

CDPS-14TW HDMI 1x4 TV Wall



Operation Manual



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Version 1.0 October 2014

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VRO	09/12/14	Preliminary Release



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1. INTRODUCTION

The 1 by 4 HDMI TV Wall allows an HDMI input source to be freely arranged on 4 displays (TV or monitor) and or cascade to extend the HDMI signal up to as many as needed with bezel correction function. Friendly control application that leads user with single or total devices control over a one touch button and leave the TV Wall control system never been easier. The device supports video timings up to WUXGA@60RB and 1080p@60Hz, audio format up to 7.1CH LPCM at 192kHz sampling rate based on input source EDID. All the operation and control can be done through Telnet and RS-232.

2. APPLICATIONS

- Hypermarket display
- Public advertisement
- Digital Presentation
- Stock Market

3. PACKAGE CONTENTS

- 1 x 4 by 4 HDMI TV Wall
- 1 x 12V/3A DC Power Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

Input source equipment such as DVD/Blu-ray players or any HDMI signal and output HD TV/displays.



5. FEATURES

- HDMI, HDCP1.4 and DVI compliant
- Output source signal to 4 displays (2 by 2 Video wall) as a full image with adjustable Bezel Correction
- Cascade/Bypass the HDMI signal up to as many as require
- One button push to control all connected TV Wall devices
- Supports RS232 and Telnet controls
- Input resolutions support VGA~WUXGA and 480i~1080p
- Output resolutions support 720p~1080p
- Supports different input resolution and output resolution selectable from OSD menu. The factory default value for the output resolution is 720p@60Hz/ 2CH LPCM
- Audio supports LPCM 2CH, 5.1CH, 7.1CH/AC3/DTS/Dolby Digital Plus/Dolby TruHD & DTS-HD



6.1 Front Panel



1 Power

- ON/OFF: Press this button to power ON the device or set it to standby mode.
- Factory default: Under Power On status, press this button for 3 sec. to reset the system back to factory default setting.

6.2 Rear Panel



1 HDMI IN

Connect with HDMI source equipment such as DVD/Blue-ray players and or PC/Laptop devices.

2 HDMI OUT A~D

Connect with HDMI TV/displays for output image display. It is suggest that the connection sequence should be placed as diagram showed for TV wall set up. Output D is the nominated port for cascading/Bypass the HDMI signal.







Display 3X2				
A	В	С		
E	F	G		

Display 3X3					
А	В	С			
E	F	G			
I	J	К			

3 Control

Connect to an active network for telnet control (Please refer to 6.5 telnet Commands).

4 USB SERVICE ONLY

Control

This slot is reserved for factory use only.

LKJI

5 RS-232

Connect from PC/Laptop with D-Sub 9pin cables for RS-232 command sending and controlling over the device.

Note: RS-232 control system is only limited for single device.

6 DC 12V

Plug the 12V DC power supply into the unit and connect the adaptor to an AC outlet.



6.3 RS-232 Protocols

CDPS-14TW		Remote Co	ntroller(PC)
PIN	Definition	PIN	Definition
1	NC	1	NC
2	TxD	2	RxD
3	RxD	3	TxD
4	NC	4	NC
5	GND	5	GND
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC

Baud Rate: 115200bps Data Bit: 8 bits

Parity: None

Flow Control: None

Stop Bit: 1



6.4 RS-232 & Telnet Commands

ltem	Command	Description	Parameter	
	RRES	Request Resolution	0=480p, 1=576p, 2=720p50, 3=720p60, 4=1080p24,	
			5=1080p25, 6=1080p30, 7=1080p50, 8=1080p60, 9=1024x768 60	
Resolution	SRES 0~18	Set Resolution	10=1280x800 60, 11=1280x1024 60, 12=1366x768 60, 13=1440x900 60, 14=1600x900 60, 15=1600x1200 60	
			16=1680x1050 60, 17=1920x1200 60, 18= Native	
	ROSDD	Request OSD Status		
	SOSDD 0/1	Set OSD Status	0- 011 , 1-011	
	ROSDH	Request OSD H Position	0~20 (5)	
	SOSDH 0~20	Set OSD H Position		
OSD	ROSDV	Request OSD V Position	0~20 (5)	
	SOSDV 0~20	Set OSD V Position		



ltem	Command	Description	Parameter
	ROSDT	Request OSD Display Timeout setting	0~20 (50)
	SOSDT 2~50	Set OSD Display Timeout in Second	0 20 (30)
	ROSDG	Request OSD Gain Correction	0~10 (2)
	sosdg 0~10	Set OSD Gain Correction	0.10 (2)
	SOSDI	Set OSD Information Status	ON/OFF
	SOSDR	OSD reset to factory default "off"	
	RBRI 1~4	Request Brightness	Output 1~4
	SBRI 1~4 0~100	Set Brightness	Output 1~4, Brightness Value 0~100 (50)
	RCON 1~4	Request Contrast	Output 1~4
	SCON 1~4 0~100	Set Contrast	Output 1~4, Contrast Value 0~100 (50)
	RSAT 1~4	Request Saturation	Output 1~4
IMAGE	SSAT 1~4 0~100	Set Saturation	Output 1~4, Saturation Value 0~100 (50)
	RHUE 1~4	Request Hue	Output 1~4



ltem	Command	Description	Parameter
	SHUE 1~4 0~100	Set Hue	Output 1~4, Hue Value 0~100 (50)
	SIMRE 1~4	Reset Picture Setting	1->Brightness,2->Contrast,3- >Saturation,4->Hue
	SPIRE	Reset All Picture Setting	
Ethernet	RIPM SIPM 0/1	Request IP Mode Set IP Mode	0->DHCP , 1->Static
	RIPA	Request IP Address	
	SIPA 0~255. 0~255. 0~255. 0~255	Set IP Address	IP ADDR : IPA3.IPA2.IPA1. IPA0
	RMAA	Request Mask Address	
	SMAA 0~255. 0~255. 0~255. 0~255	Set Mask Address	Mask ADDR : MAA3.MAA2. MAA1.MAA0



ltem	Command	Description	Parameter
	RGAA	Request Gateway Address	
	SGAA		Gate ADDR : GAA3.GAA2.
	0~255.	Set	GAA1.GAA0
	0~255.	Gateway	
	0~255.	Address	
	0~255		
	RETIME	Request Ethernet Timeout	0=OFF , 1=10min, 2=20min, 3=30min, 4=40min, 5=50min,
	SETIME 0~6	Set Ethernet Timeout	6=60min
	RUNK		IP000~255
			IP010~255
			IP020~255
			IP030~255
			MA000~255
		Read Link	MA010~255
			MA020~255
			MA030~255
			GA000~255
			GA010~255
			GA020~255
			GA030~255
System	RMUTE	Request	0=UNMUTE, 1=MUTE
		Mute Status	
	SMUTE 0/1	Set Mute Status	



ltem	Command	Description	Parameter
	RPOW	Request Power Status	0=Power off, 1=Power on
	SPOW 0/1	Set Power Status	
	RVER	Request Version	
	SREL	Set Re-Link	
	SDEF	Reset to factory default	
	RMNC 1~4	Request TV Wall Value	TV WALL M Value
	SMNC M N 0~4	Set TV Wall Output Value	TV WALL N Value Output 1~4
	RCO 1~4	Request Output TV Wall Position	Output 1~4
	SCO 1~4 Y	Set Output TV Wall Position	Output 1~4, TV Wall position(M*N)
	RCBH 1~4	Request H Bezel Value	Output 1~4
	SCBH 1~4 0~255	Set Output H Bezel Value	Output 1~4, H Bezel value
TV WALL	RCBV 1~4	Request V Bezel Value	Output 1~4
	SCBV 1~4 0~255	Set Output V Bezel Value	Output 1~4, V Bezel value



ltem	Command	Description	Parameter
	RBEZ	Request Bezel Status	0=Bezel off, 1=Bezel on
	SBEZ 0/1	Set Bezel Status	
	RMDN	Request Device's Model No.	Unit model NO. Setting be
			1~255
TV WALL	SMDN 0~255	Set Device's Model No.	
	SWDE	Reset TV Wall Value	
	SHOT 0~23	Set Hot Setting	0=1x1 , 1=2x2, 2=3x3, 3=4x4, 4=5x5, 5=6x6, 6=2x3, 7=3x2, 8=3x4, 9=4x2, 10=4x3, 11=4x5, 12=1x2, 13=2x1, 14=1x3, 15=3x1, 16=1x4, 17=4x1, 18=2x4, 19=3x5, 20=5x4, 21=5x3, 22=6x2, 23=6x3
	SFAVE 1~5	Save Favor Setting	
	RFAVE 1~5	Recall Favor Setting	
	RBY	Request Bypass Setting	0=non Bypass, 1=Bypass
	SBY 0/1	Set Bypass Setting	

*All commands will be not executed unless followed with a carriage return (0x0D) and commands are case-sensitive.

*RS-232 control is set to single device only, not for use with Cascade/ Bypass output's connection device.

*Bold values are the default setting.



6.5 Software Application Installation

Use the link http://cypress.com.tw to download the software application TV Wall Set v1.09 and execute it to control the TV Wall system.

Note: Before installing, remove any former verion that was existing.

Once the application is installed successfully, click and open the "TV Wall Set".

TV Wall Set v1.09						×
System Settin	gs	Connect Interfac	:e	Network Conf	iguration ———	
Power	T ALLIP	Connect	Disconnect	Get IP	Address Type	-
Factory Reset	T ALLIP	MAC :	•	Set IP	IP Address	
Refresh	Search MAC	Model No.	•	Re-Link	Default Gateway	
TV Wall (1)	TV Wall Setup Bezel Correction		T ALL IP			
TV Wall (2)	1x1	2x2	3x3	4x4	5x5	6x6
TV Wall (3)	2x3	3x2	3x4	4x2	4x3	4x5
TV Wall (4)	1x2	2x1	1x3	3x1	1x4	4x1
I/O Setup	2x4	3x5	5x4	5x3	6x2	6x3
Image Adjust						

1. Every time when the TV Wall device is power or reset with network connection, click on "Search MAC" to confirm the total TV Wall device within the network system.



6.6 TV Wall Functions

TV Wall Set v1.09 FW: v2.02							
System Settin	ngs	-Connect Interfac	е — —	F	Network Con	figuration	
Power ON	C ALL IP	Connect	Disconnect		Get IP	Address Type	DHCP -
Factory Reset	I ALL IP	MAC : F8:22:85:00	0:03:28 💌		Set IP	IP Address	192.168.000.102
Refresh	Search MAC	Model No. 0			Re-Link	Default Gateway	192.168.000.001
6.6	.1	6.6.2	2			6.6.3	
TV Wall (1)	Bezel Correcti	n r ON COFF	T ALL IP				
TV Wall (2)	1x1	2x2	3x3		4x4	5x5	6x6
TV Wall (3)	2x3	3x2	3x4		4x2	4x3	4x5
TV Wall (4)	1x2	2x1	1x3		3x1	1x4	4x1
I/O Setup	2x4	3x5	5x4		5x3	6x2	6x3
Image Adjust							

6.6.1 System Settings

- 1. Click "Power ON" to switch ON the device, to switch all devices ON click ALL IP and then "Power ON".
- 2. Click "Factory Reset" to set the device's setting back to default, to switch all devices back to default setting click ALL IP and then "Factory Reset".
- 3.Select from MAC a device and click "Connect" to control the device. Once the "Connect" button is clicked the setting will be refreshed except Image Adjust.
- 4. Click "Search MAC" to define on-line TV Wall devices.

6.6.2 Connect Interface

- 1. Click on "Connect" to make the link and the TV Wall Set will refresh automatically yet the Image Adjust can only be refreshed by clicking the button.
- 2. Click on "Disconnect" to terminate the link between TV Wall device and the TV Wall Set.
- 3. Click on the arrow down button of MAC to show the TV Wall devices and select the nominated device/MAC for connection.
- 4. When more than one TV Wall device is in use, set "Model No." is a



must in order to split and arrange the image correctly.

6.6.3 Network Configuration

- 1. Click on "Get IP" to get the current IP link status.
- 2. Click on "▼" button to change address type.
- 3. To change IP address, click on "Set IP" and insert direction on IP address, Net Mask and Default Gateway address bar.
- 4. When Set IP is done, click on "Re-link" to reset the IP address.

6.6.4 TV Wall (1)

TV Wall Set v1.09	FW: v2.02					
System Settin	System Settings Connect Interface Network Configuration					
Power ON	C ALL IP	Connect	Disconnect	Get IP	Address Type	DHCP -
Factory Reset	I ALL IP	MAC : F8:22:85:0	0:03:28 👻	Set IP	IP Address	192.168.000.102
Refresh	Search MAC	Model No. 0	•	Re-Link	Net Mask Default Gateway	192.168.000.001
TV Wall (1)	TV Wall Setur Bezel Correction			2		
TV Wall (2)	1x1	2x2	3x3	4x4	5x5	6x6
TV Wall (3)	2x3	3x2	3x4	4x2	4x3	4x5
TV Wall (4)	1x2	2x1	1x3	3x1	1x4	4x1
I/O Setup	2x4	3x5	5x4	5x3	6x2	6x3
Image Adjust				3		

- 1. Bezel Correction ON/OFF allows TV Wall's image to be adjust to fit the display and look better as in one or without any adjustment and split the image evenly.
- 2. Click on ALL IP to allow Bezel Correction to perform on all TV Wall devices.
- 3. Fast TV wall setting buttons.



6.6.5 TV Wall (2)

TV Wall Set v1.09	FW: v2.02				-			
System Settin	gs	Connect Inter	rface		Network Co	onfiguration		
Power ON	T ALL IP	Connect	Disconnect		Get IP	Address Type	DHCP -	
Factory Reset	IT ALL IP	MAC: F8:22:8	35:00:03:28		Set IP	IP Address	192.168.000.102	
						Net Mask	255.255.255.000	
Kefresh	Search MAC	Model No. 0	-		Ke-Link	Default Gateway	192.168.000.001	
TV Wall (1)	TV Wall Setu	p						
TV Wall (2)	Manual setup	Out Chanel	Row	1	Column ~15 🚽	Out Position	Send 1	
TV Wall (3)	Output Ch.4 B	ypass ເ ON ເ	0FF					
7.000		Out A	Out B	_	Out C	Out D		
I V VVall (4)	H Correction	10 🔹	10 🔹	1	0 🗸	10 -	Send 3	
I/O Setup								
	V Correction	10 -	10 💌		LO •	10 -	Reset 4	
Image Adjust								

- 1. Output Chanel setup allows user to set up individual output A~D on a specific position and from horizontal and vertical position of 1~15.
- 2. Output Ch.4 Bypass On/Off allows the TV Wall device's output D to be set to signal bypass mode or not.
- 3.H Correction allows output horizontal position's display to be adjust with Bezel value.
- 4. V Correction allows output vertical position's display to be adjust with Bezel value.



6.6.6 TV Wall (3)

TV Wall Set v1.09	FW: v2.02						x
-System Settin	gs	Connect Interfa	ce	Network Cor	nfiguration		
Power ON	T ALL IP	Connect	Disconnect	Get IP	Address Type	DHCP -	
Factory Reset	T ALL IP	MAC : F8:22:85:0	0:03:28 🔻	Set IP	IP Address	192.168.000.102	
Refresh	Search MAC	Model No. 0	•	Re-Link	Net Mask Default Gateway	255.255.255.000	-
TV Wall (1)	TV Wall Setu	ip					
		Out A	Out B	Out C	Out D		
TV Wall (2)	H Start Value	Value	Value	Value	Value	• Refresh	2
TV Wall (3)	H End Value	Value	Value	Value	Value	• Reset	3
TV Wall (4)	V Start Value	Value	Value	Value	Value	•	
I/O Setup	V End Value	Value	Value	Value	Value	×	
Image Adjust			1				

- 1. Output H&V Value setup allows user to adjust individual output A~D on a specific position and from horizontal and vertical position of 0~255.
- 2. Refresh button is to refresh I/O Setup page only.
- 3. Reset button is to reset all settings of I/O Setup back to factory default value.



6.6.7 TV Wall (4)

TV Wall Set v1.09	FW: v2.02				1		
System Settings Connect Interface							
Power ON	T ALL IP	Connect	Disconnect	Get IP	Address Type	DHCP -	
Factory Reset	T ALL IP	MAC : F8:22:85	5:00:03:28 👻	Set IP	IP Address	192.168.000.102	
Refresh	Search MAC	Model No. 0	•	Re-Link	Net Mask Default Gateway	192.168.000.001	
TV Wall (1)							
TV Wall (2)	Save TV Wall	Save TV Wall Settings					
TV Wall (3)	FAV 1	FAV 2	FAV 3	FA'	V4 F	AV 5	
TV Wall (4)	Recall TV Wa	ll Settings					
I/O Setup	FAV 1	FAV 2	FAV 3	FA	V 4 F	2 FAV 5	
Image Adjust							

- 1.Save TV Wall Settings from FAV 1~5 with current settings, after setting TV Wall (2)'s figure click from FAV 1~5 in TV Wall (3) to store the setting.
- 2. Recall TV Wall Settings from FAV 1~5 to switch the setting immediately.



6.6.8 I/O Setup

TV Wall Set v1.09	FW: v2.02					
System Settin	gs	Connect Interfa	ce	Network Con	figuration	
Power ON	T ALL IP	Connect	Disconnect	Get IP	Address Type	DHCP -
Factory Reset	T ALL IP	MAC: F8:22:85:0	00:03:28 🗸	Set IP	IP Address	192.168.000.102
Refresh	Search MAC	Model No. 0	•	Re-Link	Default Gateway	192.168.000.001
TV Wall (1)	I/O Setup					
	Output Reso	olution	OSD H Offset		Mute	
TV Wall (2)	1080p60	- 🗆 ALL IP	5	- 🗆 ALL IP	C ON @	OFF 🗖 ALL IP
TV Wall (3)	OSD Auto D	isplay	OSD V Offset		OSD Info	
TV Wall (4)	JOFF		12	• 10 ALL	Refresh	2
I/O Setup	OSD Display	Timeout	OSD Gain Corr 2	ection	Reset	3
Image Adjust		1				

- 1. All settings under I/O Setup can be done with single TV Wall device or multiple TV Wall devices with single click on "ALL IP". Parameter and default value are as stated in RS-232 description.
- 2. Refresh button is to refresh I/O Setup page only.
- 3. Reset button is to reset all settings of I/O Setup back to factory default value.



6.6.9 Image Adjust

TV Wall Set v1.09	FW: v2.02	-					-	
System Setting	gs	Connect	Interface	[Network Con	figuratio	n	
Power ON	T ALL IP	Conr	ect Dis	connect	Get IP	Address 1	Type DH	CP 🔻
Factory Reset	C ALL IP	MAC:	F8:22:85:00:03:	28 🗸	Set IP	IP Addres	s 192	2.168.000.102
Refresh	Search MAC	Model No	0.0		Re-Link	Net Mask Default G	ateway 192	255.255.000
TV Wall (1)	-Image Adju	st						
		OUTA	OUT B	OUT C	OUT D			
TV Wall (2)	Brightness (0~100 💌	0~100 -	0~100 -	0~100 -	Reset		Picture Reset 2
TV Wall (3)	Contrast 🛛	0~100 🔹	0~100 -	0~100 💌	0~100 💌	Reset	🗆 ALL IP	Refresh 3
TV Wall (4)	Saturation	0~100 💌	0~100 💌	0~100 💌	0~100 💌	Reset	🗆 ALL IP	
I/O Setup	Hue 0	D~100 •	0~100 💌	0~100 💌	0~100 💌	Reset	🗆 ALL IP	
Image Adjust				1				

- 1. Again all settings under Image Adjust can be done with single TV Wall device or multiple TV Wall devices with single click on "ALL IP". Parameter and default value are as stated in RS-232 description.
- 2. Picture Reset button is to reset all settings of Image Adjust back to factory default value.
- 3. Refresh button is to refresh Image Adjust page only.

6.7 Telnet Control

Before attempting to use the telnet control, please ensure that both the HDMI TV Wall (via the 'CONTROL' port) and the PC/Laptop are connected to the active networks.

To access the telnet control in Windows 7, click on the 'Start' menu and type "cmd" in the Search field then press enter Under Windows XP go to the 'Start' menu and click on "Run", type "cmd" with then press enter.

Under Mac OS X, go to Go \rightarrow Applications \rightarrow Utilities \rightarrow Terminal See below for reference.





Once in the command line interface (CLI) type "telnet", then the "IP address" of the unit and hit enter. Only when the Telnet port (device port) is not set to 23, the number "(device port)"" then needs to be entered after IP address (device IP) and before hit enter.



This will bring us into the device which we wish to control. Type "HELP" to list the available commands.



Telnet 192.168.0.102	
?	٦
	1
AVAILABLE COMMANDS	
RRES	
SRES	
ROSDD	
SOSDD	
ROSDH	
COCDII	
ROSDT	
509DT	
BOSDG	
SOSDG	
SOSDI	
SOSDR	
RBRI	
SBRI	
RCON	
SCON	
RSAT	
SSAT	
RHUE	
SHUE	
SIMRE	
SPIRE	
RIPM	
SIPM	
RIPH	
R/IAH CMOO	
RCOO	
SGAA	
BETIME	
SETIME	
BLINK	
RMNC	-

Note: All the commands will be not executed unless followed by a carriage return. Commands are case-insensitive. If the IP is changed then the IP Address required for Telnet access will also change accordingly.



7. SPECIFICATIONS

Video Bandwidth	225MHz/6.75Gbps
Input ports	1x HDMI (Female type)
	1xUSB (Service only)
Output ports	4 x HDMI (Female type)
HDMI Cable Distance	15M/8-bit 1080p
Sampling Rate	192kHz
ESD Protection	Human body model:
	± 8kV (air-gap discharge)
	± 4kV (contact discharge)
Power Supply	12V/3A DC (US/EU standards, CE/FCC/
	UL certified)
Dimensions (mm)	436(W) x 249(D) x 44(H)/Jacks Excluded
	436(W) x 256(D) x 49(H)/Jacks Included
Weight (g)	2815
Chassis Material	Aluminum
Silkscreen Color	Black
Operating Temperature	0°C ~ 40°C / 32 °F ~ 104 °F
Storage Temperature	-20°C ~ 60°C / -4 °F ~ 140 °F
Relative Humidity	20~90% RH (non-condensing)
Power Consumption	12.3w



8.1 Input Support Timing

Support Timing
480i@59
480p@60
576i@50
576p@50
720p@50,60,
1080i@50,60
1080p@24, 50,60
640x480@60,72,75,85
800x600@56,60,72,75,85
1024x768@60,70,75,85
1280x768@60,75
1280x1024@60,75
1360x768@60
1366x768@60
1600x1200@60
1920x1200@60



8.2 Output Support Timing

Support Timing					
720p50	1280x800@60				
720p60	1280x1024@60				
1080p24	1366x768@60				
1080p25	1440x900@60				
1080p30	1600x900@60RB				
1080p50	1600x1200@60				
1080p60	1680x1050@60				
1024x768@60	1920x1200@60RB				

9. CONNECTION AND INSTALLATION

2x2 TV Wall DVD/Blu-ray Player • ۲ ۲ Ò वित्र्य Þ¢ Þ٩ Þ¢ 88 ///// 77 PC/NB TV/Monitor



DVD/Blu-ray Player 3x2 TV Wall • DC 12V Ô 3 88 В • Modem or Router TV/Monitor 료 둰 82 Ы П Ш Ш Г HDMI IN Ô



10. ACRONYMS

ACRONYM	COMPLETE TERM



MPM-CDPS14TW