



User Guide



Display



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ACR Hub



ACR Hub



<u>Layout</u>





ACR LED Display (from "a" to "m")

- a. LED light (RED) : Active Network Connection
- b. LED light (RED) : Backlight On (Lux) \rightarrow Optional
- c. LED light (RED) : Internal Temperature Exceeding Threshold
- d. LED light (RED) : Active Power On
- e. LED light (RED) : Active Backlight On
- f. LED light (RED) : Active Backlight Dimming On
- g. LED light (GREEN) : Active DC24V Input
- h. LED light (GREEN) : Active DC12V Input
- i. LED light (GREEN) : Active DCM5V Input
- j. LED light (GREEN) : Active DCS5V Input
- k. LED light (YELLOW) : Active Source Input 1 (DVI #1)
- I. LED light (YELLOW) : Active Source Input 2 (DVI #2)
- m. LED light (YELLOW) : Active Source Input 3 (VGA)

2

1

Select SET ID via ACR Hub buttons & LCD Display

- a. Read current status of selected SET ID
- b. Display window for selected SET ID
- c. SET ID adjust button (Press the button to change the number of SET ID "Up")
- d. SET ID adjust button (Press the button to change the number of SET ID "Down")
- e. SET ID adjust button (Press the button return SET ID value to "00")







3 Temperature and Time Display

- -. TEMP: Displays internal temperature of selected SET ID
- -. TIME: Displays current time, on/off time setting.



- 1. Display of current internal set temperature.
- 2. Display the saved current time.
- 3. Display On/Off setting mode.
 - a. Power On time setting status (On: O / Off: X)
 - b. Power Off time setting status (On: O / Off: X)

Setting the current time / On & Off time setting

- a. Use this button to save the current, displayed settings.
- b. Menu button for setting current time, On & Off time.
- c. Use this "left" directional menu button to toggle between current time, On & Off time.
- d. Use this button to adjust (up) current time, On & Off time.
- e. Use this button to adjust (down) current time, On & Off time.
- f. Use "right" directional menu button to toggle between current time, On & Off time.



4



<Current time setting>



- 1. Access CUR TIME SET menu in order to use buttons as described in #4
- 2. **I** Use buttons to select Hours/Minutes/Seconds adjustments
- 3. ▲ / ▼ Use buttons to adjust Hours/Minutes/Seconds values
- 4. Press "SAVE" button to save settings.

<On time setting>



- 1. Go to ON TIME SET menu to press the "SETTING" button as described in the "Setting the current time / On & Off time setting" section on the previous page
- 3. ▲ / ▼ Press the button to go to menu to set Hours/Minutes/Seconds/On & Off menu.
- 4. Press "SAVE" button to save the settings.

<Off time setting>



- 1. Go to OFF TIME SET menu to press the "SETTING" button as described in the "Setting the "me / On & Off time setting" section on the previous page.
 - Press the button to go to menu to set Hours/Minutes/Seconds/On & Off menu.
 - Press the button to go to menu to set Hours/Minutes/Seconds/On & Off menu.
- 4. Press "SAVE" button to save settings.

5

Remote controller

-. The remote controller can be used to control the menu and OSD Menu on individual SET IDs (when a specific Set ID is selected on ACR Hub) or an entire video wall array (when Set ID "00" selected). There is an IR receiver below the #5 on the ACR Hub diagram on p. 4.

www.gpodisplay.com

2. 3.



ACR Hub I/O port

6





- 1. LAN Input
- 2. RSRS-232 Input
- 3. -232 Output
- 3. DC 12V Input



Cabling



ACR Hub



ACR Hub drawing (in.)







Remote Control



- 1. SOURCE : Selects Input Source -DVI 1-> DVI 2-> PC
- 2. POWER : Turns the LCD Display On and Off
- 3. UP : Controls the UP cursor in the menu
- 4 LEFT : Controls the LEFT cursor in the menu
- 5 RIGHT : Controls the RIGHT cursor in the menu
- 6 ENTER : Controls the ENTER cursor in the menu
- 7 DOWN : Controls the DOWN cursor in the menu
- 8 MENU : Displays the main On-Screen menu or returns to previous menu screen
- 9. EXIT : Exits the On-Screen menu



Network setup for ACR

Static IP is recommended for ACR Monitoring*

1. This user guide is provided to users of ACR (Auto Condition Report) Network Agent and Monitoring Software & App.

-Program: ACR Network Configuration.msi ACR Network Setup.exe ACR Monitor

2. Program Installation

Installing ACR Network Setup

Run the file named "ACR Network Setup.exe" and follow the instructions below. If you previously installed the ACR Network Program, delete the previous one and re-install the new one.



Click "Next"





Select the folder you wish to save the file in. Press "Install" if you are ok with the designated folder.



Click "Next"



🙀 ACR Network Configuration	
Installing ACR Network Configuration	5
ACR Network Configuration is being installed.	
Please wai	
Cancel < Back	Nexto

Wait until the installation is complete.



Once installation is complete,

Go to "C:\Program Files\ACR Network Configuration\" to run the program. or go to shortcut to run program at "C:\Users\Public\Desktop"



ACR Network Configuration 1.2							
Serial Port	Set (4)						
Port COM2 👻	MAC	0050C2F8E3DD	IP Setting mode	● DHCP			
Baud Rate 9600 👻	Customer Code	gpous000		💿 Static IP			
Disconnect Read Data	Model Name	SMC	IP address	220.96.80.9			
			Subnet mask	193.89.98.64			
Copy to Data	Set ID	1	Gateway	229.145.73.204			
	Group Count	1	Server IP	112.121.0.140			
	Group Name	GPOUS-221 AV44	Server Port	3000			
③ Write IP Settings	Data 5						
	MAC	0050C2F8E3DD	IP Setting mode	DHCP			
	Customer Code	gpous000		⊚ Static IP			
	Model Name	SMC	IP address	220.96.80.9			
			Subnet mask	193.89.98.64			
	Set ID	1	Gateway	229.145.73.204			
	Group Count	1	Server IP	112.121.0.140			
	Group Name	GPOUS-221 AV44	Server Port	3000			
TCP: IP:192.168.2.8 Mask:255.255.0 COMM: Enter Bypass Mode ! COMM: COM Port is connected. COMM: Get Monitor data COMM: Send Write command ! COMM: Write Data is Successful COMM: Get Monitor data COMM: Get Monitor data							

- 1. Serial Port info (COM Port, Baud Rate)
- 2. "Copy To Data" button- Copies data from "Set" block and applies same values to "Data" block
- 3. "Write IP Settings" button- saves settings (IP, Subnet mask, gateway, Server IP/port) to ACR Hub
- 4. When "Read Data" is clicked, ACR Hub data is shown in this section
- 5. Enter desired IP, Subnet mask, gateway, Server IP settings in this section. Do not change any settings in left column. After entering data, click "Write IP Settings". Then, click "Read Data" button- the settings in this box and #4 should be the same.
- 6. Message log (successful communication, error)

**Server IP (in section 5 of the picture above) should be "112.121.0.140" or change to user's desired local IP setting

3-1. Serial Port Block



_S	erial Port			
1	Port	COM2	-	
2	Baud Rate	9600	-	
	Disconnect		Read Data]
	3		4	

- A. Sets PC's serial communication port
 - Sets PC's serial communication speed (Baud rate)
- B. Serial Communication Speed
 - SET: 115200
 - Smart Controller: 9600
- C. Connection button (PC & SET Communication)
 - Connect: Connect for serial communication between User PC and SET
 - Disconnect: Stop serial communication between User PC and SET
- D. Reads ACR Hub connection info

3-2. Copy to Data



Copies data from "Set" block and applies same values to "Data" block

3-3. Write IP Settings



Applies settings to ACR Hub



3-4. SET Block



- 1) MAC Address Display window
- 2) Display window of Buyer code under master control
- 3) Display window of product model under master control
- 4) ID display window of SET
- 5) Display Group's product quantity under Buyer's control
- 6) Display Group's name under Buyer's control
- 7) IP mode display to show the setting value
- 8) Show IP Display Setting

3-5. Data Block

	Data				
			D.Cotting mode		,
(I)	MAC	0050C2F8E5DD	IP Setting mode	O DHCP	$\overline{\mathcal{O}}$
2	Customer Code	gpous000	l	💿 Static IP	\heartsuit
3	Model Name	SMC	IP address	220.96.80.9	
			Subnet mask	193.89.98.64	8
4	Set ID	1	Gateway	229.145.73.204	
(5)	Group Count	1	Server IP	112.121.0.140	
6	Group Name	GPOUS-221 AV44	Server Port	3000	
<u> </u>					'

- 1) MAC Address Display window
- 2) Client's Code display window under master control
- 3) Product model display window under master control
- 4) ID display window of SET
- 5) Display window of master product's quantity under the client's control
- 6) Set Group name display under the client's control
- 7) Setting IP mode setting
- 8) Setting IP



```
TCP: IP:192.168.2.8 Mask:255.255.255.0
COMM: Enter Bypass Mode !
COMM: COM Port is connected.
COMM: Get Monitor data
COMM: Send Write command !
COMM: Write Data is Successful
COMM: Get Monitor data
COMM: Get Monitor data
```

> Displays communication status, errors, program notifications

4. Installation Process

- 4-1. Open "ACR Network Configuration" Program
- 4-2. Enter Settings in Serial Port Block
- 4-3. Click Connection button (in red below)

ACR Network Configuration 1.2				
Serial Port	Set			
Port COM2 -	MAC	0050C2F8E3DD	IP Setting mode	DHCP
Baud Rate 9600 👻	Customer Code	gpous000]	Static IP
Disconnect Read Data	Model Name	SMC	IP address	220.96.80.9
			Subnet mask	193.89.98.64
Copy to Data	Set ID	1	Gateway	229.145.73.204
	Group Count	1	Server IP	112.121.0.140
	Group Name	GPOUS-221 AV44	Server Port	3000
Write IP Settings	Data			
	MAC	0050C2F8E3DD	IP Setting mode	OHCP
	Customer Code	gpous000	ĺ	Static IP
	Model Name	SMC	IP address	220.96.80.9
			Subnet mask	193.89.98.64
	Set ID	1	Gateway	229.145.73.204
	Group Count	1	Server IP	112.121.0.140
	Group Name	GPOUS-221 AV44	Server Port	3000
		TCP: IP:192.168.2. COMM: Enter Bypass COMM: COM Port is COMM: Get Monitor COMM: Send Write c COMM: Send Write Data i COMM: Get Monitor COMM: Get Monitor	8 Mask:255.255.25 Mode ! connected. data ommand ! s Successful data data	55.0



4-4. Select Read Data button

ACR Network Configuration 1.2					
Serial Port	Set				
Port COM2 -	MAC	0050C2F8E3DD	IP Setting mode	OHCP	
Baud Rate 9600 🚽	Customer Code	gpous000		🔘 Static IP	
Disconnect Read Data	Model Name	SMC	IP address	220.96.80.9	
·,			Subnet mask	193.89.98.64	
Conv to Data	Set ID	1	Gateway	229.145.73.204	
	Group Count	1	Server IP	112.121.0.140	
	Group Name	GPOUS-221 AV44	Server Port	3000	
Write IP Settings	Data				
	MAC	0050C2F8E3DD	IP Setting mode	OHCP	
	Customer Code	gpous000		💿 Static IP	
	Model Name	SMC	IP address	220.96.80.9	
			Subnet mask	193.89.98.64	
	Set ID	1	Gateway	229.145.73.204	
	Group Count	1	Server IP	112.121.0.140	
	Group Name	GPOUS-221 AV44	Server Port	3000	
		TCP: IP:192.168.2.8 Mask:255.255.255.0 COMM: Enter Bypass Mode ! COMM: COM Port is connected. COMM: Get Monitor data COMM: Send Write command ! COMM: Write Data is Successful COMM: Get Monitor data COMM: Get Monitor data			

- Successful when the IP value appears in "Set" box circled in blue in top/right
- Successful when message of "COMM" Get Monitor or data" appears in bottom/right

**Server IP should be 112.121.0.140 or change to user's desired local IP setting



4-5. Select Copy Data button

ACR Network Configuration 1.2				
Serial Port	Set			
Port COM2	MAC	0050C2F8E3DD	IP Setting mode	OHCP
Baud Rate 9600 👻	Customer Code	gpous000]	💿 Static IP
Disconnect Read Data	Model Name	SMC	IP address	220.96.80.9
			Subnet mask	193.89.98.64
Copy to Data	Set ID	1	Gateway	229.145.73.204
li	Group Count	1	Server IP	112.121.0.140
	Group Name	GPOUS-221 AV44	Server Port	3000
Write IP Settings	Data			
	MAC	0050C2F8E3DD	IP Setting mode	DHCP
	Customer Code	gpous000]	💿 Static IP
	Model Name	SMC	IP address	220.96.80.9
			Subnet mask	193.89.98.64
	Set ID	1	Gateway	229.145.73.204
	Group Count	1	Server IP	112.121.0.140
	Group Name	GPOUS-221 AV44	Server Port	3000
		TCP: IP:192.168.2. COMM: Enter Bypass COMM: COM Port is COMM: Get Monitor COMM: Send Write C COMM: Write Data i COMM: Get Monitor COMM: Get Monitor	8 Mask:255.255.29 Mode ! connected. data ommand ! s Successful data data	55.0

- Successful when IP address value appears in "Data" block (circled in bluebottom/right)
- Successful when "COMM: is successful" appears
- a. Set Group Count
- b. Set Group Name
- c. Set IP Setting mode
- d. Set IP of the install location

**Server IP should be 112.121.0.140 or change to user's desired local IP setting



4-6. Select Write Setting button

ACR Network Configuration 1.2					
Serial Port	Set				
Port COM2 -	MAC	0050C2F8E3DD	IP Setting mode	DHCP	
Baud Rate 9600 👻	Customer Code	gpous000]	🔘 Static IP	
Disconnect Read Data	Model Name	SMC	IP address	220.96.80.9	
			Subnet mask	193.89.98.64	
Copy to Data	Set ID	1	Gateway	229.145.73.204	
	Group Count	1	Server IP	112.121.0.140	
	Group Name	GPOUS-221 AV44	Server Port	3000	
Write IP Settings	Data				
ii	MAC	0050C2F8E3DD	IP Setting mode	OHCP	
	Customer Code	gpous000]	💿 Static IP	
	Model Name	SMC	IP address	220.96.80.9	
			Subnet mask	193.89.98.64	
	Set ID	1	Gateway	229.145.73.204	
	Group Count	1	Server IP	112.121.0.140	
	Group Name	GPOUS-221 AV44	Server Port	3000	
		TCP: IP:192.168.2.8 Mask:255.255.255.0 COMM: Enter Bypass Mode ! COMM: COM Port is connected. COMM: Get Monitor data COMM: Send Write command ! COMM: Write Data is Successful COMM: Get Monitor data COMM: Get Monitor data			

- \triangleright
- Click "Write IP Settings" to save settings Successful when "COMM: is successful" appears \triangleright
- Click "Read Data" button to cross-check values of "Set" and "Data" blocks \triangleright

**Server IP should be changed to: 112.121.0.140



ACR Monitor Program

1. Introduction

This section of the user guide pertains to ACR (Auto Condition Reporting) Monitor Program. This program allows users to pull real-time status of groups and individual sets via the network.

- Program: ACR Monitor.msi ACR Monitor Setup.exe

- Operating System : Microsoft Windows XP, WIN7

2. Program Installation

Installing ACR Network Setup

Run the file named "ACR Monitor Setup.exe and follow the instructions below If you have ACR Monitor software installed already, delete/uninstall the previous version and re-install the new one.



Click "Next"



🖥 ACR Monitor	
Select Installation Folder	
The installer will install ACR Monitor to the following folder. To install in this folder, click "Next". To install to a different folder, enter it Folder:	below or click "Browse".
C:WProgram FilesWACR MonitorW Install ACR Monitor for yourself, or for anyone who uses this computer: Everyone Just me 	Browse Disk Cost
Cancel (Ba	ck <u>N</u> ext>

Select the folder you wish to save the file in. Press "Install" if you are ok with the designated folder.



Click "Next"



🛃 ACR Monitor			
Installing ACR Monitor			5
ACR Monitor is being installed.			
Please wait			
			Martin
	Lance	< gack	

Wait until the installation is complete.



Once installation is complete,

Go to "C:\Program Files\ACR Monitor\" to run the program. or go to shortcut to run program at "C:\Users\Public\Desktop"





- 1. PC's IP Address on which ACR Monitor Program being used
- 2. Server connection button
- 3. Displays MAC address and Group Name of the SET on server
- 4. Displays SET (display) status and basic information on server
- 5. Displays the selected SET by the user on server
- 6. Displays messages/feedback



3. IP Address Block



IP Address of PC on which ACR Monitor Program is installed/running

4. Login



- A. Server IP Address. **Server IP should be changed to: 112.121.0.140
- B. Server program allows for setting of access ID (local server- GPO provides ID in other cases).
- C. Server program allows for setting of access password (local server- GPO provides ID in other cases).

5. Server Connection Status



- Display of MAC address and Group Name of the SET on server
 - A. Customer Code of SET on server
 - B. Group Name of SET on Server
 - C. MAC address and Set ID of the SET on server



6. SET Block

Group INDIVIDUAL 003 INDIVIDUAL 001 AL 002	Set ID 3 1 2	Count 1 0 0	Power ON ON ON	Status FE01 FF00 FE01	Temperature 1 0 1	MAC 0050C2F8E01 0050C2F8E00 0050C2F8E01
A	В	C	D	E	F	G (4
<						>

- A. Group Name on server
- B. SET ID on server
- C. Quantity of Group's SETS (displays) on server
- D. Product power (on/off) on server
- E. Status of the SET (ASCII) on server
- F. Temperature status (over/under threshold: "1" indicates "over") of SET on server
- G. MAC Address of SET on server



7. Data Block

Set	Network	Backlight Lamp	Temperature	Power On	Backlight On	Dimming	DC24V	DC12V	DC5V	S5V	SI	S2	5
		8					8				8	8	

- Displays the status of SET on Server
- ACR status indicators of selected SET

ACR Input LED

S1 <i>₽</i>	S2 ₽	S3₽	Inpute
S	8	8	DVI14
8	· 📀	8	DVI2₽
8	. 8		PC₽
S	. 8		HDMI₽
S	Ø	8	DP₽
8	Ø	Ø	Component.

8. Message Block



Window displays connection info and status

• Backlight monitoring function optional.



9. Installation Process

- 1. Install "ACR Monitor" program
- 2. Click LOGIN button



- 3. Log in with customer ID and Password via Server program
- 4. Select the desired SET on server

Group	SetID	Count	Power	Status	Temperature	MAC
INDIVIDUAL 003	3	1	ON	FEØ1	1	0050C2F8E01
INDIVIDUAL 001	1	0	ON	FFØØ	0	0050C2F8E00
AL 002	2	0	ON	FEØ1	1	0050C2F8E01
						-
			Clie	ck SET to vie	ew status of eac	ch
			set	in the desi	red group	
-						
						_
						_
<)	>



10. Checking the status of a selected SET

- Check the product settings on ACR MONITOR PROGRAM
- Green indicators show that parameter being monitored is in good condition, Red indicates a problem or inactivity.
- 1) If the SET is powered on and fully operational with no malfunction,
- All parameters being monitored will show a corresponding green indicator.

• Backlight Lamp monitoring is optional so this status may be displayed in red even when SET is fully operational.



2) If there is NO display, check status of the input signal.

- Check each of the input signals
- Green indicator will be shown for an active input, red indicator for inactive input/no signal

3) If there is an active input as shown in the diagram above but still no display, check the power indicators. There is no active DC24V in the readout above, indicating a board issue.



Remote control mode

(applicable to non-video wall series only)

5. Remote Control Mode



Remote Control Mode activated with this box is selected

💐 Rem	oteControlSe	erver [×
A	Server IP	49, 50, 19, 186	
В	ID		
Õ	Password		
<u> </u>			1.00

- A. Server IP Address.
- B. Enter Remote Control ID created in server program allows for setting of access password (local server- GPO provides ID in other cases).
- C. Enter Remote Control password created in server program allows for setting of access password (local server- GPO provides ID in other cases).

**Server IP should be "112.121.0.140" or change to user's desired local IP setting



Carl Market 200 Image: Carl Market 200 Image: Carl Market 200 Carl Marke															-	
Construction Construction Image: Construction Construction	VCR Monitor 2.0														-	Ŀ
Loguet Description Description <thdescription< th=""></thdescription<>			2)													
SVISON SVISON	92, 163, 0, 27 · Legout			Repote Contr	ol Made											
eventsion 1 eventsion 0000 eventsion 00000 eventsion 00000 eventsion 00000 eventsion 00000 eventsion 00000 eventsion 000000 eventsion 0000000 eventsion 00000000 eventsion 0000000000 eventsion 0000000000000000 eventsion 000000000000000000000000000000000000		- Select I	tes					1	1.0			1				-
■ Init 0 </td <td>GP0U5000</td> <td></td> <td></td> <td>aroup</td> <td>3</td> <td>L</td> <td>. P</td> <td>St.</td> <td></td> <td>calification</td> <td>°a</td> <td>PI4</td> <td>v.</td> <td></td> <td></td> <td>err</td>	GP0U5000			aroup	3	L	. P	St.		calification	°a	PI4	v.			err
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exerce # 8172(3) exerce # 8172(3)	0050C2F8E172(1)			back	2	6	01	FEO	0 30			00	560.20	6E 172		
•••••••••••••••••••••••••••••				bank	3	6	OH	FEB	1 3	7		80	580.21	BE 172		
→ 0005C2F86172(3) → 0005C2F86172(2) → 0005C2F86172(2) → 0005C2F86192(2) → 0005C2F86172(2) → 0005C2F86132(2) → 0005C2F86172(2) → 0005C2F86132(2) → 0005C2F86132(2) → 0005C2F86132(2) → 0005C2F86132(2)		Pos	ier on	- ck	4	6	ON	FEQ	4 3	7		66	5002	8E 172		
Paner 017	- 0050C2F8E172(4)			3 X	5	6	OI	100	0. 30	5		66	50021	61 172		
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•••••••••••••••••••••••••••••	Banacoral			- Jus	1	2	OFF	880	0 33	7		66	50021	8E 049	•	
-0056C2F#E132(2) -0056C2F#E132(2) -0056C2F#E132(3) -0056C2F#E132(4) -0056C2F#E132(1) -0056C2F#E132(1) -0056C2F#E132(1) -0056C2F#E132(1) -0056C2F#E132(2)	-0050C2E8E132(1)		LEVIT.	aPous	2	2	OFF	880	60 33	7		86	58021	BE 049	£	
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-0050C2F8E1A7(1) -0050C2F8E1A7(2) -0050C2F8E1A7(2) -0050C2F8E1A7(4) rmbsyste -0050C2F8E1A7(2) -0050C2F8E1D2(3) -0050C2F8E1D2(3) -0050C2F8E1D2(5) -0050C2F8E1D2(6)	Bansong2			554nch SNB 3+3			08	FFG	10 30			00	546.21	BF 102		
- 0050C2F8E1A7(2) - 0050C2F8E1A7(3) - 0050C2F8E1A7(4) - 0050C2F8E1D2(3) - 0050C2F8E1D2(3) - 0050C2F8E1D2(3) - 0050C2F8E1D2(5) - 0050C2F8E1D2(5) - 0050C2F8E1D2(5) - 0050C2F8E1D2(6)	0050C2F8E1A7(1)	-		BRANCH PHR R.1					10 10			-	and 10	RE 101		
- 0050C2F 821A7(3) - 0050C2F 821A7(4) - 0050C2F 821D2(1) - 0050C2F 821D2(2) - 0050C2F 821D2(3) - 0050C2F 821D2(5) - 0050C2F 821D2(5) - 0050C2F 821D2(5) - 0050C2F 821D2(6) - 0050C2F 821D2(6) - 0050C2F 821D	- 0050C2F8E1A7(2)			<			- 4									2
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nnbayste = 55inch_SHB_3x2 - 0050C278:102(1) - 0050C278:102(2) - 0050C278:102(3) - 0050C278:102(6) = 0050C278:102(6) EHTER NEHU EXIT NEHU EXIT TOP: 1P:192.104.0.27 Mesk:255.255.00 TOP: 1ACR Manager Server] 49.50.19.184:8686 Connected NETH (ACR Manager Server] 10gin is successful. TOP: [Reaote Cotrol Server] 10gin is successful. TOP: [Reaote Cotrol Server] 10gin is successful.	0050C2F8E1A7(4)						8									
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B050C2F8E1D2(6) ENTER NENU EXIT B050C2F8E1D2(6) B050C2F8E1D2(6) ENTER NENU EXIT EXI	-0050C2F8E1D2(4)									10						2
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MERU EXIT Log Clean log Input Source : NO SYME TCP: I/CP: I/CP:<	- 6056521 00 102 (0)				-					_	-					-
TCP: IP:192.108.0.27 Mesk:255.255.0 TCP: [ACR Nanager Server] 49.50.19.186:8686 Connected WET: [ACR Nanager Server] 49.50.19.186:000 Connected WET: [Remote Cotrol Server] 49.50.19.186:000 Connected WET: [Remote Cotrol Server] 10gin is successful.		MEILU	EXIT	Log Clean log							11		sourc	8 C 1	40 SY	
TOP: [ACR Manager Server] 49.50.19.186:8888 Connected NET: [ACR Manager Server] login is successful. TOP: [Reacte Cotrol Server] 49.50.19.186:4020 Connected NET: [Reacte Cotrol Server] login is successful.				TCP: 1P:192.168.0	. 27 Mask:	:255.2	255.255.	0								-
5				TCP: [ACR Namag	er Serve	r] 49.	50.19.1	56:888	SB Conn	ecter	1					
5				NETI (ACR Manag	er Server	r] 10	gin is s	uccess	sful.							
				TCP1 [Remote Cotr	ol Server	r] 49.	50.19.1	861402	20 Conn	ecter	1					
5				MET: [Member corr.	or serve	1 10	110 18 8	CCC 65 1								
			5)													

- 1. Displays MAC address and Group Name of the SET on server
 - Click Group name to control all displays in the group at once
 - -Click specific sets the list under the group to control individually
- 2. Name of selected group or set selected for control
- 3. Power On/Off control button
- 4. Source select buttons.
- 5. Virtual Remote Control button (Remote controller)



5-1. Select Item.



> Name of selected group or set selected for control

5-2. Power On / Off.



Power On/Off control buttons

5-3. Input Source.



- A. Select "Diamond"
- B. Select input signal/source



5-4. Virtual Remocon.



Remote control buttons

6. Server connection status



- Displays MAC address and Group Names of Sets (displays) on server or connected on local network
- A. Displays Customer Code of SETs on server
- B. Displays Group Names of SETs on server
- C. Displays MAC addresses and SET IDs of SETs on server



ACR Serial Protocol

SICP (Serial Interface Communication Protocol)

This document defines all the command and messages exchanged between the Master (a PC or the other controller) and the Slave (the displays). It also describes the ways to send or read the commands or the messages.

1. Protocol definition

SICP stands for "Serial Interface Communication Protocol".

The protocol is specifically designed to allow data communication in half duplex multi-point environments, but it can also be used for half duplex point-to-point RS-232C communication.

2. Communication characteristics

A half duplex communication is implemented starting from the concept of a master-slave structure, where the display is supposed to be the slave.

The first action is always taken by the master, which can be either a PC or any controlling device (acting as server) interfaced to the monitor. After sending a command or a request in the appropriate format the master receives from the slave an acknowledgement, which tells the transmitter whether the command is not valid (or not executable, anyway) or it is accepted. In case of a request, the requested information is sent back and it becomes the acknowledgement by itself.

3. How to connect a external equipment

Fe	emale Pin number	Male Pin number
2	<	> 2
3	<	> 3
5	<	> 5



4. Hardware Protocol



Display

Send the packet below from control device in order to receive status acknowledgement

Send Status Data

- ID1 ~ ID3 : Set ID ("001" ~ "100") - DA1 ~ DA3 : Status Data

STX	ID1	ID2	ID3	CM1	CM2	CM3	R/W	DA1	DA2	DA3		ETX
0x0f				R	D	S	#				#	0x0d
Hex			ASCII	(capita	ıl letter		Hex		ASCII	Hex		



[Status Data Code Value]

(bit 0, bit 1, bit 2 always "0")

	DA1							DA2							DA3								
7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
					0	0	0						0	0	0				х	Х	0	0	0

("x" : unsed code)

- DA1.7 : Active System (On: 1, Off: 0)
- DA1.6 : Backlight Lamp (On: 1 , Off: 0)

DA1.5 : Temperature (Below 80°C:1 , Over 80°C: 0)

DA1.4 : Power On (On: 1 , Off: 0)

DA1.3 : Backlight On (On: 1 , Off: 0)

DA2.7 : Backlight Dimming (On: 1, Off: 0)

DA2.6 : DC24V (On: 1 , Off: 0)

DA2.5 : DC12V (On: 1 , Off: 0)

- DA2.4 : DC5V (On: 1 , Off: 0)
- DA2.3 : S5V (On: 1 , Off: 0)

DA3.7 : DVI1 Signal (On: 1 , Off: 0) DA3.6 : DVI2 Signal (On: 1 , Off: 0) DA3.5 : PC Signal (On: 1 , Off: 0) * < > Hex Value

Ex)

<0x0F>003RDSR0000<0x0D> (Read System Status Set ID : 003) <0x0F>003RDS#<0x78><0xF8><0x20>#<0x0D> (ACK System Status Set ID : 003)



Troubleshooting with the ACR





Input-2 (yellow): Indicates whether DVI #2 input is active. This light will be on if you are running a source through this input.



Input-3 (yellow): Indicates whether VGA input is active. This light will be on if you are running a source through this input.