

# SN-500 MANUAL

Model: AVTMS-B2, AVTGMS-B2 AVTXMS-C2, AVTGXMS-C2 AVTXMS-C3, AVTGXMS-C3

2018-11

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# **1. FUNCTION OVERVIEW**

- 1. Support PC and SD card integrated control; work with EN-508 series controller, can switch freely between PC control and SD card control which is flexible and convenient.
- 2. When SN-500 works as main controller in SD card control system, the effects of sub-controller on the same link can be changed by just changing the effects in its SD card. The SD card file cannot be renamed.
- 3. Each SN-500 can control 100,000 pixel and 154 controllers.
- 4. SN-500 controller system cannot use the same software to output multiple lighting fixtures at the moment. Please contact with our engineer first if necessary.
- 5. Audio control, voice control, cascade, DMX512 decoding, time controller, GPS atellite sync and mobile WIFI control are optional as additional functions.
- 6. Specialized software of making animation is included, users can make their own effects.

# 2. TECHNICAL PARAMETERS

# **2.1 PRODUCT INFORMATION**

Size:	330L×200W×46H (mm)
Input voltage:	AC 100V - 240V
	[Cascade of SN] optocoupler
Input signal:	[PC - SN, SN-EN, EN – EN] SW Ethernet Protocol
Ethernet:	RJ45 Ethernet interface
Output control:	154 controller at most (sugust within 80).
Work power:	<5W
Working temperature:	-15°C~60°C
Relative humidity:	≤ 50% RH
Transmission distance:	Use UTP—unshielded twisted pair cable, distance between the controllers can be 100m.
	Please use the other program if the distance of SN cascade over 100m.
	For further distance of SW Ethernet Protocol, fiber converter can be used and the
	distance can reach 5 km.
IP grade:	IP0 (not dustproof and not waterproof)
Working environment:	Please install under dry indoor condition, avoid any dust, moist and rain.
Weight:	2600g (N.W. 2300g)
Accessories attached:	×1, ×1, ×1
Fittings for additional functions:	$(1m)\times 1$ , $(1m/cascade)\times 1$ , $(2m)\times 1$ (Only use with corresponding functions.)

# 2.2 ERROR CODE

Explanation of controller error:

Error	· Introduction	Reason
01	No SD card	Poor seat connection. / No SD card.
02	SD card no response	Card is broken. / Card doesn't support read sequentially.
03	Cannot reset SD card	Card is broken. / Card doesn't support read sequentially.
04	Cannot activate SD card	Card is broken. / ard doesn't support read sequentially.
05	Cannot read SD card	Cannot read part of the card. / Bad connection.
06	Cannot find feature code	Card is unformatted. / No files.
07	SD card file sequence doesn't match the controller	SD card file error. / Unfinished video synthesis.
09	Control sequence doesn't match file sequence	Player setting does not match the cover number.
10	Wrong password	Input wrong password.
11	UID does not match	UID on main controller does not match the one on slave controller in cascade.
12	UID error in Confit file	UID on Confit file does not match the one on controller.
13	Controller is not fully unlocked	When controller is reading Confit file, it is not fully unlocked.
14	UID error on SD card	UID on SD card does not match the one on controller.

# 2.3 LOAD EN CAPACITY OF SN

Speed	Frama	QTY' load EN		The pixels of each En port (Unit:pixel)						
of SN	Frame	EN-402	EN-508 EN-408	Single channel	Double channel	3 channels	4 channels			
2	50fps	32	8							
3	33fps	52	13							
4	25fps	76	19	within 1006	within 503	within 335	within 251			
5	20fps	96	24	WICHIN 1000	within 505	WICHIN 555	WICHTH 201			
6	17fps	120	30							
7	14fps	140	35							
2	50fps	16	4							
3	33fps	24	6							
4	25fps	36	9	1007-2012	504-1006	226-670	252-502			
5	20fps	48	12	1007 2012	304 1000	330-070	232-303			
6	17fps	60	15							
7	14fps	68	17							
2	50fps	8	2							
3	33fps	16	4		1007 1500	671-1006				
4	25fps	24	6	2012-2018			504-754			
5	20fps	32	8	2013-3018	1007-1309		504-754			
6	17fps	40	10							
7	14fps	44	11							
2	50fps	8	2							
3	33fps	12	3							
4	25fps	16	4	2010-2840	1510-1020	1007-1280	755-960			
5	20fps	24	6	3019-3840	1010-1920	1007-1200	755-900			
6	17fps	28	7							
7	14fps	32	8							

# **3. CONNECTION MODE**

# **3.1 INPUT INSTRUCTION**

	OFF AC 100V-240V 3	a 3b 3c 3d	GPS AUDIO
	ON		10 11
	Port/Indicator light	Function description	备注
1	Switch (ON/OFF)	Switch of power supply.	
2	AC100V-240V	Connect with power (AC100V-240V).	
3	Signal indicator	<ul> <li>a. Heartbeat light of system, twinkle 1 time in 1 second.</li> <li>b. Data light of SN, it is twinkling with the data output to EN controller.</li> <li>c. Neglect.</li> <li>d. Data light of PC, it is twinkling with receiving the Pcdata.</li> </ul>	
4	SD	SD card deck (input the SD card when the controller at work). The yellow light at left shines while the controller is working online. The yellow light at right shines while the controller is working offline.	
5	network cable port (OUT-EN)	In PC control system or SD card control system, connect with input port (IN) of EN-508 sub-controller.	ALL the cables at both ends of the
6	network cable port (PC)	In PC control system, connect to PC wired network cable port in series. "PC" network cable port is not used in SD card control system.	network are T568B.
7	network cable port (IN-SN)	Insert network cable, signal input, connect with previous SN controller as a series.	
8	network cable port (OUT-SN)	Insert network cable, signal output, connect with next SN controller as a series or no need.	
9	DMX-512	DMX512 XLR Male, connect with DMX512 controller.	
10	GPS	GPS port, put the GPS antenna in it and receive the synchronous satellite signals.	
11	AUDIO	Audio cable port, plug one end of audio line into AUDIO port, and plug the other end into music player.	

# **3.2 CONNECTIOIN DIAGRAM OF CONTROLLER**



Output lighting fixtures cable refer to Signal Cables Connection Notes.

# SN\_Offline with GPS Synchronization Digram:



RJ45(T568B) UTP network cable must less than 100m. It will be 5kms with optical fiber. Output lighting fixtures cable refer to Signal Cables Connection Notes. Fiber Converter Connection Diagram:



Within 100m

N0.	Material	Standard	Connection Port	Transmission Distance	Connecting Device			
1			PIAE potwork cable plug		PC and SN controller, SN controller and ethernet switch			
2	Network cable	Straight cable	(crystal head)	Within 100m	Ethernet switch and optical fiber converter Ethernet switch and EN controller Optical fiber converter and EN controller			
3			(1566b line sequence)					
4	1				EN controller and EN controller			
5	Optical fiber	Fiber converter (one pair)	Optical fiber patch cable (LC-SC single mode)	Within 5km	Optical fiber converter and optical			

# **3.3 GPS ANTENNA NOTES**

Within 100m

2m GPS antenna is provided. User can also purchase GPS marine antenna with standard SMA interface according to on-site engineering requirement. The longer the antenna is, the larger the difficulty of searching satellite will be.

- a) GPS Antenna should be installed in open space to guarantee view angle within 30 degree, there is no big shades (such as trees, iron towers, buildings etc.). GPS Antenna should be more than 2m away from the metal objects which size is bigger than 20cm.
- b) For the satellite appears on the equator more than other places, in the North Hemisphere, you'd better put the GPS antenna south of the installation place.
- c) Please don't put GPS antenna around other transmitting and receiving equipment to avoid other transmitting antenna direction point to GPS antenna. Please keep them 2m away with each other. Suggesting install different GPS antenna in different places to avoid disturbing.



# **3.4 WIFI ANTENNA NOTES**

- a) Please try to keep WIFI Antenna perpendicular to the floor.
- b) Wall, glass and interval would reduce WIFI signal rapidly during transmission. Besides, external electromagnetic interference (EMI) could lead to signal interruption, short transmission distance, failed connection and related problems. Therefore, the distance between mobile phone and WIFI antenna cannot be too long which should be less than 30m without blocks. (Estimate strength of WIFI signal according to WIFI signal bar on the controller.)
- c) Controller can only be controlled by ONE mobile APP. Also, one mobile APP can only control ONE controller.

# 4. BASIC OPERATION



SN-500 controller without the EN controllers.



 $SN\mathcal{-}500$  controller within the EN controllers.

★ Make sure the controllers are connecting by rule and line. There are exact SD card file in SD card. It cannot rename the SD card file.

# 4.2 BUTTONS FUNCTION

Button	Function	Explanation
MENU	Menu key	Selection picture, audio control, Voice control+audio mode. Hold press 2 seconds to enter menu setting.
SPD/EN	speed key confirm key	Common mode: 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 15, 20, 30, 50, 80, 99. Press it to save current setting on the menu setting.
MODE <	mode-key	Mode minus selection. Long press can be quickly change.
MODE	mode+key	Mode add selection. Long press can be quickly change.

# **4.3 INTERFACE INTRODUCTION**

		Display	Explanation
		Mode	Current display mode.
		Speed	Current display speed.
501/55	- WE	TUE.	Day of the week.
PUWER 😐	RI. 05 MAIN 👸	10.000000000000000000000000000000000000	Wait to enter SD card time control status. It shows the
WORK •	lode 07 FRI.	SD	n <sup>th</sup> time control list when it entered SD card time control status.
	peed 05 04/26	((()	Controller is connected with mobile APP thus it is controllable.
		WF	Wait to enter WIFI time control status. It shows the n <sup>th</sup> time control list when it entered WIFI time control status.
	MENU SPD∕EN MODE◀ MODE►	19:01:30	Current setting Beijing time.
		02/28	Date (MM/DD).
		G	Signal of searched CPS satellite. They can reach synchronization if they shows GO4. (There is no signal if it shows The value is the signal strength of searched GPS satellite. Higher values

Before turning on the controller, please well connected all signal cables, network cables and power cables of hardware, then turn on the power of main controller.

# **4.4 MODE SELECTION**

# 4.4.1 CONTROL MODE SWITCHING

Press "MENU" button, select audio control, voice control or pictures 3 control modes. When switch the mode, it will memorize previous effect of this mode and start to play.

Control Mode	Icon	Automatic Mode	Manual Mode (Default)	Remark
Voice Control	Ц	Automatic	01-19	User can set the quantity
Audio Control	5	Automatic	01-19	of effects by software.
Picture		Automatic	01-55 (+1) / 20-70 (+1)	No more than 96 effects.
Power o IR Work o Io Sync o Ip Men	I. 05 Mu de 07 FF 10 eed 05 04	AIN RI. 1:01:30 K/26 MODE MODE MODE	POWER O WORK O SYNC O SYNC O peed 05 G4, U SPD/EN MC	IIN Щ I. 201:30 /26 MODE►
Power • IR	Picture mo		Press "MENU" once to be	come voice mode.
WORK • Sync • ip	de 02 FF 10 eed 05 04	RI. 0:01:30 4/26		



## 4.4.2 EFFECT SWITCHING

Press "MODE ◀" and "MODE ▶" on control panel to select effects. (Apply to voice control, audio control and picture three control modes.) It can switch increased or decreased quickly with long press ""MODE ◀" or "MODE ▶".







Press "MODE  $\blacktriangleleft$ " twice, the mode is 4.

# ★ it is valid with the offline controller only.

# **4.5 SPEED SELECTION**

Press button "SPD/EN" on control panel to select play speed, the less the rate, the quicker the speed. it is valid with the offline controller only.

Parameters								Speed (	Displa	y							Notes
Main Control Speed	03	04	05	06	07	08	09	10	11	12	15	20	30	50	80	99	Independent Speed
Frame Rate(ms)	30	40	50	60	70	80	90	100	110	120	150	200	300	500	1000	2000	
Frame Per Secong	33	25	20	17	14	13	11	10	9	8	7	5	3	2	1	0.5	
Power • Work • Sync •	iR I Iodi ipe	. 05 e Auto ed 05	MAIN FRI. 10:01 04/26	: 30					I	Power • Work • Sync •	iR I Iod ipe	. 05 e Auto ed 20	MAIN FRI. 10:0' 04/20	  :30 5			
	MENU	SPD/EN	MODE	● <b>M</b> odi							MENU	SFE	N MODE	● <b>M</b> od	E		

The speed is 05.

Press "SPD/EN" 9 times, the speed is 20.

# 4.6 MENU SETTING



34 14	Menu	LED Display	Operation
	MAIN/SUB	MAIN / SUB	<ol> <li>Press "MODE</li></ol>
	DMX ADDR	DMX ADDRESS	<ul> <li>3) Press "SPD/EN" to save. And press "MENU" return to parent menu.</li> <li>1) Press "MODE</li></ul>
mer	TIME DATE	TUESDAY 00: 01 2017/02/28	<ol> <li>Press "MODE ◄" and "MODE ►" to select TIME DATE. Press "SPD/EN" enter.</li> <li>Press "MODE ◄" and "MODE ►" to select the currnet data. Press "SPD/EN" to save.</li> <li>Press "SPD/EN" 2 second to confirm the setting. And press "MENU" return to parent menu.</li> <li>The controller with GPS function cannot change the time and the date.</li> </ol>
ıu settir	Language	Chinese English	<ol> <li>Press "MODE ◄" and "MODE ►" to select LANGUAGE. Press "SPD/EN" enter.</li> <li>Press "MODE ◄" and "MODE ►" to select LANGUAGE diplay.</li> <li>Press "SPD/EN" to save. And press "MENU" return to parent menu.</li> </ol>
ы Б	BRIGHT.	Brightness 5	<ol> <li>Press "MODE ◄" and "MODE ►" to select BRIGHT. Press "SPD/EN" enter.</li> <li>Press "MODE ◄" and "MODE ►" to select brightness. 1 is the darkest, and 5 is the brightest.</li> <li>Press "SPD/EN" to save. And press "MENU" return to parent menu.</li> </ol>
	SENSTV.	Sensitivit 2	<ol> <li>Press "MODE ◄" and "MODE ►" to select SENSTV. Press "SPD/EN" enter.</li> <li>Press "MODE ◄" and "MODE ►" to select sensitivity. 0 is the dullest, and 5 is the strongest.</li> <li>Press "SPD/EN" to save. And press "MENU" return to parent menu.</li> <li>※ Apply to the controller with voice control or audio control only. Merged SD.BIN file must contain musical effects.</li> </ol>
	TIME CTL.	SD_CTL WiFi_CTL OFF	<ol> <li>Press "MODE ◄" and "MODE ►" select "TIME CTL", Press "SPD/EN" enter.</li> <li>Press "MODE ◄" and "MODE ►" select "SD_CTL", "WiFi_CTL", "OFF".</li> <li>Press "SPD/EN" to save. And press "MENU" return to parent menu.</li> </ol>
	Versions		Get the imformatiion of the current version.

#### Select function through "MODE ◀" and "MODE ▶". Details functions are shown as below:

# **5. ADDITIONAL FUNCTION**

### 5.1 AUDIO & VOICE CONTROL

It includes audio and voice control function.

Press "MENU" to transfer voice control or audio control. The effect of the two controls is same. Voice control and audio control quantity can be changed according client's needs. Please ensure there are .YEL/.YIN format effects in the software before merging files in SD card. Otherwise the audio/voice control will be unavailable.

Audio control

Connect controller with audio output equipment by audio line. Manual adjust to audio control mode. The controller will output Different audio color column based on voice volume. Higher volume, Higher color column. Lower volume, lower color column.

Audio line

Additional fittings:



When the controller is power off, plug one end of audio line into AUDIO port, and plug the other end into must player. Then switch on the power of controller and music player.Ensure the status is "Audio control". It can be seen the effect of lamp will change along with the rhythm of music.

Voice control

Controller with built-in microphone, put the controller near voice equipment and make the voice clear. Manually adjust to voice mode. Different audio color columns base on voice volume. Higher volume, higher color column. Lower volume, lower color column. Additional fittings: None



Voice control / audio control effects show:



Low volume

Medium volume

High volume

### 5.2 SENSITIVITY

- 1. Long press "MENU" for 2 seconds to enter MENU SETTING UP mode.

- 4. Press "SPD/EN" to save. And press "MENU" return to parent menu.

#### **X** Apply to the controller with voice or audio control only. Merged SD.BIN file must contain musical effects.



### **5.3 BRIGHTNESS**

- 1. Long press "MENU" for 2 seconds to enter MENU SETTING UP mode.
- 3. Press " MODE ◄ " and " MODE ► " select Brightness. (5 is 100% bright, 4 is 80%, 3 is 60%, 2 is 40%, 1 is 20%.)

4. Press "SPD/EN" to save. And press "MENU" return to parent menu.



POWER O	
WORK •	Brightness
SYNC •	5
N	IENU SPD∕EN MO

# **5.4 CASCADE FUNCTION**

If single controller cannot drive the whole project lights, can try cascade controllers. It connects Main controller with slave controllers by cables to make the whole project synchronization.

The normal controller (the model is MS.) should be set as sub controller.

- 1. Long press "MENU" to enter MENU SETTING UP.

#### Change "SUB" into "MAIN" at the end to set as main controller.



4. Switch off the controller. Plug a head of network cable into main controller "OUT", plug the other head into sub-controller "IN". Then restart the controller.

**Slave control S can only start to work by connecting to Master control.** CASADE controller uses high quality cables as connection, <u>the distance must be less than 100M</u>. GND and DATA signals only use Orange white + orange twisted pair wires. Clients can extend the cables or by clipping straight-through wires (cables two ends based on T568B).

The cless t	listance between casade contr han 100M.	rollers is	
Master Master		Slave	Prin Griffe

5. If there are 3pcs SN controller, each SN controller controls 5pcs, 9pcs and 5pcs EN controllers. Software settings are as below.

🚴 LED Player (2017	) - EN508_300W150H	- 🗆 🗙
Project Animati	ion Music Tools	Settings Output
SD-card control	() Cloud Server	Setup Param Project encryption
<ol> <li>Click "SD-card Control" to pop up</li> </ol>	SD-Card Control Settings	2. Set the number of SN controller.
"SD-card Control Settings" window.	SN-Controller in Total	Output Control       4. Set the number of EN-Controller that an SN master controller can be that an SN master controller can be
	Index 1 Index 2	Quantity of EN-Controller Controlled, press "Save" when finish.
	Index 3	ID 6       ID 7       ID 8       ID 9       ID 10       S. "Output"-"SD-card"         file-"SD-Copy" operations, save
	3. Select the SN controller.	ID 11       ID 12       ID 13       ID 14       ID 15       Ithe SD.bin file into corresponding SD card.         ID 16       ID 17       ID 18       ID 19       ID 19
> Flay Dause		Note: If all SN controllers use the same SD.BIN file , then no need to set this. Just follow "Output"-"SD-card"-"SD-Copy".
		Cancel Save

The ID of first EN controller which controlled by different SN controller needs to be set 1 by 1. E.g. As the picture shown above, ID6 EN controller should be set as ID6 manually; ID7 should be ID7, and so on.

# 5.5 DMX512 DECODING

#### User can adjust the effect, speed and brightness by DMX512 control console.

SN-500 can conect with DMX512 controller, but not the other SN-500 controller.

Male port receives the signal of DMX512 control console. Port Introduction:

P1 = GND; P2 = D-/B; P3 = D+/A

Address Setting:

- 1. Long press "MENU" for 2 seconds to enter MENU SETTING UP mode.

 $\square$  Formula of address setting: (N-1)\* 8 + 1. N represents the N<sup>th</sup> controller.

4. When address setting is finished, press "SPD/EN" to confirm, then press "MENU" to return to status of general mode.





Introduction of Push Rod of DMX Control Console:

#### Labei Diagram: DC Status

		01	7.			02		Ĭ		03	63	8		04	<u>.</u>	Ĩ		05	8	8	06		07	1			08		Ĩ
С.Я.	Sea	nsiti	vit	у		Spee	d			Effe	ct		Mode	(Ten	sdi	git)	(5)	Mod	e Li ai	÷		Sy	ne St	tati	us	Br	ight	nes	s
	Show	R	ang	e	Sho W	R	ang	le	Sho w	R	ange	e	Sho w	R	ang	ge	Sho w	R	ang	ge		Sho w	R	an	ge	Sho W	R	ang	je
	05	215	۲	255	99	240	2	255	Aud				09	225	~	255	09	225	~	255						05	204	~	255
					80	224	~	239	H o	470			-																
3					50	208	~	223	Cont	1/0	~	254	08	200	Ĩ	224	08	200	Ĩ	224									
	04	172	~	214	30	192	2	207	Hr ol				07	175		100	07	475		100		AC	128	~	255		150		202
			_		20	176	2	191					07	1/5	Ĩ	199	07	1/5	Ĩ	199						04	155	Ĩ	203
Pos					15	160	۲	175					06	150	~	174	06	150	~	174									
ii.	03	129	~	171	12	144	~	159	Voi				00	150		1/4	VO	150	3	1/4	1				- 3				
of					11	128	1	143	6	95	~	160	05	125	~	140	05	125	~	140						03	102	~	152
Pus					10	112	٢	127	ont	0.0	100	103	05	125		145	05	125	- 40	145						05	102	1.55	1.52
h R	02	86	~	128	9	96	2	111	ro_				04	100	~	124	04	100	~	124									
ad					8	80	~	95				_	04	100		124	04	100		124									
					7	64	2	79	-10				03	75	~	99	03	75	~	99						02	51	~	101
	01	43	~	85	6	48	~	63	ictu					~								DC	0	~	127	02		1.00	101
					5	32	~	47	Fr e	0	~	84	02	50	~	74	02	50	~	74									
				3	4	16	~	31	Con								02												
	00	0	~	42	3	0	~	15	trol				01	25	~	49	01	25	~	49						01	0	~	50
								-					00	0	~	24	00	0	~	24									

#### Labei Diagram: AC Status

		01				02				03	d.			04	a.			05	g		06		07	2			08								
Сн.	Set	nsiti	vit	у		Spee	ed			Effe	ct		Mode	(Ten:	sdi	git)	(c:	Mod	e 1::	4	-	Sy	nc St	atu	15	Br	ight	nes	s						
	Show	R	ang	e	Sho w	R	ang	le	Sho w	R	ange	e	Sho w	R	ang	le	Sho w	R	ang	ge		Sho w	R	ang	ge	Sho W	R	ang	je						
	05	215	~	255	99AC	224	~	255	Aud				09	225	~	255	09	225	~	255						05	204	~	255						
2						102			io Cont	170	~	254	08	200	~	224	08	200	~	224					8				3 3						
	04	172	~	214	SOAC	192	~	223	trol				07	175	~	199	07	175	~	199		AC	128	~	255	04	153	~	203						
P					20AC	160	~	191																											
sitio	03	129	3	171	1200	128	~	150	Voi				06	150	ĩ	1/4	06	150	ĩ	1/4	1				8				: C						
nof					12000	120		135	e C	85	~	169	05	125	~	149	05	125	~	149						03	102	~	152						
Push	02	0.0		100	10AC	96	~	127	ontr						-																				
Roa	02	00		128					μů				04	100	~	124	04	100	~	124					.8				5 3						
-	-				08AC	64	~	95				-																- 22							
	01	43	~	85	0640	32	~	63	Pict				03	75	ĩ	99	03	75	ĩ	99		DC	0	~	127	02	51	Ĩ	101						
2					UUAC	52		05	Hre C	0	~	84	02	50	~	74	02	50	2	74					8										
	00	0	~	42	04AC	0	~	31	ontro				01	25	~	49	01	25	~	49						01	0	~	50						
	00 0 ~ 4	42	42	42	42	42	~ 42	~ 42	42	42					Ĕ				00	0	~	24	00	0	~	24							12		

★ When the fastest speed of software is 5, it will display 5 in the controller even it is in 3-5. It will display accordingly from 6.

\* The channel will be blank if the controller doesn't have corresponding function.

# **5.6 TIME CONTROL**

It has time control function, SD card time control, GPS SYNC time control and mobile WIFI time control are optional.

X Maximum time control lists of player can be 100, and maximum 10 pcs of effects can be set in each list.

While switching on main controller, it will keep latest status of switching off previously.

If need to enter time control status, please switch it on manually and refer to the operations below. (The same of exit the time control.)

POWER

WORK

SYNC

SENSTV.

► TIME CTL

Versions

SPD/EN MODE

MENII

1. Press "MENU" to enter MENU setting up and select "TIME CTL".



2. Press "SPD/EN" to enter "TIME CTL" setting.





4. Llong press "MENU" to exit menu. The corresponding icon of time control status will display at the top right corner of LCD screen. It does not reach the time set in the software. The lighting fixture is off.





#### **★** Time control status can be seen at the top right corner of LCD screen.

Mode	Display	Description	Picture
SD-card ti	SD	Controller enters SD card time control status, but it does not reach the time set in the software. The lighting fixture is off.	IRI.05 MAIN <sup>SD</sup> Iode 97 FRI. 10:01:30 Speed 05 04/26
me control	SD 001	Controller enters SD card time control status and it reaches the time set in the software. The controller will switch to corresponding effect mode set in time control list.	IRI. 05 MAIN <sup>SD</sup> Iode 02 FRI. 10:01:30 Speed 05 04/26
WIFI tin	WF	Controller enters WIFI time control status but it does not reach the time set in the software. The lighting fixture is off.	IRI.05 ≪MAIN <sup>WF</sup> lode 97 FRI. 10:01:30 ipeed 05 04/26
ne control	WF 001	Controller enters WIFI time control status and it reaches the time set in the software. The controller will switch to corresponding effect mode set in time control list.	IRI.05 ≪MAIN 001 Iode 07 FRI. 10:01:30 ipeed 05 04/26
Normal	No icon 1	represents in the top right corner when exit time control.	IRI. 05 MAIN Iode AUTO FRI. 10:01:30 ipeed 05 04/26

★ Please download the latest version of time control software.

For any question, please don't hesitate to contact with us.

For the settings of WIFI time control, please refer to "WIFI Mobile APP User Manual".

## **5.7 REMOTE CONTROL**

# There is build-in remote control module. It can send wireless signal within 5-15m control distance. Speed and mode can be changed by remote controller.

Each remote controller is corresponding to one controller. The remote control will be unavailable if the number in remote controller does not correspond to the one in remote control module of controller.

When switch the mode, it will memorize previous effect of this mode and start to play.

Long press "MODE+" in the remote, the mode will play with multiple loop.

Control mode switching	BRI. 05         MAIN           Mode Auto         TUE.           10:01:30         02/28		BRI. 05 MAIN Mode 07 TUE. 10:01:30 Speed 05 02/28		BRI. 05 MAIN Mode 02 TUE. 10:01:30 Speed 05 02/28
	Picture Mode	Press AUTO 1 times.	Voice Mode	Press AUTO 1 times.	Audio Mode
Speed selection	BRI. 05         MAIN           Mode Auto         TUE. 10:01:30           Speed 05         02/28		BRI. 05         MAIN           Mode Auto         TUE. 10:01:30           Speed 09         02/28		
	Speed=5	Press SPEED 4 times.	Speed=9		
Effect switching	BRI. 05 MAIN Mode Auto TUE. 10:01:30 Speed 05 02/28		BRI.         05         MAIN           Mode         07         TUE. 10:01:30           Speed         05         02/28		BRI. 05         MAIN           Mode 02         TUE. 10:01:30 02/28
	Mode=Auto	Press MODE+ 5 times	s. Mode=5	Press MODE- 3 time	s. Mode=2

# 6. ADDRESSING

# 6.1 ADDRESS SETTING

## 6. 1. 1 UCS512A/UCS512B

\* "ADDRESS PLUS \*\*\*\*" means entering "auto addressing" mode, e.g. #1, #2, #3......#999.
 "ADDRESS PLUS 0000" means entering "fixed addressing" mode, e.g. #6, #6, #6, .....#6.

Number of channels in single chip: number of lighting fixture + number of DMX chips × Number of Channels.

The first address of N<sup>th</sup> lighting fixture is X \* (N-1) where X is the number of channels in each lighting fixture.

Color of LED	Number of	Number of	Number of DMX chips in	Number of		First A	dd. Of Ea	ch Chip		Type of	Color display when
	Channels	Lighting fixtures	each lighting fixture Pixels	single chip	Chip 1	Chip 2	Chip 3	Chip 4	Chip 5	signal	addressing successfully
		1	1	3	0	3	6	9	12		
		g	1	24	0	24	48	72	96		
			8	3	0	24	48	72	96		
UCS512	3	12	1	36	0	36	72	108	144		
			12	3	0	36	72	108	144		
		16	1	48	0	48	96	144	192	185	
		10	16	3	0	48	96	144	192	differential	
		1	1	4	0	4	8	12	16	signal	
		8	1	32	0	32	64	96	128		
UCS512			8	4	0	32	64	96	128		
UCS512A	S512A 4	12	1	48	0	48	96	144	192		
UCS512A2			12	4	0	48	96	144	192		
		16	1	64	0	64	128	192	256		
			16	4	0	64	128	192	256		
		1	1	3	0	3	6	9	12		
		8	1	24	0	24	48	72	96		
UCS512B			8	3	0	24	48	72	96		
UCS512B3	3	12	1	36	0	36	72	108	144		
			12	3	0	36	72	108	144		Blue
		16	1	48	0	48	96	144	192		
			16	3	0	48	96	144	192		
	1	1	1	1	0	1	2	3	4		
		1	1	3	0	3	6	9	12		
		8	1	24	0	24	48	72	96	- TTI	
			8	3	0	24	48	72	96	single-	
	3	12	1	36	0	36	72	108	144	wire	
			12	3	0	36	72	108	144	signal	
		16	1	48	0	48	96	144	192		
UCS512B4			16	3	0	48	96	144	192		
		1	1	4	0	4	8	12	16		
		8	1	32	0	32	64	96	128		
			8	4	0	32	64	96	128		
	4	12		48	0	48	96	144	192		
			12	4	0	48	96	144	192		
		10	1	64	0	64	128	192	256		
		10	16	4	0	64	128	192	256		

### 6.1.2 DMX512AP/SM512

\* "A\* \*\*" means entering "auto addressing" mode, e.g. #1, #2, #3......#999.
 "A0 00" means entering "fixed addressing" mode, e.g. #6, #6, #6, .....#6.

Number of channels in single chip: number of lighting fixture pixel  $\div$  number of DMX chips × Number of Channels. The first address of N<sup>th</sup> lighting fixture is X\*(N-1)+1 where X is the number of channels in each lighting fixture.

	Number of	Number of	Number of DMX chips	Number of		First Ac	ld. Of Ea	ich Chip		Type of	Color display when
	Channels	fixture Pixels	lighting fixture	single chip	Chip 1	Chip 2	Chip 3	Chip 4	Chip 5	signal	addressing successfully
DMX512AP-N	3	1	1	3	1	4	7	10	13		White
DMX512AP-NB	3	1	1	3	1	4	7	10	13		
SM512-4	4	1	1	4	1	5	9	13	17	single-wire	Graen
SM512-9	9	1	1	9	1	10	19	28	37	Signal	Green
SM512-12	12	1	1	12	1	13	25	37	49		

### 6.1.3 SW-U

\* "A\* \*\*" means entering "auto addressing" mode, e.g. #1, #2, #3.....#999.
 "A0 00" means entering "fixed addressing" mode, e.g. #6, #6, #6, .....#6.

Number of channels in single chip: number of lamp pixel ÷ number of DMX chips × Number of Channels.

The first address of N<sup>th</sup> lighting fixture is X\*(N-1) where X is the number of channels in each lighting fixture.

Color of LED	Number of	Number of	Number of DMX chips in	Number of		First Ad	dd. Of Ea	ch Chip		Type of	Color display when
	Channels	fixture Pixels	each lighting fixture	single chip	Chip 1	Chip 2	Chip 3	Chip 4	Chip 5	control signal	addressing successfully
D01U		1	1	3	0	3	6	9	12		
D12U	3	12	1	36	0	36	72	108	144	405	
D16U		16	1	48	0	48	96	144	192	differential	Plue
D01U		1	1	4	0	4	8	12	16	single-wire	Bide
D12U	4	12	1	48	0	48	96	144	192	3161101	
D16U		16	1	64	0	64	128	192	256		

### 6.1.4 UCS512C\*

% "A\* \*\*" means entering "auto addressing" mode, e.g.#1, #2, #3 ..... #999.

"A0 00" means entering "fixed addressing" mode, e.g. #6, #6, #6 ..... #6.

Number of channels in single chip: number of lighting fixture pixel ÷ number of DMX chips × Number of Channels.

Color of LED	Number of	Number of Lighting	Number of DMX	Number of channels		First Ac	dd. Of Ea	ch Chip		Type of	Color display when
	Channels	fixture Pixels	lighting fixture	in single chip	Chip 1	Chip 2	Chip 3	Chip 4	Chip 5	signal	addressing successfully
		1	1	1	0	1	2	3	4		
		Q	1	8	0	8	16	24	32		
		0	8	1	0	8	16	24	32		
	1	12	1	12	0	12	24	36	48		
		12	12	1	0	12	24	36	48		
		16	1	16	0	16	32	48	64		
		10	16	1	0	16	32	48	64		
		1	1	2	0	2	4	6	8		
		Q	1	16	0	16	32	48	64		
		0	8	2	0	16	32	48	64		
	2	12	1	24	0	24	48	72	96		
		12	12	2	0	24	48	72	96		
		16	1	32	0	32	64	96	128	105	
		10	16	2	0	32	64	96	128	- 485 difforentia	\M/bito
0035120		1	1	3	0	3	6	9	12	l signal	vviite
		0	1	24	0	24	48	72	96	i Sigilai	
		0	8	3	0	24	48	72	96		
	3	12	1	36	0	36	72	108	144		
		12	12	3	0	36	72	108	144		
		16	1	48	0	48	96	144	192		
		10	16	3	0	48	96	144	192		
		1	1	4	0	4	8	12	16		
	4	0	1	32	0	32	64	96	128		
		<u> </u>	8	4	0	32	64	96	128		
		12	1	48	0	48	96	144	192		
		12	12	4	0	48	96	144	192		
		16	1	64	0	64	128	192	256		
		01	16	4	0	64	128	192	256		

## 6.1.5 SM16512

\* "A\* \*\*" means entering "auto addressing" mode, e.g. #1, #2, #3......#999.
 "A0 00" means entering "fixed addressing" mode, e.g. #6, #6, #6, .....#6.

Number of channels in single chip: number of lighting fixture pixel  $\div$  number of DMX chips × Number of Channels. The first address of N<sup>th</sup> lighting fixture is X\*(N-1)+1 where X is the number of channels in each lighting fixture.

	Number of	Number of	Number of DMX chips	Number of		First Ad	dd. Of Ea	ch Chip		Type of	Color display when
	Channels	fixture Pixels	ighting fixture	single chip	Chip 1	Chip 2	Chip 3	Chip 4	Chip 5	signal	addressing successfully
0140540	3	1	1	3	1	4	7	10	13		
SM16512	4	1	1	4	1	5	9	13	17	485	
CMACEAA	3	1	1	3	1	4	7	10	13	al signal	Green
51016511	4	1	1	4	1	5	9	13	17		

### 6.1.6 SW-D

% Led screen displays "0000", it means entering "Automatic" addressing mode (e.g. #1, #2, #3......#999).

The first address of N<sup>th</sup> lighting fixture is X\*(N-1)+1 where X is the number of channels in each lighting fixture.

	Number of	Number of D	Number of DMX chips	Number of channels	First Add. Of Each Chip				Type of	Color display when	
Channels	Channels	fixture Pixels	lighting fixture	in single chip	Chip 1	Chip 2	Chip 3	Chip 4	Chip 5	control signal	successfully
D01D		1	1	3	1	4	7	10	13		
D06D	3	6	1	18	1	19	37	55	73		
D08D		8	1	24	1	25	49	73	97		
D12D		12	1	36	1	37	73	109	145		The first lamp
D16D		16	1	48	1	49	97	145	193	485 differential	connects with controller will
D01D		1	1	4	1	5	9	13	17	signal / TTL single-wire	have yellow light, the others are
D06D		6	1	24	1	25	49	73	97	Signai	green light.
D08D		8	1	32	1	33	65	97	129		
D12D		12	1	48	1	49	97	145	193		
D16D		16	1	64	1	65	129	193	257		

# 6.2 ADDRESSING RESULT

### 6. 2. 1 UCS512A/UCS512B



The addressing cable between the controller and the first lighting fixture must connect. Otherwise controller can not send the addressing data to the DMX512 lighting fixture. When the UCS512A/B lighting fixture is addressed successfully, the lighting fixture will be blue light.

Or it means the connection is abnormal. Please check the cable again.

### 6.2.2 DMX512AP/SM512



The addressing cable between the controller and the first lighting fixture must connect. Otherwise controller can not send the addressing data to the DMX512 lighting fixture. When the DMX512AP/SM512 lighting fixture is addressed successfully, the lighting fixture will be white (or green) light. Or it means the connection is abnormal. Please check the cable again.

### 6.2.3 SW-U



The addressing cable between the controller and the first lighting fixture must connect. Otherwise controller can not send the addressing data to the DMX512 lighting fixture. When the SW-U lighting fixture is addressed successfully,

the lighting fixture will be blue light.

Or it means the connection is abnormal. Please check the cable again.

### 6.2.4 UCS512C\*



The addressing cable between the controller and the first lighting fixture can not connect. The controller will send the addressing data by RS-485 signal. When the UCS512C\* lighting fixture is addressed successfully,

the lighting fixture will be white light.

Or it means the connection is abnormal. Please check the cable again.



The addressing cable between the controller and the first lighting fixture can not connect. The controller will send the paremeter by RS-485 signal.

When the UCS512C4 lighting fixture is entered in parameter successfully, the lighting fixture will be red light.

Or it means the connection is abnormal. Please check the cable again.

### 6.2.5 SM16512



#### The addressing cable between the controller and the first lighting fixture can not connect. The controller will send the addressing data by RS-485 signal.

When the SM16512AP lighting fixture is addressed successfully,

the lighting fixture will be green light.

Or it means the connection is abnormal. Please check the cable again. Unsuccessful input parameter and light white.



#### The addressing cable between the controller and the first lighting fixture can not connect. The controller will send the paremeter by RS-485 signal.

When the SM16512AP lighting fixture is entered in parameter successfully,

the lighting fixture will be white light.

Or it means the connection is abnormal. Please check the cable again.

### 6.2.6 SW-D



The addressing cable between the controller and the first lighting fixture can not connect. The controller will send the addressing data by RS-485 signal.

When the SW-D lighting fixture is addressed successfully,

the first lighting fixture will be yellow light,

and it will be green light from the second.

Or it means the connection is abnormal. Please check the cable again.

# **6.3 ADDRESSING OPERATION**

## 6.3.1 ADDRESSING OFF-LINE

- For addressing operations please refer to following example. (The whole process should be conducted with plugging card.)
- 1) Long press "MODE ◀" and "MODE ▶" together, press power switch and don't release the button until the screen shows IC



Addressing mode must be consistent with lighting fixtuer, otherwise the addressing will be invalid. ☺ Press "MODE ◄" and "MODE ▶" can change the type of chip.

2) Long press "MENU" and don't release the button until the screen shows \*\*\* ADDRESS PLUS 0003. It's the status of entering address. (It will memorize previous address plus data.) "0003" means need to enter the number of channels in single chip. If the address plus of lighting fixture is different, please refer to Step 6 in this chapter for setting it.



3) Long press "MENU" and don't release the button until the screen shows "\*\*\* ADDRESS SET 0 0 0 0". It's the status of entering address. (It will memorize previous address setting data.) "0000" means entering "Automatic" addressing mode. If the address of the lighting fixture is different, please refer to Step 7 in this chapter for setting address value.



4) If the address is confirmed, please long press "MENU" and don't release the button until the screen shows ADDRESSING ADDR\_VALUE 0000. Then the data is sent out by controller.



X The buttons are useless for sending the address.

5) The screen displays Sent Compelet when it is sent out successfully. And then it displays the address set before.



When DMX lighting fixture is addressed successfully, the lighting fixture will be the particular light. When the other color occurs, that means this lighting fixture is addressed unsuccessfully.

UCS512C4 and SM16512 will input parement after addressing. UCS512C4 is lighting red and SM16512 is lighting 50% white.

X At this time (controller can be power on), directly connect to DMX lighting fixture with same specification and chip which need to be addressed. Then repeat Step 4 for addressing.

If the address is found to be wrong after sending out the data, please repeat Step 7 and Step 4 to re-address the lighting fixture.

If fail to set the address, please check connection of the lighting fixture again. Please repeat Step 4 to send the data one more time.

#### 6) Address Plus modification.

Press "MENU" to increase the 1st value.Press "SPD/EN" to increase the 2nd value.Press "MODE  $\blacktriangleleft$ " to increase the 3rd value.Press "MODE  $\blacktriangleright$ " to increase the 4th value.

**X** Number of channels in single chip can be found in green column of reference table.



★ Address the lighting fixture directly after modifying address plus. Please restart the controller to enter addressing interface if user find address plus is wrong after sending out.

7) Address modification.

Press "MENU" to increase the 1st value.Press "SPD/EN" to increase the 2nd value.Press "MODE ◀" to increase the 3rd value.Press "MODE ▶" to increase the 4th value.





8) It has memory function that only needs to set the address once. When the controller and lamp are power on again, controller enters normal control mode and the lamp plays effect properly.

POWER	•				
WORK	•				
SYNC	•				
	MEN	U SPD/EN	MODE	MODE	

POWER		RI.	05	MAIN	
WORK		lode	07	FRI.	
SYNC		loue		10:01:30	)
		peed	601	04/26	
	M	ENU	SPD/EN	MODE	MODE

### 6.3.2 ADDRESSING ON-LINE

It can intelligent address the DMX lighting fixtures

н	Click "Addrossing" of "Tools" in 🕏 RGBPlayer	🐥 LED Player (2018) - EN508_96W32H — 🗆 🗙
NTER-		Project minington dato     Settings Output       Size Format Edit Adjust Color     Minington       Advanced Addressing     If Setting Timing Kore
-IN ADDRESSING		Constaller     Chip     State Day       Constaller     Chip     State Day       Fordat     Chip     State Day       State Day     Chip     State Day       Fordat     Chip     State Day       State Day     Chip     Chip       State Day     Chip     State Day       State Day
THEHARDWARE INFORMATION	<u>Controller</u> : It shows the number of controllers in the project automatically. [Online] is that the controllers connection work. [Offline] is that the controllers connection close. It cannot address the lighting fixture. If the controller output control another lighting fixtures except DMX series, it shows taboo. It can be modified in SETUP. <u>Chip</u> : It shows the number/address of ships.	Advanced Addressing         Controller1[0f:         Controller1[0f:         Port1         Chip2 [Address: 1]         Chip6 [Address: 13]         Port5         Port6         Port7         Port8         Controller2[0f:         Chip8 [Address: 16]         Chip6 [Address: 16]         Chip6 [Address: 16]         Chip6 [Address: 12]         Chip6 [Address: 22]         Chip8 [Address: 22]         Chip9 [Address: 22]         Chip10 [Address: 22]         Chip10 [Address: 22]         Chip10 [Address: 22]         Chip10 [Address: 23]         Controller3[0f:         Controller3[0f:         Controller3[0f:         Controller3[0f:         Controller3[0f:         Controller3[0f:         Controller3[0f:         Chip14 [Address: 4         Controller3[0f:         Controller3[0f:         Controller3[0f:         Controller3[0f:         Controller3[0f:         Chip14 [Address: 4         Controller3[0f:         Chip14 [Address: 4         Controller4[0f:         Controller5[0f:         <

SETUP THE CHIPS'ADDRESSING	Chip Oty:It reads the settingup while first be used. It can be set manually and click Set Qty to save.Chip Type:It reads the settingup while first be used. It can be modified in SETUP.Chip Adress:It can be set the adress of the select chip,and click Save.Chip Segment:It can be set the pixel of the select chip,and click Save.Addressing Mode:None, Address extension, Use the same address.None It only saves the address of the selected chip. And the anothers will not changed.Address of the selected chip. And the anothers will be extended.Use The Same AddressIt saves the same address of all chips.Save Address of the selected chip.Save address of the selected chip.Save Address of the selected chip.The each chips' address will change by the addressSave Address of the selected chip.Save Address of All Chips'Click and save all chips.The each chips' address will change by the addressSetting and the segment setting.	Advanced Addressing         Controller1[0f:
SETTUP THE CHIPS DATA	<u>Advanced</u> : If the controller output control UCS512C4 orSM16512, It will be set up the Power-on brightness.	Chip Qty 400 Set Qty Chip Type SH16512 3 Chann Chip Setting Chip Setting Chip Segment 1 Address of current selected chip Save address of all chips Advanced
ADDRESSING	Com Addressing: It will be used by the selected port. Click it and the lighting fixtrures in the selected port will be addressed. Controller Adressing: It will be used by the selected controller. Click it and the lighting fixtrures in the selected controller will be addressed. All Addressing: Click it and the all lighting fixtrures will be addressed. (The offline controller cannot address.) Light Chip: Click it and light up the selected chip. Please make sure the address of chips in RGBPlayer are same with the lighting fixtures'.	Advanced Addressing         Controller         Controller         Port1         Port2         Port3         Port4         Port6         Port7         Port6         Port8         © Controller10fc:         Port8         © Controller30fc:         Chip 10 [Address: 10         Port4         Port5         Chip 10 [Address: 10         Chip 4 [Address: 10]         Chip 5 [Address: 10]         Chip 6 [Address: 10]         Chip 10 [Address: 12]         Chip 10 [Address: 12]         Chip 11 [Address: 14]         Chip 12 [Address: 12]         Chip 13 [Address: 14]         Chip 14 [Address: 25]         Chip 15 [Address: 25]         Chip 11 [Address: 24]         Chip 12 [Address: 25]         Chip 13 [Address: 30]         Chip 14 [Address: 4]         Controller6 [Of:         Chip 14 [Addressing         Controller6 [O
	RGBPlayer shows the progress bar in the lower right corner. It shows "Addressing completed!" when all the EN-508 controller recive the addressing data. It is not the lighting fixtures addressing correct. The addressing successful is according to the light corlor. UCS512C4 and SM16512 shows the power-on light corlor after the addressing successful light corlor.	Advanced Addressing     Chip     Chip     Qty     336     Set Qty       Controller1     Chip     (Address: 1)     Chip     Chip     State       Port1     Port2     Chip     (Address: 1)     Chip     State       Port3     Port4     Chip     (Address: 10)     Chip     State       Port4     Port5     Chip     (Address: 10)     Chip     Chip       Port5     Chip     (Address: 10)     Chip     (Chip       Port6     Chip     (Chip     (Chip     (Chip       Port8     Chip     (Chip     (Chip     (Chip       Controller3[Of:     Chip     (Chip     (Chip     (Chip       @ Controller5[Of:     Chip <td< td=""></td<>

# 7. IP Address Setting (PC)

1. Open "Network Connection" on the PC, right click "Local Connection" and select "Properties".



2. Select Internet Protocol (TCP/IP), then click "Properties". Setting the IP address below.

Local Connection Properties	Internet Protocol Version 4 (TCP/IPv4) Properties
Networking Authentication Sharing	General
Connect using: Reatek PCIe FE Family Controller Configure This connection uses the following items: Gos Packet Scheduler File and Printer Sharing for Microsoft Networks File and Printer Sharing for Microsoft Networks	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.         O Obtain an IP address automatically         O Uge the following IP address:         IP address:         2 . 0 . 0 . 98         Subnet mask:
Link-Layer Topology Discovery Mapper I/O Driver     Link-Layer Topology Discovery Responder	Default gateway:     2 . 0 . 0 . 1       Obtain DNS server address automatically
Install Uninstall Properties	O Use the following DNS server addresses:
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Preferred DNS server:         123 . 121 . 12 . 12           Alternate DNS server:         .
	Validate settings upon exit Advanced
OK Cancel	OK Cancel

3. Click "OK" after the setting is finished.

# 8. SD CARD COPY

Removable Disk (G:)	Cpen Cpen in new window
	Share with Open as Portable Device
	Format Eject
	Cut Copy
(G:) Space used: Space free: 110 MB	Create shortcut Rename
	Properties

1) Right click the disk where the SD card locates.

#### Select –FAT (Can tick off "Quick Format") and click START.

Capacity:				
120 MB				•
- 				
FAT (Default)				-
NTES				
FAT (Default)		-		
FAT32		125		
EXFAI		-8G -	- 32G	: FA
Restore <u>d</u> evia	ce defaults	<u>i</u> ,		
Restore <u>d</u> evid /olume <u>l</u> abel Format optior	ce defaults	<u>_</u>		
Restore <u>d</u> evic	te defaults	ز		
Restore devic /olume label Format option	ns nat	<u> </u>		
Restore devic	te defaults ns nat MS-DOS st	artup dis	k	

#### 4) Finished the formatted, click confirm to exit.

Formatting Removable Disk (G:)

Format Complete.

X

ОК



# 5) Right click N5\_1.Bin file, send the file to removable disk.

N5_1.bin	Open			21/7/2015 20:36 BIN F
	Share with Restore previous versions	•		
<	Send to	+	1	Compressed (zipped) folder
	Cut Copy			Desktop (create shortcut) Documents Fax recipient
	Create shortcut Delete			Mail recipient TeamViewer
te modified: 21/7	Rename		5	Removable Disk (G:)
Size: 29.6	Properties			

# 6) Right click removable disk and select pop to pop the SD card.



7) Put the SD-card into controller. When start the equipment the SD- card can use. (There is only one bin file in the card.)