



CERBERUS

— CAMERA SYSTEM —



The camera system that adapts to your needs.

Introducing the *Cerberus* camera system, *LMP Lux Media Plan* continues the everlasting reinvention of the worlds smallest true HD camera systems.

Based on the successful *HD1200* camera system, the modular *Cerberus* system combines 2/3" sensors using the identical processing hardware, making the camera heads interchangeable. Focussing on the individual advantages of different sensor types, the *Cerberus* system adapts to your needs with ground-breaking performance in every field. Experience the familiar workflow deduced with exceptional new features.

LMP
Lux Media Plan
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CMOS

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|----------------------|--|
| Image Sensor | 2/3" CMOS (<i>viimagic 9226</i>) with Global Shutter 2112x1124 total pixel, 16 : 9 |
| Readout | 1920x1080 @ 60 frames/s |
| Dynamic Range | linear mode: 60 dB hdr mode: up to 120 dB |
| Sensitivity | F 11/2000 lx at nominal gain |
| S/N Ratio | 58 dB (Y) at nominal gain |
| Frame Rates | |
| 1080p/720p | 23,98/24/25/29,96/30/50/59,94/60 |



HD1200

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|----------------------|---|
| Image Sensor | 2/3" CMOS (<i>viimagic 9215</i>) with Rolling Shutter 2048x1148 total pixel, 16 : 9 |
| Readout | 1920x1080 @ 60/120 frames/s |
| Dynamic Range | linear mode: 60 dB hdr mode: up to 120 dB |
| Sensitivity | F 11/2000 lx at nominal gain |
| S/N Ratio | 56 dB (Y) at nominal gain |
| Frame Rates | |
| 1080p/720p | 23,98/24/25/29,96/30/50/59,94/60 |
| 1080p/720p | <i>with optional HFR upgrade</i> 100/119,88/120 |

What they share

Although each of the camera heads inhabits several individual features, the successful signal processing algorithms of our well introduced *HD1200* camera system form the fundamental basis of the *Cerberus* camera system. Combining an outstanding number of simultaneous live outputs, such as RAW, HDSDI and analog component, with the familiar camera control workflow, the *Cerberus* system perfectly adapts to your specific needs.

physically

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|-------------------|--|
| Dimensions | camera head: 38x44x48 mm CCU: 140x120x30 mm |
| Weight | camera head: 140g light version: 80g CCU: 420g light version: 310g |
| Lens Mount | C-Mount with adjustable back-focus, adaptors for Canon, Nikon, Arri PL, Sony B4 |
| Power | 8-15V DC, 15Watt |

technically

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|---|--|
| Format | 16 : 9 |
| Image direction | horizontal/vertical flip without latency |
| Output Signals | HDSDI up to 3Gbit/s, HDSDI interlaced, HFR (100/120fps) in Dual link EVS-Format or Dual link 3G progressive SDI, CVBS, analog component, HDSDI RAW Data in 12/10 bit WeissCam or Cinema DNG, HDMI (1x Mini-HDMI) |
| HDMI Out | camera picture in selected output format |
| Cable length | up to 50m with single coax cable (4mm Belden 1865A) |
| data format between Head & CCU | LMP Multiplex containing: Power 12V DC 2,7Gbit Sensor Data bi-directional RS232 |
| Genlock | tri-level sync / black burst horizontal delay: +/- 2 lines in steps of 1 pixel HDSDI pixel by pixel in 3D mode |

control-wise

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|---------------------------|---|
| White Balance | automatic or manual YRGB preset 3200°/5600°/7200° |
| Gamma | manual YRGB |
| Black Balance | manual YRGB |
| Saturation | 0 to 120 %, nominal 75% |
| Gain | 0dB, +3dB, +6dB, +12dB |
| Color Matrix | 4 presets / 2 user defined |
| Detail | separate horizontal and vertical detail |
| Shutter | 5 steps up to 1/1000 auto shutter with adjustable exposure |
| Test signals | 8 HD test patterns |
| SD Format | according to HD format |
| Iris control | speed and direction |
| Focus control | speed and direction |
| Serial control | duplex / simplex RS 485 duplex / simplex RS 232 at 9600 Baud USB 2.0 / TTL 921600 Baud |
| Remote Control | hardware remote panel Windows GUI |
| System calibration | automatic black/shading/ FPN correction |
| 3D Controls | mix- / multiplexing between camera and HDSDI genlock |
| Presets | 4 presets of main controls |
| HFR output | dual-link HDSDI or 3G in EVS conform format |

CERBERUS ELEMENTS

Several additional *Elements* are available to completely customize your *Cerberus* camera system. The motorized lens drive, the hardware remote control and the fully motorized 3D rig perfectly align with the high standards of the *Cerberus* system. Also *Cerberus Fiber*, the optional HFR Upgrade, the underwater case and many other *Elements* integrate into the worlds most versatile camera system. Discover all of the *Elements* on www.crbrs.de.



CCU



CONTROL



FIBER



DRIVE



LENS (115°/180°)

AQUA



LMP – Lux Media Plan – is a leading supplier of innovative serial digital solutions. Since 1986, the German-based company has been developing standardized and custom-made applications for notable clients in Europe, the United States, Asia and the Middle East.

Over 30 years of experience in motion picture production have rendered LMP a most insightful and versatile partner for sophisticated TV, video and audio productions. LMP's high-quality solutions meet the individual requirements of a broad spectrum of clients including broadcasting corporations, film and TV productions, R&D departments of universities and companies active in medicine, aviation or security. The range of products comprises customized devices as well as proprietary developments and single items manufactured to specification.

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