

MallinCam JR OSD Menu Navigation

Symbols

"↔" Press LEFT or RIGHT menu button to select indicated options

"■" Press CENTRAL menu button

Menu

WHITE BAL ↔ **AWB** - ■; "AWB" blinks; blinking stops; press ■ again

OR

ATW - ■; ↔ **WIDE / NARROW** [Wide = Full White Range /Narrow = Red]

ALC/AES ↔ **ALC** - ■; **SHUTTER** ↔ OFF, 100 thru 10,000 for 1/100Sec thru 1/10,000Sec
[Select OFF for Frame Integration]

OR

AES - [Automatic Shutter]

FLC ↔ **ON / OFF** - [Set to OFF]

AGC ↔ **ON / OFF** - [Automatic Gain Control]

SENSE UP ↔ **ON** ■; **MAX** ↔ x2, x4, ..., x256[Frame Integration, X2=1/32Sec, X4=1/16Sec, Etc.
[Need to have Shutter OFF in ALC during Frame Integration]

OR

OFF

BACK LIGHT ↔ **ON / OFF** [Set to OFF]

MASK ■; For each Mask (A, B, C, D): ↔ **ON** ■; Define Properties of Mask

OR

OFF

OPTION ■; Enter OPTIONS Submenu:

TITLE ↔ **ON** ■; Prepare Title; Move Cursor to "END", Then ■

OR

OFF

H-REV ↔ **ON / OFF** [Flip about Short Axis]

V-REV ↔ **ON / OFF** [Flip about Long Axis]

COLOR BAR ↔ **ON / OFF**

GAMMA ↔ **TYPE A / TYPE B** [Type A=Gamma 0.45 or Lighter/Type B=Gamma 1/0 or Darker]

ZOOM ↔ **ON / OFF** [2x or 1x]

ENHANCER ↔ **MID / HIGH** [Sharpening]

DAY/NIGHT ↔ **AUTO / DAY / NIGHT / EXT** [Auto via AGC level / Color / B&W / Via external signal]

PRIORITY ↔ **AGC / SENSE** [Switches signal detection between Amplifier and CCD sensor]

EXIT ↔ **SAVE** ■ [Saves current settings for future startup]

OR

PRESET ■ [Reverts to factory defaults]

MallinCam JR Menu Item Acronyms / Explanations

OSD = On-Screen Display

AWB = Automatic White Balance

This is for automatic color balancing. The camera samples the sky conditions where the scope is aimed, and it adjusts the white balance accordingly. If sky brightness varies in different parts of the sky, re-run AWB when moving to a new part of the sky.

ATW = Automatic Trace White Balance

When the camera is set to ATW, the white balance automatically adjusts for changes.

ALC = Automatic Level Control or Adjustable Level Control

This is used to select the shutter speed for Lunar, Planetary and Solar observing. When observing DSO's, it is set to OFF

AES = Automatic Electronic Shutter

This is used for lenses that have an electric iris that connects to the rear of the camera. It is not normally used for astronomy unless a daylight scene is being viewed with the correct lens. It is linked to FLC.

FLC = Flicker Control

This helps control sudden changes in the refresh rate.

AGC = Automatic Gain Control

When ON, the Gain is set to Full.

SENSE UP = Increase the amount of frame integration performed by the camera. The minimum value is X2 or 1/32 Second and the maximum value is X256 or 4 Seconds.

BACK LIGHT = Background Light Compensation

This is normally left to OFF for astronomically usage. For daytime usage when monitoring a foreground object with a brightly lit background, it is turned ON to help the camera compensate for the difference in lighting.

MASK = For astronomical purposes, the four Mask can be activated and shaped into lines to form crosshairs.

TITLE = Used to create a Title of up to 12 characters on the screen

← = Moves the cursor left in title line

→ = Moves the cursor right in title line

BS = Back spaces the cursor

POS = Sets the position of the title on screen. Four positions are possible.

H-REV = Flips the image across long axis

V-REV = Flips the image across short axis

COLOR BAR = Turns on the Color bar to assist in initial monitor calibration

GAMMA ↔ Change between Gamma A (lighter) and Gamma B (darker)

ZOOM = Activates the 1.5X Digital Zoom

ENHANCER ↔ MID / HIGH

It is similar to APC (Advanced Pixel Control) on the other MallinCams. It is used to sharpen the image. HIGH yields a higher level of sharpening than MID

DAY/NIGHT ↔ AUTO / DAY / NIGHT / EXT

AUTO will provide Color for brighter objects and B&W when a dim object is viewed.

DAY will provide a Color image always.

NIGHT will provide a B&W image always.

EXT will keep the camera in Color mode regardless of lighting conditions.

PRIORITY = Either AGC or SENSE. It controls auto-darkening on bright objects. Leave on AGC for best DSO observing.

EXIT + SAVE = Save camera settings until next altered

EXIT + PRESET = Exit with factory-defined camera settings

Suggested MallinCam JR Camera Settings

Deep-Sky Objects

White Bal: AWB Calibration followed by ATW

ALC/AES: ALC / Shutter OFF

FLC: OFF

AGC ON

Sense Up: ON and normally X256

Back Light: OFF

Option: TITLE OFF
 H-REV OFF
 V-REV OFF
 COLOR BAR OFF
 GAMMA TYPE A OR TYPE B
 ZOOM OFF
 ENHANCER MID
 DAY/NIGHT EXT
 PRIORITY AGC

Moon and Planets

White Bal: ATW

ALC / AES: ALC / Shutter speed as desired

FLC: OFF

AGC OFF

Sense Up: OFF

Back Light: OFF

Option: TITLE OFF
 H-REV OFF
 V-REV OFF
 COLOR BAR OFF
 GAMMA TYPE A OR TYPE B
 ZOOM OFF
 ENHANCER MID
 DAY/NIGHT EXT
 PRIORITY AGC