

EL ZONE SYSTEM GUIDE

VariCam LT and VariCam 35 Firmware Version 9



VariCam LT

[Download \(panasonic.co.jp\)](http://panasonic.co.jp)

VariCam 35

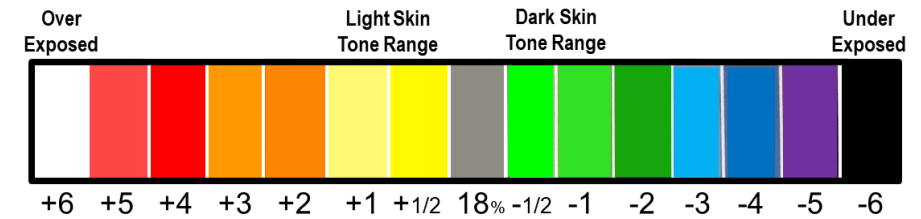
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EXPOSURE MAP TOOL

"EL Zone System™ and EL Zone™ are trademarks of Cinecam, Inc."

EL ZONE SYSTEM OVERVIEW



EL Zone, developed by Cinematographer Ed Lachman, ASC is an exposure tool

based on stop values that relates one to one with lenses and light meters.

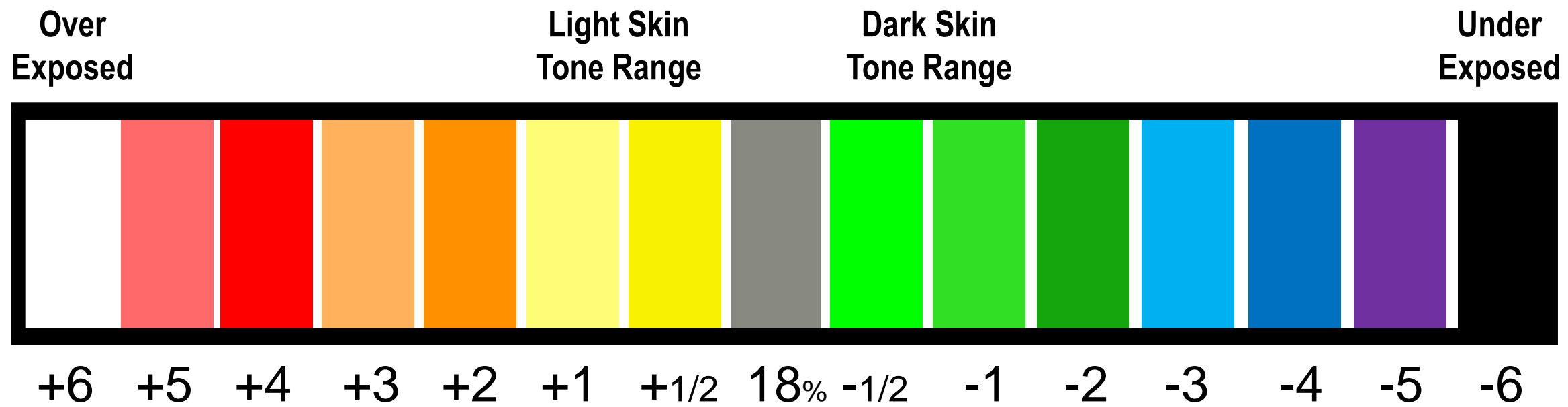
EL Zone has 15 delineated zones in 1 stop increments plus + - ½ increments above and below 18% gray to for setting precise skin tones.

Easy to use, 18% gray is gray, over exposure is white, under exposure is black.

Each stop (zone) is a solid color making it easy to identify the stop value.

EL Zone shows an entire scenes exposure making light level adjustments easier.

EL ZONE SYSTEM SCALE



EL ZONE SKIN TONE EXPOSURE

EL ZONE OFF



Cambelles reference chart courtesy of DSC Labs.

EL ZONE ON



18% Gray shows as Gray

Caucasian Skin, medium yellow (+1/2 stop) and bright yellow (+1 stop) is skin exposure based above 18% gray.

Dark Skin, light green (-1/2 stop) and medium green (-1 stop) based below 18% gray.

IRE % VS. STOP VALUES

Conventional False Color IRE %

White-level clip -3% over (Over Exposure)
White-level clip -6% to White-level clip -3%



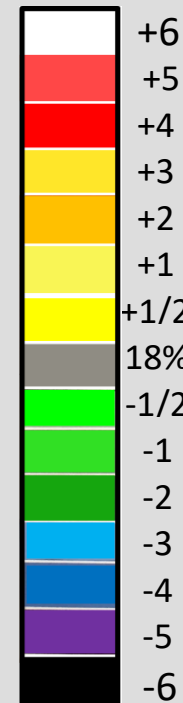
48.7% to 51.8%
(18% gray+1)
40.5% to 43.6%
(18% gray)



10.3% to 13.2% (Upper area of the black-level clip)
7.3% to 10.3% (Under Exposure)



EL Zone System Stop Values



+6 White = Over Exposure



-6 Black = Under Exposure

EL ZONE Menu Setup - Assign to User Switch

MENU
SYSTEM SETTINGS
CAMERA SETTINGS
SCENE FILE SETTINGS
REC SETTINGS
AUDIO SETTINGS
OUTPUT SETTINGS

Open camera menu and
Select
SYSTEM SETTINGS.

MENU > SYSTEM SETTINGS
SYSTEM MODE
COLOR SETTINGS
ANAMORPHIC DESQUEEZE
IMAGE INVERT
USER SWITCHES
SIDE LOCK

Select USER SWITCHES.

MENU > SYSTEM SETTINGS > USER SWITCHES	
EXIT	
USER1	EXPOSURE MAP
USER2	Y GET
USER3	RETURN
USER TOGGLE (USER4)	WB
USER5	INHIBIT

Assign to USER1 or your choice.

Exit back to Main Menu.

EL ZONE Menu Setup - Configure EL Zone

MENU
SCENE FILE SETTINGS
REC SETTINGS
AUDIO SETTINGS
OUTPUT SETTINGS
FILE
PERIPHERAL

From Main Menu scroll down and select OUTPUT SETTINGS.

MENU > OUTPUT SETTINGS
SDI OUT MARKER
VF SDI INDICATOR
VF SDI MARKER
VF SDI FOCUS ASSIST
OPEN IRIS FOCUS ASSIST
VF SDI EI ASSIST

Scroll down and select VF-SDI IE ASSIST.

MENU > OUTPUT SETTINGS > VF SDI EI ASSIST	
- TRANSPARENCE	50%
Y GET SW	ON
- UNIT	STOP
- AREA SIZE	EXIT
EXPOSURE MAP SW	FALSE
EXPOSURE MAP SEL	✓ EL ZONE

Scroll down and select EXPOSURE MAP SEL then select EL ZONE.

EXIT MENU.

EL ZONE ON/OFF

Press assigned
USER SW to turn
EL ZONE ON/OFF



EL ZONE can also be
turned ON/OFF in Menu
as shown.

MENU > OUTPUT SETTINGS > VF SDI EI ASSIST	
- TRANSPARENCE	50%
Y GET SW	ON
- UNIT	STOP
- AREA SIZE	EXIT
EXPOSURE MAP SW	ON
EXPOSURE MAP SEL	▼ OFF



VF-SDI OUT
EL ZONE OFF



VF-SDI OUT
EL ZONE ON

IMPORTANT EL ZONE NOTES

EL Zone is now available on firmware version 9 and above. <https://eww.pass.panasonic.co.jp>

The following color mode settings support EL Zone: V-LOG, V-709, plus V-LOOK1, V-LOOK2 on the LT.

LT Note, color modes BC-LOOK1, BC-LOOK2 and SHADING will use False color.

The reason is that EL Zone scale exceeds the steps (latitude) these color modes support.

EL Zone also requires a fixed gamma to ensure accuracy such as those found in our V-LOOKS.

EL ZONE is only supported on the View Finder Output (aka VF). However, on the LT SDI 2 can be assigned to VF-SDI. On the V35 this will be Monitor 2 (as opposed to SDI-2 on the LT). The V35 also offers a separate VF-SDI output. This will allow EL Zone to be displayed on an external monitor if desired.

That's all there is to it, very simple.