	PTZOptics HTTP-CGI Control Sheet			14/2 0000 00 40
Control Function	Command	Variable	Values	MID 2020-08-10 Comments
Pan & Tilt				Comments
Pan & Hit	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[pan speed]&[tilt speed]	[camera ip]	*cameras current IP	mayon namara kuni
		[action]	UP	moves camera 'up'
			DOWN	moves camera 'down'
			LEFT	moves camera 'left'
			RIGHT	moves camera 'right'
			LEFTUP	moves camera 'left' & 'up'
			RIGHTUP	moves camera 'right' & 'up'
			LEFTDOWN	moves camera 'left' & 'down'
			RIGHTDOWN	moves camera 'right' & 'down'
			PTZSTOP	tells camera to 'stop' moving
		[pan speed]	1	slowest 'pan' speed
				ranges from 1 - 24
			24	fastest 'pan' speed
		[tilt speed]	1	slowest 'tilt' speed
				ranges from 1 - 20
			20	fastest 'tilt' speed
Zoom	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[zoom speed]	[camera ip]	*cameras current IP	
		[action]	ZOOMIN	zooms camera in
		[uotion]	ZOOMOUT	zooms camera out
			ZOOMSTOP	stops zooming
		[zoom onood]	1	-
		[zoom speed]		slowest 'zoom' speed
			7	ranges from 1 - 7
Ee	http://facurage.in//aci.hip/abachd.aci/Onbrass 10.Facults 20.Ffc	F	7	fastest 'zoom' speed
Focus	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[focus speed]	[camera ip]	*cameras current IP	.
		[action]	FOCUSIN	focuses camera in
			FOCUSOUT	focuses camera out
			FOCUSSTOP	stops focusing
		[focus speed]	1	slowest 'focus' speed
				ranges from 1 - 7
			7	fastest 'focus' speed
Focus Lock	http://[camera ip]/cgi-bin/param.cgi?ptzcmd&[action]_mfocus	[camera ip]	*cameras current IP	
		[action]	LOCK	locks focus state
			UNLOCK	unlocks focus state
Home Position	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&home	[camera ip]	*cameras current IP	Moves camera to HOME
PT Reset	http://[camera ip]/cgi-bin/param.cgi?pan_tiltdrive_reset	[camera ip]	*cameras current IP	Performs pan / tilt reset "dance"
Preset	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]&[position number]	[camera ip]	*cameras current IP	·
		[action]	POSSET	position 'set'
		[accord]	POSCALL	position 'call'
		[position number]	0	beginning of range 1
		[position number]		range 1 from 0-89
			 89	end of range 1
			100	beginning of range 2
				range 2 from 100-254
			254	end of range 2
rect Position Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[mode]&[pan speed]&[tilt speed]&[pan position]&[tilt position]	[camera ip]	*cameras current IP	
		[mode]	ABS	Absolute Positioning
			REL	Relative Positioning
		[pan speed]	1	slowest 'pan' speed
				ranges from 1 - 24
			24	fastest 'pan' speed
		[tilt speed]	1	slowest 'tilt' speed
				ranges from 1 - 20
			20	fastest 'tilt' speed
		[pan position]	0000 or FFFF	home position
			0001	first step pan right
				range from 0000 to 0990 (HEX)
			0990	last step pan right
				first step pan left
			FFFF	
			FFFE	
				range from FFFF to F670 (HEX
		[filt position]	 F670	range from FFFF to F670 (HEX last step pan left
		[tilt position]	 F670 0000 or FFFF	range from FFFF to F670 (HEX last step pan left Home Position
		[tilt position]	 F670 0000 or FFFF 0001	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up
		[tilt position]	 F670 0000 or FFFF 0001	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX)
		[tilt position]	 F670 0000 or FFFF 0001 0510	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up
		[tilt position]	 F670 0000 or FFFF 0001	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down
		[tilt position]	 F670 0000 or FFFF 0001 0510 FFFE	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX)
		[tilt position]	 F670 0000 or FFFF 0001 0510 FFFE	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down
		[tilt position]	 F670 0000 or FFFF 0001 0510 FFFE	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX
		[tilt position]	 F670 0000 or FFFF 0001 0510 FFFE	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX last step tilt up first step tilt down range from FFFF to FE51 (HEX
Direct Zoom Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&zoomto&[zoom speed]&[zoom position]	[tilt position]	 F670 0000 or FFFF 0001 0510 FFFE	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX)
Direct Zoom Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&zoomto&[zoom speed]&[zoom position]		 F670 0000 or FFFF 0001 0510 FFFE FE51	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX)
Direct Zoom Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&zoomto&[zoom speed]&[zoom position]	[camera ip]	F670 0000 or FFFF 0001 0510 FFFE FE51	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX last step tilt down
Direct Zoom Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&zoomto&[zoom speed]&[zoom position]	[camera ip]	F670 0000 or FFFF 0001 0510 FFFE FE51 *cameras current IP 0	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX last step tilt down slowest zoom speed range from 0 - 7
Direct Zoom Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&zoomto&[zoom speed]&[zoom position]	[camera ip] [zoom speed]	F670 0000 or FFFF 0001 0510 FFFE FE51 *cameras current IP 0 7	range from FFFF to F670 (HEX) last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX last step tilt down slowest zoom speed range from 0 - 7 fastest zoom speed
Direct Zoom Recall	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&zoomto&[zoom speed]&[zoom position]	[camera ip]	F670 0000 or FFFF 0001 0510 FFFE FE51 *cameras current IP 0	range from FFFF to F670 (HEX last step pan left Home Position first step tilt up range from 0000 to 0510 (HEX) last step tilt up first step tilt down range from FFFF to FE51 (HEX last step tilt down slowest zoom speed range from 0 - 7

Navigation				
Function	Command	Variable	Values	Comments
OSD Access	http://[camera ip]/cgi-bin/param.cgi?navigate_mode&[mode]	[camera ip]	*cameras current IP	
		[mode]	OSD	Calls OSD Menu
			PTZ	P/T/Z Control Mode
SD Menu Navigation	http://[camera ip]/cgi-bin/ptzctrl.cgi?ptzcmd&[action]	[camera ip]	*cameras current IP	
			UP	moves menu selection 'up'
			DOWN	moves menu selection 'down'
			LEFT	Adjusts OSD option left
			RIGHT	Adjusts OSD option right
	http://[camera ip]/cgi-bin/param.cgi?navigate_mode&[mode]	[camera ip]	*cameras current IP	/ tajaoto deb option rigin
	The progression of the state of	[mode]	CONFIRM	Selects an OSD option
		[mode]		
			OSD_BACK	Returns to previous menu
mage Adjustments	0	V	Malara	0
Function	Command	Variable	Values	Comments
Image Settings	http://[camera ip]/cgi-bin/param.cgi?post_image_value&[mode]&[level]	[camera ip]	*cameras current IP	
		[mode]	BRIGHT	adjust brightness
			SATURATION	adjust saturation
			CONTRAST	adjust contrast
			SHARPNESS	adjust sharpness
			HUE	adjust hue
		[level]	0	beginning of range
		ficacil		ranges from 0 -14
			14	-
Image Orientation	http://feemers.in/logi.hip/porom.ogiOnest.imess.yelve9fmed-1-10f-t-1-1	Face 1-3		end of range
image Orientation	http://[camera ip]/cgi-bin/param.cgi?post_image_value&[mode]&[state]	[camera ip]	*cameras current IP	
		[mode]	FLIP	flipped image adjustments
			MIRROR	mirrored image adjustments
		[state]	1	flip / mirror
			0	default
efault Image Settings	http://[camera ip]/cgi-bin/param.cgi?get_image_default_conf	[camera ip]	*cameras current IP	Defaults all image settings above
JPEG Snapshot				
Function	Command	Variable	Values	Comments
Take Snapshot	http://[camera ip]/snapshot.jpg	[camera ip]	*cameras current IP	Takes a JPEG snapshot
Change Resolution	http://[camera ip]/cgi-bin/snapshot.cgi?post_snapshot_conf&resolution=[size]	[camera ip]	*cameras current IP	·
.		[size]	1920x1080	Sets JPEG resolution to 1920x10
		[00]	1020/11000	0010 01 20 10001011011 10 1020111
			060×600	Sate IDEC resolution to 060v600
			960x600	
			960x600 480x300	
Nestale anth Distance				
		W. data	480x300	Sets JPEG resolution to 480x300
Function	Command	Variable	480x300 Values	
	Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0	[camera ip]	Values *cameras current IP	Sets JPEG resolution to 480x300 Comments
Function			480x300 Values	Sets JPEG resolution to 480x300
Function		[camera ip]	Values *cameras current IP	Sets JPEG resolution to 480x300 Comments
Function		[camera ip]	Values *cameras current IP	Sets JPEG resolution to 480x300 Comments shortest delay
Function Take Pictures		[camera ip]	Values *cameras current IP 1	Comments Shortest delay delay in seconds 1 - 9
Function Take Pictures	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0	[camera ip] [delay]	Values *cameras current IP 1 9	Comments Shortest delay delay in seconds 1 - 9
Function Take Pictures	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0	[camera ip] [delay]	Values *cameras current IP 1 9	Comments Shortest delay delay in seconds 1 - 9
Function Take Pictures	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0	[camera ip] [delay]	Values *cameras current IP 1 9 1	Comments Shortest delay delay in seconds 1 - 9
Function Take Pictures Download Pictures	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0	[camera ip] [delay]	Values *cameras current IP 1 9 1	Comments Shortest delay delay in seconds 1 - 9
Function Take Pictures Download Pictures	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg	[camera ip] [delay] [num]	Values *cameras current IP 1 9 1 4	Comments Shortest delay delay in seconds 1 - 9 longest delay
Function Take Pictures Download Pictures Photobooth Videos Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command	[camera ip] [delay] [num]	Values *cameras current IP 1 9 1 4 Values	Comments Shortest delay delay in seconds 1 - 9
Function Take Pictures Download Pictures	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg	[camera ip] [delay] [num] Variable [camera ip]	Values *cameras current IP 1 9 1 4 Values *cameras current IP	Comments Comments shortest delay delay in seconds 1 - 9 longest delay Comments
Function Take Pictures Download Pictures Photobooth Videos Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command	[camera ip] [delay] [num]	Values *cameras current IP 1 9 1 4 Values	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Comments Shortest delay
Function Take Pictures Download Pictures Photobooth Videos Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command	[camera ip] [delay] [num] Variable [camera ip]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Shortest delay Comments
Function Take Pictures Download Pictures Photobooth Videos Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command	[camera ip] [delay] [num] Variable [camera ip]	Values *cameras current IP 1 9 1 4 Values *cameras current IP	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Comments Shortest delay
Function Take Pictures Download Pictures Photobooth Videos Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command	[camera ip] [delay] [num] Variable [camera ip]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Comments Shortest delay Comments
Function Take Pictures Download Pictures Photobooth Videos Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command	[camera ip] [delay] [num] Variable [camera ip] [delay]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1 9 1 9	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Shortest delay Comments shortest delay delay in seconds 1 - 9 longest delay
Function Take Pictures Download Pictures Photobooth Videos Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command	[camera ip] [delay] [num] Variable [camera ip] [delay]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 9 1 1 9 1 1 1	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Shortest delay delay in seconds 1 - 9 longest delay shortest delay delay in seconds 1 - 9 longest delay shortest length
Function Take Pictures Download Pictures Photobooth Videos Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command	[camera ip] [delay] [num] Variable [camera ip] [delay]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1 9 1 9 1 9 1 1	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Shortest delay delay in seconds 1 - 9 longest delay shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10
Function Take Pictures Download Pictures Photobooth Videos Function Take Video	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length]	[camera ip] [delay] [num] Variable [camera ip] [delay]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1 9 1 1 10 1	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Shortest delay delay in seconds 1 - 9 longest delay shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10
Function Take Pictures Download Pictures Photobooth Videos Function Take Video	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length]	[camera ip] [delay] [num] Variable [camera ip] [delay]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1 9 1 1 9 1 1 9 1 10 1	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Shortest delay delay in seconds 1 - 9 longest delay shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10
Function Take Pictures Download Pictures Photobooth Videos Function Take Video	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length]	[camera ip] [delay] [num] Variable [camera ip] [delay]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1 9 1 1 10 1	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Shortest delay delay in seconds 1 - 9 longest delay shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10
Function Take Pictures Download Pictures Photobooth Videos Function Take Video	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length]	[camera ip] [delay] [num] Variable [camera ip] [delay]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1 9 1 1 9 1 1 9 1 10 1	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Shortest delay delay in seconds 1 - 9 longest delay shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10
Function Take Pictures Download Pictures Photobooth Videos Function Take Video Download Video	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length] http://[camera ip]/video[num].mp4	[camera ip] [delay] [num] Variable [camera ip] [delay] [length]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 9 1 1 9 1 9 1 4	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Comments Comments Shortest delay delay in seconds 1 - 9 longest delay shortest delay shortest length length in seconds 1 - 10 longest length
Function Take Pictures Download Pictures Photobooth Videos Function Take Video Download Video Inquiries Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length] http://[camera ip]/video[num].mp4 Command	[camera ip] [delay] [num] Variable [camera ip] [delay] [length] [num]	Values *cameras current IP 1 9 1 4 Values *cameras current IP 1 9 1 1 9 1 4 Values *cameras current IP 1 9 1 10 4	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Comments Shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10 longest length Comments
Function Take Pictures Download Pictures Photobooth Videos Function Take Video Download Video Inquiries Function Video	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length] http://[camera ip]/video[num].mp4 Command http://[camera ip]/cgi-bin/param.cgi?get_media_video	[camera ip] [delay] [num] Variable [camera ip] [delay] [length] [num] Variable [camera ip]	Values *cameras current IP 1 9 11 4 Values *cameras current IP 1 9 1 1 9 1 4 Values *cameras current IP 10 4 Values *cameras current IP	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Comments Shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10 longest length Comments Comments Network Video Configuration
Function Take Pictures Download Pictures Photobooth Videos Function Take Video Download Video Inquiries Function	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length] http://[camera ip]/video[num].mp4 Command	[camera ip] [delay] [num] Variable [camera ip] [delay] [length] [num]	Values *cameras current IP 1 9 11 4 Values *cameras current IP 1 9 1 1 9 1 4 Values *cameras current IP 10 4 Values *cameras current IP	Comments shortest delay delay in seconds 1 - 9 longest delay Comments Comments Shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10 longest length Comments
Function Take Pictures Download Pictures Photobooth Videos Function Take Video Download Video Inquiries Function Video	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length] http://[camera ip]/video[num].mp4 Command http://[camera ip]/cgi-bin/param.cgi?get_media_video	[camera ip] [delay] [num] Variable [camera ip] [delay] [length] [num] Variable [camera ip]	Values *cameras current IP 1 9 11 4 Values *cameras current IP 1 9 1 10 1 4 Values *cameras current IP 4	Comments Shortest delay delay in seconds 1 - 9 longest delay Comments Comments Shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10 longest length Comments Comments Network Video Configuration
Download Pictures Photobooth Videos Function Take Video Download Video Inquiries Function Video Audio	http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&photo&0 http://[camera ip]/photo[num].jpg Command http://[camera ip]/cgi-bin/booth.cgi?0&4&[delay]&video&[length] http://[camera ip]/video[num].mp4 Command http://[camera ip]/cgi-bin/param.cgi?get_media_video http://[camera ip]/cgi-bin/param.cgi?get_media_audio	[camera ip] [delay] [num] Variable [camera ip] [delay] [length] [num] Variable [camera ip] [camera ip] [camera ip]	Values *cameras current IP 1 9 11 4 Values *cameras current IP 1 9 1 10 1 4 Values *cameras current IP 4	shortest delay delay in seconds 1 - 9 longest delay Comments shortest delay delay in seconds 1 - 9 longest delay shortest length length in seconds 1 - 10 longest length Comments Network Video Configuration Network Audio Configuration Network Configuration