

## SDM uBasic Commands - Alphabetical list

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#

@title

@param

@default

@values

@range

### **aeb\_canon\_off**

aeb\_canon\_on

af\_assist\_off

af\_led\_off

af\_led\_on

altitude

and

aperture

auto\_focus\_first

auto\_focus\_bracketing

auto\_focus\_all

auto\_focus

autofocus

av\_value

### **beep**

big\_zoom\_display\_off

big\_zoom\_display\_on

big\_zoom\_display\_pos

blink\_af\_led\_for

burst\_sequence

### **call**

cam\_has\_nd\_filter

cam\_has\_av\_mode

cam\_has\_tv\_mode

canon\_timer\_active

capture\_mode

change\_ev\_by

click

cls

console\_position

console\_redraw

continuous\_shooting

cs\_off

cs\_on

cs

cover\_lens

custom\_timer

## **data\_received**

date  
debug\_led\_off  
debug\_led\_on  
disable\_big\_zoom  
disable\_logging  
do

## **each\_photo\_alternating**

each\_photo\_darker  
each\_photo\_lighter  
elapsed\_time  
else  
enable\_big\_zoom  
enable\_focus\_override  
enable\_logging  
end\_time  
End\_hour/end\_hour  
End\_minutes/end\_minutes  
endif  
end  
ev\_correction  
exit\_alt

## **finish\_time**

flash\_off  
flash\_on  
focus\_at\_nearpoint  
focus\_out  
focus\_in  
focus\_mode  
for

## **get\_autostart**

get\_brightness  
get\_capture\_mode  
get\_config\_value  
get\_day\_seconds  
get\_drive\_mode  
get\_equivalent\_focal\_length  
get\_evl  
get\_ev\_correction  
get\_exposure\_count  
get\_exp\_count  
get\_farpoint  
get\_flash\_mode  
get\_fl  
get\_focal\_length  
get\_focused\_distance  
get\_focus  
get\_fov  
get\_free\_disk\_space  
get\_iso

get\_lens\_mecha\_position  
get\_mode  
get\_movie\_status  
get\_nearpoint  
get\_orientation  
get\_override\_tv96  
get\_prop  
get\_quality  
get\_real\_focal\_length\_for\_step  
get\_real\_iso  
get\_resolution  
get\_shooting  
get\_shoot\_fast\_param  
get\_tick\_count  
get\_av96  
get\_min\_av96  
get\_bv96  
get\_sv96  
get\_tv96  
get\_usb\_power  
get\_usb\_pulse\_width  
get\_video\_button  
get\_zoom\_steps  
get\_current\_zoom\_position  
get\_zoom  
gosub  
goto

### **hdr\_bracket\_1/3\_ev\_steps**

hours

### **if**

image\_number  
interval\_shots  
is\_capture\_mode\_valid  
is\_continuous\_af\_on  
is\_key  
is\_pressed  
is\_servo\_af\_on  
is\_this\_right\_camera  
is\_on  
is\_off  
is\_usb\_high

### **let**

line\_1  
line\_2  
line\_3  
line  
load\_grid  
lock\_auto\_exposure  
lock\_ae  
lock\_autofocus  
lock\_focus\_at\_infinity

lock\_focus\_at  
log\_brightness  
log

### **manual\_focus\_on**

manual\_focus\_off  
md\_detect\_motion  
md\_get\_cell\_diff  
message  
meter\_brightness  
mf\_on  
mf\_off  
minutes

### **nd\_filter\_out**

nd\_filter\_off  
nd\_filter\_in  
next  
not  
number\_of\_images\_to\_capture\_is

### **or**

### **playback\_mode**

playsound  
precision\_sample\_usb\_at\_msec  
precision\_sample\_usb\_off  
prepare\_for\_shot\_at  
press  
print\_screen  
print

### **readYUV**

record\_mode  
release  
remove  
rem  
restore\_focus  
restore\_zoom  
return

### **save\_focus**

save\_stack  
save\_zoom  
scroll\_console  
sdm\_2D\_mode  
sdm\_3d\_event\_mode  
sdm\_3D\_mode  
sdm\_3D\_SPORTS\_mode  
sdm\_auto\_hdr\_mode  
sdm\_burst\_mode  
sdm\_display\_mode  
sdm\_console\_off

sdm\_console\_on  
sdm\_console\_lines  
sdm\_console\_line\_length  
sdm\_reset  
sdm\_user\_hdr\_mode  
seconds  
send\_data  
set\_aflock  
set\_af\_assist  
set\_autostart  
set\_av96\_direct  
set\_av\_rel  
set\_av  
set\_canon\_jpg\_raw\_state  
set\_config\_value  
set\_focus\_step\_to  
set\_focus\_to  
set\_focus\_range  
set\_focus  
set\_hdr\_tv96  
set\_iso  
set\_led  
set\_max\_iso\_to  
set\_nd\_filter  
set\_prop  
set\_quality  
set\_raw  
set\_remote\_timing  
set\_resolution  
set\_script\_speed  
set\_shoot\_fast\_param  
set\_sv96  
set\_tv96\_direct  
set\_tv\_rel  
set\_tv  
set\_zoom\_rel  
set\_zoom\_to\_equiv\_focal\_length  
set\_zoom\_to\_focal\_length  
set\_zoom\_to\_real\_focal\_length  
set\_zoom\_to\_step  
set\_zoom\_to  
set\_zoom  
shoot  
shoot\_fast\_at  
shoot\_movie\_for  
shoot\_when\_camera\_steady  
shoot\_when\_no\_movement\_for  
shot\_count  
shutdown  
shut\_down  
shutter\_speed  
sleep\_for\_minutes  
sleep\_for\_msecs  
sleep\_for\_seconds

sleep\_for  
sleep\_until  
sleep  
start\_clock  
Start\_hour/start\_hour  
Start\_minutes/start\_minutes  
start\_movie/start\_video  
start\_time  
stop\_movie/stop\_video  
switch\_start\_movie/switch\_start\_video  
stitch\_mode\_supported  
switch\_stop\_movie/switch\_stop\_video  
step  
sync\_on  
synch\_on  
sync\_off  
synch\_off  
sync\_ticks

### **then**

time  
time\_lapse  
to  
tune\_unit\_pulse  
turn\_lcd\_power\_off  
turn\_lcd\_power\_on  
Tv\_bracket\_1/3\_ev\_steps  
tv\_value

### **unit\_burst**

unit\_pulse  
unlock\_auto\_exposure  
unlock\_ae  
unlock\_focus  
until  
usb\_pulse\_action  
use\_af\_led  
use\_debug\_led

### **valid\_modes**

video\_zoom\_in\_out

### **wait\_click**

wait\_for\_switch\_press  
wait\_for\_usb  
wait\_until\_done  
warning  
wend  
wheel\_left  
wheel\_right  
while

## SDM uBasic Commands - grouped by function

### **APERTURE**

aperture  
av\_value  
cam\_has\_av\_mode  
get\_av96  
get\_min\_av96  
set\_av96\_direct  
set\_av\_rel  
set\_av

### **BRACKETING**

each\_photo\_alternating  
each\_photo\_darker  
each\_photo\_lighter  
get\_shoot\_fast\_param  
hdr\_bracket\_1/3\_ev\_steps  
number\_of\_images\_to\_capture\_is  
set\_shoot\_fast\_param  
Tv\_bracket\_1/3\_ev\_steps  
wait\_until\_done

### **BRIGHTNESS**

get\_brightness  
get\_bv96  
log\_brightness  
meter\_brightness  
readYUV

### **BUTTONS**

click  
press  
release  
wait\_click  
wait\_for\_switch\_press  
wheel\_left  
wheel\_right

### **CANON MODES**

cam\_has\_tv\_mode  
capture\_mode  
continuous\_shooting  
cs\_off  
cs\_on  
cs  
focus\_mode  
get\_capture\_mode

get\_drive\_mode  
get\_flash\_mode  
get\_mode  
is\_capture\_mode\_valid  
is\_continuous\_af\_on  
is\_servo\_af\_on  
playback\_mode  
record\_mode  
stitch\_mode\_supported  
valid\_modes

## **DISPLAY**

big\_zoom\_display\_off  
big\_zoom\_display\_on  
big\_zoom\_display\_pos  
console\_position  
console\_redraw  
disable\_big\_zoom  
enable\_big\_zoom  
turn\_lcd\_power\_off  
turn\_lcd\_power\_on

## **EXPOSURE**

aeb\_canon\_off  
aeb\_canon\_on  
change\_ev\_by  
ev\_correction  
get\_ev\_correction  
lock\_auto\_exposure  
lock\_ae  
unlock\_auto\_exposure  
unlock\_ae

## **FLASH**

flash\_off  
flash\_on

## **FOCUS**

auto\_focus\_first  
auto\_focus\_bracketing  
auto\_focus\_all  
auto\_focus  
autofocus  
disable\_focus\_override  
enable\_focus\_override  
focus\_at\_nearpoint  
focus\_out  
focus\_in  
get\_farpoint  
get\_focused\_distance



get\_focus  
get\_lens\_mecha\_position  
get\_nearpoint  
get\_real\_focal\_length\_for\_step  
lock\_autofocus  
lock\_focus\_at\_infinity  
lock\_focus\_at  
manual\_focus\_on  
manual\_focus\_off  
mf\_on  
mf\_off  
restore\_focus  
save\_focus  
set\_aflock  
set\_focus\_step\_to  
set\_focus\_to  
set\_focus\_range  
set\_focus  
unlock\_focus

## **GRIDS**

load\_grid

## **IMAGE**

get\_quality  
get\_resolution  
image\_number  
set\_quality  
set\_raw  
set\_resolution  
shot\_count

## **IMAGE STABILISATION**

is\_on  
is\_off

## **ISO**

get\_iso  
get\_real\_iso  
get\_sv96  
set\_iso  
set\_max\_iso\_to  
set\_sv96

## **LEDS**

af\_assist\_off  
af\_led\_off  
af\_led\_on  
blink\_af\_led\_for

debug\_led\_off  
debug\_led\_on  
set\_af\_assist  
set\_led  
use\_af\_led  
use\_debug\_led

## **LOGICAL**

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and

or

## **MATH**

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## **MISCELLANEOUS**

altitudecover\_lens  
get\_config\_value  
get\_exposure\_count  
get\_exp\_count  
get\_fov  
get\_free\_disk\_space  
get\_orientation  
message  
remove  
set\_canon\_jpg\_raw\_stateset\_config\_value  
shot\_count  
shutdown  
shut\_down

## **MOTION DETECTION**

md\_detect\_motion  
md\_get\_cell\_diff  
shoot\_when\_camera\_steady  
shoot\_when\_no\_movement\_for

## **MOVIE**

get\_movie\_status  
get\_video\_button  
shoot\_movie\_for

start\_movie/start\_video  
stop\_movie/stop\_video  
switch\_start\_movie/switch\_start\_video  
switch\_stop\_movie/switch\_stop\_video  
video\_zoom\_in\_out

## **ND FILTER**

cam\_has\_nd\_filter  
nd\_filter\_out  
nd\_filter\_off  
nd\_filter\_in  
set\_nd\_filter

## **PRINTING**

disable\_logging  
enable\_logging  
line\_1  
line\_2  
line\_3  
line  
log  
print\_screen  
print  
save\_stack  
scroll\_console  
sdm\_console\_off  
sdm\_console\_on  
sdm\_console\_lines  
sdm\_console\_line\_length

## **PROPERTY CASE**

get\_prop  
set\_prop

## **SHUTTER SPEED**

get\_override\_tv96  
get\_tv96  
set\_hdr\_tv96  
set\_tv96\_direct  
set\_tv\_rel  
set\_tv  
shutter\_speed  
tv\_value

## **SCRIPT CONTROL**

exit\_alt  
get\_autostart  
set\_autostart  
set\_script\_speed

## **SCRIPT PARAMETERS**

@title  
@param  
@default  
@values  
@range  
rem  
//  
#  
[comment block]  
#

## **SDM MODES**

is\_this\_right\_camera  
sdm\_2D\_mode  
sdm\_3d\_event\_mode  
sdm\_3D\_mode  
sdm\_3D\_SPORTS\_mode  
sdm\_auto\_hdr\_mode  
sdm\_burst\_mode  
sdm\_display\_mode  
sdm\_reset  
sdm\_user\_hdr\_mode  
sync\_on  
synch\_on  
sync\_off  
synch\_off

## **SHOOTING**

burst\_sequence  
get\_shooting  
interval\_shots  
prepare\_for\_shot\_at  
shoot  
shoot\_fast\_at

## **SOUND**

beep  
playsound  
warning

## **TIMER**

canon\_timer\_active  
custom\_timer  
start\_custom\_timer\_sequence

## **TIME and DATE**

date  
elapsed\_time  
end\_time  
end\_hour  
end\_minutes  
finish\_time  
get\_day\_seconds  
get\_tick\_count  
hours  
minutes  
seconds  
set\_remote\_timing  
sleep\_for\_minutes  
sleep\_for\_msecs  
sleep\_for\_seconds  
sleep\_for  
sleep\_until  
sleep  
start\_clock  
start\_hour  
start\_minutes  
start\_time  
sync\_ticks

## **TIMELAPSE**

time\_lapse

## **USB**

data\_received  
get\_usb\_power  
get\_usb\_pulse\_width  
is\_usb\_high  
precision\_sample\_usb\_at\_msec  
precision\_sample\_usb\_off  
send\_data  
set\_remote\_timingtune\_unit\_pulse  
unit\_burst  
unit\_pulse  
usb\_pulse\_action  
wait\_for\_usb

## **ZOOM**

get\_equivalent\_focal\_length  
get\_efl  
get\_fl  
get\_focal\_length

get\_zoom\_steps  
get\_current\_zoom\_position  
get\_zoom  
restore\_zoom  
save\_zoom  
set\_zoom\_rel  
set\_zoom\_to\_equiv\_focal\_length  
set\_zoom\_to\_focal\_length  
set\_zoom\_to\_real\_focal\_length  
set\_zoom\_to\_step  
set\_zoom\_to  
set\_zoom