty space to save programs.

1. See the **Transfer** tab and click **Create Device List**.

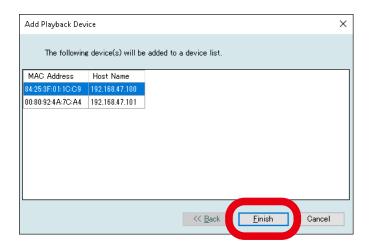


2. The Add Playback Device appears. Select Automatic search and click Next.



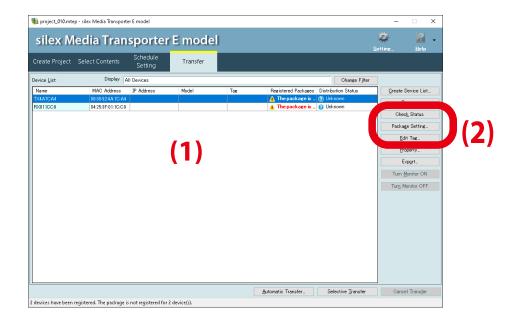
To add MV-500R with the other option: Read from a CSV file, refer to silex Media Transporter E model User's Manual. Note

3. When all the MV-500R in the network are found, click **Finish**.

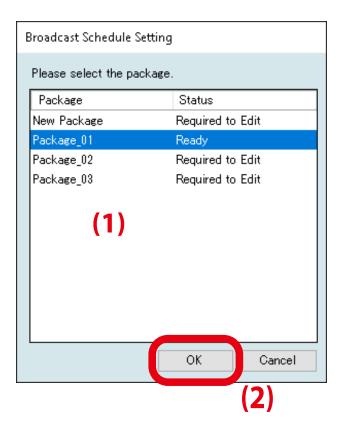


Transferring Data to Devices

1. Select MV-500R to which you want to send a program, and click **Package Setting**.



2. Select a program to send and click OK.



3. If data transfer is ready, you will see the name of the program under **Registered Packages** of the selected MV-500R.

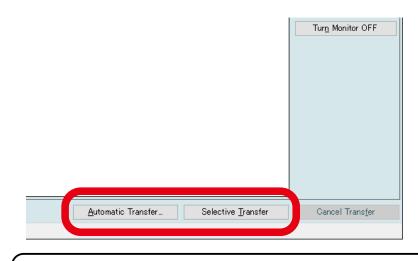
silex M	ledia Tran	sporter	E model	I			🔅 Setting_	2 Help
reate Project	Select Contents	Schedule Setting	Transfer					
evice <u>L</u> ist	Display A	II Devices				Change Filter		
Name X4A7CA4 X011CC9	MAC Address 00:80:92:4A:7C:A4 84:25:3F:01:1C:C9		Model MV-500T MV-500R	Tag	Transfer Not Su	Distribution Status 7 Unknown 1 No Contents	<u>G</u> reate De <u>B</u> err	iove
							Check Package	Setting
							Edit	arty
							Exp Turn <u>M</u> o	
							Turn Mor	itor OFF

4. Send the program to MV-500R.

TIP

The **Automatic Transfer** button automatically picks up appropriate MV-500R's, and sends the program to them.

The **Selective Transfer** button sends the program to MV-500R's selected in the device list.

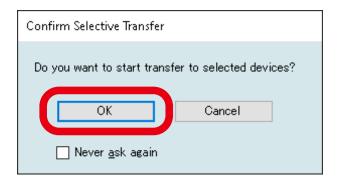


• Do not remove or insert a microSD card or turn off MV-500R during data transfer. The saved data or microSD card might be corrupted.

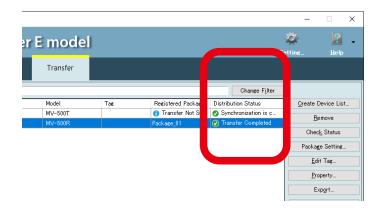
- To select multiple MV-500R's in the device list, click MV-500R's while holding down **Ctrl**.
 - If a password has been set to the MV-500R, click **Property** to register the password.
- **Note** The Automatic Transfer button shows the following window. To send a program immediately, click OK. To send one at a specific time, tick Set the transfer time, set the start and end time, and click OK.

Automatic Transfer
silex Media Transporter E model will automatically detect the devices in need of data transfer and then start the transfer. If the start start is the transfer of the start start is the start start of the start start start is the start
Set the <u>t</u> ransfer time.
$\underline{S}_{\text{tart}} = 0 \Rightarrow \underline{E}_{\text{nd}} = \underline{S}_{1} \Rightarrow \begin{bmatrix} 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\$
Specify at least one or more hours for the transfer time.
the current transfer. The transfer will restart from the start time of next day.
The transfer time can be specified over two consecutive days. (eg.Start: 22:00 - End: 8:00)
OK Cancel
(2)

5. The **Confirm Selective Transfer** window appears. Click **OK**.



6. The Distribution Status shows Transfer Completed after the program is completely sent to the receiver(s).



TIP

If the Distribution Status shows Storage Device IO Error, remove and insert the microSD card after you ₹¢~ power off the receiver. If you still see the error, the saved data may be broken. In this case, reformat the microSD card on your PC.

• If the status is still showing the error after the card is formatted, the card may be broken. Try to use another microSD card.

5-6. Video/Audio Playback

MV-500R plays content alone based on the program schedule.



• Do not remove the microSD card while MV-500R is playing content. If it is removed, power off the MV-500R, and then turn it on again.

6. Maintenance Functions

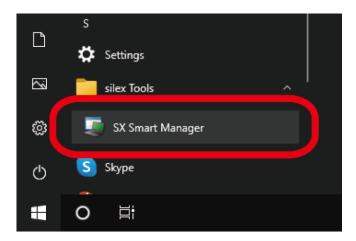
This chapter guides you through the maintenance functions of MV-500T/MV-500R.

6-1. Device Monitoring with Setting Management Software

The setting management software allows you to monitor the operation status of MV-500T/ MV-500R. The software has to be installed on a PC connecting to the same LAN of MV-500T/MV-500R.

Monitoring MV-500T/MV-500R Status

1. Click SX Smart Manager on the start menu of the PC.



2. The setting management software starts.

The node list shows MV-500T and MV-500R on the same network. Their operation status appears under **Status** of the node list and in the message window of the **Log/Queue** tabs.

i SX Sma	art Manager	Pro						- □	Х
<u>F</u> ile <u>E</u> d	it <u>V</u> iew	<u>Operation</u>	Log Option	<u>H</u> elp					
II 🗞 (👌 e 🛛 Qu	ick Filter:		\$					
Standard (Custom	Model	Host Name	e IP A	ddress	MAC Address	Group	Status	
🔁 All Node	Smart Manager Pro -								
🗃 Groups		R MV-500F	RX001134	192.	168.1.5	84:25:3F:00:11:34	3F001134	Online	
	A7CA4 (7)	R MV-500F	RX001135	5 192.	168.1.6	84:25:3F:00:11:35	3F001135	Online	
Models		R MV-500F	RX001136	5 192.	168.1.7	84:25:3F:00:11:36	3F001136	Online	
		R MV-500F	RX001137	192.	168.1.8	84:25:3F:00:11:37	3F001137	Online	
<u>IN</u> MV-	500K (0)	R MV-500F	RX001138	3 192.	168.1.9	84:25:3F:00:11:38	3F001138	Online	
		T MV-5001	TX001122	. 192.	168.1.1	84:25:3F:00:11:22	3F001122	🕘 No Video S	Signal
		T MV-5001	TX001123	3 192.	168.1.2	84:25:3F:00:11:23	3F001123	🕘 No Video S	Signal
()		T MV-5001	TX001124	192.	168.1.3	84:25:3F:00:11:24	3F001124	\rm No Video S	Signal
	-								
evel		1			-				-
Infor					-	-	st is process		
i) Infor i) Infor	Edit View Operation Log Ogtion Help Edit View Operation Log Ogtion Help Workson Construction Model Host Name IP Address MAC Address Group Status end Custom Model Host Name IP Address MAC Address Group Status end Custom Model Host Name IP Address MAC Address Group Status Status Model Host Name IP Address MAC Address Group Status Status Model Host Name IP Address MAC Address Group Status Status MV-500R RX001134 192.168.1.5 84.25:3F:00:11:33 3F001136 Online MV-500T (8) MV-500R RX001137 192.168.1.8 84.25:3F:00:11:23 3F001127 Online MV-500T TX001122 192.168.1.1 84.25:3F:00:11:23 3F001122 No Video MV-500T TX001123 192.168.1.3 84.25:3F:00:11:23 3F001124 No Video MV-500T TX001124 192.168.1.3 84.25:3F:00:11:24 3F001124								
9 1101	1/ // ZUZZ J.	JU.47 AM 04	23.31.00.11.30	17001130	nesidiring	request is in process		200	
									>
Log Que	eue								

3. The Help window explains the status and other information. Click **Help - Help**.

eration <u>L</u> og	tion Help	_	
	Teh		
ilter:	1	<u>H</u> elp	
odel	Ho. Name	IP Address Informa	ti h t
MV-500R	RX001133	<u>A</u> bout	14
MV-500R	RX001134	192.168.1.5	84:25:3F:00:11:3
MV-500R	RX001135	192.168.1.6	84:25:3F:00:11:3
MV-500R	RX001136	192.168.1.7	84:25:3F:00:11:3
MV-500R	RX001137	192.168.1.8	84:25:3F:00:11:3
MV-500R	RX001138	192.168.1.9	84:25:3F:00:11:3
MV-500T	TX001122	192.168.1.1	84:25:3F:00:11:2
MV-500T	TX001123	192.168.1.2	84:25:3F:00:11:2
MV-500T	TX001124	192.168.1.3	84:25:3F:00:11:2
	MV-500R MV-500R MV-500R MV-500R MV-500R MV-500R MV-500T MV-500T	MV-500R RX001133 MV-500R RX001134 MV-500R RX001135 MV-500R RX001136 MV-500R RX001137 MV-500R RX001137 MV-500R RX001138 MV-500T TX001122 MV-500T TX001123	MV-500R RX001133 About MV-500R RX001134 192.168.1.5 MV-500R RX001135 192.168.1.6 MV-500R RX001136 192.168.1.7 MV-500R RX001137 192.168.1.7 MV-500R RX001137 192.168.1.8 MV-500R RX001138 192.168.1.9 MV-500T TX001122 192.168.1.1 MV-500T TX001123 192.168.1.2

Naming MV-500T/MV-500R

The following steps show you how to give another name to the listed MV-500T/MV-500R. These names appear under **Alias**.

[Alias Setting Example]

📮 SX Smart Manager F	Pro				
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Operation Log	Option	<u>H</u> elp		
: 📰 🧐 逡 🖻 🛛 Qui	ick Filter:	1			
Standard Custom	Model	Host Name	Alias	P Address	MAC Ad
All Nodes (9)	R MV-500R	RX001133	AAA SCHOOL	92.168.1.4	84:25:3
Croups	R MV-500R	RX001134	BBB SCHOOL	92.168.1.5	84:25:31
🚺 924A7CA4 (7)	R MV-500R	RX001135	CCC SCHOOL	92.168.1.6	84:25:3
Models	R MV-500R	RX001136	DDD SCHOOL	92.168.1.7	84:25:3
MV-500R (6)	R MV-500R	RX001137	EEE SCHOOL	92.168.1.8	84:25:3
	R MV-500R	RX001138	FFF SCHOOL	92.168.1.9	84:25:3
	T MV-500T	TX001122	AAA SCHOOL	92.168.1.1	84:25:3
	T MV-500T	TX001123	BBB SCHOOL	92.168.1.2	84:25:3
	ET MUSSOT	TURNING	000,000,000		0 4 05 O

These Alias can be saved only to the setting management software in use, not to MV-500T/MV-500R.
 These names cannot be deleted when you factory reset the products.

• The other setting management software cannot display these Alias since MV-500T/MV-500R do not keep them in the memory.



ЦУ Ц

TIP

• You can give any name to them (e.g. ABC Elementary All Class Tx, ABC Elementary Grade 1 Class 1 Rx).

1. Choose one that you want to name, and click Edit - Edit Alias on the menu bar.

SY S	and Manager Dec			
ile E	dit View Operation Lo	O <u>p</u> tion <u>H</u> elp		
i 🛛 🖣	Edit Alias F2	\$		
Sandar	Group Tag 🔹 🕨	Host Name Alias	IP Address	MAC Addre
	SCIECCAIL CUIVA	RX001133	192.168.1.4	84:25:3F:0
🦻 Gro	Show Offline Nodes	RX001134	192.168.1.5	84:25:3F:0
🖾	Use Inline Edit	RX001135	192.168.1.6	84:25:3F:0
Mo		RX001136	192.168.1.7	84:25:3F:0
R	Remove Password	RX001137	192.168.1.8	84:25:3F:0
	Static Node	RX001138	192.168.1.9	84:25:3F:0
_	I MV-5UUI	TX001122	192.168.1.1	84:25:3F:0
	T MV-500T	TX001123	192.168.1.2	84:25:3F:0
	T MV-500T	TX001124	192.168.1.3	84:25:3F:0

• When Edit - Use Inline Edit has been ticked on the menu, you can click the Alias field of a device to enter a name.

Note

2. The input box appears under **Alias**. Type any name and click **OK**.

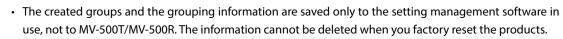
🗊 SX Smart Manager I	Pro				
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Operation Log	Option	<u>H</u> elp		
: 📰 🧐 逡 🖻 🛛 Qui	ick Filter:	1	<u>ĝ</u>		
Standard Custom	Model	Host Name	Alias	IP Address	MAC Addre
All Nodes (9)	R MV-500R	RX001133		192.168.1.4	84:25:3F:0
🚞 Groups	R MV-500R	RX001134		192.168.1.5	84:25:3F:0
🔁 924A7CA4 (7)	R MV-500R	RX001135		192.168.1.6	84:25:3F:0
Contraction Models	R MV-500R	RX001136		192.168.1.7	84:25:3F:0
	R MV-500R	RX001137		102 100 1.9	84:25:3F:0
R MV-500R (6)	R MV-500R	RX001138		192.168.1.9	84:25:3F:0
	T MV-500T	TX001122	AAA SCHOOL		84:25:3F:0
	T MV-500T	TX00112			84:25:3F:0
	T MV-500T	TX001124	ОК	Cancel	84:25:3F:0

Group Tag

The following steps explain how to add groups to the node list. You can group MV-500T/ MV-500R to display them by group.

[Group Setting Example]

🗊 SX Smart Manager	Pro				
<u>File Edit V</u> iew	Operation Log	Option	<u>H</u> elp		
📃 🧞 逡 🛛 Qu	ick Filter:	1	Ċ.		
Standard Custom	Model	Host Name	Alias	IP Address	MAC Ad
🚞 Group Tags	R MV-500R	RX001133		192.168.1.4	84:25:3
CLASS1	R MV-500R	RX001134		192.168.1.5	84:25:3
CLASS2	R MV-500R	RX001135		192.168.1.6	84:25:31
CLASS3	R MV-500R	RX001136		192.168.1.7	84:25:31
CLASS4	R MV-500R	RX001137		192.168.1.8	84:25:31
Conditional Filter	R MV-500R	RX001138		192.168.1.9	84:25:31
Conditional Titler	■ MV-500T	TX001122		192.168.1.1	84:25:3
	T MV-500T	TX001123		192.168.1.2	84:25:3
1	E IN CONT	TV004404		100 100 1 0	04 05 O



• The other setting management software cannot display the group information since MV-500T/MV-500R do not keep it in the memory.



TIP

• You can give any name to the groups (e.g. District 1, District 2).

1. Click the **Custom** tab in the filtering function area.

<u>F</u> ile <u>E</u> dit <u>V</u> iew	Operation Log	Option	<u>H</u> elp		
	sk Filter:	1	Ĵ≱		
tandard Custom	Model	Host Name	Alias	IP Address	MAC Add
Group Tage	R MV-500R	RX001133		192.168.1.4	84:25:3F
🚞 Conditional Filter	R MV-500R	RX001134		192.168.1.5	84:25:3F
	R MV-500R	RX001135		192.168.1.6	84:25:3F
	R MV-500R	RX001136		192.168.1.7	84:25:3F
	R MV-500R	RX001137		192.168.1.8	84:25:3F
	R MV-500R	RX001138		192.168.1.9	84:25:3F
	T MV-500T	TX001122		192.168.1.1	84:25:3F
	T MV-500T	TX001123		192.168.1.2	84:25:3F
	T MV-500T	TX001124		192.168.1.3	84:25:3F

2. Right click the Group Tags, and click New Tag.

🍯 SX Smart Manager	Pro				
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Operation Log	Option	<u>H</u> elp		
	iek Eilten	[4	¢.		
standard Custom	Model	Host Name	Alias	IP Address	MAC Add
Group Tage	Ten	RX001133		192.168.1.4	84:25:3F
Conditional <u>Ne</u>	w Tag	RX001134		192.168.1.5	84:25:3F
		RX001135		192.168.1.6	84:25:3F
	R MV-500R	RX001136		192.168.1.7	84:25:3F
	R MV-500R	RX001137		192.168.1.8	84:25:3F
	R MV-500R	RX001138		192.168.1.9	84:25:3F
	T MV-500T	TX001122		192.168.1.1	84:25:3F
	T MV-500T	TX001123		192.168.1.2	84:25:3F
	T MV-500T	TX001124		192.168.1.3	84:25:3F

3. The edit window of **Group Tags** appears. Choose an icon, type a group name, and click **OK**.

Group Tag		Х
<u>l</u> con:	• •	
<u>N</u> ame:	CLASS1	
	ОК	ancel

4. A group will be created.

🕥 SX Smart Manager	Pro				
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Operation Log	Option	<u>H</u> elp		
Qu	iick Filter:	1	*		
Standard Custom	Model	Host Name	Alias	IP Address	MAC Add
🚞 Group Tags	R MV-500R	RX001133		192.168.1.4	84:25:3F
CLASS1	R MV-500R	RX001134		192.168.1.5	84:25:3F
	R MV-500R	RX001135		192.168.1.6	84:25:3F
	R MV-500R	RX001136		192.168.1.7	84:25:3F
	R MV-500R	RX001137		192.168.1.8	84:25:3F
	R MV-500R	RX001138		192.168.1.9	84:25:3F
	T MV-500T	TX001122		192.168.1.1	84:25:3F
	T MV-500T	TX001123		192.168.1.2	84:25:3F
	T MV-500T	TX001124		192.168.1.3	84:25:3F

Adding MV-500T/MV-500R to Group

The following steps explain how to add MV-500T/MV-500R to a created group. You can view the products by group.



MV-500T/MV-500R can join more than one group.



1. Select MV-500T/MV-500R to group from the node list.

SX Smart Manager		0.1			
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Operation Log	Option	<u>H</u> elp		
📰 🧐 逡 🖲 Qu	iick Filter:	1	<u>Ģ</u> r		
Standard Custom	Model	Host Name	Alias	IP Address	MAC Address
Di All Nodes (9)	R MV-500R	RX001133	AAA SCHOOL	192.168.1.4	84:25:3F:00:11:33
Croups	R MV-500R	RX001134	BBB SCHOOL	192.168.1.5	84:25:3F:00:11:34
🔯 924A7CA4 (7)	R MV-500R	RX001135	CCC SCHOOL	192.168.1.6	84:25:3F:00:11:35
Models	R MV-500R	RX001136	DDD SCHOOL	192.168.1.7	84:25:3F:00:11:36
R MV-500R (6)	R MV-500R	RX001137	EEE SCHOOL	192.168.1.8	84:25:3F:00:11:37
	ATT SOUT	10001150	TH SCHOOL	132.100.1.3	04.20.01.00.11.18
	F MV-500T	TX001122	AAA SCHOOL	192.168.1.1	84:25:3F:00:11:2
	MV-500T	TX001123	BBB SCHOOL	192 168 1 2	84-25-3E-00-11 3
	T MV-500T	TX001124	CCC SCHOOL	192.168.1.3	84:25:3F:00:11:24

You can select more than one MV-500T/MV-500R at once.

Note

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2. Select Edit - Group Tag - Add a Tag to Selected Nodes from the top menu, and click one of the groups to which you will add MV-500T/MV-500R.

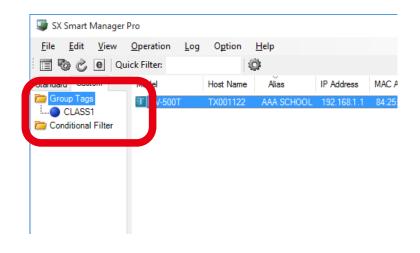
e Ed	lit View	Operation	Log	O <u>p</u> tion <u>H</u> el	р						
Ę	Edit Alias	F2		\$							
dai	Group Tag		•	Add a Tag to	Selected Nodes	•	CLASS1			Status	
All Gro	Select All	Ctrl+A		Remove a Ta	ag from Selected Nodes	•	CLASS2		33	Online	
	Show Offli	ne Nodes	_	RX001134	192.168.1.5	84:25	CLASS3		34	Online	
	Use Inline			RX001135	192.168.1.6	84:25	CLASS4		35	Online	
Mo				RX001136	192.168.1.7	84:25	CLASS5	- I	36	Online	
Ţ	Remove Pa	assword		RX001137	192.168.1.8	84:25		31001	37	Online	
-	Static Not	e	_							Online	
		1 MV-500		TX001122	192.168.1.1	84:25	:3F:00:11:22	3F0011	22	🕘 No Video	Signa
		T MV-500	Г	TX001123	192.168.1.2	84:25	:3F:00:11:23	3F0011	123	🕒 No Video	Signa
		T MV-500	г	TX001124	192.168.1.3	84:25	:3F:00:11:24	3F0011	124	🕒 No Video	Signa



The menu shows groups that you created.

Noto
NULE

3. The selected MV-500T/MV-500R will be added to the group. Click the group tag to display only the added MV-500T/MV-500R in the node list.



6-2. Setting Change

To change the settings of installed MV-500T/MV-500R, use the configuration files. You need to create a new configuration file or edit an existing file to create a new one. This section explains how to edit an existing file.



• You need the following items beside the setting management software to edit the configuration files. Connect the setup PC and MV-500T/MV-500R on the same LAN. MV-500T/MV-500R will be used as an information source to edit configuration files.

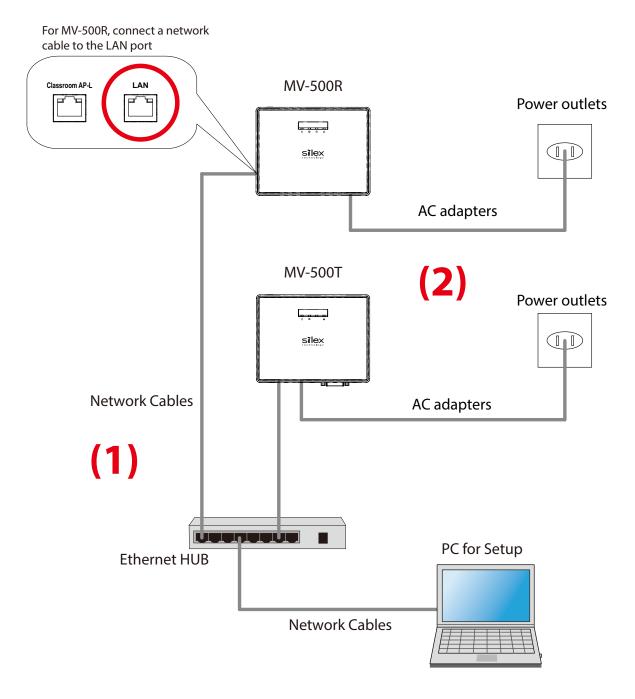
Required Items

Use the setting management software to create configuration files for MV-500T/MV-500R. Prepare either a transmitter or a receiver depending on whose configuration file you will edit.

MV-500T (Transmitter)	Prepare one unit when you want to edit MV-500T's configuration files.
MV-500R (Receiver)	Prepare one unit when you want to edit MV-500R's configuration files.
PC for setup	Prepare a PC with the setting management software installed and is equipped with a wired LAN port.
Network cable	 Prepare network cables (Category 5e or greater) to connect PC and MV-500T/MV-500R for configuration. Since MV-500T/MV-500R support Auto MDI/MDI-X, you can use either the straight-through or the crossover network cables. You can use an Ethernet hub or directly connect MV-500T/MV-500R to the PC.
Ethernet hub	Use an Ethernet hub to connect MV-500T/MV-500R and the PC. It is not needed when you use your existing network environment.

Connecting MV-500T/MV-500R and PC on the Same Network

Use an Ethernet hub to connect MV-500T and MV-500R with the PC on the same LAN. Connect them with network cables, and plug the AC adapters of MV-500T/MV-500R into power outlets. Since these MV-500T/MV-500R are for obtaining the setting information, they do not require a display unit or a video source to be connected.



 When a static IP address is assigned to the PC, temporarily enable Obtain an IP address automatically on the PC.

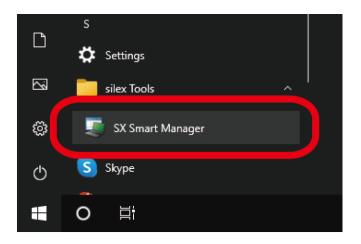
<u>ک</u>

TIP

Editing Configuration File

Create a configuration file of MV-500T/MV-500R by using the setting management software. For the following steps, MV-500T is being used as an example.

1. Click **SX Smart Manager** on the start menu of the PC.



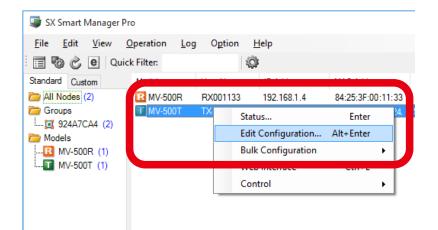
2. The setting management software starts.

The node list displays MV-500T/MV-500R connected on the same network.

🥥 SX Smart	Manager P	ro									-		\times
<u>F</u> ile <u>E</u> dit	View	Operation	l en	0-ti	Uala								
501	e Q	Filter:			0								
Standard Cus	stom	Model	Н	ost Nam	e	IP Address		MAC Add	ess	Group	Sta		
🚞 All Nodes	(2)	🖪 MV-50	DOR R	X00113	3	192.168.1	4	84:25:3F:	00:11:33	3F001133	0	line	
Groups	7CA4 (2)	🛅 MV-50	ют т.	X00112	2	192.168.1.	1.	84:25:3F:	00:11:22	3F001122	•	Video Sig	gnal I
		٢											
Level Ti	ìme		MAC Addres	35	Alias / Ho	st Mes	sage					Code	
-	îme /6/2022 2:4(MAC Addres		Alias / Ho DESKTOP		-	inager Pro	2.0.4 are s	tarted.		Code 1001	-
i Infor 1/):44 PM		ent)		SX 9	imart Ma	inager Pro earch is st		tarted.			
i) Infor 1/ i) Infor 1/ i) Infor 1/	/6/2022 2:40):44 PM):46 PM	(Internal Eve	ent) ent)	DESKTOP	P SX 9	imart Ma I node s	earch is st	arted.	tarted.		1001 1011 2061	
i) Infor 1/ i) Infor 1/ i) Infor 1/	/6/2022 2:40 /6/2022 2:40):44 PM):46 PM):46 PM	(Internal Eve (Internal Eve	ent) ent) :11:33	DESKTOF DESKTOF RX00113	P SX S P Loca 3 Sen	imart Ma Inode s ding conf	earch is st	arted. data reque			1001 1011	
i) Infor 1/ i) Infor 1/ i) Infor 1/ i) Infor 1/	/6/2022 2:40 /6/2022 2:40 /6/2022 2:40):44 PM):46 PM):46 PM	(Internal Eve (Internal Eve 84:25:3F:00	ent) ent) :11:33	DESKTOF DESKTOF RX00113	P SX S P Loca 3 Sen	imart Ma Inode s ding conf	earch is st figuration	arted. data reque			1001 1011 2061 2081	1
i) Infor 1/ i) Infor 1/ i) Infor 1/	/6/2022 2:40 /6/2022 2:40 /6/2022 2:40 /6/2022 2:40):44 PM):46 PM):46 PM	(Internal Eve (Internal Eve 84:25:3F:00	ent) ent) :11:33	DESKTOF DESKTOF RX00113	P SX S P Loca 3 Sen	imart Ma Inode s ding conf	earch is st figuration	arted. data reque			1001 1011 2061 2081	

3. Create a configuration file for MV-500T.

Right click MV-500T in the node list, and choose Edit Configuration.





• As you try to access MV-500T/MV-500R's setting or maintenance webpages, the login page appears. Enter root as the user name and your MV-500T/MV-500R's root password. (Note that no password is set as factory default.)



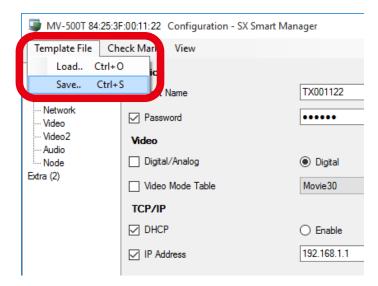
• You can view the **Configuration** window in a different way; select MV-500T in the node list, and click **Operation** - **Edit Configuration** on the menu bar.

4. The MV-500T's Configuration window appears.

Click a category on the left to see the particular configuration items on the right.

-	F:00:11:22 Configuration - SX Smart M neck Mark <u>V</u> iew	unuger			×
Basic Advanced - Device - Network - Video - Video2 - Audio - Node Edra (2) (1)	Device Host Name Password Video Digital/Analog Video Mode Table TCP/IP DHCP IP Address (2)	TX001122 	 Analog V Disable 		
Actions after Upload		ОК	Cancel	<u>A</u> pply	
			Check	ed Items: 0	/ 38 .::

5. Click Template File - Load on the menu bar.



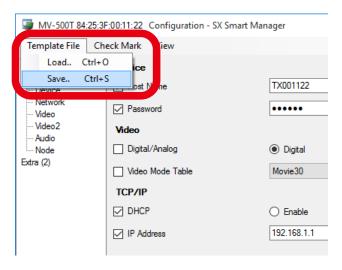
6. The file dialog appears. Choose a configuration file to edit.

i Open					×
$\leftrightarrow \rightarrow \cdot \uparrow$	« Des	ctop > MV-500 > Setting_Files ~	ව Search Setting_	Files	٩
Organize 🔻 Ne	ew folder				?
🖈 Quick access		Name	Date modified	Туре	
E. Desktop	*	Transmitter_for_1st_grade.cfg	12/2/2021 4:27 PM	CFG File	
Downloads	*	Transmitter_for_2nd_grade.cfg	12/2/2021 4:27 PM	CFG File	
Documents	*	Transmitter_for_3rd_grade.cfg	12/2/2021 4:27 PM	CFG File	
Pictures	*	Transmitter_for_whole_school_broadcasting.cfg	12/7/2021 10:13 AM	CFG File	
MV-500					
Setting_Files					
a OneDrive					
💻 This PC					
Artwork					
-	•				2
	File <u>n</u> ar	ne: Transmitter_for_whole_school_broadcasting.cfg	✓ Template files	(*.cfg)	\sim
			0	Cancel	
			<u>O</u> pen	Cancel	

7. The window displays the imported information. Tick boxes of the items that you want to change, and enter their values.

Template File	Check Mark View		
Basic Advanced — Device — Network — Video — Video — Audio — Audio — Node Extra (2)	Device Host Name Password Ndeo Digital/Analog Video Mode Table TCP/IP DHCP IP Address (1)	TX001122 Digital O Analog Movie30 C Enable Disable 192.168.1.1	
Actions after Uplo	ading Configuration	OK Cancel	Apply

8. After updating the items, click **Template File - Save** on the menu bar.



• Do not click **OK** or **Apply**. If you do so, the selected MV-500T will save these values to its memory. **TIP**

9. Go back to the **Configuration** window.

Click \times (Close) on the top right of the window.

Template File	Check Mark View			
Basic	Device			
Advanced Device	Host Name	TX001122		
Network Video	Password			
··· Video2	Video			
Audio Node	Digital/Analog	Digital	O Analog	
Extra (2)	Video Mode Table	Movie30	~	
	TCP/IP			
	DHCP	Enable	O Disable	
	IP Address	0.0.0.0		
- Actions after Liek	bading Configuration			
Restart the n		ОК	Cancel	Apply

10. See the main window of the setting management software.

Click \times (Close) on the top right to quit the setting management software. Unplug the AC adapter of MV-500T from the power outlet.

SX Smart Man <u>File Edit V</u> i	nager Pro liew <u>O</u> peratio	n <u>L</u> og O <u>p</u> tion	<u>H</u> elp				- ((
🗑 🖉 🖻	Quick Filter:		4						
All Nodes (2) Groups Wodels MV-500T (MV-500R ((1)		3 192	168.1.4 84:2	: Address 5:3F:00:11:33 5:3F:00:11:22	Group 3F001133 3F001122	Status ② Online ④ No Vic		al Inç
	۲								>
(i) Infor 1/6/20	022 2:40:44 PM 022 2:40:46 PM	MAC Address (Internal Event) (Internal Event) 84/26-36-00-11-33	Alias / Host DESKTOP DESKTOP RXI01133	Message SX Smart Manage Local node search	n is started.			Code 1001 1011 2061	>
(i) Infor 1/6/20 (i) Infor 1/6/20 (i) Infor 1/6/20	022 2:40:44 PM	(Internal Event)	DESKTOP DESKTOP RX001133	SX Smart Manage	n is started. ation data reques			1001	

11. The configuration file has been edited. Update MV-500T/MV-500R with the file according to **3-4. Configuration File for Setup**.

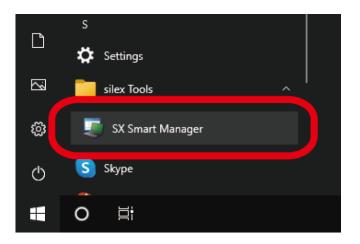
6-3. Restart

This chapter explains how to restart MV-500T/MV-500R.

Using Setting Management Software

You can restart MV-500T/MV-500R from the setting management software.

1. Click **SX Smart Manager** on the start menu of your setup PC that is connecting on the same network.



2. The setting management software starts.

The node list displays the networked MV-500T/MV-500R. Look for the one that you want to restart, right click on it and select **Control - Restart** from the menu.

Standard Custom Model ☐ MI Nodes (9) ☐ MV-500R ☑ MV-500R ☐ Groups ☐	Host Name Alia RX001133 RX001133 RX001134 RX001135 RX001135 RX001136 RX001137 Statu TX001 Statu	192.168.1.4 192.168.1.5 192.168.1.6 192.168.1.7 192.168.1.8	84:25:3F:00:11:33 3 84:25:3F:00:11:34 3 84:25:3F:00:11:35 3 84:25:3F:00:11:36 3 84:25:3F:00:11:37 3	Group Status 3F001133 Onl 3F001134 Onl 3F001135 Onl 3F001136 Onl 3F001137 Onl 3F001137 Onl	line line line line
	TX001				Video Signal In
<	TX001 Bulk		nter)0:11:24 : rl+E Video	3F001124 \rm No '	Video Signal In Video Signal In
(i) Infor 1/7/2022 9:5	C Address Alias / Ho 5:3E:00:11:37 BX00113	-	Resta	ware Update	Ctrl+R

- You can select more than one MV-500T/MV-500R to restart at once.
- You can also click **Operation Control Restart** on the menu bar. **Note**

3. The restart window appears. Click OK.

Restart			×
Request res	tart to following i	nodes	
Target Noo	Jes Schedule		
Model	Alias / Hos	MAC Address	
MV-500T	TX001122	84:25:3F:00:11:22	
	ОК	Cancel	

• To schedule a restart, click the **Schedule** tab and specify the date and time.



Hard Reboot

MV-500T and MV-500R are not equipped with a power switch. Unplug and plug the AC adapter to restart them.

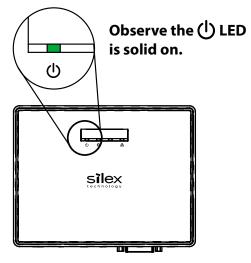
- **1.** Unplug the AC adapter of MV-500T/MV-500R from a power outlet.
- **2.** Plug the AC adapter to a power outlet.
- **3.** When MV-500T/MV-500R has restarted completely, the top LED comes on as follows.

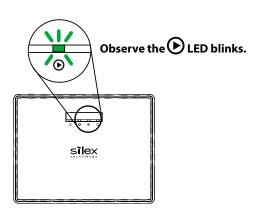
[MV-500T (Transmitter)]

[MV-500R (Receiver)]

The top **b**LED is blinking.

The top ULED is on.





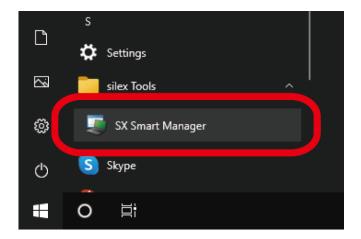
6-4. Factory Reset

This chapter explains how to reset MV-500T/MV-500R to the factory default settings.

Using Setting Management Software

You can factory reset MV-500T/MV-500R by using the setting management software.

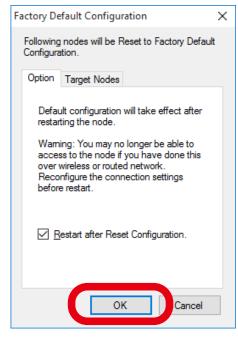
1. Click **SX Smart Manager** on the start menu of your PC that is connecting on the same network.



 The setting management software starts. The node list displays networked MV-500T/ MV-500R. Look for the one you want to factory reset, right click it and select Control -Factory Default Configuration from the menu.

i SX Sm	art Manage	r Pro								- 🗆	×
<u>F</u> ile <u>E</u> o	dit <u>V</u> iew	<u>O</u> peratio	n <u>L</u> og	Option	<u>H</u> elp						
🗉 🗞	c e c	uick Filter:			¢.						
Standard	Custom	Model		Host Name	Alias	IP Address	MAC Add	ress	Group	Status	
🚞 All Noc	les (9)	R MV-5	00R	RX001133		192.168.1.4	84:25:3F:	00:11:33	3F001133	Online	
🚞 Groups		R MV-5	00R	RX001134		192.168.1.5	84:25:3F:	00:11:34	3F001134	Online	
	4A7CA4 (7)	R MV-5	00R	RX001135		192.168.1.6	84:25:3F:	00:11:35	3F001135	Online	
Models		R MV-5	00R	RX001136		192.168.1.7	84:25:3F:	00:11:36	3F001136	Online	
=	-500T (3) -500R (6)	R MV-5	00R	RX001137		192.168.1.8	84:25:3F:	00:11:37	3F001137	Online	
	-500H (0)										
		MV-5	00T	TX001	Status	F	nter	00: 11: 22	3F001122	🛛 No Video	Signal Inp
		T MV-5	00T	TX001	Edit Config	-		00:11:23	3F001123	\rm No Video	Signal Inp
		T MV-5	00T	TX001	Bulk Confid		•	00:11:24	3F001124	🕕 No Video	Signal Inp
						-					
					Web Interfa	ice Ct	rl+E				
		K			Control		•		ideo Control		· •
	Time		MAC Ad	dress	Alias / Host	Message		R	lestart	Ctrl	+ R
Level		9: 47 AM	84-25-3E	:00:11:36	RX001136	Sending configura	tion data re	F	actory Default	Configuration	
	1/7/2022	9: 47 AM									
Level (i) Infor (i) Infor	1/7/2022			:00:11:37	RX001137	Restarting request	t is in proce	(F	irmware Updat	te	

- You can select more than one MV-500T/MV-500R to factory reset at once.
- You can also click **Operation Control Factory Default Configuration** on the menu bar. **Note**
- 3. The Factory Default Configuration window appears. Click OK.



• If you want a restart later, untick **Restart after Reset Configuration**.

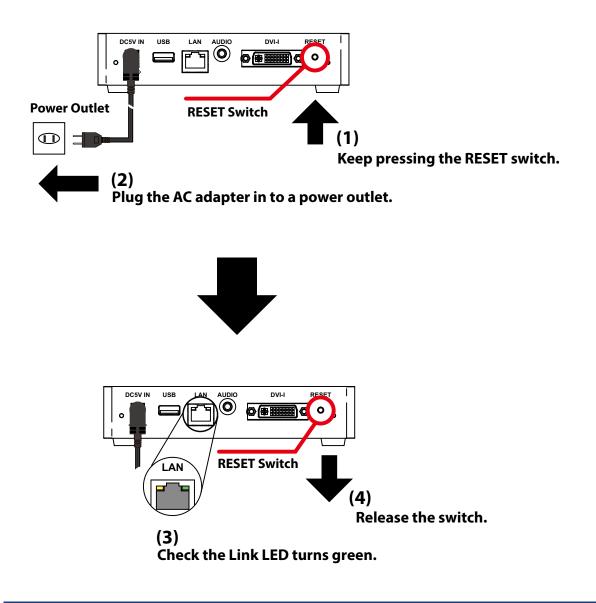


Using RESET Switch

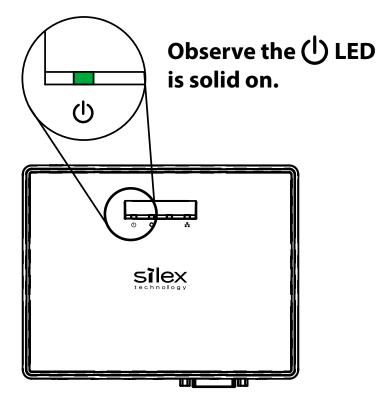
This section guides you through a factory reset with MV-500T/MV-500R's RESET switch.

[MV-500T (Transmitter)]

1. Plug the AC adapter into a power outlet while pressing the RESET switch on the front panel. The Link LED (orange) and the Status LED (yellow) at the network port will come on. When the Link LED changes from orange to green, release the RESET switch.

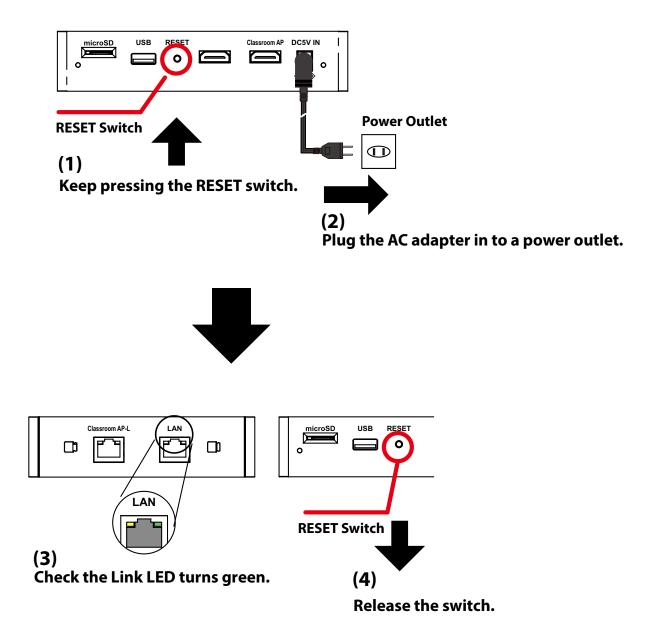


2. After the factory reset, MV-500T automatically restarts. Make sure that the top ULED is on after the restart.

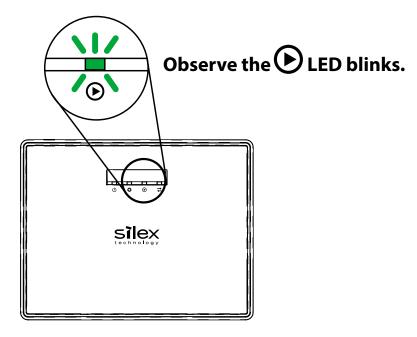


[MV-500R (Receiver)]

1. Plug the AC adapter into a power outlet while pressing the RESET switch on the front panel. The Link LED (orange) and the Status LED (yellow) at the network port will come on. When the Link LED changes from orange to green, release the RESET switch.



2. After the factory reset, MV-500R automatically restarts. Make sure that the top EED is blinking after the restart.



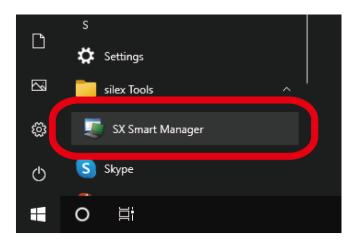
6-5. Firmware Update

This section describes how to update the firmware. You can download the latest one from Silex's web site.

Knowing Firmware Version

Use the setting management software to find out the firmware's version number.

1. Click **SX Smart Manager** on the start menu of the PC on the same network.



2. The setting management software starts.

The node list displays the MV-500T/MV-500R connecting on the network, and the **Firmware Version** field shows their version numbers.

SX Smart Manager I <u>File Edit View</u>	Operation Log) O <u>p</u> tion <u>H</u> elp					
📰 🧐 🌝 🧧 Qu	ick Filter:	\$					
Standard Custom	IP Address	MAC Address	Group	Status		Firmware Version	F
All Nodes (2)	192.168.1.4	84:25:3F:00:11:33	3F001133	Online		1.5.6	
Groups	192.168.1.5	84:25:3F:00:11:34	3F001134	Online		1.5.6	
🗾 924A7CA4 (2)	192.168.1.6	84:25:3F:00:11:35	3F001135	Online		1.5.6	
Models	192.168.1.7	84:25:3F:00:11:36	3F001136	Online		1.5.6	
MV-500K (1)	192.168.1.8	84:25:3F:00:11:37	3F001137	Online		1.5.6	
	192.168.1.9	84:25:3F:00:11:38	3F001138	Online		1.5.6	
	192.168.1.1	84:25:3F:00:11:22	3F001122	\rm No Vide	ignal Input	1.2.2	
	192.168.1.2	84:25:3F:00:11:23	3F001123	🕒 No Vide	ignal Input	1.2.2	
	192.168.1.3	84:25:3F:00:11:24	3F001124	🕒 No Vide	ignal Input	1.2.2	

Downloading Firmware

The latest firmware is published on Silex's website. Take the steps below to download the latest one.

How to download the firmware file:

1. Access our website below.

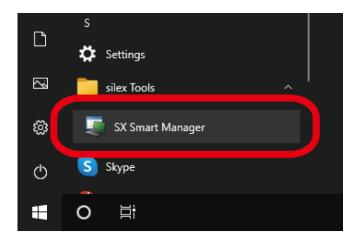
	URL
USA / Europe	https://www.silextechnology.com/

2. Go to the support section and download the firmware file.

Upgrading Firmware

Use the setting management software to upgrade MV-500T/MV-500R's firmware.

1. Click **SX Smart Manager** on the start menu of the setup PC on the same network.



2. The setting management software starts. The node list displays MV-500T/MV-500R on the network. Select one that you want to upgrade the firmware, right click on it and choose **Control - Firmware Update**.

		Pro		0.11						- 0	×
<u>File</u> <u>E</u> di	t <u>V</u> iew	<u>O</u> peratio	n <u>L</u> og	Option	<u>H</u> elp						
🗉 🗞 🖉	🮐 🖻 🔍 Qu	ick Filter:			\$						
Standard C	Custom	Model		Host Nam	e Alias	IP Address	MAC Add	ress	Group	Status	
🔁 All Node	:s (9)	R MV-5	00R	RX00113	3	192.168.1.4	84:25:3F:	00:11:33	3F001133	Online	
늘 Groups		R MV-5	00R	RX00113	1	192.168.1.5	84:25:3F:	00:11:34	3F001134	Online	
i 🚺 9244	47CA4 (7)	R MV-5	00R	RX00113	5	192.168.1.6	84:25:3F:	00:11:35	3F001135	Online	
Models		民 MV-5	00R	RX00113	5	192.168.1.7	84:25:3F:	00:11:36	3F001136	Online	
		R MV-5	00R	RX00113	7	192 168 1 8	84-25-3F	00.11.37	3E001137	Online	
·····	500K (0)	IN WV-S	UUR	RAUUTT3	,	192.168.1.9	84:20:3F:	00:11:38	3F001138	Online	
		T MV-5	00T	TX001	Status	F	nter	00:11:22	3F001122	🕘 No Video	o Signal In
		🔟 MV-5	00T	TX001	Edit Config	uration Alt+E	nter	00:11:23	3F001123	🕕 No Video	o Signal In
		🛅 MV-5	00T	TX001	Bulk Config			00:11:24	3F001124	🕘 No Video	Signal In
						,					
					Web Interfa	ice Ci	trl+E				
		<			Control		•		deo Control		•
Level	Time		MAC Ad	dress	Alias / Host	Message			start		I+R
i) Infor	1/7/20 9:	50:47 AM	84:25:3F	00:11:36	RX001136	Sending configura	ation data re	Fa	ctory Default	Configuration	ı
i) Infor		50:47 AM		:00:11:37	RX001137	Restarting reques			mware Updat		
i) Infor	1/7/20 9:	50:47 AM	84:25:3F	:00:11:38	RX001138	Restarting reques	t is in proce	55		2	081



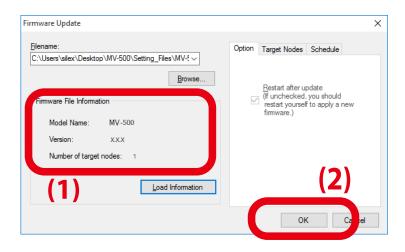
- You can select more than one MV-500T/MV-500R to upgrade their firmware at once.
- You can also click **Operation Control Firmware Update** on the menu bar to upgrade the firmware.

Note

3. The **Firmware Update** window appears. Click **Browse** and select the firmware that you downloaded.

mware Update			2
Elename:	Option	Target Nodes	Schedule
Browse Firmware File Information Model Name: (File not selected)	D	Restart after u (If unchecked, restart yourse) firmware.)	
Version: (File not selected)			
Number of target nodes: (File not selected)			
Load Information			
		OF	Cancel

4. The window displays the information of the firmware you selected. Click **OK**.





• To schedule a restart, click the **Schedule** tab and specify the date and time.

6-6. Maintenance in Web Interface

You can access the environment settings of MV-500T/MV-500R using a web browser. Use a PC on the same network.

The following web browsers are recommended:

- Microsoft Internet Explorer 8 or later



• The following images are screenshots of Internet Explorer 11 on Windows 10. These webpages may appear different depending on OS and versions of browsers.

 MV-500T's webpage screenshots are used in the following examples unless otherwise described, and are slightly different from MV-500R's.

How to Access Webpage

1. Select MV-500T/MV-500R in the node list of the setting management software and open the webpage. Right click on it and select **Web Interface**.

🗊 SX Smart Manager I	Pro				
<u>File Edit V</u> iew	Operation Log	O <u>p</u> tion	<u>H</u> elp		
Image: Standard Custom All Nodes (9) Groups Image: Standard Image: Standard 2924A7CA4 (7) Models MV-500T (3) Image: MV-500R (6) MV-500R (6)	Model MV-500R MV-500R MV-500R MV-500R MV-500R MV-500R MV-500R MV-500R	Host Name RX001133 RX001134 RX001135 RX001136 RX001137		IP Address 192.168.1.4 192.168.1.5 192.168.1.6 192.168.1.7 192.168.1.8	MAC Addre 84:25:3F:0 84:25:3F:0 84:25:3F:0 84:25:3F:0 84:25:3F:0
	F MV-500T T MV-500T T MV-500T		Status Edit Configuratio Bulk Configuratio Web Interface Control		er :0
Level Time	MAC Ad	dress /	Alias / Host M	essage	

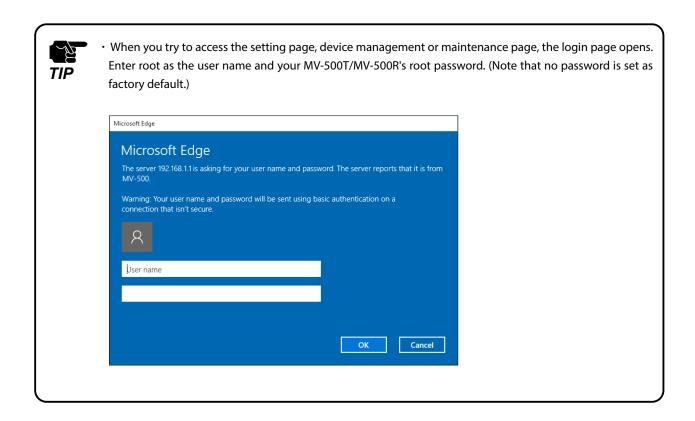


• You can also click **Operation** - **Web Interface** on the menu bar to access the webpage.

• If you know the IP address of the device, you can enter the IP address in the address bar of a web browser to access the webpages.

2. Your web browser opens and shows the MV-500T/MV-500R's webpage.

	Overview		
Select Language English	Overview		
Status Overview Network Video/Audio Node Information Basic Configuration	► Service Name Video	Status No Signal	🌶 Retesh
- Basic	Audio	Stopped; 48kHz	
Advanced Configuration Device Network Video/Audio	Connection Name Wired LAN	Status Connected ; 1000Mbps Full	
- Node Configuration	 Device Name 	Status	
Management	Model Name	MV-500T	
- Video/Audio - Restart	Host Name	TX001122	
- Restart - Factory Default	MAC Address	84:25:3F:00:11:22	
- Firmware Update	Firmware Version	1.2.2	
- silex Global Site	Uptime(sec)	127	
	System Time	2022/02/04 16:04:05	
	L		
MV-500T			
Ver 1.2.2 [00:80:92:4a:7c:a4]			Copyright (C) 2016 silex technology, Inc



Status Page

The status page shows MV-500T/MV-500R's operation status. Click the left menu to see the details of the status information.

silex
Select Language
English V
▼ Status
- Overview
- Network
- Video/Audio
- Node Information
 Basic Configuration Basic
Advanced
Configuration
- Device
- Network
- Video/Audio
- Node Configuration
Management
- Video/Audio
- Restart
- Factory Default
- Firmware Update
- silex Global Site

Overview

🌶 Refr
🌶 Refn

This page shows MV-500T/MV-500R's services, network conditions, and system information.

Network Information

Network Status		
Vetwork Status		
,		
		🌶 Refresl
▶ Wired LAN		
Wired LAN Name	Status	
Wired LAN 1	Connected ; 1000Mbps Full	
Wired LAN 1	Not Connected	
MAC Address	84:25:3F:00:11:22	
IP Address	192.168.1.1	
Subnet Mask	0.0.0.0	
Default Gateway	0.0.0.0	
Donani Gatoriaj	0.0.0.0	
Common		
Name	Status	
DNS Server (Primary)	0.0.0.0	
DNS Server (Secondary)	0.0.0.0	
NTP Server Name	-	
Last synchronization time	-	

This page shows the wired LAN connection status.

Video/Audio Information

de a la collection		
deo/Audio Status	• • •	
	-	
udio Status		
		🌶 Re
Video		
Name	Status	
Device Status	Stopped	
Video Interface	Digital	
Frame Size	31KB	
Interval	13235740ms	
Frame Rate	Ofps	
Interrupt Count	2	
Codec Error Count	0	
Input Frame Count		
Output Frame Count	0	
Sent Frame Count	-	
Received Frame Count	0	
Lost Frame Count	0	
Sent Packet Count		
Received Packet Count	0	
Lost Packet Count	0	
Audio		
Name	Status	
Device Status	Stopped	
Input Frame Count	-	
Output Frame Count	0	
Sent Frame Count	-	
Received Frame Count	0	
Lost Frame Count	0	
Sent Packet Count		
Received Packet Count	0	
Lost Packet Count	0	

This page shows how video and audio data is being sent and played back.

Store and Play Status (MV-500R only)

	• •	
Store & Play Status	• • • •	
e & Play Status		
		🍠 Refre
 microSD Card 		
Name	Status	
Product Name	microSD16	
Status	Not Inserted	
Capacity	-	
Free Space	-	
 Scheduler 	01.1	
Name	Status	
Status	Stopped; No Contents	
System Time	2022/01/06 16:27:28 (UTC+9:00)	
Schedule Definition File	2022/04/02 00 00 22 (UTO -0.00)	
Schedule Timestamp Schedule Load Time	2022/01/02 09:00:22 (UTC+9:00)	
Schedule Load Time	2022/01/06 18:27:26 (UTC+9:00)	
Playing Contents		
Name	Status	
Contents File		
Title		
Туре		
Duration (M:SEC)		
File Size		
Timestamp		
Encoder		
 Synchronized Playback 		
Name	Status	
Status	Disable	

This page shows the current status of the store and play function.

Node Information

de Information					
de Information					
_					🌶 Refre
Transmitter					
Group Number	Host Name		IP Ad	ldress	MAC Address
001122	TX001122		192.1	68.1.1	84:25:3F:00:11:22
► Receiver					
	onnection	Host Nam	e	IP Address	MAC Address
	ulticast	RX001133		192.168.1.2	84:25:3F:00:11:33

This page shows all the nodes that are connecting on the same network.

Setting Page

You can update the environment settings on the settings pages that consist of **Basic** Configuration for the fundamental settings and Advanced Configuration for the detailed settings.



To change the settings, go to the particular setting page, enter new values and click Submit.

The following pages briefly explain each setting page. For details of the setting items, see **Appendix A-1 Setting Items.**



The following images are screenshots of MV-500T's webpages, which consist of different setting items from MV-500R's

Note

Basic Configuration

Basic Configuration		
Basic Configuration		
 Device Configuration 		
Name Host Name Password	Value TX:001122	
 Video Configuration Name 	Value	
Digital/Analog Video Mode	Digital V Movie30 V	
 Wired LAN Configuration 	Value	
Name DHCP IP Address	Enable 0.0.0.0	
		Submit

Enter MV-500T/MV-500R's information required for the operation.

Advanced Configuration - Device Configuration

(MV-500T)

Device Configuration			
vice Configuration			
_			
 Device Configuration 			
Name	Value		
Host Name Password Video/Audio	TX001122		
► NTP			
Name	Value		
NTP Time Synchronization NTP Server Name	Disable 🗸	 	
			Submit
▶ Time			
Name	Value		
Local Time Zone System Time	+9:00 V 2022/02/04 17:14:45		
Browser Time	2022/02/04 17:15:03		Syncronize

You can change the following values:

- Host name and password
- Execution of video/Audio transmission
- NTP server setting for the device system time
- Time information of the web browser to update the system time

(MV-500R)

Device Configuration	
ice Configuration	
 Device Configuration 	
Name	Value
Host Name Password Operating Mode	RX001133 •••• Video Distribution priority
	<u>.</u>
► NTP Name	Value
NTP Time Synchronization NTP Server Name	Disable V
 Scheduled Reboot Name 	Value
	Value
Scheduled Reboot Reboot Time	Disable ∨ 0 ∨
	Submit
► Time	
Name	Value
Local Time Zone System Time Browser Time	0:00 2022/01/06 16:36:59
browser fille	2022/01/06 16:36:49

You can change the following values:

- Host name and password
- Priority of Multicast distribution function over Store and Play function
- NTP server setting for the device system time
- Time information of the web browser to update the system time
- Periodic restart schedule

Advanced Configuration - Network Configuration

Network Configuration	
etwork Configuration	
► Wired LAN Configuration	
Name	Value
DHCP IP Address Subnet Mask Default Gateway	Enable 0.0.0.0
► Common	
Name	Value
DNS Server (Primary) DNS Server (Secondary)	0.0.0.0
	Submit

Enter the network information.

Advanced Configuration - Video/Audio Configuration

ideo/Audio Configuratio	n		• • •	
Audio Configuration				
 Video Configuration Name 	Value			
Digital/Analog Analog Input Codeo Size(KB) Frame Rate Video/Audio Recovery Level	Digital ∨ mode1 ∨ 188 30fps ∨ 3			
Analog Resolution Configuration				
Resolution	H.Position	V.Position	Clock	Phase
640×480	0	0	0	0
720x480p	0	0	0	0
800×600	0	0	0	0
1024×768	0	0	0	0
 Audio Configuration 				
Name	Value			
Volume	23			

Enter parameters for video and audio signals.

Advanced Configuration - Node Configuration

(MV-500T)

Node Configuration		
► Node Configuration		
Name Node Expiration Time (sec)	Value	
	·	Submit

Set the length of time for MV-500T to determine whether or not a disconnected node can return to the network.

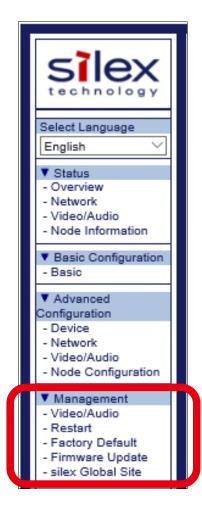
(MV-500R)

Node Configuration		
e Configuration		
-		
Node Configuration		
Name	Value	
Node List Method	Dynamic(Multicast) ∨	
Static Node 0	0.0.0.0	Mcast V
Static Node 1	0.0.0.0	Mcast V
Static Node 2	0.0.0.0	Mcast V
Static Node 3	0.0.0.0	Mcast V
Static Node 4	0.0.0.0	Mcast V
Static Node 5	0.0.0.0	Mcast V
Static Node 6	0.0.0.0	Mcast V
Static Node 7	0.0.0.0	Mcast V
		;
		Submit
		Submit

Specify how the MV-500R connects with transmitters.

Device Management Page

You can remotely control MV-500T/MV-500R on the device management pages. Click the left menu to access the management tools.





The following images are screenshots of MV-500T's webpages, which consist of different setting items from MV-500R's.

Note

Cooperation Configuration (MV-500R only)

ration Configuration		
 Cooperation Mode 		
Name	Value	
Priority Mode	● Prioritize School Broad ○ Prioritize Lesson	cast
Connection Type		
Name		Value
How to connect to this ma	achine's LAN (information outlet)	● Connect directly ○ Connect indirectly via classroom AP
MAC address of the coop	erating classroom AP	00:00:00:00:00:00
SX-ND-5370AC - SKY-AP	-303AC, etc. This setting is necessar	y only when cooperating with classroom AP with

You can give a preference to MV-500 (Prioritize School Broadcast) or a classroom access point (Prioritize Lesson).

Video/Audio

(MV-500T)

Video/Audio		
► Video Auto Adjustment	Start	

You can execute the screen auto-adjustment function for MV-500T.

(MV-500R)

II Video/Audio		
Video/Audio		
► Startup Screen 0 Byte		Delete
	Browse	Upload
 Standby Screen 0 Byte 		Delete
	Browse	Upload
L		

You can upload screen images for MV-500R: one is displayed at the start and the other is displayed when video signals are interrupted.

Node Control (MV-500R only)

		• •	
Node Control			
Node Control			
► Node Control			
Group Number	Host Name	IP Address	MAC Address
001122	TX001122	192.168.1.1	84:25:3F:00:11:22
_			Submit

You can switch transmitters as a video source.

• This function can work only when the **Node List Method** is set to **Dynamic**. The **Static** option disables the function and does not allow you to switch transmitters.

Restart

TIP

		•	•		•
# Restart			••		•
Restart					
Are you su	re to restart the device?	Yes	No		

Click Yes to restart MV-500T/MV-500R.

microSD (MV-500R only)

	• •	
■ microSD		
Data maintenance		
Data maintenance		
Name	Value	
Data maintenance Time to Run Maintenance	Enable ~ 0 ~ : 00 ~	
L		Submit
1		

You can enable the process of safeguarding the data in the inserted microSD card.

Factory Default

The Freedom and Defendit	• •	
E Factory Default		
Factory Default		
Are you sure to load the factory	r default?	
	Yes No	

Click **Yes** to reset MV-500T/MV-500R to the factory default settings.

Firmware Update

II Firmware	Update		••			•
Firmware Update						
For information or Click [Brow When finis	vse] and select the firmw hed, click [Update]. e a while to upgrade the	ion, visit our homepage(ht vare update file saved on y	our PC.).		
	New Firmware :			Browse		
					Update	

You can update MV-500T/MV-500R's firmware to the latest one available on Silex's web site. (You must download it beforehand.)

Click **Browse** and choose the firmware update file.

Click **Update** to start updating the firmware.

silex Global Site

Click **silex Global Site** on the left menu to open Silex's web site.

6-7. Adjusting Image Position

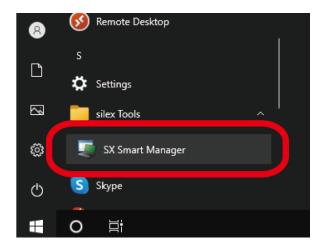
This chapter explains how to fix misalignment of images sent by MV-500T.



- This adjustment takes effect while MV-500T are connecting to a video source via an analog cable.
- This is only for misalignment of images. Do not go through the following steps when images are displayed in an appropriate position.

Screen Adjustment with Setting Management Software

- **1.** Connect a video camera or PC to MV-500T by using an analog cable. Play a video (or a still image) and pause it. Display a blank white image in Full-screen mode.
- **2.** Click **SX Smart Manager** on the start menu of the PC_{\circ}



3. Choose MV-500T that you want to correct a misalignment of the images, right click and select **Control - Video Control - Auto Video Adjustment** from the menu.

🗐 SX Smart Manage	r Pro							- 0	×		
<u>F</u> ile <u>E</u> dit <u>V</u> iew	Operation Log	O <u>p</u> tion	<u>H</u> elp								
🗏 🧐 🖒 🖻 🍳	uick Filter:		¢								
Standard Custom	Model	Host Name	Alias	IP Address	MAC Add	ress	Group	Status			
🚞 All Nodes (9)	R MV-500R	RX001133		192.168.1.4	84:25:3F:	00:11:3	33 3F001133	Online			
Groups	R MV-500R	RX001134		192.168.1.5	84:25:3F:	00:11:3	34 3F001134	Online			
L 🙀 924A7CA4 (7)	R MV-500R	RX001135		192.168.1.6	84:25:3F:	00:11:3	35 3F001135	Online			
Models	R MV-500R	RX001136		192.168.1.7	84:25:3F:	00:11:3	36 3F001136	Online			
MV-500R (6)	R MV-500R	RX001137		192 168 1 8	84-25-3E-	00-11-1		Online			
_	MV-500R	RX001138		192.168.1.9	84:25:3F:			Online			
	T MV-500T	TX001	Status	E	nter	<u> 30:11:</u>		No Video S			
	T MV-500T	TX001	Edit Configu	ration Alt+E	nter	00:11:2		No Video S			
	MV-500T	TX001	Bulk Configu	iration	•	00:11:2	24 3F001124	\rm No Video S	signal Inp		
			Web Interfac	e Ct	rl+E						
			Control		×		Video Control		•	Maintenance Mode	Þ
Level Time	MAC Ad	Idress /	Alias / Host I	Message		1	Restart	Ctrl+	-R	Auto Video Adjustment	
i) Infor 1/7/2022 \$	5 47 AM 84:25:3F	F:00:11:36	RX001136	Sending configura	ation data re		Factory Default	Configuration	.	Upload Screen	
i) Infor 1/7/2022 9		:00:11:37	RX001137	Restarting reques	t is in proce		Firmware Updat	e			
i) Infor 1/7/2022 \$:50:+										
C									>	1	



 You can also select Operation - Control - Video Control - Auto Video Adjustment on the menu bar to adjust the screen for the selected MV-500T.

4. When the screen auto-adjustment function ends successfully, the log/message area displays the end message.

🗊 SX Smart Manag	er Pro						- 🗆	\times
<u>File Edit View</u>	Operation Lo	g O <u>p</u> tion	<u>H</u> elp					
= 🗞 🗞 e	Quick Filter:		\$					
Standard Custom All Nodes (9) Groups L5 L5 924A7CA4 (7) Models MV-500T (3) L MV-500R (6)	Model MV-500R MV-500R MV-500R MV-500R MV-500R MV-500R MV-500T MV-500T MV-500T	Host Name RX001133 RX001134 RX001135 RX001136 RX001137 RX001138 TX001122 TX001123 TX001124	192. 192. 192. 192. 192. 192. 192. 192.	ddress 168.1.4 168.1.5 168.1.6 168.1.7 168.1.8 168.1.9 168.1.9 168.1.1 168.1.2 168.1.3	MAC Address 84:25:3F:00:11:33 84:25:3F:00:11:34 84:25:3F:00:11:35 84:25:3F:00:11:36 84:25:3F:00:11:37 84:25:3F:00:11:38 84:25:3F:00:11:28	Group 3F001133 3F001134 3F001135 3F001136 3F001137 3F001138 3F001122 3F001123 3F001124	Status Conline Conline Conline Conline Conline No Video No Video No Video	Signal I
	<							
evel lime	MAC A	ddress	Alias / Host	Message				ode
i) Infor 1/7/2022	9:50:47 AM 84:25:3	F:00:11:36	RX001136	Sending co	onfiguration data reque	st is in process	20	061
-	9:50:47 AM 84:25:3	F:00:11:37	RX001137	Restarting	request is in process		20	081
<u> </u>	9:50:47 AM 84:25:3	F:00:11:38	RX001138	_	request is in process		20	081
Comp 1/7/2022	1:52:01 PM 84:25:3	F:00:11:22	TX001122	A/V contro	I(Auto video adjustmen	t) is complete.	2	302
C Log Queue								>
elected: MV-500T IP	Address: 192.168.1.1				Tota	al: 2 nodes A	II Nodes Auto Scr	oll On

Screen Adjustment from MV-500T Webpage

- **1.** Connect a video camera or PC to MV-500T by using an analog cable. Play a video (or a still image) and pause it. Display a blank white image in Full-screen mode.
- **2.** Access MV-500T's webpage.



See How to Access Webpage in 6-6. Maintenance in Web Interface.

- 3. Click Management Video/Audio on the left menu.
- 4. Click Start under Video Auto Adjustment to start the video auto-adjustment function.

I Video/Audio	
Video/Audio	
 Video Auto Adjustment 	Start

When the video auto-adjustment function ends successfully, the following massage appears.

Video/Audio	
Video/Audio	
Video Auto Adjustment	
	Failed to adjust video

A. Appendix

A-1. Setting Items

Some of the setting items take effect only for MV-500T or MV-500R. In the following tables, MV-500T and MV-500R are referred to as TX and RX respectively.

Device Configuration					
		TX: Yes	RX: Yes		
		SX Smart Manager	Basic		
Host Name		setting item	Advanced		
		Web page	Basic		
		setting item	Advanced		
Description	Sets the host name.				
Value/Range	Any character string (up to 15 alphanumeric characters)				
Default value	Prefix (TX for MV-500T and RX for MV-500R) + Last 6 dig	its of the MAC address			
		TX: Yes	RX: Yes		
		SX Smart Manager	Basic		
Password		setting item	Advanced		
		Web page	Basic		
		setting item	Advanced		
Description	Sets the password.				
Value/Range	Any character string (up to 7 alphanumeric characters or symbols)				
Default value	None				

(Continued) Device Configuration					
		TX: No	RX: Yes		
		SX Smart Manager	Advanced		
Operating	Mode	setting item	Auvanceu		
		Web page	Advanced		
		setting item	Advanced		
Description	Gives a preference to MV-500T's data or the stored cont	ent in the microSD card.			
Value/Range	Video Distribution priority / Store & Play priority / Video	Distribution only / Store &	Play only		
Default value	Video Distribution priority				
Note	Video Distribution priority:				
	Plays the received data first when MV-500R finds content to play in the microSD card and receives data				
	from MV-500T at the same time.				
	Store & Play priority:				
	Plays the microSD card's content first when MV-500R fin	ids content to play in the r	nicroSD card and		
	receives data from MV-500T at the same time.				
	Video Distribution only:				
	Plays only the data received from MV-500T. The microSE	O card's content will not be	e played back.		
	Store & Play only:				
	Plays the only content stored in the microSD card. The re	eceived data will not be pl	ayed back.		
		TX: Yes	RX: No		
		SX Smart Manager	Advanced		
Video/Aud	io	setting item	Advanced		
		Web page	Advanced		
		setting item			
Description	Specifies the import mode for video/audio data.				
Value/Range	Video/Audio dependent / Video only / Audio only / V	Video/Audio dependent / Video only / Audio only / Video/Audio independent /			
	Video/Audio disabled				
Default value	Video/Audio dependent				

NTP TX: Yes RX: Yes SX Smart Manager Extra NTP Time Synchronization (MV-500R only) setting item Web page Advanced setting item Description Enables/Disables the time synchronization using the NTP function. Value/Range Enable / Disable Default value Disable TX: Yes RX: Yes SX Smart Manager Extra NTP Server Name (MV-500R only) setting item Web page Advanced setting item Description Specifies the host name or IP address of the NTP server. Value/Range Any character string (up to 63 characters) or IP address (0.0.0.0 - 255.255.255.255) Default value None

Schedule	d Reboot					
		TX: No	RX: Yes			
		SX Smart Manager	Extra			
Scheduled	Reboot	setting item				
		Web page	Advanced			
		setting item	Advanced			
Description	Enables/Disables the restart function at the specified t	Enables/Disables the restart function at the specified time.				
Value/Range	Enable / Disable					
Default value	Disable	Disable				
Note	To enable this function, enable NTP Time Synchroniz	ation and specify NTP Serv	er Name so that the			
	system clock is synchronized with NTP. If NTP Time Sy	nchronization is set to Dis	able, Scheduled			
	Reboot will not be executed.					
		TX: No	RX: Yes			
		SX Smart Manager	Extra			
Reboot Tin	ne	setting item	EXIT			
		Web page	Advanced			
setting item						
Description	Specifies the time for Scheduled Reboot .					
Value/Range	0:00 - 23:50 (set by 10 minutes)					

Time					
		TX: Yes	RX: Yes		
		SX Smart Manager	Advanced		
Local Time Z	lone	setting item	Advanced		
		Web page	Advanced		
		setting item	Advanced		
Description	Sets the time zone.				
Value/Range	-12:00 to +12:00 (set by one hour)				
Default value	+9:00				
		TX: Yes RX: Yes			
		SX Smart Manager	None		
System Time		setting item	None		
		Web page	Advanced		
		setting item	Advanced		
Description	Synchronizes the system clock with time information se	nt by a web browser.			
Value/Range	Note: This setting item synchronizes the system clock or	nly with time information	sent by a browser, not		
	with a fixed value.				
Default value	None				
Note The system clock will stop when the internal battery that stores the date and time is dead after MV-					
	500T/MV-500R is off for a long time. Until MV-500T/MV-500R is powered on and the clock battery is				
	recharged, this System Time will keep the date and time	when the battery is dead			

		· · · · · · · · · · · · · · · · · · ·	
Network C	Configuration - Wired LAN Conf	iguration	
		TX: Yes	RX: Yes
		SX Smart Manager	Basic
DHCP		setting item	Advanced
		Web page	Basic
		setting item	Advanced
Description	Enables/Disables DHCP for IP address assignment.	v	
Value/Range	Enable/Disable		
Default value	Enable		
		TX: Yes	RX: Yes
		SX Smart Manager	Basic
IP Address		setting item	Advanced
		Web page	Basic
		setting item	Advanced
Description	Sets the IP address.		
Value/Range	0.0.0.0 - 255.255.255.255		
Default value	0.0.0.0		
		TX: Yes	RX: Yes
		SX Smart Manager	
Subnet Ma	sk	setting item	Advanced
		Web page	
		setting item	Advanced
Description	Sets the subnet mask.	settingitem	
Value/Range	0.0.0.0 - 255.255.255.255		
Default value	0.0.0.0		
	•	TX: Yes	RX: Yes
Default Gateway		SX Smart Manager	
		setting item	Advanced
		Web page	
		setting item	Advanced
Description	Sets the default gateway.	setting item	
Value/Range	0.0.0.0 - 255.255.255		
Default value	0.0.0.0		
2 shall value			

Common			
		TX: Yes	RX: Yes
		SX Smart Manager	Extra
DNS Server (Primary)	setting item	EXIT
		Web page	Advanced
			Auvanceu
Description	Sets the primary DNS server address.		
Value/Range	0.0.0.0 - 255.255.255.255		
Default value	0.0.0.0		
		TX: Yes	RX: Yes
		SX Smart Manager	E .
DNS Server (Secondary)	setting item	Extra
	•	Web page	Advanced
		setting item	Auvanceu
Description	Sets the secondary DNS server address.		
Value/Range	0.0.0.0 - 255.255.255.255		
Default value	0.0.0.0		

Video Confi	guration		
		TX: Yes	RX: No
		SX Smart Manager	D
Video Mode ⁻	Table	setting item	Basic
		Web page	
		setting item	Basic
Description	Gives a priority to video smoothness or image quality.		
Value/Range	Custom / Movie30 / Movie20 / Movie15 / Picture10 / Picture5 / Picture3 / Picture2 / Picture1		
Default value	Movie30		
Note	To set Custom in the Basic Configuration , the video parameters must be defined in the Advanced		
	Configuration.		
		TX: Yes	RX: No
		SX Smart Manager	Basic
Digital/Analo	pq	setting item	Advanced
	5	Web page	Basic
		setting item	Advanced
Description	Selects Digital or Analog depending on input signals from a video source.		
Value/Range	Digital / Analog		
Default value	Digital		

(Continue	d) Video Configuration		
		TX: Yes	RX: No
Analog Input		SX Smart Manager	
		setting item	Advanced
		Web page	
		setting item	Advanced
Description	Selects the mode to identify analog video signals.		
Value/Range	mode1 (PC mode) / mode2 (TV mode)		
Default value	mode1		
Note	Difference of the modes:		
	<mode1 (pc="" mode)=""></mode1>		
	- Sets the screen in 640 x 480 for videos in an analog	resolution of 640 x 480 or 72	20 x 480.
	<mode2 (tv="" mode)=""></mode2>		
	- Sets the screen in 720 x 480 for videos in an analog	resolution of 640 x 480 or 72	20 x 480.
		TX: Yes	RX: No
		SX Smart Manager	
Codec Size	(KB)	setting item	Advanced
		Web page	
		setting item	Advanced
Description	Sets the image size (image quality) per video frame.		•
Value/Range	32 to 1024 (KBytes)		
Default value	168		
		TX: Yes	RX: No
		SX Smart Manager	
Frame Rate		setting item	Advanced
		Web page	
		setting item	Advanced
Description	Sets the frame rate for the sending videos.		
Value/Range	30fps / 20fps / 15fps / 10fps / 5fps / 3fps / 2fps / 1fps		
Default value	30fps		
		TX: Yes	RX: No
		SX Smart Manager	
Video/Audi	o Recovery Level	setting item	Advanced
		Web page	
		setting item	Advanced
Description	Sets a level to compensate for the network data losse		l.
	The larger value reduces video/audio lags that occur	because of data losses. The s	maller value reduces
	the latency of video/audio but may cause communication	ation interruption in the wire	eless network. Leave
	the default value in most cases.		
Value/Range	0 to 3		
Default value	3		

Video/Audi	o Configuration - Analog Resolut	tion Configurat	ion
		TX: Yes	RX: No
		SX Smart Manager	
H. Position		setting item	Advanced
		Web page	
		setting item	Advanced
Description	Sets the horizontal video capture position for each resol		
	The position moves to left with the smaller value and to	right with the larger value	2.
Value/Range	-100 to 100		
Default value	0		
		TX: Yes	RX: No
		SX Smart Manager	
V. Position		setting item	Advanced
		Web page	
		setting item	Advanced
Description	Sets the vertical video capture position for each resoluti	on.	
	The position moves up with the smaller value and move	es down with the larger va	lue.
Value/Range	-50 to 50		
Default value	0		
		TX: Yes	RX: No
		SX Smart Manager	
Clock		setting item	Advanced
		Web page	Advanced
		setting item	Advanced
Description	Sets the sampling frequency of the video signals.		
Value/Range	-128 to 127		
Default value	0		
		TX: Yes	RX: No
		SX Smart Manager	
Phase		setting item	Advanced
		Web page	
		setting item	Advanced
Description	Changes the clock phase that samples video signals.		
Description	-·····		
Value/Range	0 to 31		

Video/Audio Configuration - Audio Configuration				
		TX: Yes	RX: No	
Volume		SX Smart Manager setting item	Advanced	
		Web page setting item	Advanced	
Description	Sets the audio volume (recording) level.		•	
Value/Range	0 (muted) to 45			
Default value	23			

Node Confi	guration		
		TX: Yes	RX: No
		SX Smart Manager	
Node Expira	tion Time (sec)	setting item	Advanced
		Web page	Advanced
		setting item	Advanced
Description	Sets the time limit of disconnected nodes to return to the	ne network.	
Value/Range	AUTO / 60 / 300 / 1800 / 3600		
Default value	AUTO		
		TX: No	RX: Yes
		SX Smart Manager	
Node List Me	ethod	setting item	Advanced
		Web page	Advanced
		setting item	Auvanceu
Description	Chooses the node detection method.		
Value/Range	Dynamic(Multicast) / Dynamic(Unicast) / Static		
Default value	Dynamic(Multicast)		
Note	Choosing Static requires the configuration of nodes from	m Node 0 to Node 7.	
		TX: No	RX: Yes
		SX Smart Manager	Advanced
Static Node	0 – 7	setting item	Advanced
		Web page	Advanced
		setting item	
Description	Specifies IP addresses for Static Node .		
Value/Range	0.0.0.0 to 255.255.255		
Default value	0.0.0.0		

Cooperati	on Configuration			
cooperati	on connigulation			
		TX: No	RX: Yes	
		SX Smart Manager	Name	
Priority Mo	de	setting item	None	
,		Web page		
		setting item	Management	
Description	Gives a preference to MV-500 (Prioritize School Broa	dcast) or a classroom ac	cess point (Prioritiz	
	Lesson) for coming video signals.			
Value/Range	Prioritize School Broadcast / Prioritize Lesson			
Default value	Prioritize School Broadcast			
		TX: No	RX: Yes	
How to Co	nnect to this machine's LAN	SX Smart Manager		
	meet to this machine's LAN	setting item	None	
(informatio	on outlet)	Web page		
		setting item	Management	
Description	This needs to be set when the device link has been conf	figured and the connectin	g device is one of	
	Silex's classroom APs equipped with two LAN ports . You	u can choose either conne	cting MV-500R or the	
	classroom AP to an Ethernet wall jack.			
	This setting item is available with the firmware v1.5.0 or later.			
Value/Range	Connect directly / Connect indirectly via classroom AP			
Default value	Connect directly			
		TX: No	RX: Yes	
		SX Smart Manager		
MAC addre	ss of the cooperating classroom AP	setting item	None	
		Web page		
		setting item	Management	
Description	When How to Connect to this machine's LAN has bee	5	via classroom AP the	
	specified MAC address will be searched. This setting item is available with the firmware 1.5.0 or later.			
Value/Range	00:00:00:00:00 - FF:FF:FF:FF:FF			

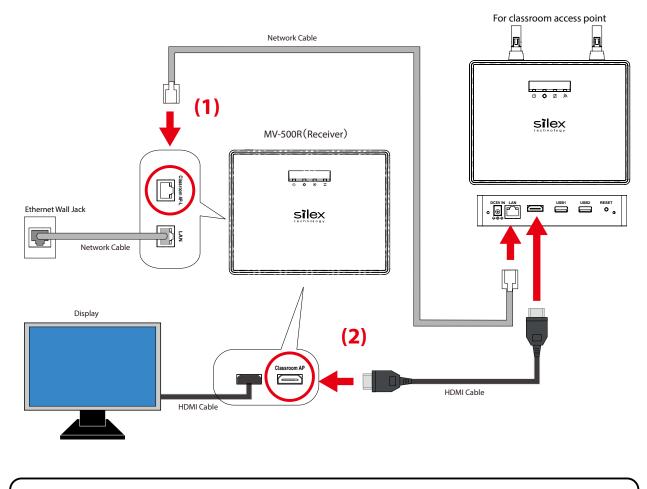
Data maintenance				
		TX: No	RX: Yes	
		SX Smart Manager		
Data mainter	nance	setting item	None	
		Web page	Managament	
		setting item	Management	
Description	Enables/Disables the data safeguarding function that reduces data loss for microSD card. This setting			
	takes effect after a restart.			
Value/Range	Enable/Disable			
Default value	Enable			
		TX: No	RX: Yes	
		SX Smart Manager	None	
Time to Run	Maintenance	setting item	None	
		Web page	Management	
		setting item		
Description	Specifies the time for the data safeguarding process. This setting takes effect after a restart.			
Value/Range	0:00 - 23:50 (Set by 10 minutes)			

A-2. Link with Classroom Access Point

MV-500R can be linked with Silex's classroom access points. See Silex's web site (<u>https://www.silextechnology.com/</u>) for what models are supported.

How to Connect Classroom Access Point

Connect a classroom access point to MV-500R as the following diagram shows. Insert one end of a network cable into MV-500R's **Classroom AP-L** network port, and the other end into the access point's LAN port. Insert one end of an HDMI cable into MV-500R's **Classroom AP HDMI** connector, and the other end into the access point's HDMI port.



• MV-500R and the classroom access point must be connected with an HDMI cable and a network cable, otherwise the display cannot show videos from the access point.

TIP

Display Priority

The priority is given to videos sent from the school AV broadcast system. When multicast real-time streaming data arrives or the Program Preset Function plays a scheduled program while MV-500R is playing images sent from a classroom access point, it will display videos from the school AV broadcast system.

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