

## VISCA interface API description

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## Command list: camera

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Command set	Command	Command packet	Comments
continuous zoom	stop	8x 01 04 07 00 FF	-
	tele fixed speed	8x 01 04 07 02 FF	
	wide fixed speed	8x 01 04 07 03 FF	
	tele controllable speed	8x 01 04 07 2p FF	p = speed, min 0x0, max 0x7
	wide control speed	8x 01 04 07 3p FF	p = speed, min 0x0, max 0x7
absolute zoom	-	8x 01 04 07 02 FF	pqrs = position 0x0000 to 0x4000 optical range 0x4001 to 07AC0 digital range
continuous focus	stop	8x 01 04 08 00 FF	-
	far fixed speed	8x 01 04 08 02 FF	
	near fixed speed	8x 01 04 08 03 FF	
	far controllable speed	8x 01 04 08 2p FF	p = speed, min 0x0, max 0x7
	near controllable speed	8x 01 04 08 3p FF	p = speed, min 0x0, max 0x7
absolute focus	-	8x 01 04 48 0p 0q 0r 0s FF	pqrs = position, min 0x1000, max 0xF000
auto focus	-	8x 01 04 38 pq FF	pq = mode 0x10 = toggle 0x02 = on 0x03 = off
set focus near limit	-	8x 01 04 28 00 00 00 0p FF	p = distance 0x2 = 20.00m 0x3 = 10.00m 0x4 = 6.00m 0x5 = 4.20m 0x6 = 3.10m 0x7 = 2.50m 0x8 = 2.00m 0x9 = 1.65m 0xA = 1.40m 0xB = 1.20m 0xC = 0.80m 0xD = 0.30m 0xE = 0.11m
white balance	-	8x 01 04 35 0p FF	p = mode 0x0 = auto 0x1 = fixed indoor 0x2 = fixed outdoor 0x4 = auto outdoor 0x5 = manual
white balance one push	trigger	8x 01 04 10 05 FF	-
relative red gain	-	8x 01 04 03 0p FF	p = mode 0x0 = reset, set to 50% 0x2 = up, more 0x3 = down, less
absolute red gain	-	8x 01 04 43 00 00 0p 0q FF	pq = gain, min 0x00, max 0xFF

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relative blue gain	-	8x 01 04 04 0p FF	p = mode 0x0 = reset, set to 50% 0x2 = up, more 0x3 = down, less
absolute blue gain	-	8x 01 04 44 00 00 0p 0q FF	pq = gain, min 0x00, max 0xFF
auto exposure	-	8x 01 04 39 0p FF	p = mode 0x0 = full auto 0x3 = full manual 0xA = shutter priority 0xB = iris priority 0xD = bright mode
relative shutter	-	8x 01 04 0A 0p FF	p = mode 0x0 = reset 0x2 = up, shorter 0x3 = down, longer
absolute shutter	-	8x 01 04 4A 00 00 0p 0q FF	pq = time 0x00 = 1/1s / 0x00 = 1/1s 0x01 = 1/2s / 0x01 = 1/2s 0x02 = 1/3s / 0x02 = 1/4s 0x03 = 1/6s / 0x03 = 1/8s 0x04 = 1/12s / 0x04 = 1/15s 0x05 = 1/25s / 0x05 = 1/30s 0x06 = 1/50s / 0x06 = 1/60s 0x07 = 1/75s / 0x07 = 1/90s 0x08 = 1/100s / 0x08 = 1/100s 0x09 = 1/120s / 0x09 = 1/125s 0x0A = 1/150s / 0x0A = 1/180s 0x0B = 1/215s / 0x0B = 1/250s 0x0C = 1/300s / 0x0C = 1/350s 0x0D = 1/425s / 0x0D = 1/500s 0x0E = 1/600s / 0x0E = 1/725s 0x0F = 1/1000s / 0x0F = 1/1000s 0x10 = 1/1250s / 0x10 = 1/1500s 0x11 = 1/1750s / 0x11 = 1/2000s 0x12 = 1/2500s / 0x12 = 1/3000s 0x13 = 1/3500s / 0x13 = 1/4000s 0x14 = 1/6000s / 0x14 = 1/6000s 0x15 = 1/10000s / 0x15 = 1/10000s

# VISCA interface API description

## Command list: Pan/Tilt

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### Command list: Pan/Tilt

Command set	Command	Command packet	Comments
continuous pan tilt	move up	8x 01 06 01 pp tt 03 01 FF	pp = pan speed, min 0x01, max 0x18 tt = tilt speed, min 0x01, max 0x17
	move down	8x 01 06 01 pp tt 03 02 FF	
	move left	8x 01 06 01 pp tt 01 03 FF	
	move right	8x 01 06 01 pp tt 02 03 FF	
	move up-left	8x 01 06 01 pp tt 01 01 FF	
	move down-left	8x 01 06 01 pp tt 01 02 FF	
	move up-right	8x 01 06 01 pp tt 02 01 FF	
	move down-right	8x 01 06 01 pp tt 02 02 FF	
	stop movement	8x 01 06 01 pp tt 03 03 FF	
absolute pan tilt	move directly to target position	8x 01 06 02 pp tt Og Oh Oi Oj Ok Ol Om On FF	pp = pan speed, min 0x01, max 0x18 tt = tilt speed, min 0x01, max 0x17 ghij = pan position, min 0xDE00 (-0x2200), max 0x2200 klmn = tilt position, min 0xFC00 (-0x0400), max 0x2200
relative pan tilt	move requested distance	8x 01 06 03 pp tt Og Oh Oi Oj Ok Ol Om On FF	pp = pan speed, min 0x01, max 0x18 tt = tilt speed, min 0x01, max 0x17 ghij = pan change, min 0xBC00 (-0x4400), max 0x4400 klmn = tilt change, min 0xEA00 (-0x1600), max 0x1600
goto home	move to home position	8x 01 06 04 FF	-
reset pan tilt	resets pan tilt driver	8x 01 06 05 FF	-
set pan tilt limits	-	8x 01 06 07 00 Op Og Oh Oi Oj Ok Ol Om On FF	p = corner, down-left 0x0, up-right 0x1 ghij = pan position, min 0xDE00, max 0x2200 klmn = tilt position, min 0xFC00 (-0x0400), max 0x1200

## VISCA interface API description

### Command list: extended

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#### Command list: extended

Command set	Command	Command packet	Comments
tally control	control tally light	8x 01 7E 01 0A 00 0p FF	p = mode 0x2 = on 0x3 = off

## VISCA interface API description

### Inquiry list: Device

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#### Inquiry list: Device

Command set	Command packet	Inquiry packet	Comments
Version	X 09 00 02 FF	9y 50 41 58 56 pq rs 00 02 FF	pqrs = product number Example: pqrs = 5925 for AXIS V5925

# VISCA interface API description

## Inquiry list: Camera

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### Inquiry list: Camera

Command set	Command packet	Inquiry packet	Comments
camera power	8x 09 04 00 FF	Fixed to on: y0 50 02 FF	-
auto focus	8x 09 04 38 FF	y0 50 0p FF	p = mode 0x2 = on 0x3 = off
white balance	8x 09 04 35 FF	y0 50 0p FF	p = mode 0x0 = auto 0x1 = fixed indoor 0x2 = fixed outdoor 0x4 = auto outdoor 0x5 = manual
auto exposure	8x 09 04 39 FF	y0 50 0p FF	p = mode 0x0 = auto 0x3 = full manual 0xA = shutter priority 0xB = iris priority 0xD = bright mode
back light compensation	8x 09 04 33 FF	y0 50 0p FF	p = mode 0x2 = on 0x3 = off
spot light mode	8x 09 04 3A FF	Fixed to off: y0 50 03 FF	-
exposure compensation	8x 09 04 3E FF	Fixed to off: y0 50 03 FF	-
zoom position	8x 09 04 47 FF	y0 50 0p 0q 0r 0s FF	pqrs = position 0x0000 to 0x4000 optical range 0x4001 to 0x7AC0 digital range

## VISCA interface API description

### Inquiry list: Pan/tilt

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#### Inquiry list: Pan/tilt

Command set	Command packet	Inquiry packet	Comments
pan tilt position	8x 09 06 12 FF	y0 50 0g 0h 0i 0j 0k 0l 0m 0n FF	ghij = pan position, min 0xDE00 (-0x2200), max 0x2200 klmn = tilt position min 0xFC00 (-0x0400), max 0x1200
menu display	8x 09 06 06 FF	Fixed to off: y0 50 03 FF	-



