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## Universal Digital PAR Clip

The Universal PAR clip and the Standard PAR clip are probably the most valuable accessories for the OS5p. They allow the measurement of photosynthetically active radiation and leaf temperature with Yield, and the determination of relative ETR, or electron transport rate. PAR and temperature measurements are also made in some of the more sophisticated kinetic tests, stepped actinic tests, and quenching relaxation tests.

The Value of a PAR Clip can be seen as Yield and ETR are graphed against PAR levels or temperature. Such graphs can be used to study stress at variable light and temperature levels, study photo-protective mechanisms, study photoinhibition, study plant range limitations, or to help identify stress resistant plant varieties.

### Advantages of the Universal PAR Clip

- Revolutionary design prevents inappropriate clip opening when measuring high leaves on tall plants, and when mounted on a tripod.
- Light Weight - The unit is made of anodized aluminum and weighs 1.3 pounds or .59 kg.
- An optimized 45 degree measuring angle reduces the possibility of actinic light shading, increasing the reliability of the PAR measurement.
- Ergonomic design - The clip is designed for comfortable use with either the left or right hand using a pistol grip. A measuring trigger and an opening trigger are conveniently placed on the front of the pistol grip. The unit comes with a holster for carrying when not in use.
- This Clip will measure both ambient actinic PAR or measure PAR from internal light sources. Internal actinic illuminators will supply repeatable programmed PAR levels.
- The Universal PAR Clip offers a way to quantify difficult to measure nitrogen stress. FRFex360/FRFex440 is a fluorescence ratio test proven to be sensitive to nitrogen stress. It is only available on the OS5p and with the Universal PAR Clip.
- UVA and UVB screening- This unit provides a test for UVA and UVB stress screening.
- Reliable measurement - The PAR sensor and temperature sensor are both solid state components for less variation. Cosine correction included.

\* Black Articulating Arm Stand sold separately