

WP-80 Wide Angle Port

DATA SHEET

MANGROVE
Underwater Technology



For the truly discerning underwater videographer, we are proud to offer the **WP-80 Wide Angle Port** as an option for any Mangrove video housing. The WP-80 is a high resolution underwater wide angle port for capturing dynamic wide angle images; this remarkable port has been designed by **Fathom Imaging** to bring distortion-free imaging to Mangrove MVD housings. The WP-80 covers a range of 80° underwater and 90° on land, it enables extreme close focusing and assures brilliant colour rendition, producing high definition wide angle and macro images that are sharp and clear from edge to edge. It can be used underwater as well as above water.

The WP-80 is nitrogen purged/vacuum sealed in a dust-free environment, ensuring no foreign matter or condensation to spoil your image, it is constructed entirely of corrosion-resistant aluminium alloy and high grade optical glass elements which are coated with a proprietary *High Efficiency Broad Band Anti-Reflective* coating for maximum light transmission. You can have the best housing and camera on the market, but your images will only be as good as the optics installed on your housing, any U/W lens designed by Fathom guarantees high resolution optics free of distortion, flare, vignetting and black spot reflections.

This port is backward compatible with many out-of production Mangrove housings so current users can upgrade to one of the finest ports available for underwater imaging, in order to do that the original 67mm port should be replaced at our factory by the new port ring 56mm threaded.

The WP-80 also accepts the colour correction filter CF-127 for blue water. Colour-correcting filter created specifically to correct colours in Caribbean or tropical blue-green (cyan) water. With sunlight and the CF-127 filter, you capture the natural colours of ocean corals, fish and aquatic life in lakes, streams and rivers. This filter "neutralizes" the underwater blue colours so that the true colours which already exist can be recorded on film or video. This Wet filter enhances the quality of both still and video images when not using an artificial light source. It can be installed and removed during the course of the dive

KEY FEATURES

- High grade optical glass elements** - for sharp, crystal clear hi resolution images.
- Distortion-free** - no imaging-destroying flare or reflections, either
- Vignette-free** - means no cut-off dark corners to ruin an image
- Anti-reflective** - coating for maximum light transmission
- Allows use in Air and in Water** - and for air/water splits shots
- Nitrogen purged/vacuum sealed optics** - means no dust or condensation inside-
- 2-year warranty** - consistent with all Mangrove products

SPECIFICATIONS	WP-80 Wide Angle Port
Typical Angular Field of View (FOV)	90° in air / 80° in water
Minimum Focus Distance (MOD)	@ Wide Angle 0 mm / 0 inches from lens vertex in air and in water
Typical Distortion	Less than 3.0% in air / Less than 1.8% in water
Diameter Port Opening	63.5 mm / 2.5 inches
Weight in Air	0.53 Kg / 1.25 lbs
Buoyancy	nearly neutral
Construction Shell	6061-T6 Marine grade aluminium, Type III anodized
Construction Lenses	BK-7 Tempered Optical Grade Coated Glass
Dimensions	Diameter 127 mm / 5 inches - Length 70 mm / 2.76 inches
Depth Rating	200 meters / 660 feet

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