STATE OF THE ART ACROSS THE GLOBE
Designed for use in the studio and on location, the UHK-430 provides Ikegami’s superb image quality in true 4K. It features three 2/3-inch 4K (3840x2160) CMOS sensors with RGB prism optics for ‘Real 4K’ resolution from 24 million pixels (8 million per sensor).

Equipped with the new AXII ASIC chip for low power and new processing features, the Ikegami UHK-430 incorporates 16-axis colour correction. The UHK-430 is capable of 40Gbps transmission using standard SMPTE hybrid fibre camera cable with uncompressed 4:4:4 resolution RGB transmission of the 4K video signal, also five HD channels from CCU to camera including multiple-return video and two HD prompter video channels, plus one HD trunk channel from camera to CCU.

Optional CCU modules for simultaneous HD/4K output and VoIP output allow highest flexibility.
READY FOR ULTIMATE CHALLENGES

ROBUST PERFORMANCE EVEN AT EXTREME TEMPERATURES

- 2/3-inch 3 CMOS native 4K sensor
- No colour aliasing thanks to 3 chip technology
- Full colour space RGB 4:4:4 in 4K and HD
- Flexibility with swappable optical blocks
- Focus assist function and 16 axis colour correction for highest precision
- Ultra wide-bandwidth 40Gbps fibre transmission for various signals
- 4K/2K simulcast operation and HD cut out of the 4K picture
- Supports Level A/B, 3G square-division and 3G two-sample interleave
- Various interfaces like Quad 3G-SDI, 12G SDI, VoIP, Gigabit Ethernet Data Trunk
- Supports high dynamic range with various gamma curves
- Separate digital signal processing in the camera head for standalone applications
- Supports wide colour gamut ITU-R BT.2020/BT.709
- Compact, lightweight and user-friendly
EXCEED REALITY WITH EASE

NEWLY DEVELOPED 2/3-INCH
NATIVE 4K CMOS SENSORS

Native CMOS sensors give you Real 4K resolution.

The UHK-430 utilises three newly developed 2/3-inch native CMOS sensors, each capable of capturing native 4K 3840 x 2160 resolution images. It offers an excellent sensitivity of F11 (4K/50p) and F11 (Full HD/50) and a remarkable high signal-to-noise ratio. Unlike single chip sensors or cameras using pixel-offset technology, the native 4K CMOS sensors and prism optics provide real 4K resolution, superior colour reproduction and no colour aliasing.

AXII NEXT-GENERATION
HIGH-SPEED VIDEO PROCESSOR

Ikegami has developed a new processing engine, AXII, for our new generation HD, 4K and 8K format cameras. The ASIC can perform high speed processing of HD, 4K and 8K super-high-resolution video signals in various formats and frame rates. The UHK-430 utilises these new processors that make it possible to deliver high quality, high reliability and low power consumption. The camera is also capable of 16-axis colour correction and an improved focus assist function for 4K and HD modes.

- High speed signal processing, added-value features
- DDR3 configuration (16/32/48/64-bit bus)
- Low power consumption and high reliability
- 16 axes of the colour gamut can be fine tuned in both hue and saturation in real time
- Simultaneous HD/4K output
- HD-cutout from 4K picture
- High dynamic range
- Magnification function
- Picture-in-Picture function

Gamma Profile for High Dynamic Range

The gamma setting is selectable and can be customised to create a specific tone. HLG (Hybrid Log Gamma) is installed and standardised as defined in ITU-R BT.2100. This allows more image information to be retained with greater headroom and colour grading.

Focus Assist function

For easy and fast focusing.
IMPRESSIVE PERFORMANCE

The ergonomic design optimises the location of various parts for ease of operation. It is easy to balance the camera on your shoulder. The compact body and low centre-of-gravity provide perfect balance when shooting on the shoulder. In addition, there is improved visibility over the front of the camera. The improved mobility and superior picture performance support the shooting of convincing footage.

- Compact, lightweight (4.5 kg) and user-friendly camera system
- Improved lens connector position
- Wider adjustment range of the shoulder pad for perfect balance in every situation
- The 2-inch viewfinder can be adjusted in three axes for optimised viewing
- External monitors or video lights can be connected to the camera head

THE UHK-430 has an optical block supporting options such as 35mm 4K sensors or high frame rate sensors. The head can be detached and operated up to 50 metres from the camera body, allowing easy deployment on support devices such as long-reach camera poles.

Unique two piece construction

By improving the mechanical design, the adjustment range of the shoulder pad is increased. This makes shootings more comfortable.

The position of the viewfinder can be adjusted in three directions for optimum viewing. An external monitor can be connected to a separate SDI/BNC connector on the grip handle of the camera.
UNCOMPROMISING

4K ULTRA HIGH DEFINITION
3-CMOS DIGITAL CAMERA SYSTEM

RATINGS / PERFORMANCE UHK-430

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Image Sensor</td>
<td>2/3-inch 3-CMOS native 4K</td>
</tr>
<tr>
<td>Scanning System</td>
<td>3840 x 2160 pixels</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>F11 @ 4K / 50 p, F11 @ HD / 50 i, F10 @ 4K / 60 p, F10 @ HD / 50 i at 2000 lx (White reflection 89.9 %)</td>
</tr>
<tr>
<td>S/N Ratio</td>
<td>Full HD 62 dB (typical)</td>
</tr>
<tr>
<td>Limiting Resolution</td>
<td>2000 TV lines (typical) 4K, 1000 TV lines (typical) HD</td>
</tr>
<tr>
<td>Transmission Rate</td>
<td>40Gbps uncompressed</td>
</tr>
<tr>
<td>Optical Colour Compensation</td>
<td>3200K, 4300K, 6300K, Cross, Option</td>
</tr>
<tr>
<td>Optical ND Filter</td>
<td>Clear, 1/4, 1/8, 1/16, 1/64</td>
</tr>
<tr>
<td>Distance</td>
<td>4km SMPTE hybrid camera cable</td>
</tr>
<tr>
<td>Dimensions / Weight</td>
<td>W 148.5mm x H 243mm x D 340mm, 4.5kg</td>
</tr>
</tbody>
</table>

Dimensions / Weight: W 148.5mm x H 243mm x D 340mm, 4.5kg
The CCU-430 is the 4K control unit for the UHK-430 camera. CCU and camera can be connected by 4km of SMPTE hybrid camera cable carrying full-bandwidth video, audio and control data plus power to the camera, or up to 10km of dark fibre in situations where local power is available for the camera. Smooth and easy migration from HD to 4K production is supported.

**Gigabit Ethernet Trunk**

The built-in network trunk allows data transmission between camera and CCU at up to 1Gbps (1000BASE-T). It makes communication with various IP-based products possible utilizing the camera's transmission system.

**Supports Ethernet camera control**

The system supports Ethernet-based control allowing customers to choose the camera control system based on their needs. Ikegami’s command control protocol is also supported.

**Multi-Video Interface**

- Switchable 4K or HD signal output
- Various interfaces include Quad 3G-SDI Level A/B, 12G SDI, video (100Gbps / 25Gbps), Gigabit Ethernet Data Trunk
- Built-in 4 x 3G-SDI standard 4K output (switchable quad link square division / 2 sample interleave division)
- With option board, 4K, HD and HD cut-out signals from native 4K are available simultaneously

**LEADING TECHNOLOGY**

CCU-430

CONTROL IS EVERYTHING

Ultra-wide-bandwidth 40GBPS fibre transmission

- Ultra-wide-bandwidth fibre transmission
- 4K/2K simulcast operation
- Wide colour gamut and HDR
- Compact, lightweight (approx. 19kg) and user-friendly

**Up to 10 km single mode fibre/ 4 km on SMPTE hybrid fibre cable**

**Multi-Video Interface**

- Switchable 4K or HD signal output
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**Supports Ethernet camera control**

The system supports Ethernet-based control allowing customers to choose the camera control system based on their needs. Ikegami’s command control protocol is also supported.
The SE-U430 enables the use of a large studio viewfinder and studio lenses with the UHK-430, converting the portable camera into a full facility studio camera. Installation of the camera into the SE-U430 is very easy, and conversion back to portable configuration is quick for maximum operating flexibility. The camera can slide back by releasing the lens lock while maintaining the optical axis of the lens and camera. This makes the swapping of large lenses very easy.

**Viewfinders**

- **VFL201D**: 2-inch LCD Colour Viewfinder
  - QHD LCD Panel
  - Resolution: 960 x 540 pixels
  - High-resolution video monitoring
  - High-visibility low-distortion eyepiece
  - Compact, lightweight, low power consumption
  - Picture-in-picture
  - WFM, VSC functions
  - Wide viewing angle
  - Camera menu access

- **VFL701D**: 7-inch LCD Colour Viewfinder
  - Multi-Format QHD OLED Panel
  - Wide viewing angle

- **VFL741D**: 7.4-inch OLED Colour Viewfinder
  - Multi-Format QHD OLED Panel
  - Wide viewing angle

- **VFE741D**: 7.4-inch OLED Colour Viewfinder
  - Multi-Format QHD OLED Panel
  - Wide viewing angle

- **VFC741D**: 7-inch OLED Colour Viewfinder
  - Multi-Format HD LCD Panel
  - Wide viewing angle

- **VFC741D**: 7-inch OLED Colour Viewfinder
  - Multi-Format HD LCD Panel
  - Wide viewing angle

**Full Colour and High Resolution Video Monitoring**

- VFL201D
  - Fast and easy camera mounting in only 3 steps
  - Portable lens also can be attached
  - Improved lens swap mechanism

**Focus on Perfection**

**SE-U430 System Expander**

- The SE-U430 enables the use of a large studio viewfinder and studio lenses with the UHK-430, converting the portable camera into a full facility studio camera. Installation of the camera into the SE-U430 is very easy, and conversion back to portable configuration is quick for maximum operating flexibility. The camera can slide back by releasing the lens lock while maintaining the optical axis of the lens and camera. This makes the swapping of large lenses very easy.

**HQLM-3120W**

- 31.1-inch 4K UHD LCD Broadcast Monitor
  - 10-bit LED backlight UHD LCD panel with a contrast ratio of 1450:1
  - 4K inputs with 12G-SDI, 3G/HD-SDI and HDMI inputs
  - ASP-100 Auto set-up probe can easily adjust and maintain the accurate colour reproduction
  - 10 cameras per level x 10 levels can be controlled simultaneously

**OCP-300**

- Ethernet/RJ45/ICCP Multi-Network control system
  - Multicam operation like a master control panel (optional)
  - Touch screen LCD panel interface
  - POE+ support (requires POE+ HUB)
  - Can also be set for conventional individual camera control

**MCP-300**

- Ethernet/RJ45/ICCP Multi-Network control system
  - Large touch screen LCD
  - Illuminated control panel
  - User-customisable functions
  - Character output function (option)
  - POE+ support
  - 10 cameras per level x 10 levels can be controlled simultaneously

**GCP-300**

- Ethernet/RJ45/ICCP Multi-Network control system
  - Multicam operation like a master control panel (optional)
  - Touch screen LCD panel interface
  - POE+ support (requires POE+ HUB)
  - Can also be set for conventional individual camera control