IP Control Guide

Date	Version No.	Updates
9 th Sep, 2024	V1.0	Improved layout for clarity.
6 th Apr, 2025	V1.1	Corrected BM/GM series command format to ASCII.
		Added command format summary table.
		Clarified command examples for BM/GM series.
		Improved layout for clarity.

Introduction

This guide provides instructions for setting up and using IP control for Hisense digital signage displays. IP control allows you to manage these displays over a local area network (LAN) using TCP/IP network protocols. Commands to control the display are sent in different formats depending on the product series.

Product Series	Command Format	Default Port
E series	HEX	5000
BM/GM series	ASCII	8088
DM/GM50D series	HEX	8000

Prerequisites

- Stable local area network (LAN) with all devices connected.
- A computer or control device with IP control software installed.
- Basic networking knowledge.
- Ensure all displays and control devices are on the same LAN.

Network Setup

- Connect all displays and control devices to the same LAN.
- Assign static IP addresses to displays for stable control access.
- Check IP addresses via display settings or router interface.

Understanding IP Control Protocols

- TCP/IP Protocol: All Hisense displays use TCP/IP for communication.
- Command Format: Depends on the series:
 - E series and DM/GM50D: HEX string commands.
 - BM/GM: ASCII text commands.

E series

Product Series	Android	Product Model	Firmware Version
E	8.0	43B4E31T	FBV02.03
		55B4E31T	FBV01.08
		65B4E31T	FBV02.04
		75B4E30T (A000)	FBV02.06
		86B4E30T	FBV01.08

Series-Specific Instructions

- Default port: 5000
- Sample Command: Power off the display
 - o A6010000004011801BB
- Use TCP client software (e.g., Docklight Scripting).
- Enter HEX string commands and send.

Starting the IP Control Server

- 1. Lauch the IP Control on the display (Setting->Remote Control->Network control->Enable) (A1).
- 2. Setting the Port Number: The default port number for IP control is **5000**. If this port is occupied, choose a port between **5000–12000**.





Connecting a Client to the IP Control Server

- 1. Use a client application such as Net Assist (B1).
- 2. Select "TCP Client" mode.
- 3. Enter the server IP address and port number.
- 4. Click "Connect" to establish a connection.

·	NetAssist (V3.7)		(×
Settings (1) Protocol TCP Client (2) Secure IP	Receive		
(2) Server IP 192.168.1.1 (3) Server Port			
Connect			
Recv Options Receive to file Add line return Receive As HEX Receive Pause Save Clear			
Send Options Data from file Auto Checksum Auto Clear Input Send As Nex Send Cyclic			
Interval 1000 ms DD F	F 00 07 C1 26 00 00 01 01 E0 BB C	C	Grand

Command Table

Name	Set	Get	Code	Example (PC → HISENSE DISPLAY)	Example (HISENSE DISPLAY ->
					PC)
Set Screen Aspect	\checkmark		0x3A	0xA6 0x01 0x00 0x00 0x00 0x04 0x01 0x3A data[1] checksum	210100000401000025
Ratio				data[1]: FuLL-0x00	
				eg: Aspect Ratio is FuLL A60100000004013A0098	
Get Screen Aspect		\checkmark	0x3B	A6010000003013B9E	Current Aspect Ratio is FuLL
Ratio				data[1]: FuLL-0x00	2101000004013B001E
Catlida a Daranaa	/		0.70		010100000401000005
Set video Params	\checkmark		UXSZ	data[3] data[4] data[5] data[6] data[7] obooksum data[1]:	210100000401000025
				data[2]: Brightness in OSD (0-100) data[3]: Contrast	
				(0-100)	
				data[4]: Colour Temperature (0-normal /1-cool/2-warm)	
				data[5]: Overscan(0-close/1-open)	
				data[6]: PCMode(0-Auto/1-PC/2-video) data[7]:	
				Sharpness in OSD(0-100)	
				PICMODE:	
				HI_MW_PICMODE_USER = 3,	
				HI_MW_PICMODE_AIRPORT = 7,	
				$HI_MW_PICMODE_HOTEL = 8,$	
				$HI_MW_PICMODE_DINING = 9,$	
				$HI_MW_PICMODE_SECURITY = 10,$	
				$HI_MW_PICMODE_OFFICE = 11,$	
				HI_MW_PICMODE_OUTDOOR = 12	
				ex: PICMODE is user, brightness 32, contrast 32, cool, overscan	
				01, PC, Sharphess 50 IP Control Only	
Get Video Params			0v33	460100000003013205202001010152AE	PICMODE is user brightness
		v	0,00	4001000000000000000000	32 contrast 32 cool
					overscan on PC. Sharpness
					50
					210100000A013303202001010
					13226
Set Remote Control	\checkmark		0x1C	0xA6 0x01 0x00 0x00 0x00 0x04 0x01 0x1C data[1] checksum	210100000401000025
Lock Mode				data[1]: unlock-0x01 lock-0x02	
				ex:	
				A6010000004011C01BF - unlock	
				A6010000004011C02BC - lock	
Get Remote Control		\checkmark	0x1D	A60100000003011DB8	Current state is lock
Lock Mode					2101000004011D02A
Set Schedule for	\checkmark		0x5A	0xA6 0x01 0x00 0x00 0x00 0x0C 0x01 0x5A data[1] data[2] data[3]	21010000040100025
power on/off				data[4] data[5] data[6] data[7] data[8] data[1]: bit 7- bit 4:1 to 7	

Name	Set	Get	Code	Example (I	PC -> HISENSE DISPLAY)	Example (HISENSE DISPLAY ->
				of the scheduling pages, - bit 0: Page disable-0 Pag data[2]: Start time bour(bit 3 ge enable-1 1-23) data[3]: Start tim	e minute $(0-50)$	
				data[4]: End time hour(0-	-23) data[5]: End time	minute(0-59)	
				CMS-0x12 Media I	Player-0x16 Custom-0x	18 data[7]:	1.62
				Wednesday-Bit3 Tuesda	y-Bit4 Monday-	-Bit2 Bit5 Sunday-	
				Bitó every w data[8]: For Media Player	/eek-Bit/		
				none-0x00 Tag 1-0x01 Tag 4-0x04 Tag 5-0	Tag 2-0x02 0x05	Tag 3-0x03 Tag 6-0x06	
				Tag 7-0 ex: page 5, enable (00110)x07 data[9]: Volume (001 = 0x51), power on	0-100) at 13:00,	
				power off at: 13:05, source A60100000000015A510D00	e HDMI2,every Mondo 00D0506A0003230	ay, volume 50	
Get Schedule		\checkmark	0x5B	0xA6 0x01 0x00 0x00 0x00	0x04 0x01 0x5B data[1]	checksum	enable power on at 13:00,
				Data[1]: 1 to 7 of the sched	luling pages		power off at: 13:05, source
						50	HDMI2, every Monday,
				ex: get schedule of page	1 A6010000004015801	F8	volume 50 210100000001580100000005
							06A00032E6
Set Screen on/off &	\checkmark		0x18	0xA6 0x01 0x00 0x00 0x00	0x04 0x01 0x18 data[1] 0	checksum	210100000401000025
power on					reen on -uxus screen (oπ - 0x04	
				A6010000004011801BB pc	wer off A6010000004	011803B9	
				screen on			
				A60100000004011804BE sc	reen off		
Set Key	\checkmark		0xB0	0xA6 0x01 0x00 0x00 0x00	0x05 0x01 0xB0 data[1]	data[2]	210100000401000025
(simulate Remote				checksum			
Controller Key)				data[1]: IR Key(High) data	[2]: IR Key(low)		
Set Key	\sim		0xB0	0xA6 0x01 0x00 0x00 0x00	0x05 0x01 0xB0 data[1	data[2]	210100000401000025
(simulate Remote							
Controller Key)				data[I]: IRKey(High)datc	[2]: IR Key(low)		
				Key Key Value	Key KEY DOWN	Key Value	
				KEY_2 0x03	KEY_DOWN KEY_MUTE	0x8C 0x71	
				KEY_3 0x04	KEY_VOLUMEDO WN	0x72	
				KEY_4 0x05	KEY_VOLUMEUP	0x73	
				KEY_5 0x06	KEY_POWER	0x74	
				KEY_7 0x08	KEY_PIAY/PAUS E	OxA4	
				KEY_8 0x09	KEY_STOP	0xA6	
				KEY_9 OxOA	KEY_REWIND	0xA8	

Name	Set	Get	Code		Example (F	PC -> HISENSE DISPLAY)	Example (HISENSE DISPLAY -> PC)
				KEY_O	OxOB	KEY_FASTFORW ARD	0xD0	
				KEY_OK	0x1C	KEY_SOURCE	OxFA	
				KEY_ HO ME	0x66	KEY_MENU	OxFD	
				KEY_UP	0x67	KEY_INFO	0x0166	
				KEY_L EF T	0x69	KEY_CMS	0x0305	
				KEY_R IG HT	0x6A	KEY_TIME	0x0309	
				ex: set v A6010000	olume to 0 - mu 2000501B0007162	te		

BM/GM series

Product Series	Android	Product Model	Firmware Version
BM	9.0	32BM66AE	N1027
		43BM66AE	N1027
		43BM66AE (A000)	N1027
		49BM66AE (A000)	N1027
		55BM66AE (A000)	N1027
		65BM66D	N0609
		100BM66D	N0512
GM	9.0	50GM60AE	M0804
		55GM60AE	M0804
		65GM60AE	M0804

Series-Specific Instructions

- Default port: 8088
- Launch the IP Control app on the display.
- The server starts automatically when the app opens.
- Use TCP client software (e.g., Net Assist).
- Select TCP Client mode, enter IP and port, and click Connect.
- Important: BM/GM series accepts ASCII commands, not HEX.

Starting the IP Control Server

1. Launch the IP Control app on the display (A1).



- 2. Setting the Port Number: The default port number for IP control is **8088**. If this port is occupied, choose a port between **5000–12000**.
- 3. The IP control server is activated by default when the app is opened. The button will toggle to "Stop" when the server is active. (A2)
- 4. Click the "Stop" button to inactivate the server when not needed. The button will toggle to "Start" when the server is inactive. (A3)





Connecting a Client to the IP Control Server

- 1. Use a client application such as Net Assist (B1).
- 2. Select "TCP Client" mode.
- 3. Enter the server IP address and port number.



4. Click "Connect" to establish a connection.

1 ·	NetAssist (V3.7)	- 🗆 🤇
Settings (1) Protocol (2) Server IP (3) Server Port (30) Server Port	- Tata Receive	
Connect Recv Options Receive to file		
☐ Add line return ✓ Receive Ax HEX ☐ Receive Pause Save Clear		
Send Options Data from file Auto Checksum Auto Clear Input Send As Hex Send Cyclic	Ş.,	
Interval 1000 ms	DD FF 00 07 C1 26 00 00 01 01 F0 BB CC	

Command Table

Command	Command	Start	Length	Command	ID	Data	Verify	End Code
	Туре	Code		Code				
Screen on/off	On Send	DD FF	00 07	C1 31 00 01	01	01	F6	BB CC
	command							
	On Receive	AB AB	00 07	C1 31 00 01	01	01	F6	CD CD
	command							
	Off Send	DD FF	00 07	Cl 3l 00 0l	01	00	F7	BB CC
	command							
	Off Receive	AB AB	00 07	C1 31 00 01	01	00	F7	CD CD
	command							
Inquire the	Send	DD FF	00 06	C1 1B 00 00	01		DD	BB CC
Software Version	command							
	Receive	AB AB	00 09	C1 1B 00 00	01	XX XX XX	XX	CD CD
	command					The first 'XX' stands for		
						Year;		
						The second 'XX' stands for		
						Month;		
						The third 'XX' stands for		
						Day.		
Set lime (Day/	Send	DD FF	00 09	C1 1C 00 00	01	XX XX XX	XX	BB CC
Month/Year)	command					The first 'XX' stands for Year;		
						The second 'XX' stands for		
						Month;		
						The third 'XX' stands for		
						Day.		

Command	Command	Start	Length	Command	ID	Data	Verify	End Code
	Турө	Code		Code				
	Receive	AB AB	00 09	C1 1C 00 00	01	XX XX XX	XX	CD CD
	command					The first 'XX' stands for		
						Year;		
						The second 'XX' stands for		
						Month;		
						The third 'XX' stands for		
						Day.		
Set lime	Send	DD FF	00 09	C1 1D 00 00	01	XX XX XX	XX	BB CC
(Hour/Minute/	command					The first 'XX' stands for		
Second)						Hour;		
						The second 'XX' stands for		
						Minute;		
						The third 'XX' stands for		
						Second.		
	Receive	AB AB	00 09	C1 1D 00 00	01	XX XX XX		CD CD
	command					The first 'XX' stands for		
						Hour;		
						The second 'XX' stands for	XX	
						Minute;		
						The third 'XX' stands for		
						Second.		
Reboot the	Send	DD FF	00 06	C1 1E 00 00	01		D8	BB CC
HISENSE DISPLAY	command							
	Receive	AB AB	00 06	C1 1E 00 00	01		D8	CD CD
	command							
Power On/Off	Power on Send	DD FF	00 08	C1 15 00 00	01	BB BB	DD	BB CC
	command							
	Power on	AB AB	00 08	C1 15 00 00	01	BB BB	DD	CD CD
	Receive							
	command							
	Power off Send	DD FF	00 08	C1 15 00 00	01	AA AA	DD	BB CC
	command							
	Power off	AB AB	00 08	C1 15 00 00	01	AA AA	DD	CD CD
	Receive							
	command							
Set Volume	Send	DD FF	00 07	C1 27 00 00	01	XX Volume Value	XX	BB CC
	command							
	Receive	AB AB	00 07	C1 27 00 00	01	XX Volume Value	XX	CD CD
	command							
Mute Control	Mute off Send	DD FF	00 07	C1 26 00 00	01	00	El	BB CC
	command							
	Mute off	AB AB	00 07	C1 26 00 00	01	00	El	CD CD
	Receive							

Command	Start	Length	Command	ID	Data	Verify	End Code
Турө	Code		Code				
command							
Mute on Send	DD FF	00 07	C1 26 00 00	01	01	EO	BB CC
command							
Mute on	AB AB	00 07	Cl 26 00 00	01	01	EO	CD CD
Receive							
command							
Send	DD FF	00 06	C1 01 00 00	01		C7	BB CC
command							
Receive	AB AB	00 06	C1 01 00 00	01		C7	CD CD
command							
Send	DD FF	00 06	C1 10 00 00	01		D6	BB CC
command							
Receive	AB AB	00 06	C1 10 00 00	01		D6	CD CD
command							
Send	DD FF	00 07	C1 35 00 00	01	00 stands for rotating 0	XX	BB CC
command					degree;		
					01 stands for rotating 90		
					degrees; Take effect after		
					reboot.		
Receive	AB AB	00 07	C1 35 00 00	01	00 stands for rotating 0	XX	CD CD
command					degree; 01 stands for		
					rotating 90 degrees; Take		
					effect after reboot.		
Send .	DD FF	00 07	Cl 36 00 00	01	XX stands for brightness.	XX	BB CC
command							
Receive	AB AB	00 07	CI 36 00 00	01	X stands for brightness.	XX	CD CD
command							
Send	DD FF	00 07	CI 37 00 00	01	XX stands for contrast.	XX	BB CC
commana		00.07	01 77 00 00	01		207	
Receive	AB AB	00.07	CI 37 00 00	01	XX stands for contrast.	XX	CD CD
commana		00.07	01 70 00 00	01		207	D 00
Sena	DD FF	00.07	CI 39 00 00	01	XX UI stands for Cold; U2	XX	BCC
commana					stands for Slight Cold; US		
					stands for Slight Warm; 04		
•					stands for Standard		
Pagaiva		00.07	C1 30 00 00	01	XX 01 stands for Cold: 02	vv	
command	AD AD	0007	01070000	U	stands for Slight Cold: 03	~~	
Communa					stands for Slight Warm 04		
					stands for Wann [,] 00		
					stands for Standard		
	Command Type command Mute on Send command Receive command Send command Send command Send command Send command Send command Send command Send command Send command Send command	Command TypeStart CodeImage: CommandDD FFMute on Send commandDD FFMute on Receive commandDD FFSend commandDD FFCommandDD FFSendDD FFCommandDD FFSendDD FFCommandDD FFSendDD FFCommandDD FFSendDD FFCommandAB ABCommandAB ABCommandA	Command TypeStart CodeLengthImmandCodeImmandMute on Send commandDD FF00 07Mute on Receive commandAB AB00 07SendDD FF00 06CommandImmandImmandSendDD FF00 06commandImmandImmandSendDD FF00 06commandImmandImmandSendDD FF00 06commandImmandImmandSendDD FF00 07commandImmandImmandSendDD FF00 07commandImmandImmandReceiveAB AB00 07commandImmandImmandSendImmandImmandCommandImmandImmandSendImmandImmandSendImmand <td>Command TypeStart CodeLength CodeCommand CodeImport CommandDD FF00 07Cl 26 00 00Mute on Send commandAB AB00 07Cl 26 00 00Receive commandDD FF00 06Cl 01 00 00Send commandDD FF00 06Cl 01 00 00Receive commandAB AB00 06Cl 01 00 00Send commandDD FF00 06Cl 10 00 00Send commandDD FF00 06Cl 10 00 00Send commandDD FF00 07Cl 35 00 00Send commandDD FF00 07Cl 36 00 00Send commandDD FF00 07Cl 36 00 00Send commandDD FF00 07Cl 36 00 00Send commandDD FF00 07Cl 37 00 00Send commandDD FF00 07Cl 37 00 00Send commandDD FF00 07Cl 37 00 00Send commandDD FF00 07Cl 39 00 00Send command<</td> <td>Command TypeStart CodeLength CodeCommand CodeImage: CommandDD FF00 07C126 00 0001Mute on Send commandDD FF00 07C126 00 0001Mute on Receive commandAB AB00 07C126 00 0001Mute on Receive commandAB AB00 07C1010 00 001Send commandDD FF00 06C1010 00 001Send commandDD FF00 06C1010 00 001Send commandDD FF00 06C100 00 001Send commandDD FF00 07C135 00 0001Receive commandAB AB00 07C135 00 0001Send commandDD FF00 07C136 00 0001Send commandDD FF00 07C137 00 0001Receive commandAB AB00 07C137 00 0001Send commandDD FF00 07C139 00 0001Receive commandAB AB00 07C139 00 0001Send commandDD FF00 07C139 00 0001Send commandDD FF00 07C139 00 0001Send commandDD FF0</td> <td>Command TypeStartLengthCommandDo DataTypeCodeCodeCodeCommandDD FF00 07C126 00 000101Mute on Send commandDD FF00 07C126 00 000101Mute on Receive commandAB AB00 07C126 00 000101Send commandDD FF00 06C10100 000101Receive commandAB AB00 06C1010 00 000101Receive commandAB AB00 06C10 00 000101Send commandDD FF00 07C135 00 000101Receive commandAB AB00 07C135 00 000100 stands for rotating 0 degree; 01 stands for rotating 0 degree; 01 stands for rotating 0Send commandDD FF00 07C135 00 000100 stands for rotating 0 degree; 01 stands for rotating 0Receive commandAB AB00 07C135 00 0001X stands for brightness. effect after reboot.Receive commandAB AB00 07C136 00 0001X stands for contrast. commandSend commandDD FF00 07C136 00 0001X stands for contrast. effect after reboot.Send commandDD FF00 07C137 00 0001X stands for contrast. commandSend commandDD FF00 07C137 00 0001X stands for contrast. contrast.Send commandDD FF00 07<td>Command TypeStartLengthCommand CodeIDDataVerifyTypeCode<</td></td>	Command TypeStart CodeLength CodeCommand CodeImport CommandDD FF00 07Cl 26 00 00Mute on Send commandAB AB00 07Cl 26 00 00Receive commandDD FF00 06Cl 01 00 00Send commandDD FF00 06Cl 01 00 00Receive commandAB AB00 06Cl 01 00 00Send commandDD FF00 06Cl 10 00 00Send commandDD FF00 06Cl 10 00 00Send commandDD FF00 07Cl 35 00 00Send commandDD FF00 07Cl 36 00 00Send commandDD FF00 07Cl 36 00 00Send commandDD FF00 07Cl 36 00 00Send commandDD FF00 07Cl 37 00 00Send commandDD FF00 07Cl 37 00 00Send commandDD FF00 07Cl 37 00 00Send commandDD FF00 07Cl 39 00 00Send command<	Command TypeStart CodeLength CodeCommand CodeImage: CommandDD FF00 07C126 00 0001Mute on Send commandDD FF00 07C126 00 0001Mute on Receive commandAB AB00 07C126 00 0001Mute on Receive commandAB AB00 07C1010 00 001Send commandDD FF00 06C1010 00 001Send commandDD FF00 06C1010 00 001Send commandDD FF00 06C100 00 001Send commandDD FF00 07C135 00 0001Receive commandAB AB00 07C135 00 0001Send commandDD FF00 07C136 00 0001Send commandDD FF00 07C137 00 0001Receive commandAB AB00 07C137 00 0001Send commandDD FF00 07C139 00 0001Receive commandAB AB00 07C139 00 0001Send commandDD FF00 07C139 00 0001Send commandDD FF00 07C139 00 0001Send commandDD FF0	Command TypeStartLengthCommandDo DataTypeCodeCodeCodeCommandDD FF00 07C126 00 000101Mute on Send commandDD FF00 07C126 00 000101Mute on Receive commandAB AB00 07C126 00 000101Send commandDD FF00 06C10100 000101Receive commandAB AB00 06C1010 00 000101Receive commandAB AB00 06C10 00 000101Send commandDD FF00 07C135 00 000101Receive commandAB AB00 07C135 00 000100 stands for rotating 0 degree; 01 stands for rotating 0 degree; 01 stands for rotating 0Send commandDD FF00 07C135 00 000100 stands for rotating 0 degree; 01 stands for rotating 0Receive commandAB AB00 07C135 00 0001X stands for brightness. effect after reboot.Receive commandAB AB00 07C136 00 0001X stands for contrast. commandSend commandDD FF00 07C136 00 0001X stands for contrast. effect after reboot.Send commandDD FF00 07C137 00 0001X stands for contrast. commandSend commandDD FF00 07C137 00 0001X stands for contrast. contrast.Send commandDD FF00 07 <td>Command TypeStartLengthCommand CodeIDDataVerifyTypeCode<</td>	Command TypeStartLengthCommand CodeIDDataVerifyTypeCode<

Command	Command	Start	Length	Command	ID	Data	Verify	End Code
	Турө	Code		Code				
Set Zoom	Send	DD FF	00 07	C1 3B 00 00	01	XX 02 stands for Zoom	XX	BB CC
(811 not support)	command					Standard, others stand for		
						Full Screen.		
	Receive	AB AB	00 07	C1 3B 00 00	01	XX 02 stands for Zoom	XX	CD CD
	command					Standard, others stand for		
						Full Screen.		
Set Boot Time	Send	DD FF	00 07	C1 3C 00 00	01	XX 01 stands for delay of	XX	BB CC
Delay (811 not	command					10s; 02 stands for delay of		
support)						20s; 03 stands for delay of		
						30s; 00 stands for delay of		
						Os.		
	Receive	AB AB	00 07	C1 3C 00 00	01	XX 01 stands for delay of	XX	CD CD
	command					10s; 02 stands for delay of		
						20s; 03 stands for delay of		
						30s: 00 stands for delay of		
						Os.		
Set Definition	Send	DD FF	00 07	C1 38 00 00	01	XX Definition Value	XX	BB CC
	command							
	Receive	AB AB	00 07	C1 38 00 00	01	XX Definition Value	XX	CD CD
	command							
Set Image	Send	DD FF	00 07	C1 3A 00 00	01	XX	XX	BB CC
Denoising	command					00 stands for Off; 01 stands		
						for Low; 02 stands for		
						Medium; 03 stands for		
						High; 04 stands for Auto;		
	Receive	AB AB	00 07	C1 3A 00 00	01	XX	XX	CD CD
	command					00 stands for Off; 01 stands		
						for Low; 02 stands for		
						Medium; 03 stands for		
						High; 04 stands for Auto;		
Get Smart	Send	DD FF	00 06	C1 3E 00 01	01		F9	BB CC
Backlight	command							
Ũ	Receive	AB AB	00	C1 3E 00 01	01	XX	XX	CD CD
	command		07/08			01 stands for Briaht Liaht:		
						02 stands for Soft Light: 03		
						stands for Light Sensed		
						Frequency Conversion: 04		
						stands for Stereo		
						Frequency Conversion: 05		
						stands for Comfortable		
						stands for Custom the		
						sound 'W' stands for the		
1	1	1			1	SECOND AN STUNDS IOF THE		

Command	Command	Start	Length	Command	ID	Data	Verify	End Code
	Турө	Code		Code				
						value of backlight.		
Cat la su juin s	Carad		00.0/	01 70 00 01	01		FF	
Set inquiring	sena	DD FF	00.06	CI 32 00 01	01		FO	BBCC
Screen On/Off	Commana		00.07	01 70 00 01	01	W/ 00 Care an Off 01 Care an		
	Receive	AB AB	00.07	CI 32 00 01	01	XX UU Screen Oπ, UI Screen	XX	CDCD
	commana					Uh.		
Set Smart	Send	DD FF	00 08	C1 32 00 02	01	XX XX 01XX stands for Bight	XX	BB CC
Backlight	command					Light; 02 XX stands for Soft		
						Light; 03 XX stands for Light		
						Sensed Frequency		
						Conversion; 04 XX stands		
						for Stereo Frequency		
						Conversion; 05 XX stands		
						for Comfortable		
						Frequency Conversion; XX		
						does not work above. 06		
						XX stands for Custom, XX		
						stands for value of		
						backlight under this		
		15.15		0170.00.00			201	
	Receive	AB AB	00	CI 32 00 02	01	XX XX OIXX stands for Bight	XX	CDCD
	command		07/08			Light; 02 XX stands for Soft		
						Light; 03 XX stands for Light		
						Sensed Frequency		
						Conversion; 04 XX stands		
						for Stereo Frequency		
						Conversion, 05 XX stands		
						frequency Conversion, XX		
						Westing for Custom XX		
						stands for value of		
						backlight under this		
						circumstance		
Set Boot lime (LITC	Send		00.00	C1.3E.00.02	01	XX Day If () is set Root Time	XX	BBCC
Time if it's GMT+8	command		0007			is off	~~	
minus 8 when	Sommana					XX Hour XX Minute		
	1							

Command	Command	Start	Length	Command	ID	Data	Verify	End Code
	Турө	Code		Code				
setting)	Receive	AB AB	00 09	C1 3E 00 02	01	XX Day If 0 is set, Boot Time	XX	CD CD
	command					is off.		
						XX Hour XX Minute		
Set Power Off lime	Send	DD FF	00 09	C1 FF 00 15	01	XX Day If 0 is set, Power Off	XX	BB CC
(UTCTime, if it's	command					Time is off.		
GMT+8, minus 8						XX Hour XX Minute		
when setting)	Receive	AB AB	00 09	C1 FF 00 15	01	XX Day If 0 is set, Power Off	XX	CD CD
	command					Time is off.		
						XX Hour		
						XX Minute		
Protect against	Send	DD FF	00 07	Cl 33 00 00	01	XX (00 means off, 01	XX	BB CC
screen burn	command					means on)		
Protect against	Receive	AB AB	00 07	C1 33 00 00	01	XX (00 means off, 01	XX	CD CD
screen burn	command					means on)		
(only 551 support,								
811 not								
support)								
Remote Enabled/	Send	DD FF	00 07	C1 70 00 00	01	XX	XX	BB CC
Disabled	command					When XX is 01, disable		
						Remote Control; When XX		
						is 00, enable Remote		
						Control.		
	Receive	AB AB	00 07	C1 70 00 00	01	XX	XX	CD CD
	command					When XX is 01, disable		
						Remote Control; When XX		
						is 00, enable Remote		
						Control.		
Picture Mode	Standard Mode	DD FF	00 07	C1 0F 06 00	01	07	C9	BB CC
	Send							
	Command							
	Standard Mode	AB AB	00 07	C1 0F 06 00	01	07	C9	CD CD
	Receive							
	Command							
	Soft Send	DD FF	00 07	C1 0F 06 00	01	09	C7	BB CC
	Command							
	Soft Receive	AB AB	00 07	C1 0F 06 00	01	09	C7	CD CD
	Command							
	Movie Mode		00.07	C1 0E 06 00	01	ΩΔ	C4	BB CC
	Send		0007				04	
	Command							
	Sommunu							

Command	Command	Start	Length	Command	ID	Data	Verify	End Code
	Турө	Code		Code				
	Movie Mode	AB AB	00 07	C1 0F 06 00	01	OA	C4	CD CD
	Receive							
	Command							
	Vivid Send	DD FF	00 07	C1 0F 06 00	01	08	C6	BB CC
	Command							
	Vivid Receive	AB AB	00 07	C1 0F 06 00	01	08	C6	CD CD
	Command							
Inquire Function	Send	DD FF	00 06	C1 28 00 00	01		EE	BB CC
	Command							
	Receive	AB AB	00 0C	C1 28 00 00	01	XX Volume (Take effect	XX	CD CD
	Command					when power on)		
						XX XX Source (05 05 stands		
						for HDMI1,05 04 stands for		
						HDMI2,05 03 stands for DP,		
						08 01 stands for VGA. Take		
						effect when power on.) XX		
						Power Status (00 stands		
						for power on, FF stands for		
						power off.)		
						XX Mute Status (01 stands		
						for Mute, 00 stands for		
						Non-Mute. Take effect		
						when power on.)		
Inquire Current	Send	DD FF	00 06	C1 1A 00 00	01		DC	BB CC
Source	Command							
	Receive		00.09	C11A 00 00	01	XX XX XX	XX	
	Command		0007		01	05 03 04 stands for		00 00
	Commund					MDMII 05 03 03 stands for		
						HDMI2 05 03 02 stands for		
						DP 06 04 00 stands for		
						VGA.		
Switch Source	Cond		00.07	C1 08 00 01	204		207	
Switch Source	Command	DD FF	0007	CI 08 00 01	XX		XX	
	Communa							
	Dessity		00.07					00.00
	Receive	AR AR	0007	CI 08 00 0I	XX		XX	CDCD
	Commana							
	1			1		17 D9(VGA)		

DM/GM50D series



Product Series	Android	Product Model	Firmware Version
DM	11.0	32DM66D	V1.1.0.2-2024021152738
		43DM66D	V1.1.0.2-2024021152738
		50DM66D	V1.1.0.2-2024021152738
		50DM66E	V1.1.0.2-2024021152738
		65DM66D	V1.1.0.2-2024021152738
		75DM66D	V1.1.0.2-2024021152738
		86DM66D	V1.1.0.2-2024021152738
GM50D	11.0	50GM50D	V1.1.0.2-2024021152738
		55GM50D	V1.1.0.2-2024021152738
		65GM50D	V1.1.0.2-2024021152738
		75GM50D	V1.1.0.2-2024021152738
		86GM50D	V1.1.0.2-2024021152738

Series-Specific Instructions

- Default port: 8000
- Start IP Control app on the display.
- Use TCP client software and input HEX commands.

Starting the IP Control Server

- 1. Launch the IP Control app on the display (A1).
- 2. Setting the Port Number: The default port number for IP control is **8000**. If this port is occupied, choose a port between **5000–12000**.
- 3. The IP control server is activated by default when the app is opened. The button will toggle to "Stop" when the server is active. (A2)
- 4. Click the "Stop" button to inactivate the server when not needed. The button will toggle to "Start" when the server is inactive. (A3)

A1







Connecting a Client to the IP Control Server

- 5. Use a client application such as Net Assist (B1).
- 6. Select "TCP Client" mode.
- 7. Enter the server IP address and port number.
- 8. Click "Connect" to establish a connection.



	B1		
1a • /	WetAssist (V3.7)		\-□×
Settings (1) Protocol TCP Client (2) Server IP 172,25,241.141	Data Receive		
(3) Server Port 8000 Connect	tan an		
Recv Options Receive to file Add line return Receive As HEX Receive Pause Save Clear			
Send Options Data from file Auto Checksum Auto Clear Input Send As Max Send Cyclic			
Interval 1000 ms	DD FF 00 07 C1 26 00 00 01 01 E0 BB CC		Send
F Ready!	Send : O	Recv : 0	Reset

Command Table

Description	Command (HEX Bytes)	Example (PC -> HISENSE DISPLAY)	HISENSE DISPLAY -> PC
Power Off	DD FF 00 08 C1 15 00 00 xx AA AA	DD FF 00 08 C1 15 00 00 01 AA AA DD BB CC	AB AB 00 08 C1 15 00 00 xx AA AA
	уу ВВ СС		yy CD CD
Screen Off	DD FF 00 07 C1 31 00 00 xx 00 yy	DD FF 00 07 C1 31 00 00 01 00 F6 BB CC	AB AB 00 07 C1 31 00 00 xx 00 yy
	BBCC		CD CD
Screen On	DD FF 00 07 C1 31 00 00 xx 01 yy	DD FF 00 07 C1 31 00 00 01 01 F7 BB CC	AB AB 00 07 C1 31 00 00 xx 01 yy CD
	BBCC		CD
Reboot	DD FF 00 06 C1 1E 00 00 xx yy BB	DD FF 00 06 C1 1E 00 00 01 D8 BB CC	AB AB 00 06 C1 1E 00 00 xx yy CD
	СС		CD
Set AC Power	DD FF 00 07 C1 FF 00 09 xx zz yy	DDFF0007C1FF0009010031BBCC	AB AB 00 07 C1 FF 00 09 xx zz yy
On Mode	BBCC	zz: power on mode. 00 – direct, 01 – last, 02 –	CD CD
		standby	
		direct: DD FF 00 07 C1 FF 00 09 01 00 31 BB CC	
		last: DD FF 00 07 C1 FF 00 09 01 01 30 BB CC	
		standby: DD FF 00 07 C1 FF 00 09 01 02 33 BB	
		СС	
DP Input	DD FF 00 07 C1 08 00 00 xx 16 yy	DDFF0007C10800000116D9BBCC	AB AB 00 07 C1 08 00 00 xx 16 yy
	BBCC		CD CD
VGA Input	DD FF 00 07 C1 08 00 00 xx 17 yy	DDFF0007C10800000117D8BBCC	AB AB 00 07 C1 08 00 00 xx 17 yy
	BBCC		CD CD
HDMI1 Input	DD FF 00 07 C1 08 00 00 xx 0E yy	DDFF0007C1080000010EC1BBCC	AB AB 00 07 C1 08 00 00 xx 0E yy
	ВВСС		CDCD
HDMI2 Input	DD FF 00 07 C1 08 00 00 xx 0F yy	DDFF0007C1080000010FC0BBCC	AB AB 00 07 Cl 08 00 00 xx 0F yy
	BBCC		CD CD

Description	Command (HEX Bytes)	Example (PC -> HISENSE DISPLAY)	HISENSE DISPLAY -> PC
PC Input	DD FF 00 07 C1 08 00 00 xx 0C yy	DDFF0007C1080000010CC3BBCC	AB AB 00 07 C1 08 00 00 xx 0C yy
	BBCC		CD CD
DVI Input	DD FF 00 07 C1 08 00 00 xx 09 yy	DDFF0007C10800000109C6BBCC	AB AB 00 07 Cl 08 00 00 xx 09 yy
	BBCC		CD CD
Set Screen	DD FF 00 07 C1 35 00 00 xx zz yy	set screep rotation: Landscape: DD FF 00 07	AB AB 00 07 Cl 35 00 00 xx zz yy
Rotation	BBCC	C1 35 00 00 00 00 F3 BB CC Portrait: DD FF 00	CD CD
		07 C1 35 00 00 00 01 F2 BB CC	
Set Mute	DD FF 00 07 C1 26 00 00 xx 01 yy	DDFF0007C12600000101E0BBCC	AB AB 00 07 C1 26 00 00 xx 01 yy
	BB CC		CD CD
Set Unmute	DD FF 00 07 C1 26 00 00 xx 00 yy	DDFF0007C12600000100E1BBCC	AB AB 00 07 C1 26 00 00 xx 00 yy
	BBCC		CDCD
Set Volume	DD FF 00 07 Cl 27 00 00 xx zz yy	DDFF0007C12700000101E1BBCC zz: volume	AB AB 00 07 Cl 27 00 00 xx zz yy
	BBCC	range 0-100	CD CD
Set Backlight	DD FF 00 08 C1 32 00 00 xx 06 zz	ex: set brightness to 32 - zz = 0x20	AB AB 00 08 C1 32 00 00 xx 06 zz
Brightness	уу ВВ СС	DDFF0008C1320000010620DCBBCC	CD CD
Set Backlight	DD FF 00 07 Cl 34 00 00 xx zz yy	ex: set brightness auto adust off	AB AB 00 07 Cl 34 00 00 xx zz yy
Brightness	BBCC	DDFF0007C13400000100F3BBCC $zz = 00 - off$,	CD CD
Auto Adjust		01 - on	
Set Date	DD FF 00 09 C1 1C 00 00 xx zz zz	ex: set date to 23.Jan.2	AB AB 00 09 C1 1C 00 00 xx zz zz zz
	zz yy BB CC	DDFF0009C11C000001170102C1BBCC zz zz zz =	yy CD CD zz zz zz = FF FF FF when
		Year Month Day	error
Set Time	DD FF 00 09 C1 1D 00 00 xx zz zz	ex: set time to 12:25:2	AB AB 00 09 C1 1D 00 00 xx zz zz zz
	zz yy BB CC	DDFF0009C11D0000010C1902C3BBCC zz zz zz	yy CD CD zz zz zz = FF FF FF when
		= Hour Minute Second	error
Set Schedule	DD FF 00 09 C1 3E 00 00 xx tt zz zz	ex: power on at 9:10 every day	AB AB 00 09 C1 3E 00 00 xx zz zz zz
for Power On	уу ВВ СС	DDFF0009C13E00000101090AF5BBCC tt = 00 -	yy CD CD
		turn off schedule, 01 - everyday zz zz = Hour	
		Minute	
		lips: If the device has been set to power on	
		and on at a scheduled time, sending this	
		command will clear the original settings, and	
Sot Sobodula		euving only the one sent.	
for Power Off			
	yy 00 00	turn off schedule 1 - everyddy 77 77 - Hour	
		Tips: If the device has been set with a timed	
		power on/off command all previously set	
		power on/off will be turned off	
Set		ex: set brightness to $32 - 77 = 0.020$	AB AB 00 07 C1 36 00 00 vv 77 vv
Brightness	BB CC	DDEE0007C13600000120D18BCC	
Digita 1033	current source must be: DP VGA		

Description	Command (HEX Bytes)	Example (PC -> HISENSE DISPLAY)	
Set Contrast	DD FF 00 07 C1 37 00 00 xx zz yy	ex: set contrast to 32 - zz = 0x20	AB AB 00 07 C1 37 00 00 xx zz yy
	BBCC	DDFF0007C13700000120D0BBCC	CD CD
	current source must be: DP, VGA,		
	HDMI, PC, DVI		
Set	DD FF 00 07 C1 38 00 00 xx zz yy	ex: set sharpness to 32 - zz = 0x20	AB AB 00 07 C1 38 00 00 xx zz yy
Sharpness	BBCC	DDFF0007C13800000120DFBBCC	CD CD
	current source must be: DP, VGA,		
	HDMI, PC, DVI		
Set Color	DD FF 00 07 Cl 39 00 00 xx zz yy	ex: set colour temperature to 32 - zz = 0x20	AB AB 00 07 Cl 39 00 00 xx zz yy
Temperature	BBCC	DDFF0007C13900000120DEBBCC	CDCD
	current source must be: DP, VGA,		
	HDMI, PC, DVI		
Set Noise	DD FF 00 07 C1 3A 00 00 xx zz yy	ex: set noise reduction to High - zz = 0x03	AB AB 00 07 C1 3A 00 00 xx zz yy
Reduction	BBCC	DDFF0007C13A00000103FEBBCC zz = 01 - low,	CD CD
	current source must be: DP, VGA,	02 - medium, 03 - high, 04 - auto, 00 - off	
	HDMI, PC, DVI		
Set Image	DD FF 00 07 C1 3B 00 00 xx zz yy	ex: set image scaling to Full - zz = 0x03	AB AB 00 07 C1 3B 00 00 xx zz yy
Scaling	BBCC	DDFF000/CI3B00000I03FFBBCC zz = 00 - full,	CDCD
	current source must be: DP, VGA,	01 - 16:9, 02 - 4:3, 03 - scaling 1, 04 - scaling 2,	
a . b .	HDMI, PC, DVI	05 - point to point	
Set Picture	DD FF 00 07 CI 0F 06 00 xx zz yy	ex: set picture mode to movie mode - zz =	AB AB 00 07 CI OF 06 00 XX ZZ YY
MOGO	BRCC	0x03 DDFF0007C10F060001030CBBCC zz = 00	CDCD
		- standard, UI - bright, U2 - solt, U3 - Movie,	
Cat Cound			
Set Sound	BB CC		
MODE	BBCC	77 = 0.0 = standard $0.1 = music 0.2 = news 0.8$	CD
		= movie 10 = sports 20 = custom 30 = voice	
		40 - meeting	
Set Eve	DD FF 00 07 C1 FF 00 1E xx zz vv BB	ex: set eve protection mode on $-zz = 0x01$	AB AB 00 07 C1 FF 00 1E xx zz vv CD
Protection	CC	DDFF0007C1FF001E010127BBCC zz = 00 - off. 01	CD
Mode		- on	
VGA Auto	DD FF 00 07 C1 01 00 00 xx yy BB	ex: VGA Auto Adjust	AB AB 00 07 C1 01 00 00 xx yy CD
Adjust	cc	DDFF0007C101000001C6BBCC zz = 00 - off, 01	CD
-	current source must be VGA	- on	
Set anti-	DD FF 00 07 C1 33 00 00 xx zz vv	ex: set anti-burn-in on	AB AB 00 07 C1 33 00 00 xx zz yv
burn-in	BBCC	DDFF0007C13300000101F4BBCC zz = 00 - off,	CD CD
(image		01 - on	
retention)			
Set Power on	DD FF 00 07 C1 3C 00 00 xx zz yy	ex: set power on delay to 10s	AB AB 00 07 Cl 3C 00 00 xx zz yy
delay	BBCC	DDFF0007C13C0000010AF1BBCC zz = 00 - off,	CD CD
		others - delay time, range: 2s - 255s	

Description	Command (HEX Bytes)	Example (PC -> HISENSE DISPLAY)	HISENSE DISPLAY -> PC
Set Video	DD FF 00 09 C1 0A 00 00 xx zz zz	ex: vertical 3 devices, horizontal 4 devices,	AB AB 00 09 C1 0A 00 00 xx zz zz zz
Wall	zz yy BB CC	device position: 6	yy CD CD
		DDFF0009C10A000001030406C2BBCC zz:	
		how many devices in vertical zz: how many	
		devices in horizontal zz: current device	
		position	
Set Static IP	DD FF 00 16 C1 1B 30 00 xx zz zz	Ex: set IP 10.16.150.225, subnet mask:	AB AB 00 16 C1 1B 30 00 xx zz zz yy
Address of	уу ВВ СС	255.255.248.0, gateway: 10.16.144.1, DNS:	CD CD
LAN		10.16.144.2	
		DDFF0016C11B3000010A1096E1FFFFF8000A1090	
		010A10900249BBCC	
		zz zz - 16 bytes, IP address - 4 bytes, Subnet	
		mask - 4 bytes, gateway - 4 bytes, DNS - 4	
		bytes	
Set USB Lock	DD FF 00 07 C1 FF 00 0E xx zz yy	ex: lock USB DDFF0007C1FF000E010036BBCC	AB AB 00 07 C1 FF 00 0E xx zz yy CD
	BBCC	zz = 00 - lock USB, 01 - enable USB	CD
Factory	DD FF 00 06 C1 10 00 00 xx yy BB	DDFF0006C110000001D6BBCC	AB AB 00 06 C1 10 00 00 xx yy CD
Reset	СС		CD
Query	DD FF 00 06 Cl 28 00 00 xx yy BB	DDFF0006C128000001EEBBCC	AB AB 00 0C Cl 28 00 00 xx zz zz zz
HISENSE	СС		zz zz zz yy CD CD zz: volume zz zz:
DISPLAY			05 01 - PC, 05 02 - DVI, 05 03 - DP,
Status			05 04 - HDMI2, 05 05 - HDMI1, 08 01
			- VGA zz: 00 - power on, FF -
			power off zz: 01 - mute; 00 -
			unmute zz: 00 - no signal, 01 - has
			signal
Query	DD FF 00 06 C1 32 00 01 xx yy BB	DDFF0006C110000001D6BBCC	AB AB 00 07 C1 32 00 01 xx zz yy CD
Screen	СС		CD zz: 00 - screen off; 01 - screen
Status			on
Query	DD FF 00 06 C1 1A 00 00 xx yy BB	DDFF0006C11A000001DCBBCC	AB AB 00 08 C1 1A 00 00 xx zz zz yy
Source	сс		CD CD zz zz - source, refer to user
			menu for source definition
Query SW	DD FF 00 06 C1 1B 00 00 xx yy BB	DDFF0006C11B000001DDBBCC	AB AB 00 09 C1 1B 00 00 xx zz zz zz
Version	СС		yy CD CD zz zz zz - Year Month
			Date
Query	DD FF 00 06 C1 3E 00 24 xx yy BB	DDFF0006C13E000001F8BBCC	AB AB 00 LL C1 3E 00 24 xx zz zz yy
Backlight	сс		CD CD zz:01 - bright, 02 - soft, 03
Brightness			- auto adjust, 04 - stereo
			frequency conversion, 05 -
			Comfort frequency conversion,
			06 - custom zz: when first zz is 06
			custom, this byte means
			backlight brightness value: 0-30

Description	Command (HEX Bytes)	Example (PC -> HISENSE DISPLAY)	HISENSE DISPLAY -> PC
			LL: when first zz is zz, LL = 08,
			otherwise, LL = 07
Query	DD FF 00 06 C1 36 00 01 xx yy BB	DDFF0006C136000101F0BBCC	AB AB 00 07 Cl 36 00 0l xx zz yy CD
Brightness	CC		CD zz is the brightness value
Query	DD FF 00 06 C1 FF 00 16 xx yy BB	DDFF0006C1FF0016012FBBCC	AB AB 00 07 C1 FF 00 16 xx zz yy CD
Network	CC		CD zz: 00 - no network
Status			connection; 01 - network
			connected
Query Sound	DD FF 00 06 C1 FF 00 02 xx yy BB	DDFF0006C1FF0002013BBBCC	AB AB 00 07 C1 FF 00 02 xx zz yy CD
Mode	СС		CD zz = 00 - standard, 01 -
			music, 02 - news, 08 - movie, 10 -
			sports, 20 - custom, 30 - voice,
			40 - meeting
Query AC	DD FF 00 06 C1 FF 00 08 xx yy BB	DDFF0006C1FF00080131BBCC	AB AB 00 07 C1 FF 00 08 xx zz yy
Power On	CC		CD CD zz: 00 - power on; 01 - Last
Status			mode; 02 - standby
Query IP	DD FF 00 06 C1 1B 20 00 xx yy BB	DDFF0006C11B200001FDBBCC	AB AB 00 16 C1 1B 20 00 xx zz zz yy
Address	СС		CD CD zz zz zz zz - IP address zz zz
			zz zz - Subnet mask zz zz zz zz
			Gateway zz zz zz zz - DNS
Query	DD FF 00 06 C1 FE 00 00 xx yy BB	DDFF0006C1FE00000138BBCC	AB AB 00 07 C1 FE 00 00 xx zz yy
Device	CC		CD CD zz: temperature in
Temperature	•		centigrade
Query	DD FF 00 06 C1 6D 00 00 xx yy BB	DD FF 00 06 C1 6D 00 00 64 CE BB CC	AB AB 00 07 Cl 6D 00 00 xx zz yy
Picture Mode	cc		CD CD
			zz: 00 – standard, 01 – bright, 06 –
			Al, 07 – user, 02 – soft, 03 – movie,
			04 – text, 05 – game, 12- nature
Query USB	DD FF 00 06 CI 6E 00 00 xx yy BB	UD FF 00 06 CI 6E 00 00 64 CD BB CC	AB AB 00 07 CI 6E 00 00 xx zz yy
Status	CC		
			zz: 00 - οπ, 01 - on
Query Eye	DD FF 00 06 C1 FF 00 1D xx yy BB	DDFF0006C1FF001D0124BBCC	AB AB 00 07 C1 FF 00 1D xx zz yy CD
Protection	CC		CD zz: 00 - Off; 01 - On
Mode			
Query SN	DD FF 00 06 C1 FF 00 0B xx yy BB	DDFF0006C1FF000B0132BBCC	AB AB 00 1D C1 FF 00 0B xx zzzz yy
	CC		CD CD zz zz: 23 bytes serial
			number
Query	DD FF 00 06 C1 FF 00 0D xx yy BB	DDFF0006C1FF000D0134BBCC	AB AB 00 26 C1 FF 00 0D xx zzzz yy
Devicd ID	CC		CD CD zz zz: 32 bytes device ID

Description	Command (HEX Bytes)	Example (PC -> HISENSE DISPLAY)	HISENSE DISPLAY -> PC
Query MAC	DD FF 00 06 C1 6C 00 00 xx yy BB	DDFF0006C16C000001AABBCC	AB AB 00 0C C1 6C 00 00 xx zzzz
Address	СС		yy CD CD zz zz: 6 bytes
Query	DD FF 00 06 C1 7D 00 00 xx yy BB	DD FF 00 06 C1 7D 00 00 64 DE BB CC	AB AB 00 07 C1 7D 00 00 xx zz yy
volume	СС		CD CD
			zz: volume
Query Serial	DD FF 00 06 C1 1B 10 00 xx yy BB	DD FF 00 06 C1 1B 10 00 64 A8 BB CC	AB AB 00 06 C1 1B 10 00 xx zz yy CD
Port ID	СС		CD
			zz: serial port ID. Settings -> signal
			manager -> serial port ID
Query brand	DD FF 00 06 C1 FE 00 01 xx yy BB	DD FF 00 06 C1 FE 00 01 64 5C BB CC	AB AB 00 06 C1 FE 00 01 xx zzzz yy
	СС		CD CD
		. 🦳	zzzz: brand. ex: hisense (ASCII)
Query model	DD FF 00 06 C1 FE 00 02 xx yy BB	DD FF 00 06 C1 FE 00 02 64 5F BB CC	AB AB 00 06 C1 FE 00 02 xx zzzz yy
	СС		CD CD
			zzzz: model name
Send	DD FF 00 08 C1 17 00 00 xx zz zz yy	ex: send menu key: zz zz = 00 00	AB AB 00 08 C1 17 00 00 xx zz zz yy
Remote	BBCC	DDFF0008C1170000010000DFBBCC zz zz = 00	CD CD
Controller		00 - Menu; 00 01 - U <mark>P,</mark> 00 02 - DOWN, 00 03 -	
Key Code		LEFT, 00 04 - RIGHT, 00 05 - OK, 00 06 -	
		Return, 00 07 - Source	
Open	DD FF 00 06 C1 41 00 00 xx yy BB	DDFF0006C14100000187BBCC	AB AB 00 06 C1 41 00 00 xx yy CD
Settings	СС		CD
Open Home	DD FF 00 06 C1 FF 00 1A xx yy BB	DDFF0006C1FF001A0123BBCC	AB AB 00 06 C1 FF 00 1A xx yy CD
	СС		CD
Open CMS	DD FF 00 06 C1 FF 00 13 xx yy BB	DDFF0006C1FF0013012ABBCC	AB AB 00 06 C1 FF 00 13 xx yy CD
	СС		CD
Open Screen	DD FF 00 06 C1 43 00 00 xx yy BB	DDFF0006C14300000185BBCC	AB AB 00 06 C1 43 00 00 xx yy CD
Cast	сс		CD
Turn on	DD FF 00 06 C1 44 00 00 xx yy BB	DDFF0006C14400000182BBCC	AB AB 00 06 C1 44 00 00 xx yy CD
Hotspot	CC		CD
Take	DD FF 00 06 C1 4B 00 00 xx yy BB	DDFF0006C14B0000018DBBCC	AB AB 00 06 C1 4B 00 00 xx yy CD
Screenshot	CC		CD
Freeze	DD FF 00 07 C1 0F 08 00 xx zz yy	DD FF 00 07 C1 0F 08 00 01 01 C1 BB CC zz = 01 -	AB AB 00 07 C1 0F 08 00 xx zz yy
Screen	BBCC	freeze; 00 – unfreeze	CD CD

Advanced Control and Automation



Using Wake on LAN (WOL) for Wired Networks

- Enable Wake on LAN in the display settings (Settings -> Switch on/off -> Wake-on LAN) (C1).
- 2. Ensure the display and the PC sending the WOL command are on the same LAN and connected via Ethernet.
- 3. Use WOL software to send a "magic packet" to wake the display (C2).

	Cl			C2	
Setting	Switch on/off		🖼 Wake On Lan - Magic Packet 🛛 🕹		
ি Network	Switch-on Source	Home >	<u>H</u> elp Mac Address	DC-62-94-24-F6-B8	3
🖾 Display	Power on Mode	Boot >	Internet Address	169.254.212.120	
다) Sound	Wake-on LAN		Subnet Mask	255.255.0.0	
ひ Switch on/off	Sleep mode settings	-	Send Options	Internet	•
⇒ Signal managem	Turn-on delay	>	Remote Port Number 8000		
Hense System	Timed switch on/off	>			
	No signal standby	30Second >			Wake Up
	No operation standby	15Minute >	Imagic Packet Sent To 169.254.255.255		

Automating Commands and Integrating with Other Systems

- Write scripts using programming languages like Python to automate hex string commands.
- Integrate the Hisense display control into broader home or office automation systems using compatible software.

Testing and Troubleshooting

- Start with basic commands (Power ON/OFF).
- Ensure correct IP and port configurations.
- Disable firewall blocking.
- Confirm firmware is updated.
- Assign static IP addresses to avoid IP changes.



Security Considerations

- Use strong network passwords.
- Limit access to trusted IP addresses.
- Regularly update device firmware.

Conclusion

By following this guide, you can effectively manage Hisense digital signage displays over IP control, with reliable command formats tailored to each product series. For further assistance or updates, you may reach our support team by clicking <u>here</u>.

Hisense

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