

PHASE ONE

TECHNICAL CAMERA BUNDLE SOLUTIONS



ARCA-SWISS

The joy of use

The evolution of Phase One to our world-leading market position has been achieved by primarily focusing upon building the best tools and software. Our leadership position provides us with the unique opportunity of growing and promoting our segment of the photo community. Our goal with this and future collaborative projects is to promote well-designed photographic equipment matching the quality of our own products for the professional photographer.

Technical Camera Bundles

ARCA-SWISS

The joy of use

ARCA-SWISS has continued to develop and patent technology for technical cameras beyond the competition. The result for the serious craft level photographer is a unique product with the highest level of user experience.

The combination of Phase One P+ backs and the ARCA-SWISS M – Monolith 6x9 create a solution dedicated to capture and the subject over the technology. Simplicity of operation and stability of image location through extreme yaw correction allows for instant adjustments in focus without losing the image position. For the technical camera user, the experience is pure pleasure. Once the ARCA-SWISS workflow is experienced, it's hard to use anything else in the studio.

Although a number of manufacturers offer pitch and yaw corrected solutions, the effect is only possible through a limited range of movements. ARCA-SWISS has totally eliminated yaw with the M – Monolith 6x9 — a significant technical achievement.



History

ARCA is an acronym made from letters in the words All-Round-CAMeras. This was combined with SWISS referring to Switzerland the home country and the name ARCA-SWISS was born. Manufacturing started in the early 1950's rapidly gaining a reputation for precision designs that were simple to use. In 1984 Philippe Vogt took over ARCA-SWISS marking a complete redesign of the line with the introduction of numerous new patents and products.

In 1987, the introduction of the ARCA-SWISS M – monolith set a new standard in yaw free operation with triaxial yaw-free for technical cameras. Up until this introduction, all existing technical cameras offered limited yaw free movements. The ARCA-SWISS triaxial yaw-free operation offers 100% yaw corrected movements, a superior advantage with Phase One digital backs, especially using live preview.

There is a disturbing lack of understanding for technical cameras today. The correct choice increases speed, ease of use and creative potential for the image. Too many photographers use medium format or DSLR solutions because they do not understand.

Yaw free operation – orbix®

The triaxial orbix® movement is the key technical value of the ARCA-SWISS M – monolith 6x9 over competitive solutions. Understanding the concept of yaw is the basis of understanding orbix® and explaining it to others.

Yaw Definition

Yaw is created when a tilt and swing is applied to a technical camera and the standard tilts sideways. When the format frames are measured to each other, no two points are parallel. The impact on capture is serious and time consuming to correct.

You cannot focus where you want without compromising and you have to constantly adjust the framing to see the result. As movements are made, the image shifts so much that in many cases the image framing is completely lost. With no two points parallel on the format frames, more depth of field is required to capture sought sharpness.

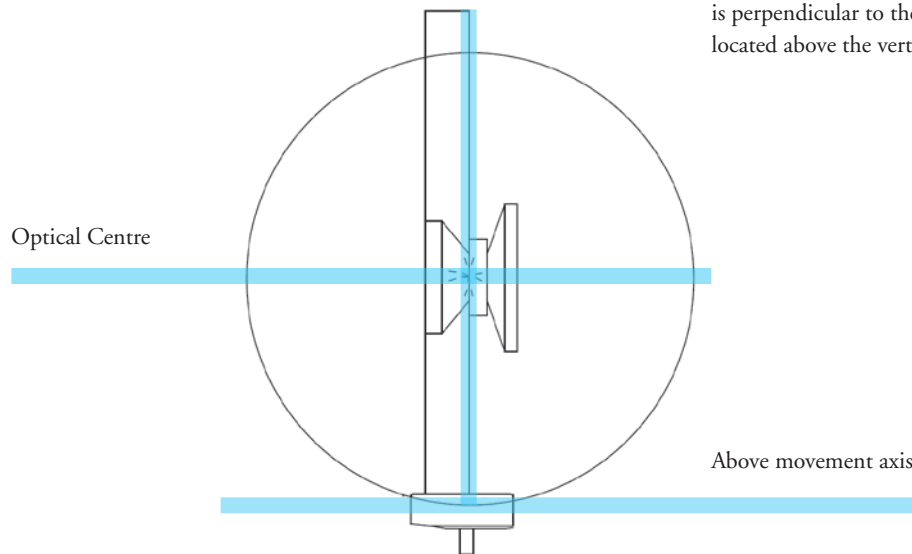
Time lost for the studio photographer is from hours per shot to days. For photographers who shoot to a layout, the complications are disastrous. A lot of time is spent setting up for a layout creating extreme stress when the framing is lost with each movement correction. Many photographers who lack the correct tools will shoot with a medium format camera and completely compromise the potential of the image just to avoid dealing with yaw.



The ARCA-SWISS orbix® solution

Definition of orbix® movements:

the optics move at the centre of a circle which is perpendicular to the base of the frame and is located above the vertical movement axis.



This is one of the best cases for using the right tool for the job. Although the technical explanation seems complicated, the practical aspects are fantastic.

Once framing has been set to a layout or the requirements of the image, movements can be applied involving both tilt and swing. The adjustments do not shift the image on the ground glass or capture chip, making adjustments really easy to see. In fact, using Phase One's live preview function, as you make corrections, you see the affect of the focus change live. No refocusing, finding the original framing or fiddling with additional corrections required.

Time saved and the effect on creative control is extreme. Five to ten variations on focus and depth of field can be created in a matter of minutes. An Art Director at a shoot can have the variations to select from in minutes instead of hours or days. This leads to shooting more jobs in less time.

For wide angle lenses, the orbix® design increases the amount of movement available creating images not achievable with other systems.

The point of a proper technical camera solution is to make the shoot easier, faster, better and more fun for the photographer.



Self-locking controls – more accurate

Using engineered fine gear mechanisms and complimentary materials, the movement controls require no separate locks. This saves time and increases accuracy due to the fact that locks rarely work without slightly changing the chosen setting. Although seemingly minor, in the course of hundreds of adjustments in any give day, the impact becomes great.

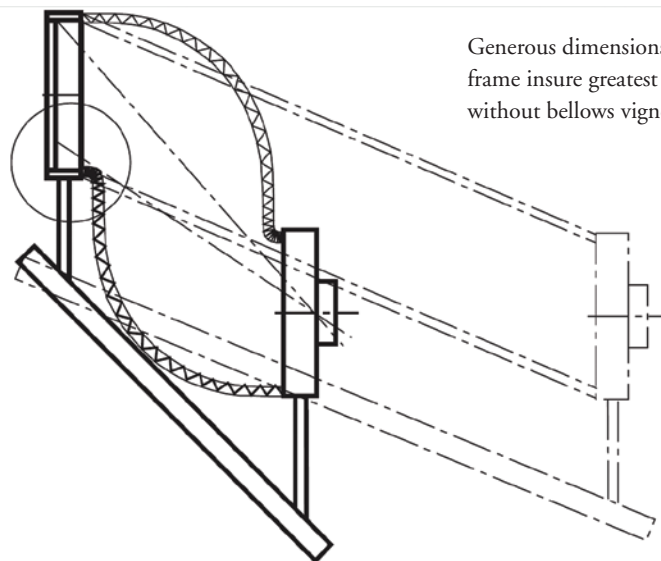
Self-locking format frames



Positive lock system insures clear connection with format frames.

Attaching bellows, lensboards or digital back plates is simple and easy with the self-locking format frames. A positive click is heard confirming that the connection is secure. In most cases, one hand can be used.

Unobstructed optical path – no compromise to optics



Generous dimensions for bellows and format frame insure greatest range of movement without bellows vignetting.

Careful engineering and the generous dimensions of the M – monolith 6x9 bellows and format frames insures that light passes without restriction from lens to digital capture. The ARCA-SWISS design takes advantage of digital optic designs featuring more coverage compared to equivalent film optics. The removal of bellows vignetting increases image contrast and saturation.



Understanding the bundle components



RotaSlide Sliding back



The ARCA-SWISS RotaSlide sliding back is designed to have a ground glass on the left side (included in bundle) and the Phase One back attached on the right side. Focus planes are kept to a tolerance of within 1/100th of a millimeter. To change the orientation of images with a rectangular sensor, just rotate the plates. There is no need to remove the back. The RotaSlide uses a small notched control on the right side to choose stitching positions. The different positions correspond to the different sensor sizes.

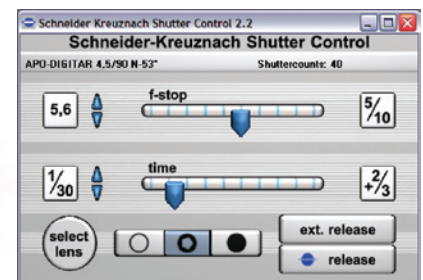


Mechanical shutter system



The choice of mechanical shutter system will also include the Kapture Group single shot cable release. This system requires that you manually cock the shutter, set aperture and shutter speed and open or close the shutter to focus or shoot. Note that matching lenses must be selected that are labelled mechanical.

Electronic shutter system



All components for the electronic shutter system are included in the ARCA-SWISS M – monolith electronic bundle except lenses. Components includes the ES shutter control, USB interface box with cables and software for Mac or PC. This way the photographer can use either the stand alone external Shutter Control ES or run the shutter from the computer alongside Capture One. Note that matching lenses must be selected that are labelled electronic.



Lens focal length options and required accessories



Choose one, two or three lenses to create a bundle. Focal lengths offered are as follows:

- 47mm Schneider Kreuznach Apo Digitar *f*/5,6
- 72mm Schneider Kreuznach Apo Digitar *f*/5,6
- 120mm Macro Schneider Kreuznach Apo Digitar *f*/5,6

If the 47mm wide-angle lens is selected in either mechanical or electronic versions, please add the super wide-angle bellows to insure a full range of movements.

ARCA-SWISS C1 Cube



The C1 Cube main components begin as a single block of metal. Elements are machined with all possible excess metal removed for a final weight of only 998 grams. Over 10 years of research and engineering has gone into the development of the C1 Cube. It is possible that the development costs of the C1 Cube will never be recovered, however, the impact on the user is immeasurable. The C1 Cube is a real tribute to the arts of engineering and manufacturing as practiced by Arca Swiss.

The C1 represents a technological breakthrough in manufacturing, engineering and operation. The C1 maintains the optical circle of the lens as discussed in the orbix® description. Camera head adjustments hardly change the image framing making these types of adjustments quick and easy. Normally, a change at the head position means starting from the beginning. In addition, there is a base panorama and a camera plane panorama adjustment allowing for panning of the camera in the camera plane. For those who love shooting with studio technical cameras, the experience is unparalleled. This is a must have accessory for the M – monolith solution and in itself is a piece of art.



Bundle offer

Ordering procedure and components

Please Note:

- ARCA-SWISS M – Monolith 6x9 bundles are only available with P 25+ and P 45+ backs (full 3 lens kit at special price).
- Bundles must include a camera kit with one, two or three lenses with matching shutter.

Ordering a package

To make the sales and ordering simple, please use the following procedure:

1. Choose the electronic or mechanical camera bundle using the required back adapter code
 - Hasselblad H, Hasselblad V, Mamiya 645 AF, Contax 645
2. Choose one, two or three lenses in matching shutter systems
3. Choose the wide angle bellows if the 47mm lens is selected.
4. Choose optional C1 Cube camera head
 - Although optional, the ARCA-SWISS C1 Cube camera head is a requirement to achieve the best experience.

The new Phase One technical camera bundle solutions feature both standard copal shutter and Schneider Electronic shutter (computer controlled) lens options. Therefore two base camera kits are offered. These kits are supplied as listed and cannot be split.

The base camera kit for mechanical shutter use includes:

- M – Monolith 6x9 front and back standards with format frames
- Wide angle bellows (If 47mm w/a lens is chosen)
- Regular bellows
- Split rail with sliding base
- Rotaslide adapter back
- Ground glass assembly
- Phase One Wake-up cable

The base camera kit for electronic shutter use includes:

- M – Monolith 6x9 front and back standards with format frames
- Wide angle bellows (If 47mm w/a lens is chosen)
- Regular bellows
- Split rail with sliding base
- Rotaslide adapter back
- Ground glass assembly
- Schneider Stand alone Lens control ES
- Schneider USB interface control box with cables
- Schneider shutter control software Mac and PC



Camera and Lens Type Chart, Availability & Warranty

Please note that the ARCA-SWISS bundles must include a P 25+ or P 45+ order.

CAMERA AND LENS TYPE:	H	V	M	C
ARCA-SWISS M - Monolith 6 x 9 System for Mechanical Shutter	7 0670 001	7 0671 001	7 0672 001	7 0673 001
Copal shutter w. Schneider Kreuznach Apo Digital 5,6/47 - 47mm	7 0680 001			
Copal shutter w. Schneider Kreuznach Apo Digital 5,6/72 -72mm	7 0681 001			
Copal shutter w. Schneider Kreuznach Apo Digital 5,6/120m -120mm	7 0682 001			
Super Wide angle bellows (Leather) Required for 47 mm and below	7 0690 001			
ARCA-SWISS C1 Cube (Tripod head exclusive - incl. leather bag)	7 0692 001			
ARCA-SWISS M - Monolith 6 x 9 System Base for Electronic Shutter	7 0674 001	7 0675 001	7 0676 001	7 0677 001
Electronic shutter w. Schneider Kreuznach Apo Digital 5,6/47 - 47mm	7 0685 001			
Electronic shutter w. Schneider Kreuznach Apo Digital 5,6/72 -72mm	7 0686 001			
Electronic shutter w. Schneider Kreuznach Apo Digital 5,6/120m -120mm	7 0687 001			
Super Wide angle bellows (Leather) Required for 47 mm and below	7 0690 001			
ARCA-SWISS C1 Cube (Tripod head exclusive - incl. leather bag)	7 0692 001			

Availability

ARCA-SWISS mechanical copal shutter systems are available for delivery mid March,

Electronic shutter systems will be available for delivery by end of March.

A limited number of systems have been purchased to stock – orders will be handled on a first-in, first-out basis.

Warranty, support and service from Phase One

Phase One will warranty and support the system for one year from purchase day, after that service and support can be arranged through the ARCA-SWISS and Schneider distributors in each country or region.

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