



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 three 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



Image Sensor	2/3" CMOS (viimagic 9226) with Global Shutter 2112x1124 total pixel, 16 : 9
Readout	1920x1080 @ 120 frames/s or 2048x1080 @ 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	57 dB (Y) at nominal gain
Frame Rates	<i>in DDS mode</i> 1080p/720p 23,98/24/25/29,96/30/48/59,94/60/120 <i>in CDS mode</i> 1080p/720p up to 240

HD1200



Image Sensor	2/3" CMOS (viimagic 9215) with Rolling Shutter 2048x1148 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	56 dB (Y) at nominal gain
Frame Rates	<i>in DDS mode</i> 1080p/720p 23,98/24/25/29,96/30 <i>in CDS mode</i> 1080p/720p 48/59,94/60

CCD



Image Sensor	2/3" CCD (Truesense KA02150) with Global Shutter 2004x1144 total pixel, 16 : 9
Readout	1920x1080 @ 60 frames/sec
Dynamic Range	64 dB
Sensitivity	F 8/2000 lx at nominal gain
S/N Ratio	56 dB (Y) at nominal gain
Frame Rates	1080p/720p 23,98/24/25/29,96/30/48/59,94/60

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

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

technically

Format	16 : 9
Image direction	horizontal/vertical flip without latency
Output Signals	HDSDI interlaced (2x BNC) HDSDI Dual Link progressive, SDI, CVBS, analog component or Y/B-Y/R-Y interlaced, HDSDI RAW Data in 12/10 bit WeissCam or Cineform DFX HDMI (1x Mini-HDMI)
HDMI Out	camera picture in output format, or multiplexed line-by-line with second camera in 3D mode
Cable length	up to 40m with single coax cable (4mm Belden 1865A)
data format <small>between Head & CCU</small>	LMP Multiplex containing Power 12V DC / 2,7Gbit Sensor Data / bi-directional RS232
Genlock	tri-level sync +/- 2 lines in steps of 1 pixel HDSDI pixel by pixel in 3D mode

control-wise

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 framerate
Iris control	speed and direction
Focus control	speed and direction
Serial control	duplex / simplex RS 485 duplex / simplex RS 232 USB 2.0 / TTL 1 MBaud
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

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.



3D RIG

CONTROL

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.

LMP
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Platter Straße 168a
D-65193 Wiesbaden
Germany

www.luxmediaplan.de
www.crbrs.de

info@luxmediaplan.de
Tel: +49 611 531779 0