

# ProfCam RS232 Commands

## RS-232C command & functions

NO	Group	Command	Functions	Status
1	zoom	ZMS↓	stop	RC↓ EX10↓
2		ZMT↓	TELE start	
3		ZMW↓	WIDE start	
4		ZSS↓	speed VERY FAST	
5		ZSH↓	speed FAST	
6		ZSM↓	speed MEDIUM	
7		ZSL↓	speed SLOW	
8	focus	FCS↓	stop	RC↓ EX11↓
9		FCA↓	AUTO	
10		FCN↓	NEAR start	
11		FCF↓	FAR start	
12	WB (white balance)	WBA↓	AUTO	RC↓ EX03↓
13		WBI↓	INDOOR	
14		WBO↓	OUTDOOR	
15		WBF↓	Fluorescent light	
16		WBM↓	MANUAL	
17		WBRU↓	R up	
18		WBRD↓	R down	
19		WBR(●)↓	(●)R 0-255	
20		WBBU↓	B up	
21		WBBD↓	B down	
22		WBB(●)↓	(●)B 0-255	
23		WBL↓	retrieve LOCK setting	
24		WBK↓	LOCK start	
25	SS (shutter speed)	SSU↓	up (increase)	RC↓ EX05↓
26		SSD↓	down (decrease)	
27		SS0↓	1/60	
28		SS1↓	1/100	
29		SS2↓	1/250	
30		SS3↓	1 /500	
31		SS4↓	1/1000	
32		SS5↓	1/2000	
33		SS6↓	1/4000	

NO	Group	Command	Functions	Status
34		SS7.↓	1/10000	
35	BL (back light)	BLU.↓	up (brighter)	RC.↓ EX06.↓
36		BLD.↓	down (darker)	
37		BL(**).↓	BL (**) ± 30	
38	iris	IRA(**).↓	AUTO (**) ± 30	RC.↓ EX07.↓
39		IRM(**).↓	MANUAL (**) ± 30	
40		IRA.↓	AUTO	
41		IRM.↓	MANUAL	
42		IRU.↓	up (open)	
43		IRD.↓	down (stop down)	
44	gain	GNA(**).↓	AUTO (**) ± 30	RC.↓ EX08.↓
45		GNM(**).↓	MANUAL (**) ± 30	
46		GNA.↓	AUTO	
47		GNM.↓	MANUAL	
48		GNU.↓	up	
49		GND.↓	down	
50	DETAIL (aper- ture)	DTU.↓	up (sharper)	RC.↓ EX18.↓
51		DTD.↓	down (softer)	
52		DT(**).↓	APERTURE (**) -6 to +9	
53	color	RG(**).↓	R GAIN (**) ± 30	RC.↓ EX0B.↓
54		RGU.↓	R GAIN up	
55		RGD.↓	R GAIN down	
56		BG(**).↓	B GAIN (**) ± 30	
57		BGU.↓	B GAIN up	
58		BGD.↓	B GAIN down	
59		RH(**).↓	R HUE (**) ± 30	
60		RHU.↓	R HUE up	
61		RHD.↓	R HUE down	
62		BH(**).↓	B HUE (**) ± 30	
63		BHU.↓	B HUE up	
64		BHD.↓	B HUE down	
65	camera ID entry	CH=(***).↓	entry of 8 letters	RC.↓ EX14.↓
66	camera	CDD.↓	ID display disable	RC.↓ EX0E.↓
67	ID display	CDE.↓	ID display enable	

NO	Group	Command	Functions	Status
68	AF sensitivity	ASU.↓	up	RC.↓ EX19.↓
69		ASD.↓	down	
70		ASH.↓	HIGH	
71		ASM.↓	MEDIUM	
72		ASL.↓	LOW	
73	AWB speed	AWU.↓	up	RC.↓ EX1A.↓
74		AWD.↓	down	
75		AWF.↓	FAST	
76		AWM.↓	MEDIUM	
77		AWS.↓	SLOW	
78		AWV.↓	VERY SLOW	
79	BLACK LEVEL	BK(●).↓	adjust black level (0 to +15)	RC.↓ EX25.↓
80		BKU.↓	up	
81		BKD.↓	down	
82	PLL shift H	PH(●).↓	PLL shift H(●) 0 to 453	RC.↓ EX1B.↓
83		PHU.↓	up	
84		PHD.↓	down	
85	PLL shift V	PV(●).↓	PLL shift V(●) 0 to 624	RC.↓ EX1C.↓
86		PVU.↓	up	
87		PVD.↓	down	
88	data display	DS0.↓	normal screen	RC.↓ EX20.↓
89		DS1.↓	FOCUS AUTO/MANUAL	
90		DS2.↓	IRIS AUTO/MANUAL	
91		DS3.↓	GAIN AUTO/MANUAL	
92		DS4.↓	BACK LIGHT	
93		DS5.↓	SHUTTER	
94		DS6.↓	DETAIL	
95		DS7.↓	W.B.	
96		DS8.↓	COLOR	
97		DS9.↓	SUB MENU	
98	preset	PR(●).↓	Load PRESET(●) 1 to 20	RC.↓ EX21.↓
99		PW(●).↓	Enter PRESET data(●) 1 to 20	
100		PC(●).↓	PRESET data clear(●) 1 to 20	

NO	Group	Command	Functions	Status
101	inquiry	ST0.↓	ZOOM information	aa,bbb
102		ST1.↓	FOCUS information	cc,ddd
103		ST2.↓	PRESET number	ee
104		ST3.↓	BRIGHT information	ff,gg,hh,ii
105		ST4.↓	BACK-LIGHT information	jj
106		ST5.↓	SS(shutter speed) information	kk
107		ST6.↓	DETAIL information	ll
108		ST7.↓	COLOR information	mm,nn,oo,pp
109		ST8.↓	WB information	qq, (rr,ss)
110		ST9.↓	AF sensitivity information	tt
111		STA.↓	AWB SPEED information	uu
112		STB.↓	PLL-SHIFT information	vv,www
113		STG.↓	back-up 01(off) / 00(on)	
114		STI.↓	BRIGHT information	yyy
115	lens control	LD***###.↓	ZOOM***FOCUS### position	RC.↓ EX22.↓
116	MENU preset	MP.↓	Switches all MENU settings back to the default condition	RC.↓ EX23.↓
117	back-up	BUE.↓	back-up enable at power off	
118		BUD.↓	back-up disable at power off	

## ■ Details of the status no. 101-118

Status	Meanings
aa	Zoom speed
bbb	ZOOM position (3 figures in hexadecimal) 0 to 78A
cc	FOCUS AUTO (1) / LOCK (0)
ddd	FOCUS position (3 figures in hexadecimal) E0 to 2C8 (H)
ee	PRESET no.
ff	IRIS AUTO (1) / MANUAL (0)
gg	IRIS value
hh	AGC AUTO (1) / MANUAL (0)
ii	AGC value
jj	BACK- LIGHT value
kk	SS (shutter-speed) value
ll	DETAIL value
mm	R GAIN
nn	B GAIN
oo	R HUE
pp	B HUE
qq	WB value
rr	WB manual value
ss	WB manual value
tt	AF sensitivity value
uu	AWB SPPD value
vv	PLL-SHIFT H value
www	PLL-SHIFT V value
yyy	BRIGHT GAIN (0 to 255)

## Error messages and meanings

ERROR code	Meanings
ERR1	command line undefined
ERR2	data after command out of range
ERR3	overflow occurred in reception buffer
ERR4	wrong serial format found
ERR5	W.B. unlocked
ERR6	data reception invalid (as the focus lens is moving)
ERR7	command reception invalid (ADJUST etc.)

### NOTE:

- When you send "stop" command such as ZMS.␣ or FCS.␣, be sure to make adjustments (zoom, focus etc.) first.
- If you turn on the camera before turning on your PC or starting RS-232C driver software, the command may not be received correctly. The first command may be taken as an error. In this case, send the command "␣ (CR or CR + LF)" before sending the command you wish to send.