

# Instructions for the Adhesive Assembly of the QRB and PRP

## Glued Joints for FLM Centerball

The stud screw, which is supplied with the Centerball, can be screwed into the ball in two ways. With the 1/4" threads on the top, the single plate can be screwed on so that the projecting 1/4" threads can be used for the camera connection. However, for the setup of special camera plates, the 3/8" threads must point upwards and in this case the 1/4" threads of the stud screw disappear in the ball.

**In order to prevent damage to the bottom threads of the camera, you must pay particular attention to the length of the threads, which projects outwards.**



Picture 1



Picture 2



Picture 3



Picture 4

To connect the **Quick-Release Basis** (picture 3) or the **Power-Release Basis** (picture 2) firmly and in a manner, which will not allow it to rotate, with the Centerball, the stud screw is glued to the basis and CenterBall. Please use the metal adhesive with thermal stability up to about 100° C to allow later changing of your basis. We recommend UHU plus ultimate strength 300 (UHU plus endfest 300).

Apply the glue to the end of the 3/8" threads about three thread turns all around (no glue on the screw head, see picture 1) and screw this screw end in up to the stop in the Power-Release Basis. However, for the Quick-Release Basis, the screw must not be allowed to project out of the basis plate (picture 3).

After hardening (see instructions for use of your glue), the basis is glued to the CenterBall in the same way (picture 4). You can replace your old basis plate later by completely immersing the basis plate—**BUT ONLY THE BASIS PLATE**—in hot boiling water. This softens the metal adhesive and the plate can be taken off easily.

**Protect your hand against burns when doing this.**

**Please keep care that no sand and saltwater attained inside of the ballhead.**

## Warranty

**We provide a 10 year warranty for material and workmanship for all FLM products.**



**Now, we hope you have lots of fun and enjoy the fast and secure mounting of your camera.**

# MANUAL



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# Operating and Care Instructions

Before you mount your camera, please read these instructions for use carefully!

## Adjusting the FLM Centerball

All knobs are protected against being completely removed by screwing them out. Only unscrew screws until you feel resistance. Please always allow your tripod head time to adjust to the surrounding temperature. Moisture or condensation water can temporarily impair the velvety soft movement of the ball.



First rotate the stop ring counterclockwise and then the adjusting knob counterclockwise to the outmost stop. Now, you can easily move the ball with your hand.

Now, you can adjust the friction on the ball by turning the adjusting knob clockwise and this adjustment is infinitely variable. As soon as you have found the desired friction for the ball, mark this position by rotating the stop ring clockwise as well to the stop.

By rotating the adjusting knob slightly clockwise, the camera is secured in its position. By rotating the adjusting knob back to the stop, the preset friction on the ball is restored.

You can loosen the stop ring for panning or resetting by rotating the adjusting knob slightly in the clockwise direction.

## Mounting and Function of the PRS Knob (Pan-Catch-Stop)

All FT models can be upgraded later with the new PRS system. The protective cover is removed with the help of an appropriate screw driver or with a coin (picture 1) and the PRS knob is attached in its place using a 10 mm open end wrench (picture 2).

The catch function of the PRS knob is activated by turning the gray knurled screw clockwise until it reaches the stop. The deactivation is done by turning it counterclockwise. An audible and feelable click-lock positioning for panorama shots now allows individual photos with the smallest interval of 15°.

By pressing the PRS knob at position "0", the panorama base locks in position (picture 3). **Now, by simultaneously keeping the knob depressed, the tripod head is firmly tightened on the tripod or it can be removed.** This additional function allows fast and secure handling and especially in the case of changing temperatures.



Picture 1



Picture 2



Picture 3

## Use of the Inclination and Tilt Function

By tightening of the inclination and tilt knob, it is possible to block the rotation and the left and right inclination of the ball. When this is done, then the ball can only be tilted vertically. With this auxiliary function and the panorama base rotation, the Centerball can now be used as a 2-D tilting mechanism.

The strain for the horizontal rotation of the Centerball is, however, limited by the O-ring in this case. If the O-ring is damaged then it must be replaced immediately.



## Servicing and Cleaning the FLM Centerball

The FLM Centerball does not require any servicing but does require regular care. If the friction on the ball declines or the ball is dirty, clean the ball, which is tilted in the slot, with a lint-free cloth, which has been dipped in pure alcohol. To rotate the ball, loosen the adjusting knob and if installed the inclination and tilt knob as well. **DO NOT use oil in any case.**

Due to this new design, the FLM Centerball can be completely detached for any repairs or cleaning needed, **however, this is only to be done by the manufacturer because otherwise the manufacturer's warranty is no longer valid.**



# The FLM Plate Systems

## Power Release Set



The plate, which is screwed on, is shoved laterally into the Power-Release Basis. The basis is offered with a diameter of 45 mm and 55 mm. For the larger version, a camera plate with pin is available and this prevents the twisting of the plate.

Due to the reduction ratio of the threads on the Power-Release Basis, a high tightening force for the camera is attained. The cork plate is connected with the basis so that it cannot be twisted. Due to this system, the camera can be fixed in place on the tripod head in just seconds.

## Quick Release Set



More safety for the camera with the practical Quick-Release System:

The plate, which is screwed together with the camera, is placed in the rear guide and pressed downward into the front guide.

The tension lever must be opened (push to left). The camera is now sitting secured on the basis and can be moved into the right position by moving it laterally.

After this, the camera is fixed in place by rotating the tension lever clockwise. **The tension lever, which has been pulled out, is now rotated in the reverse direction in order to prevent the unintended release of the camera.**

## Locking in Position:



Picture 1



Picture 2

Fast and easy locking in position and releasing with the tension lever.

### Advantage of the New System

The camera can be mounted fast and easily from above. Aligning and inserting from the side is not necessary.

After the camera (picture 1) is locked in position, the tension lever can be pulled out and swiveled and then placed in a position touching the plate.

## Unlocking:



The tension lever, which is locked in position, unlocks the camera when the lever is rotated counterclockwise.

By pressing and holding the right silver knob, the plate and the camera are removed upwards at an angle from the basis. Please pay special attention to the position of the tension lever.