



QuickScout 4.0 MF

Programming guide



## **Telnet Connection**

Before the process of sending the telnet command, shall make telnet connection to the corresponding device.

The form of telnet command are as follow:

telnet ip port

ip: The IP of required device

port: Port number of the device (QuickScout fixed port number is 23)

Example: The IP of required device is 192.168.1.121,

The telnet command is *telnet 192.168.1.121 23* 

This is only an example of telnet command!

Please check telnet syntax of your controlling unit!

Please send command strings in HEX format!



## **About the Command Set**

Take Command SET AUTOSW\_ONOFF prm [CR/LF]as an example:

- 1. [SET AUTOSW\_ONOFF] denotes command key words, case in-sensitive.
- 2. [prm] denotes parameters, case in-sensitive, incorrect parameters number will not be recognized.
- 3. [CR/LF] is needed, all commands end up with [CR/LF].



IDX	Function Description	More Details	
		Normal switch case	
1	Set Auto Switch On/Off	Syntax Command: SET AUTOSW_ONOFF prm[CR/LF]	Example Command: SET AUTOSW_ONOFF on[CR/LF]
		Return: AUTOSW_ONOFF prm[CR/LF]	Return: AUTOSW_ONOFF on[CR/LF]
		Description:  prm = {on, off}  When the prm is on, Auto Switch mode is in active status.  When the prm is off, Auto Switch mode is in inactive status.	Description: Set Auto Switch Mode is in active status.
		Syntax Command:	Example
		GET AUTOSW_ONOFF[CR/LF]	Command: GET AUTOSW_ONOFF[CR/LF]
2	Get Auto Switch Status	Return: AUTOSW_ONOFF prm[CR/LF]	Return: AUTOSW_ONOFF on[CR/LF]
		Description:  prm = {on, off}  Get Auto Switch mode is in active status or inactive status.	Description: Get Auto Switch mode is in active status or inactive status. The result is in active status.
		Syntax	Example
		Command: SET SW in all[CR/LF]	Command: SET SW hdmi all[CR/LF]
3	Switch selected input to all outputs	Return: SW in all [CR/LF]	Return: SW hdmi all[CR/LF]
		Description: SW is short for Switch in = {dp, vga ,hdmi, hdbt}; all = {all};	Description: Switch selected HDMI input to all outputs
	Get the Mapping Status for Outputs and Inputs	Syntax Command: GET MP all[CR/LF]	Example Command: GET MP all[CR/LF]
4		Return:  MP in out[CR/LF]  MP in out[CR/LF]	Return:  MP hdmi hdmi[CR/LF]  MP hdmi hdbt[CR/LF]
		Description:  MP is short for mapping in = {dp, vga, hdmi, hdbt}; out = {hdmi, hdbt}; all = {all};	Description: HDMI output is mapping HDMI input HDBT output is mapping HDMI input

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IDX	Function Description	More Details	
		Especially control or config	
5	Set Order	Syntax  Command: SET ORDER[CR/LF]  Return: ORDER 1[CR/LF]  Parameter: NA  Description: Start order.	Example Command: SET ORDER[CR/LF]  Return: ORDER 1[CR/LF]  Description: Start order
6	Get Order Sequence Number	Syntax  Command: GET ORDER[CR/LF]  Return: ORDER prm[CR/LF]  Parameter: prm = sequence number  Description: Get order sequence number	Example  Command: GET ORDER[CR/LF]  Return: ORDER X[CR/LF]  Description: Get order sequence number
7	Set ShowMe Sign	Syntax  Command:  SET SHOWME prm[CR/LF]  Return:  SHOWME prm[CR/LF]  Parameter:  prm = {true, false}  Description:  Set Show Me signal.	Example Command: SET SHOWME true[CR/LF]  Return: SHOWME true[CR/LF]  Description: Set Show Me signal true
8	Get ShowMe Sign	Syntax  Command: GET SHOWME[CR/LF]  Return: SHOWME prm[CR/LF]  Parameter: prm = {true, false}  Description: Get Show Me signal	Example Command: GET SHOWME[CR/LF]  Return: SHOWME true[CR/LF]  Description: Get Show Me signal

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IDX	Function Description		More Details
9	Get Ring marker	Syntax  Command: GET RING_MARKER[CR/LF]  Return: RING_MARKER prm[CR/LF]  Parameter: prm = {true, false}  Description: Get Ring Marker	Example  Command: GET RING_MARKER[CR/LF]  Return: RING_MARKER true[CR/LF]  Description: Get Ring Marker
10	Set Subgroup	Syntax  Command: SET SUBGROUP prm1 prm2[CR/LF]  Return: SUBGROUP prm1 prm2 [CR/LF]  Description: prm1 = {self, all} //self: Current device //all: All the QuickScout in link prm2 = {on, off} //on: Current device no Subgroup //off: Current device no Subgroup	Command: SET SUBGROUP self on[CR/LF]  Return: SUBGROUP self on[CR/LF]  Description: Set current device subgroup
11	Get Subgroup	Syntax  Command: GET SUBGROUP[CR/LF]  Return: SUBGROUP prm[CR/LF]  Description: prm = {on, off} //on: Current Device is Subgroup //off: Current device is no Subgroup	Example  Command: GET SUBGROUP[CR/LF]  Return: SUBGROUP on[CR/LF]  Description: Current Device is Subgroup
12	Set Sort Ungrouping	Syntax  Command: SET SORTUNGROUP prm[CR/LF]  Return: SORTUNGROUP prm[CR/LF]  Parameter: prm = {on, off}  Description: Set Sort Ungrouping, off is by default.	Example  Command: SET SORTUNGROUP on[CR/LF]  Return: SORTUNGROUP on[CR/LF]  Description: Set Sort Ungrouping

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IDX	Function Description	More Details	
	r direction Description		Fyrample
	Get Sort Ungrouping	Syntax Command: GET SORTUNGROUP prm[CR/LF]	Example Command: GET SORTUNGROUP[CR/LF]
13		Return: SORTUNGROUP prm[CR/LF]	Return: SORTUNGROUP on[CR/LF]
		Parameter:  prm = {on, off}	Description: Get Sort Ungrouping
		Description: Get Sort Ungrouping	
	Set LocateMe LED	Syntax Command: SET LEDFLICKER prm[CR/LF]	Example Command: SET LEDFLICKER <i>on</i> [CR/LF]
14		Return: LEDFLICKER prm[CR/LF]	Return: LEDFLICKER <i>on</i> [CR/LF]
		Parameter:  prm = {on, off}	Description: LocateMe
		Description: Indicates my current location.	
	Get LocateMe	Syntax Command: GET LEDFLICKER[CR/LF]	Example Command: GET LEDFLICKER[CR/LF]
15		Return: LEDFLICKER prm[CR/LF]	Return: LEDFLICKER <i>on</i> [CR/LF]
		Parameter:  prm = {on, off}	Description: LocateMe
		Description: Indicates my current location.	



IDX	Function Description	More Details	
		CEC Control	
		Syntax Command: SET CECPWR_ONOFF out prm[CR/LF]	Example Command: SET CECPWR_ONOFF hdmi on[CR/LF]
16	Set CEC for Sink Power On/Off	Return: CECPWR_ONOFF out prm[CR/LF]	Return: CECPWR_ONOFF hdmi on[CR/LF]
		Description:  CECPWR_ONOFF will control sink power on or off  prm = {on, off}  out = {hdmi};	Description: Set CEC control for sink power on with HDMI out
		Syntax	Example
		Command: SET CECAUTO_ONOFF out prm[CR/LF]	Command: SET CECAUTO_ONOFF hdmi on[CR/LF]
17	Set CEC Auto Power On/Off	Return: CECAUTO_ONOFF out prm[CR/LF]	Return: CECAUTO_ONOFF hdmi on[CR/LF]
		Description:  prm = {on, off}  out = {hdmi};	Description: Set CEC Auto power on with HDMI out
		Syntax	Example
		Command: GET CECAUTO_ONOFF out[CR/LF]	Command: GET CECAUTO_ONOFF hdmi[CR/LF]
18	Get CEC Auto Power Status	Return: CECAUTO_ONOFF out prm[CR/LF]	Return: CECAUTO_ONOFF hdmi on[CR/LF]
I		Description:  prm = {on, off}	Description: Get CEC Auto power on with HDMI out
		out = {hdmi};	
		Syntax Command:	Example Command:
	Set CEC Power Delay Time	SET CECAUTO_DELAY out prm[CR/LF]	SET CECAUTO_DELAY hdmi 3[CR/LF]
		Return:	Return:
19		CECAUTO_DELAY out prm[CR/LF]	CECAUTO_DELAY hdmi 3[CR/LF]
.,	Set elet over beidy time	Description:	Description:
		CECAUTO_DELAY is short for CEC auto Power Delay Timing out = {hdmi};	Set CEC power delay time for 3 minutes
		prm = {0,1,2,3,30}// according to the actual time counter,1 means 1 minute ,2 means 2 minutes, Default wait time is 2 minutes	
		0 means when no active signal ,the unit auto power off immediately.	

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IDX	Function Description	More Details	
20	Get CEC POWER Delay Time Status	Syntax  Command: GET CECAUTO_DELAY out[CR/LF]  Return: CECAUTO_DELAY out prm[CR/LF]  Description: CECAUTO_DELAY is short for CEC auto Power Delay Timing out = {hdmi}; prm = {0,1,2,3,30}// according to the actual time counter,1 means 1 minute,2 means 2 minutes, Default wait time is 2 minutes 0 means when no active signal ,the unit auto power off immediately.	Example Command: GET CECAUTO_DELAY hdmi[CR/LF]  Return: CECAUTO_DELAY hdmi 3[CR/LF]  Description: Get CEC power delay time for HDMI is 3 minutes
		RS232 Control	
21	Set UART Baud Rate	Syntax  Command: SET UARTBAUDRATE prm[CR/LF]  Return: UARTBAUDRATE prm[CR/LF]  Description: prm = {9600,19200,38400,57600,115200} Set UART Baud Rate  Syntax	Example Command: SET UARTBAUDRATE 9600[CR/LF]  Return: UARTBAUDRATE 9600[CR/LF]  Description: Set 9600 as UART BAUDRATE  Example
22	Set UART End Character	Command:  SET UARTENDCHAR prm[CR/LF]  Return:  UARTENDCHAR prm[CR/LF]  Description:  prm = {null, cr, lf, crlf}  null: empty  cr: carriage return  If: line feed  crlf: carriage return and line feed	Command: SET UARTENDCHAR cr[CR/LF]  Return: UARTENDCHAR cr[CR/LF]  Description: Set cr as UART End Character
23	Set UART STOPBIT	Syntax  Command: SET UARTSTOPBIT prm [CR/LF]  Return: UARTSTOPBIT prm[CR/LF]  Parameter: prm = {1, 1_5, 2}  Description: Set UART STOPBIT	Example  Command: SET UARTSTOPBIT 1[CR/LF]  Return: UARTSTOPBIT 1[CR/LF]  Description: Set UART Stop bit is 1 bit

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IDX	Function Description	More Details	
		Syntax	Example
		Command:	Command:
		SET UARTPARITY prm[CR/LF]	SET UARTPARITY n[CR/LF]
		Return:	Return:
		UARTPARITY prm[CR/LF]	UARTPARITY n[CR/LF]
24	Set UART Parity bit	Parameter:	Description:
		$prm = \{n, o, e\}$ N represents no parity	Set UART no parity
		O represents odd parity	
		E represents even parity	
		Description:	
		Set UART Parity bit Syntax	Example
		Command:	Command:
		SET UARTCMD_STREDIT prm1 prm2[CR/LF]	SET UARTCMD_STREDIT poweron pwr on[CR/LF]
25	Character UART Command Edit	Return: UARTCMD_STREDIT prm1 prm2[CR/LF]	Return: UARTCMD_STREDIT poweron pwr on[CR/LF]
23	Character OANT Command Edit	OARTEMD_STREET PHIT PHITZLERYELT	OARTEMID_STREET POWEROTIPM Officially
		Description:	Description:
		prm1 = {poweron, poweroff}// prm1 is to set Power ON or Power OFF of display device	Set poweron pwr on to control the projector power
		prm2 = {xxxx}// prm2 is the specific Power ON or Power OFF command of display device, up to 64	
		characters.  Syntax	Example
		Command:	Command:
		SETEX UARTCMD_HEXEDIT prm1 hex1 hex2 hex3 [CR/LF]	SETEX UARTCMD_HEXEDIT poweron 70 77 72 20 6F 6E 0D
			0A[CR/LF]
26	LlavellADT Camana and Edit	Return: UARTCMD_HEXEDIT prm1 hex1 hex2 hex3 [CR/LF]	Return:
26	Hex UART Command Edit	OARTEMD_FIEAEDTT PHITT HEAT HEAZ HEAS [CIVET]	UARTCMD_HEXEDIT poweron 70 77 72 20 6F 6E 0D 0A[CR/LF]
		Description:	
		prm1 = { poweron, poweroff}// prm1 is to set Power ON or Power OFF of display device	Description:
		Hex1, hex2hex64= {xx xx xx xx}//hex1, hex2hex64, is ASC II string of hex value. For example, string "123", convert to correct format string is "31 32 33".	Set poweron 70 77 72 20 6F 6E 0D 0A to control the projector
			power.
		Syntax Command:	Example Command:
		SET TELNETPT prm1 prm2[CR/LF]	SET TELNETPT string 111222[CR/LF]
			SET TELNETPT hex 01 02 03[CR/LF]
		Return:	Return:
27	Set Telnet pass through	TELNETPT string 111222[CR/LF] OR TELNETPT hex 01 02 03[CR/LF]	TELNETPT string 111222[CR/LF] OR TELNETPT hex 01 02 03[CR/LF]
21	Sectionics pass tillough	TELIVETT THEX OT OZ OSĮCIVET J	TELIVETI THEX OF OZ OSICHVELT
		Description:	Description:
		TELNETPT = {TELNETPASSTHROUGH}	Set Telnet pass through.
		prm1 = {string, hex}; //Format of data	
		prm2 = {xx}; //Content of Data  Hex: hexadecimal	
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IDX	Function Description	More Details	
28	Set UART Power On/Off	Syntax Command: SET UARTPWR_ONOFF out prm[CR/LF]  Return: LLARTPWR_ONOFF out prm[CR/LF]	Example Command: SET UARTPWR_ONOFF hdmi on[CR/LF]  Return: UARTPWR_ONOFF hdmi on[CR/LF]
		UARTPWR_ONOFF out prm[CR/LF]  Description: UARTPWR_ONOFF will control sink is power on or off prm = {on, off} out = {hdmi}; Note: Before sending command" SET UARTPWR_ONOFF", shall configure the projector as following:(Shown as IDX 13, 14, 15, 16) 1. Baud Rate; (SET UARTBAUDRATE) 2. API end character; (SET UARTENDCHAR)	Description: Set UART to control the projector power, the projector is power on
		3. Set projector API; (SET UARTCMD_STREDIT or SETEX UARTCMD_HEXEDIT)  Syntax	Example
		Command: SET UARTAUTO_ONOFF out prm[CR/LF]	Command: SET UARTAUTO_ONOFF hdmi on[CR/LF]
29	Set UART Auto Power On/Off	Return: UARTAUTO_ONOFF out prm[CR/LF]	Return: UARTAUTO_ONOFF hdmi on[CR/LF]
		Description:  prm = {on, off}  out = {hdmi};	Description: Set UART to control projector auto power on
		Syntax Command:	Example Command:
30		GET UARTAUTO_ONOFF out[CR/LF]	GET UARTAUTO_ONOFF hdmi[CR/LF]
	Get UART Auto Power Status	Return: UARTAUTO_ONOFF out prm[CR/LF]	Return: UARTAUTO_ONOFF hdmi on[CR/LF]
		Description: prm = {on, off} out = {hdmi};	Description: The projector is power on



IDX	Function Description	More Details	
	Set UART Power Delay Time	Syntax Command: SET UARTPWR_DELAY out prm[CR/LF]	Example Command: SET UARTPWR_DELAY hdmi 2[CR/LF]
31		Return: UARTPWR_DELAY out prm[CR/LF]	Return: UARTPWR_DELAY hdmi 2[CR/LF]
31		Description:  UARTPWR_DELAY is short for UART Power Delay Timing  out = {hdmi};  prm = {0,1,2,3,30}// according to the actual time counter,1 means 1 minute ,2 means 2 minutes,  Default wait time is 2 minutes  0 means when no active signal ,the unit auto power off immediately.	Description: Set HDMI out UART power delay time 2 minutes
		Syntax	Example
		Command: GET UARTPWR_DELAY out[CR/LF]	Command: GET UARTPWR_DELAY hdmi[CR/LF]
22	Get display POWER Delay Time Status	Return: UARTPWR_DELAY out prm[CR/LF]	Return: UARTPWR_DELAY hdmi 3[CR/LF]
32		Description:  UARTPWR_DELAY is short for UART Power Delay Timing  out = {hdmi};  prm = {0,1,2,3}// according to the actual time counter,1 means 1 minute,2 means 2 minutes,  Default wait time is 2 minutes  0 means when no active signal ,the unit auto power off immediately.	Description: HDMI out UART power delay time is 3 minutes
		HDCP	
	Get Input HDCP status	Syntax Command: GET HDCP_IN in[CR/LF]	Example Command: GET HDCP_IN hdmi[CR/LF]
33		Return: HDCP_IN in prm[CR/LF]	Return: HDCP_IN hdmi hdcp1.4[CR/LF]
		Description: in= {dp, vga, hdmi, hdbt} prm = {hdcp1.4, hdcp2.2, off}// off means Non-HDCP	Description: HDMI input supports HDCP 1.4
		Syntax	Example
	Set Inputs support HDCP or not	Command: SET HDCPSUPPORT_ONOFF in prm[CR/LF]	Command: SET HDCPSUPPORT_ONOFF hdmi on[CR/LF]
34		Return: HDCPSUPPORT_ONOFF in prm[CR/LF]	Return: HDCPSUPPORT_ONOFF hdmi on[CR/LF]
		Description:  HDCPSUPPORT_ONOFF will control source hdcp support on or off  prm = {on, off}  in = { hdmi}	Description: Set HDMI input support HDCP



IDX	Function Description	More Details	
		Syntax Command: GET HDCPSUPPORT_ONOFF in[CR/LF]	Example Command: GET HDCPSUPPORT_ONOFF hdmi[CR/LF]
35	Get Input HDCP Support Status	Return: HDCPSUPPORT_ONOFF in prm[CR/LF]	Return: HDCPSUPPORT_ONOFF hdmi on[CR/LF]
		Description: HDCPSUPPORT_ONOFF is short for HDCP support prm = {on, off} in = { hdmi}	Description: HDMI input supports HDCP
		EDID	
36	Set All Input EDID	Syntax  Command: SET EDID ALL prm1[CR/LF]  Return: EDID ALL prm1[CR/LF]  Parameter: prm1 = {10, 1118}  Description: prm1: 0->//HDMI/DP/HDBT: 3840x2160@30Hz, 2CH VGA:1920x1200@60Hz, 1->//HDMI/DP/HDBT: 1920x1200@60Hz, 2CH VGA:1920x1200@60Hz, 2->//HDMI/DP/HDBT: 1920x1080@60Hz, 2CH VGA:1920x1080@60Hz, 3->//HDMI/DP/HDBT: 1960x1080@60Hz, 2CH VGA:1680x1050@60Hz, 3->//HDMI/DP/HDBT: 1600x900@60Hz, 2CH VGA:1680x1050@60Hz, 4->//HDMI/DP/HDBT: 1366x768@60Hz, 2CH VGA:1440x900@60Hz, 5->//HDMI/DP/HDBT: 1366x768@60Hz, 2CH VGA:1366x768@60Hz, 4->//HDMI/DP/HDBT: 1280x800@60Hz, 2CH VGA:1280x800@60Hz, 8->//HDMI/DP/HDBT: 1280x800@60Hz, 2CH VGA:1024x768@60Hz, 8->//HDMI/DP/HDBT: 1024x768@60Hz, 2CH VGA:1024x768@60Hz, 9->//HDMI/DP/HDBT: 3840x2160@60Hz, 2CH VGA:1920x1200@60Hz, 11->//HDMI/DP/HDBT: 1920x1200@60Hz, 2CH VGA:1920x1200@60Hz, 11->//HDMI/DP/HDBT: 1920x1200@60Hz, 2CH VGA:1920x1200@60Hz, 12->//HDMI/DP/HDBT: 1920x1200@60Hz, 2CH VGA:1920x1200@60Hz, 12->//HDMI/DP/HDBT: 1920x1200@60Hz, 2CH VGA:1920x1200@60Hz,	Example  Command:  SET EDID ALL 0[CR/LF]  Return: EDID ALL 0[CR/LF]  Description: Set the input EDID, switch to position 9 to take effect.
		13->//HDMI/DP/HDBT: 1680x1050@60Hz, 2CH VGA:1680x1050@60Hz, 14->//HDMI/DP/HDBT: 1600x900@60Hz, 2CH VGA:1600x900@60Hz, 15->//HDMI/DP/HDBT: 1440x900@60Hz, 2CH VGA:1440x900@60Hz, 16->//HDMI/DP/HDBT: 1366x768@60Hz, 2CH VGA:1366x768@60Hz, 17->//HDMI/DP/HDBT: 1280x800@60Hz, 2CH VGA:1280x800@60Hz, 18->//HDMI/DP/HDBT: 1024x768@60Hz, 2CH VGA:1024x768@60Hz,	



IDX	Function Description	More Details	
37	Get All Input EDID status	Syntax	Example Command: GET EDID ALL[CR/LF]  Return: GET EDID ALL 0[CR/LF]  Description: Return the current EDID status.
		System Info	
38	Factory Reset	Syntax Command: RESET[CR/LF]  Return: RESET[CR/LF]  Description: Factory Reset	Example Command: RESET[CR/LF]  Return: RESET[CR/LF]  Description: Factory Reset

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IDX	Function Description	More Details	
		Syntax Command: REBOOT[CR/LF]	Example Command: REBOOT[CR/LF]
39	System Reboot	Return: REBOOT[CR/LF]	Return: REBOOT[CR/LF]
		Description: System Reboot	Description: System Reboot
		Syntax Command: GET VER[CR/LF]	Example Command: GET VER[CR/LF]
40	Get selected target firmware version	Return: VER target prm[CR/LF]	Return: VER MCU 1.0[CR/LF]
		Parameter: $target = \{MCU\}$ $prm = \{\}// according to actual firmware version$	Description: Get all module firmware version
		Description: Get selected target firmware version	
		LAN Module	
	Set Static IP Address	Syntax Command: SET IPADDRESS STATIC ip4addr xx.xx.xx.xx netmask xx.xx.xx.xx gateway xx.xx.xx.xx[CR/LF]	Example Command: SET IPADDRESS STATIC ip4addr 192.168.11.243 netmask 255.255.255.0 gateway 192.168.2.1[CR/LF]
41		Return: IPADDRESS STATIC ip4addr xx.xx.xx.xx netmask xx.xx.xx gateway xx.xx.xx.xx[CR/LF]  Description:	Return: IPADDRESS STATIC ip4addr 192.168.11.243 netmask 255.255.255.0 gateway 192.168.2.1[CR/LF]
		Set Static IP Address	Description: Set static IP address 192.168.11.243; netmask 255.255.255.0; gateway 192.168.2.1
		Syntax	Example
42	Set DHCP (Dynamic Host Configuration Protocol) IP Address	Command: SET IPADDRESS dhcp[CR/LF]	Command: SET IPADDRESS dhcp[CR/LF]
		Return: IPADDRESS dhcp[CR/LF]	Return: IPADDRESS dhcp[CR/LF]
		Description: Set DHCP IP Address	Description: Set DHCP IP address

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IDX	Function Description	More Details	
43	GET IP Address	Syntax  Command: GET IPADDRESS[CR/LF]  Return: IPADDRESS dhcp[CR/LF] OR IPADDRESS STATIC ip4addr xx.xx.xx.xx netmask xx.xx.xx.xx gateway xx.xx.xx.xx [CR/LF]  Description: GET IP Address	Example Command: GET IPADDRESS[CR/LF]  Return: IPADDRESS dhcp[CR/LF]  Description: Get DHCP



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