FALCON EYE
COLOR NIGHT VISION
View and record in colors during day and night
FALCON EYE KC-2000 MKII CAMERA

A new range of Falcon Eye cameras with truly unique features making it possible to view and record in colors during night – even in the near total darkness of scenes invisible to the human eye. The new IR feature of the MKII version, allows the camera also to see and record in monochrome in total darkness.

HANDHELD OPERATION
Compact, lightweight and excellent portability. Designed for handheld shooting. Small form factor for covert operations. 5 hours continuous video recording using integrated battery and recording media.

EASY IDENTIFICATION
High resolution in clear colors and progressive scanning technology gives outstanding target recognition and identification capability.

AFFORDABLE LENSES
Interchangeable C-mount lenses offers great flexibility in focal length and magnification of more than 60X. Adapters are available for DSLR lenses.

Two-IN-ONE
Color and IR in same camera. Color mode in low light environment plus IR mode when there is no ambient light and IR illumination is turned on.

The same scenes shot with the Falcon Eye camera, a consumer type video camera, and a professional Generation III Night Vision camera. See the videos at: www.falconeyecam.com
Falcon Eye KC-1000

Camera Specifications:
- Minimum Subject Illumination: 0.005 lx (F1.4, 1/30, -66 dB)
- Image Sensor: CMOS, 2/3" size, color
- Resolution: 2.1 Megapixels (1080 H) - 1042 V pixels
- Resolution: 2.3 Megapixels (1288 H) - 1032 V pixels
- Filter: RGB primary color filter (Bayer Array)
- Sensitivity: 5700lux
- S/N ratio: Over 50 dB (Gamma = 1, edge enhancement OFF)
- Video noise control: KNoise<sup>TM</sup> - proprietary 2D/3D noise reduction
- Frame rate: 60 fps. Progressive
- CCD Port: C
- Lens mount: C
- Overload response: Rapid for recording with large change in ambient light

Control Unit:
- Video output format: HD-SDI (BNC) x 1, VBS (BNC) x 1
- Sync signal input: External sync input (VBS / bi-level) BNC
- Serial port: Rs-232C (D-Sub 9-pin male)
- LAN: 10Base, 100Base-TX
- IR remote receiver (optional): Front panel, 8-pin, 2 circuit (unsolicited serial port pins)
- Video output format: HDMI
- Video output format: 3G-HDSDI
- Video output format: Composite
- Still photo format: JPEG (2048-1024)
- Fog and smoke elimination: FCogTM - proprietary technology for enhanced visibility in foggy or smoky environments

General Specifications:
- DC Input Voltage: DC12V ± 10%. Power consumption 13W or less
- Oper. temp./humidity range: 0°C - 45°C / 35 - 90%
- Storage temp./humidity range: -20°C - 60°C / 20 - 90%
- Dimensions Camera head: 140(W) x 105(H) x 135(D)mm
- Dimensions Camera control unit: 170(W) x 47(H) x 83(D)mm
- Weight head/cont. unit: 160g / 100g
- Distance camera to control unit: Up to 100m (twisted pair cable) by using repeaters

Other features:
- Quality adjustment: Gain, shutter speed, white balance, HDR, WDR, DNR,etc.
- Gamma correction: Variable 0.35 - 0.55, OFF
- Knee: Fixed / Auto
- White clipping: Variable 100 - 109%
- OFF / AUTO
- DNR: OFF, LOW, MIDDLE, HIGH
- White balance: ATW / AW / MANUAL
- R/B: Variable gain 0-1023
- Black level: Variable -100 - 0 - 100
- Chroma Level: Variable 0-255
- Electronic zoom: 2x
- Image inversion: Upside down, flip horizontal, vertical and horizontal inv.
- Picture freeze: Pause live video
- Scene file: Up to 5 scenes
- Test pattern: Color bars, green scale, cross-line built-in
- OSD: Display operation for message, time, the scene file numbers, etc.

Falcon Eye KC-1100 MKII

Camera Specifications:
- Minimum Subject Illumination: 0.005 lx (F1.4, 1/30, -66 dB)
- Image Sensor: CMOS, 2/3" size, color
- Resolution: 2.6 Megapixels (1070 H) - 1144 V pixels
- Resolution: 2.2 Megapixels (1974 H) - 1100 V pixels
- Filter: RGB primary color filter (Bayer Array)
- Sensitivity: F1 2000lux
- Horizontal definition: Over 900 TV lines
- Spectral Sensitivity: 390-700 nm
- Dynamic Range: 250%
- S/N ratio: Over 50 dB (Gamma = 1, detail mode OFF)
- Video noise control: KNoise<sup>TM</sup> - proprietary 2D/3D noise reduction
- Frame rate: 60 fps. Progressive
- Electronic zoom: x1, x2, x3, x4, x5, x6, x7, x8, x9, x10
- Picture flip: Vertical flip, horizontal flip, vertical & horizontal flip
- Test patterns: Color bars, gray scale, cross-lines available internally
- Privacy mask: 8 masks (GRAY, WHITE, BLACK)
- OSD: Operation menu S/N RATIO OVER 50 DB (-1, edge enhancement OFF)
- Lens mount: CS
- Lens control: 4-pin DC iris control

Picture Quality Control:
- Electronic sensitivity boost: OFF / AUTO (S/N, STD, MOVE) / MANUAL x1, x2, x3, x4, x6, x8, x12, x16, x24, x32, x64
- Electronics shutter: OFF, 1/50, 1/60, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000
- Backlight correction: 9-5 area select
- Gamma correction: 45 / 0.75 / 1
- DNR: OFF, Low, High
- White balance: ATW1 / ATW2 / AW / manual
- WDR mode: OFF / WDR / AUTO KNE / AUTO BLK / STRETCH
- Fog and smoke elimination: FCogTM - proprietary technology for enhanced visibility in foggy or smoky environments
- Color matrix: R/G/B/Ye/Cy/Mg - 6-axis control
- Other: Digital / Chroma / Black Level

Interface Specifications:
- Video output: HD-SDI (BNC) x 1

General Specifications:
- DC Input Voltage: DC12V ± 10%. (ripple 50mVp-p or less)
- Power consumption: 7W
- Oper. temp./humidity range: 0°C - 50°C / 35 - 90%
- Storage temp./humidity range: -20°C - 60°C / 20 - 90%
- Dimensions (excl. protrusions): 78.0(W) x 64.0(H) x 139.0(D) mm
- Weight: 650g
THE COMPANY BEHIND FALCON EYE
Komamura Corporation was established in 1947 and has for more than 60 years been an important player in the international professional camera business. Komamura Corporation developed and marketed the Horseman Professional Camera product range. First for large format film and later new models with world first technology for digital photography. Komamura has now shifted the focus from professional photographic equipment into ultra high sensitivity recording technology, and has amazed the world with the introduction of the new Falcon Eye product range.

The Falcon Eye Camera Lineup

KC-1000
KC-1100 MKII
KC-2000 MKII