



Arri D21 digital film-style camera



Cinec 2008 award winner Vantage for HAWK lens V-Lite series



JL Fisher with cinec 2008 award winning articulated skater wheels

Trendsetting technology for creative cinematography

For the seventh time, Cinec, the internationally renowned film equipment event opened its doors from this September at the Munich MOC, to showcase the latest innovations in film and digital cameras, 3D kit, lens, grip and lighting development as well as post production technologies, writes Annette Zoeh.

Thanks to the skills of the Cinec organizers Albrecht GmbH, this year's exhibition again successfully combined a must-attend trade fair with a high-level ancillary programme. In answer to the industry's constantly changing and ever more sophisticated demands, the three three-day event provided not only demonstrations of new products such as the Arriflex 416 Plus HS and D21 cameras, the new Hawk Anamorphics V-Lite series lenses, but also seminars with in-depth information on data storage and archiving.

Further speeches and panel discussions included debates on digital cinematography, digital projection, workflows in postproduction, new lighting tools for digital high-speed photography, and 3D technologies. This year was bigger than ever - covering two exhibition halls of 6,250m², with 157 international and domestic exhibitors, a special dedicated area for UK companies including EF Moy, Lee Filters and Ronford-Baker - attracting visitors from 58 countries.

New market trends include the increase of anamorphic filming, combined with the demand for lighter filming equipment and fewer, but bigger lights, as DP John Fauer ASC, predicted in the show's opening speech. During a highly informative slideshow, he reflected on the development of lighting scenes and filming, from past to present, and forecast

two major topics for the future: the essence of data storage and challenge of data recovery. With an expanding stereoscopic market and an increased number of 3D ready screens, well-known equipment manufacturers demonstrated further innovations for 3D. In addition, the Camerimage Film Festival presented the "City of Lodz" project, which will see Poland's second largest city become even more film-oriented than ever.

In cooperation with the German Fraunhofer Institute for Integrated Circuits, CinePostproduction, Audio Video Technologies, Iridas, Digital Media Systems and the Institute for Broadcast IRTs' special project "tools for media production" offered another opportunity during the show to gain insight and knowledge about cross-media format standards and technology workflows.

Camera technology

In the field of film camera technology, ARRI demonstrated stunning products such as the quiet, bright and light ARRIflex 416 PLUS camera. Highlight features of this beautifully, ergonomically designed film camera include high-speed for slow-motion effects with built-in accessory electronics, its lightweight of 5.8 kg, low sound level of less than 20db(A), in HS version 29db(A), improved image quality of the video assist and adjustable image enhancement.

With the launch of the ARRIflex D 21 M-Scope, ARRI won Cinec 2008's award in camera technology. A detailed introduction, with a showreel on the D21 and details of the English production Love Hate provided an in-depth look at the new camera details. The D 21 employs a 54mm PL lens

mount, an optical reflex viewfinder and spinning, electronically adjustable reflex mirror shutter. Mscope allows the use of any 35mm anamorphic lens and records the images on an HD recorder, such as the HDCAM SR SRW-1. The D 21 Mscope is available in HD or data mode (ARRIRaw). Frame rates are 10-60fps in HD 4:2:2 Mode (16:9), 10 to 30fps in HD4:4:4. In Mscope HD 4:2:2 the rates are 1-25 fps, in data mode (ARRIRAW, 16:9) 1-30 fps, or (ARRIRAW, 4:3) 1-25 fps.

Further highlights from ARRI included included the upgraded of Moviecam SL Mark 2 film camera, with a new viewfinder and electronics and 3-perf movement. A further cool tool was ARRI's WCU-3 with back lighted TFT display; a new wireless compact unit that provides] remote control for camera, focus and iris. New intelligent accessories include the wireless zoom extension, the WZE-3, and the universal motor controller UMC-3A.

P&S Technik's innovative and outstanding product range included the Weisscam HS-2 for high speed shooting, the SI-2K digital cinema camera system with touchscreen interface, monitor and electronical/optical viewfinder. Further demonstrated highlights were a 3D stereo rig and steady frame universal scanner, together with MINI 35 image converters and clever filmlook adapter PRO 35, the latter being awarded a social award by the British Guild of TV Cameramen, GTC, this October. Also shown was the Emmy Engineering Award-winning Skater product family.

Lighting

The perfect tool for film, video and still photography that won this year's Cinec 2008 award was introduced by Rosco. The

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Happy winners, the boys from Vantage collect their Cinec 2008 award



Making light work: Peter Daffarn (L) MD of Photon Beard with Mike Perry, has just sold 200 fluorescent softlights, via Strand Lighting, to Phoenix TV in Hong Kong.



Hands on: Jeff Lawrence, MD of Ronford Baker, with the new Atlas 7 head, developed with financial assistance from the East of England development agency.

Rosco Litepad HO (high output) is a slim and economical light source that generates almost no heat. Operating temperature is -30C to +85C with a lamp duration of 100,000 hours, colour temperature of 6,000°Kelvin.

Beside Arri's True Blue lamphead range and the awesome ARRImax, a new dynamic background LED illumination that won another of this year's Cinec award was the company's LED Pack Shot Kit. This modular softlight LED panel, with light control functions and film-appropriate colour rendition, has a detachable backpack battery, plus soft and spot optics.

Innovative and must-have in the field is Bebob's Cinec award-winning Lux LED camera Light, offering maximum light output with constant brightness and reduced energy consumption. The pole-operated tungsten light head DLH650PO is supplied by Dedo Weigert, along with the softlight DLH1x150S.

FinnLight introduced the softer, faster, less power-consuming toplight, called the "space" light. For quick set-ups like news coverage, K 5600 lighting offered the Joker-bug series 200/400/800, the Joker news range 200/400, together with Joker video 200 and bug video 200/400. Mole Richardson demonstrated its luminaire type 6741 5,000W tungsten par and new type 6751 12K tungsten par, including unique features such as interchangeable lenses to vary beam spread from narrow to super wide, 240V operation for higher efficiency and lower connector temperatures.

A patented highlight tool with a three-dimensional dismountable framework aluminium system was shown by California Sunbounce. Capacity and speed marked the MA Lighting product line, with grandMA multi-user and grandMA. Other exhibitors such as Licht-Technik, Bogen Imaging, Barbizon and DeSisti also showed their ranges of lighting equipment.

Optics

Outstanding optical image quality was shown in the form of the Arri / Zeiss Lightweight Zoom LWZ-1, that has a zoom range of 15.5 to 45mm, T2.6. Its light, yet compact form makes it ideal for Steadicam and handheld shooting. It also features the T* XP anti-reflex coating that ensures a sharp, high resolution image. Two further new lenses complete the high speed MP lens range: the 14 mm and 150mm T1.3 master primes.

New HAWK anamorphic lens series was introduced by Vantage who celebrated their 15th anniversary. The new HAWK V-Lite series and V-Lite anamorphics 1.3x squeeze received this year's Cinec award in the lens category. The HAWK V-Lite series for analog and digital includes focal lengths from 28mm, 35mm, 45mm, 55mm, 80mm at T2.2 and 110mm at T3, a new PL mount and focus scale. The 1.3x squeeze factor allows use of the entire sensor area of a 16:9 digital camera to achieve widescreen 1:2.40 release format. Furthermore, the new set of lenses allow shooting with 4:3 negative/sensor area and stretch it to 1:78 for 16:9 HDTV; with the D21, the full sensor can be used for 16:9 shooting.

Further optical highlights were shown at IB/E optics, with Bavarian developer Wolfgang Weigel demonstrating the HD scope designed for 2/3" Hi-Def. Video. With its fast 4.0 T-stop, the HD scope surpasses past Borescope/snorkel lens systems. Also shown were an HD 1:1.8/6mm high resolution lens, for use on high-end single chip 2K 16mm HD cameras w/c-mount, and the HD 1.8/14mm high speed lens which has been beautifully designed with the new striking feature of a telecentric ray path on the image side.

New ergonomically designed director's viewfinder with -4 to +4 and OIC16 for -5 to +5 came from Denz, and Fujinon showed its c-and e- series cine lenses. Cooke's latest achievement is the new Cooke Red Set comprising four red-engraved PL-mounted S4/I lenses in focal lengths of 50, 75, 100mm and the 15-40mm CXX zoom.

Unique and another Cinec award-winning highlight was the RoscoView system. It comprises two components: the RoscoVIEW film for the window and RoscoVIEW filter for the camera.

The system allows instant control of 100% of exterior brightness. Lee Filters introduced beautiful new colours from bram brown to

dirty ice, and perfect lavender to AS golden amber. The new colours were created by renowned Danish lighting designer Peter Fisker and international theatre and stage designer Paule Constable.

Grip, rig and dolly

25 years of dolly technology mark Panther's worldwide success. The company demonstrated a comfortable handgrip operation for its remote head system. Another success is the internationally renowned Sachtler which looked back on 50 years of company history, and showed its modular tripod system Soom, FSB fluid heads and FSB Cell with 7.2 V for mini DV and HDV cameras, and the new combi Ped 1-40, a controllable, portable lightweight pedestal. Available is a carbon-upgrade for Artemis ACT2 springarm and artemis ACT2 vest.

Speedy, Olympic proven and a Cinec 2008 award winner was trackrunner ENT by RTS Rail & Track systems that runs at a max. speed of 4.5m/s, with hanging & sitting option, a cable management system and lengths of 40m plus. Stunning yet another Cinec award winning product were the fully articulated, friction free skateboard wheels by J.L.Fisher. They allow mounting on standard 24.5 inch tracks and all 32 wheels maintain contact with the track for improved control and stability.

Matthews showed its versatile Red Dolly, whose design allows positioning of each wheel in any of eight different positions for tight 360° repeatable full circles (crabbing) and quick dolly reverse shots. The Grip Factory Munich came along with the GF-Quad dolly that has three quick-change operating modes and a new switch lever. Highlights at Movietech were the Movie-Jib with variable extension range, counterweights for balancing and self-lock crank mechanism, the sprinter dolly lift extension with electronically controlled lifting mechanism, new remote head concept w/3 axis, G-force vest specially for small sizes, and the Pelé remote head with new operating features.

Ronford-Baker technology products are known for their high-quality engineering and reliability, typified by the Ronford-Baker CNC-machined, high-tensile aluminium Slider that features soft stop adjustable buffers, 360° lockable rotation and Tritium spirit level, available in 7 different sizes. The "Supazuuka" billet bazooka provides stable build platform, modular design and high payload capacity.



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The Atlas is a completely new design head with patented counterbalance system, available as a Balanced fluid head for camera packages up to 50kg, or Atlas 30 Balanced Fluid head for packages up to 30 kg. Smart accessories, such as the ULB-3 ULB-1 and PAP-3 Panasonic and Sony adaptor plates complete the product range.

Even more versatile tools could be spotted at MO-SYS with the Lambda system, in association with Cartoni. The remote and motion control head for large camera packages includes features such as high resolution drive for smooth operation, quick and easy plug and play set-up, touchscreen control and 360 ° tilt with additional roll axis module and gyro stabilisation. Other innovative products were the MK-V flagship revolution system for steadicam, the MK-V Nexus system and MK-V evolution base; Cineparts' nodal camera head; Mark Roberts Motion Control Ulti-Head and modular motion control rig. MAT Presented the telescopic jib and Super Scorpio crane, Alpha Grip introduced its versatile and time efficient A-jib. More accessories were provided by Chrosziel with clamp-on matte

boxes the CMB-R10 and CMB-R20, and the new family of full size matte boxes - the MB450-R2, MB450-R3, MB450-R2DSW and MB450-R3DSW.

Film stock, video, sync & sound and power

Kodak focussed in its Vision3 500T colour negative film 5129/7219. Durability and safety were the major points for AVC products, as demonstrated with its battery belts, big and multi packs and AVC's on board batteries. Silent power supplies were offered by Cineparts. Among the product array of sound sync modules, Ambient Recording showcased Clockit and ACL 203 HD lockit together with the Quickpole series QX light and OP standard.

With its cdisplay II, Austrian developers Cmotion received this year's Cinec award. The display functions include: bigger screen (4.3"), internal antenna, live video image direct on TFT screen, "overlay" lens and camera data display on video image, video and lens data storing and replay functions and image shifting by 90 °.



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Steve Smith or Euan Maddrell
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Licht-Technik



Innovation and constant product development are the hallmarks of the product range from lighting designer and gaffer Uwe Hagenbach (R) and Bernhard Grill's Licht Technik.

The company provides rental and field services of lighting gear for a wide range film and TV productions, exhibitions and events, as well as being the successful manufacturer of a range of products including colour changers, dimmer shutters, motorised yokes, and the well-known Plan-O-Light, Bag-O-Light and Click & Move Systems.

The business started in 1983 in Munich supplying lighting gear to film, TV, opera and theatre facilities. Today, the successful enterprise, which is still run by company owners Hagenbach and Grill, who are also members of the Cinec committee, continues to provide equipment for events, major feature films and commercials. Their recent credits include *Les Miserables*, *Smilla* and *The House of Spirits*, 3D stereo films for T-Com, Bosch, Spacepark Bremen and car commercials for BMW, Alfa, Bugatti and Mercedes.

The company's list of Cinec awards demonstrate Licht-Technik's continual success: the 1996 Cinec Award for the modular motorized yoke system; a 2000 Cinec Award for its patented Bag-o-Light, Air 2000; a 2004 Cinec Award for the LT-Pilot wireless control; and a 2006 Cinec Award for the LT Click & Move System. At this year's show, Licht-Technik showed the PS50-04 power supply, a cost-effective iris dimmer technology in the form of the Shutter BladeFader and BlackBeam products, and a new version of wireless LT pilot, which is splashproof and more lightweight.