MENU- Full List of Settings

```
O       IRIS          ELC / ALC
O       FOCUS ADJ     OFF / ON
O       EXPOSURE      _|
                BRIGHTNESS        12|-----|----|
                SHUTTER AUTO _|
                        MODE              NORMAL/DEBLUR
                        RETURN    _|
                SENS UP OFF / X2 / X4 / X8 … X64
                AGC               2 |-|---------|
                RETURN    _|
O       BACKLIGHT     OFF / HLC _| / BLC _| / WDR _|
                HLC
                        LEVEL             10 |-----|-----|
                        COLOR             BLK / WHT / YEL / CYN / GRN / MAG / RED / BLU
                        RETURN    _|
                BLC
                        H-POS     7         0-20
                        V-POS     6         0-20
                        H-SIZE    5         0-20
                        V-SIZE    5         0-20
                        RETURN    _|
                WDR
                        WEIGHT    MIDDLE / HIGH / LOW
                        RETURN    _|
O       DAY&NIGHT     COLOR / B&W _| / EXTERN _| / AUTO _|
                B&W               _|
                        IR LED            OFF / ON _|
                        ANTI-SAT.         10 |----|-----|
                        RETURN    _|
                EXTERN    _|
                        IR LED            OFF / ON _|
                        ANTI-SAT.         10 |----|-----|
                        EXTERN SW         HIGH / LOW / MIDDLE
                        D > N THRES       13 |------|---|
                        N > D THRES       7  |----|-----|
                        DELAY             LOW / MIDDLE / HIGH
                        RETURN    _|
                AUTO              _|
                        IR LED            OFF / ON _|
                        ANTI-SAT.         10 |----|-----|
                        AGC THRES         10 |----|-----|
                        AGC MARGIN        10 |----|-----|
                        DELAY             LOW / MIDDLE / HIGH
                        RETURN    _|
O       COLOR             _|
                AWB               PRESET v / MANUAL _| / AUTO / AUTOext
                        MANUAL
                                COLORTEMP         3000K / 5000K / 8000K
                                R-GAIN            10 |----|-----|
                                B-GAIN            10 |----|-----|
                COLOR GAIN        2|-|---------|
                RETURN    _|
O       DNR           MIDDLE
O       IMAGE             _|
                SHARPNESS         5 |---|-------|
                GAMMA   0.55 / 0.65 / 0.75 / 0.45
                MIRROR  OFF / ON
                FLIP    ON/OFF
                D-ZOOM  1.0x -> 16.0x: 0.1x
                ACE               OFF / LOW / MIDDLE / HIGH
                DEFOG             OFF / ON _|
                        MODE      MANUAL / AUTO
                        WEIGHT    LOW / MIDDLE / HIGH
                        RETURN    _|
                SHADING _|
                        WEIGHT 1% - 100%
                        RETURN    _|
                PRIVACY _|
                        BOX               OFF / ON _|
                                ZONE NUM          0-15
                                ZONE DISP         OFF / ON
                                H-POS             0-60
```

```
                              V-POS             0-34
                              H-SIZE            0-60
                              V-SIZE            0-34
                              Y LEVEL    10 |----|----|
                              CB LEVEL 10 |----|----|
                              CR LEVEL 10 |----|----|
                              TRANS             3 / 2 / 1 / 0
                              RETURN    _|
                    POLYGON OFF / ON _|
                              ZONE NUM          0-15
                              ZONE DISP         OFF / ON
                              POS1-X    0-120
                              POS1-Y    0-68
                              POS2-X    0-120
                              POS2-Y    0-68
                              POS3-X    0-120
                              POS3-Y    0-68
                              POS4-X    0-120
                              POS4-Y    0-68

                              Y LEVEL    10 |----|----|
                              CB LEVEL 10 |----|----|
                              CR LEVEL 10 |----|----|
                              TRANS             3 / 2 / 1 / 0
                              RETURN    _|
                    RETURN            _|
O        DIS        OFF / ON _|
                    RANGE             10% / 20% / 30%
                    FILTER            MIDDLE / HIGH / LOW
                    AUTO C    FULL / OFF / HALF
O        iMOTION    OFF / ON _|
                    DET WINDOW        _|
                              WINDOW ZONE0 / 1 / 2 / 3
                              WINDOW USE        ON / OFF
                              DET H-POS         1-60
                              DET V-POS         1-34
                              DET H-SIZE        1-60
                              DET V-SIZE        1-34
                              RETURN    _|
                    SENSITIVITY       5 |----|----|
                    ESTIMATE OFF / ON
                    QUCIK ZOOM        OFF / ON _|
                              ZOOM SPEED        MIDDLE / HIGH / LOW
                              TRACKING          OFF / ON
                              REPEAT    OFF / ON
                              RETURN    _|
                    MOTION OSD        OFF / ON
                    TEXT ALARM        OFF / ON
                    SIGNAL OUT        OFF / ON
                    RETURN    _|
O        SYSTEM    _|
                    COM               _|
                              CAMID             1-255
                              BAUDRATE          115200
                              RETURN    _|
                    IMAGERANGE        FULL / COMP / USER _|
                              OFFSET    3 |-|--------|
                              RETURN    _|
                    COLORSPACE        HD-CbCr / YUV / SD-CbCr
                    FRAMERATE         1080-60p / 720-30p / 720-60p / 1080-60i / 1080-30p
                    FREQ              60Hz / 50Hz
                    CVBS              OFF / ON
                    COLOR BAR         OFF / ON
                    LANGUAGE          ENG / CHN / CHN(S) / JPN / KOR
                    CAM TITLE         OFF / ON_|
                              0000000
                              ----------
                    U, D to change value
                    R, L to change location
                    Return to enter
                    RESET             ONv
                    RETURN    _|
O        EXIT
```

Refer to the manuals and the Operating Card for normal Pharos HD^{TM} use.

Access the menu by pressing and holding the ON/OFF button, followed by pressing the center White Balance button. Access will be apparent by the strobing of a red/green LED by the ON/OFF button. Any connected display will have a list of settings in white letters. Use the Zoom and Brightness buttons as arrows and the White Balance button as an enter button. The current selected option will be shown with yellow letters.

Default Menu List and important setting options

IRIS   ELC

The iris options are set between an electronic iris, and an automatic iris. Since the Pharos HD uses a manual lens with a fixed iris, the ALC compensation is not recommended.

FOCUS ADJ   OFF

The focus assist is not recommended. The image quality of even the unfocused image is enough to make the fine adjustments unclear.

EXPOSURE   _|

The normal operation brightness buttons affect the first option in this menu. We recommend leaving the shutter, sensitivity and AGC settings. Changes will cause large reactions to the addition other surgical lights in and back out of the camera image.

Default brightness is set to 12, and default AGC is set to 2.

BACKLIGHT   OFF

In the event of working with a known bright object on a specific part of the image, the backlight settings can be used to prevent the camera from changing brightness settings.

DAY&NIGHT   COLOR

It is recommended to leave the camera set to the default option, Color.

COLOR   _|

To increase or decrease color saturation, adjust the color gain. White balance settings can also be adjusted here. In order to use the white balance button effectively without having to set it, return to the preset mode and allow it to finish "pushing."

Default White Balance mode is set to Preset, and default color gain is set to 4.

DNR   MIDDLE

The difference between high middle and low is minimal in bright conditions.

IMAGE   _|

Sharpness and Gamma have a decent impact on the image, and can be adjust for specific procedures. But the remaining options are recommended to leave at their default settings.

Default Sharpness is set to 5, and default Gamma is set to .55.

DIS   OFF

DIS, or digital image stabilization, can be useful. The amount of the image periphery cut off to handle the image processing can be set to 10, 20 or 30%.

iMOTION   OFF

This can be used to track motion of surgical tools.

SYSTEM   _|

The camera can change resolutions, framerates, or display the serial number.

Default settings.

EXIT

Exit the menu by selecting the exit option. The diode will continue to blink red and green until the power button is hit once more. Normal button use will resume when the LED is green. The settings adjusted in this manner are saved to the device. Refer to the information provided for the default settings.