

MD720UIS

Software integration document

	Product	MD720UIS		
	FW Support	1.1.2124.0		
	Version	2024-10	Level	First Release

This document outlines the control command set supported by the camera, which is designed for integration by third-party software developers. Below, you will find a comprehensive list of instructions available for use. Developers are encouraged to refer to this list when building or updating their software to ensure compatibility and functionality. Should you have any inquiries or require further assistance, please do not hesitate to contact our Field Application Engineer mail to : AVerSupport_10@aver.com

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CGI Command

Format to control camera using CGI :

<http://camera ip/cgi> , (Ex: <http://192.168.1.100/cgi-bin?OnePush=Y>)

CGI List for Video Transmission					
CGI item name	URL	Command	Parameter Name	Parameter value	Description
Get JPEG	/snapshot				1280x720 jpg
Get RTSP stream	rtsp://ip/rtsp _url				Default RTSP url: live_st1 rtsp://ip/live_st1
CGI List for Camera Control					
CGI item name	URL	Command	Parameter Name	Parameter value	Description
Up Start	/cgi-bin?SetP tzf=	1,0,1			
Up End	/cgi-bin?SetP tzf=	1,0,2			
Down Start	/cgi-bin?SetP tzf=	1,1,1			
Down End	/cgi-bin?SetP tzf=	1,1,2			
Left Start	/cgi-bin?SetP tzf=	0,1,1			
Left End	/cgi-bin?SetP tzf=	0,1,2			
Right Start	/cgi-bin?SetP tzf=	0,0,1			

Right End	/cgi-bin?SetP tzf=	0,0,2			
Zoom_In Start	/cgi-bin?SetP tzf=	2,0,1			
Zoom_In End	/cgi-bin?SetP tzf=	2,0,2			
Zoom_Out Start	/cgi-bin?SetP tzf=	2,1,1			
Zoom_Out End	/cgi-bin?SetP tzf=	2,1,2			
Load Preset	/cgi-bin?ActP reset=	0,N			N : preset position
Set Preset	/cgi-bin?ActP reset=	1,N			N : preset position
Cancel Preset	/cgi-bin?ActP reset=	2,N			N : preset position
Preset Speed	/cgi-bin?Set= value	preset_spe ed,3,N	value	1 ~ 6	N : value
	/cgi-bin?Get= value	preset_spe ed,3			<i>preset_speed,3=N</i>
Preset Accuracy	/cgi-bin?Set= value	preset_acc uracy,3,N	value	0 ~ 1	off : N = 0 ; ON : N = 1
	/cgi-bin?Get= value	preset_acc uracy,3			<i>preset_accuracy,3=N</i>
Pan Speed	/cgi-bin?Set= value	ptz_p_spd, 3,N	value	1 ~ 24	N : value
	/cgi-bin?Get= value	ptz_p_spd, 3			<i>ptz_p_spd,3=N</i>
Tilt Speed	/cgi-bin?Set= value	ptz_t_spd, value	value	1 ~ 24	N : value

		3,N			
	/cgi-bin?Get=	ptz_t_spd, 3			<i>ptz_t_spd,3=N</i>
One Click	/cgi-bin?Set=	ptz_oneclick_x,3,N1& ptz_oneclick_y,3,N2&ptz_oneclick_spd,3,N3		ptz_oneclick_spd 1~24	N1, N2 = X, Y coordinates (1080P, 0,0 at top left) N3=moving speed

CGI List for Various Settings

Exposure Value	/cgi-bin?Set=	img_expo_value expo,3,N	value	1 ~ 9	N : value
	/cgi-bin?Get=	img_expo_value expo,3			<i>img_expo_value,3=N</i>
Saturation	/cgi-bin?Set=	img_saturation,3,N	value	0 ~ 10	N : value
	/cgi-bin?Get=	img_saturation,3			<i>img_saturation,3=N</i>
Contrast	/cgi-bin?Set=	img_contrast,3,N	value	0 ~ 4	N : value
	/cgi-bin?Get=	img_contrast,3			<i>img_contrast,3=N</i>
White Balance	/cgi-bin?Set=	img_wb_comp_mode, 3,N	value	0 ~ 4	N : value
	/cgi-bin?Get=	img_wb_comp_mode, 3			<i>img_wb_comp_mode,3=N</i>
R Gain	/cgi-bin?Set=	img_wb_cr,	value	0 ~ 255	N : value

		3,N			
	/cgi-bin?Get=	img_wb_cr, 3			<i>img_wb_cr,3=N</i>
B Gain	/cgi-bin?Set=	img_wb_cb ,3,N	value	0 ~ 255	N : value
	/cgi-bin?Get=	img_wb_cb ,3			<i>img_wb_cb,3=N</i>
Sharpness	/cgi-bin?Set=	img_sharp ness,3,N	value	0 ~ 3	N : value
	/cgi-bin?Get=	img_sharp ness,3			<i>img_sharpness,3=N</i>
Mirror	/cgi-bin?Set=	img_mirror ,3,N	value	0 ~ 1	off : N = 0 ; ON : N = 1
	/cgi-bin?Get=	img_mirror ,3			<i>img_mirror,3=N</i>
Flip	/cgi-bin?Set=	img_flip,3, N	value	0 ~ 1	off : N = 0 ; ON : N = 1
	/cgi-bin?Get=	img_flip,3			<i>img_flip,3=N</i>
Noise Filter	/cgi-bin?Set=	img_nr,3,N	value	0 ~ 3	N : value
	/cgi-bin?Get=	img_nr,3			<i>img_nr,3=N</i>
IR Cut Filter	/cgi-bin?Set=	img_ircut_f ilter,3,N	value	0 ~ 2	day : N = 0 ; night : N = 1 ; auto : N = 2
	/cgi-bin?Get=	img_ircut_f ilter,3			<i>img_ircut_filter,3=N</i>
IR Cut Filter Sensitivity	/cgi-bin?Set=	img_ircut_s ensitivity,3, N	value	0 ~ 2	0 = Low, 1 = Middle, 2 = High
	/cgi-bin?Get=	img_ircut_s ensitivity,3			<i>img_ircut_sensitivity,3=N</i>

Reboot	/cgi-bin?One Push=!				
Factory Reset	/cgi-bin?One Push=d				
Model Name	/cgi-bin?GetS tring=	sys_name			sys_name=MD720UIS
Serial Number	/cgi-bin?GetS erialNumber =				- Reply example: serial_no=5100435000009
FW Version	/cgi-bin?GetS tring=	sys_fw_ver sion			- Reply example: sys_fw_version=1.1.2001.0
MCU FW Version	/cgi-bin?GetS tring=	sys_mcu_f w_version			- Reply example: sys_mcu_fw_version=B001
Lens FW Version	/cgi-bin?GetS tring=	sys_lens_f w_version			- Reply example: sys_lens_fw_version=B001
Audio FW Version	/cgi-bin?GetS tring=	sys_audio_ ver			- Reply example: sys_audio_ver=1.02
Video FW Version	/cgi-bin?GetS tring=	sys_video_ ver			- Reply example: sys_video_ver=1.1.3001.0

CGI List for Video Stream

Video Stream Resolution	/cgi-bin?Set=	vdo_net_st m_res,3,N	value	1 ~ 6	1 = 1920x1080; 2 = 1280x720; 3 = 960x540; 4 = 640x480; 5 = 640x360; 6 = 3840x2160
Video Stream Framerate	/cgi-bin?Set=	vdo_net_st m_fr,3,N	value	1 / 5 / 15 / 20 / 30	frames per second

Video Stream Bitrate	/cgi-bin?Set=	vdo_net_st m_bitrate, 3,N	value	0 ~ 8	0 = 512 Kbps; 1 = 1 Mbps; 2 = 2 Mbps; 3 = 4 Mbps; 4 = 8 Mbps; 5 = 16 Mbps; 6 = 32 Mbps; 8 = Auto;
Video Stream I-VOP Interval (S)	/cgi-bin?Set=	vdo_net_st m_intvl,3,N	value	1 ~ 10	I-VOP Interval in seconds
Video Stream Rate Control	/cgi-bin?Set=	vdo_net_st m_ratectrl, 3,N	value	0 / 1	0: CBR; 1: VBR
Video Stream Encoding Type	/cgi-bin?Set=	vdo_net_st m_codec,3, N	value	1 ~ 2	1: H.264; 2: H.265

CGI List for AI Setting

Eyes Tracking On/Off	/cgi-bin?Set=	trk_trackin g_on,3,N	value	0 / 1	0: OFF; 1: ON
(AI Mosaic, Eyes Tracking and AI Video	/cgi-bin?Get=	trk_trackin g_on,3			trk_tracking_on,3=N

Detection are mutually exclusive.)					
Tracking Preset	/cgi-bin?ActPreset=1,255				Save current pos. for eye tracking preset point.
Timeout to preset	/cgi-bin?Set=	trk_lost_time,3, N	value	3 / 5 / 7 / 10	timeout in seconds
Tracking Site	/cgi-bin?Set=	trk_mode,3 ,N	value	0 / 1	0: Face; 1: Eyes
Tracking Range	/cgi-bin?Set=	trk_sensitivity,3,N	value	0 ~ 2	0: Close; 1: Medium; 2: Wide
Get detect zone(target frame) number	/cgi-bin?Get=trk_detect_num - Reply	trk_detect_num=X	X: number of target frames, 50 max.		
Get detect zone(target	/cgi-bin?GetGroup=trk_detect_zones				

<p>frame) info</p>	<p>- Reply</p>	<p>trk_detect_ zones="trk _num:02.fo cus:-1.zone [00]:760,09 ,222,300.zo ne[01]:660, 540,16,22."</p>	<p>focus - current target frame index. zone[NN]: x,y,w,h - 1080P based</p>	<p>(0,0) at top left of video. X,Y,W(widt h),H(height) is based on the top left of the target frame. "focus:" is followed by the current tracking target frame index. Example: "-1" indicates no target is being tracked. If 3 targets are being detected, "focus:" should be</p>	
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				<p>followed by either 0, 1, or 2.</p>	
<p>Select Tracking Target</p>	<p>/cgi-bin?SetString=</p>	<p>TrackingFocusZone,x,y,w,h</p>		<p>x, y: coordinate s, w: width, h: height, (0,0 at top left)</p>	<p>Based on the result of trk_detect_zones, select tracking target. ex: x=343, y=373, w=213, h=310 /cgi-bin?SetString=TrackingFocusZone,343,373,213,310</p>

AI Mosaic On/Off (AI Mosaic, Eyes Tracking and Fall/Egress Detection are mutually exclusive.)	/cgi-bin?Set=	vdo_net_st m_mosaic, 3,N	value	0 / 1	0: OFF; 1: ON
AI Video Detection On/Off (AI Mosaic, Eyes Tracking and AI Video Detection are mutually exclusive.)	/cgi-bin?Set=	vdo_det_al arm,3,N	value	0 / 1	0: OFF; 1: ON
Detection Type	/cgi-bin?Set=	vdo_det_ty pe,3,N	value	0 ~ 2	0: All Type; 1: Fall Detection; 2: Egress Detection
Fall Detection View	/cgi-bin?Set=	vdo_det_fa ll_down_pr eset,3,N	value	0 ~ 255	Fall Detection View Preset Point
Fall	/cgi-bin?Set=	vdo_det_fa	value	0 ~ 2	0: Low; 1: Medium; 2:High

Detection Sensitivity		ll_down_sensitivity,3,N			
Egress Detection View	/cgi-bin?Set=	vdo_det_of f_bed_preset,3,N	value	0 ~ 255	Egress Detection View Preset Point
Egress Detection Sensitivity	/cgi-bin?Set=	vdo_det_of f_bed_sensitivity,3,N	value	0 ~ 2	0: Low; 1: Medium; 2:High