



SYNTHOCAM H₂O Mic

Live access potable CCTV system

The SynthoCam H₂O Mic system has been developed from the world's leading supplier of Live Access Gas Systems. After 13 years of supplying under pressure CCTV system for use in live gas transmission and distribution pipes operating up to 100barg.

The SynthoCam H₂O Mic system has been designed for live access into potable water pipes through full bore hydrants or under pressure drillings from a vertical insertion system.



The SynthoCam H₂O Mic system is made with existing **WRAS approved** materials and parts, allowing us to confirm that all wetted parts are WRAS approved.

The system uses an integrated hydrophone that relays the sound of a leak back to blue-tooth speakers and or headphones.

- **Faster** - Speeds up pipe problem investigations by both seeing inside the pipe and hearing leakages. Therefore reduces time for customers to be off water.
- **Cheaper** - Reduces maintenance costs.
- **Safer** - Uses a pressure balanced insertion tube for safe access and egress with the water main, hydrant and or drilling system.
- **Further** - Pushes up to 100m providing a survey up to 200m from a single excavation.
- **Easier** - This system comes with full training and support.



- Interchangeable High resolution 30mm camera for diameters from 4" / 90mm to 10" / 250mm.
- 12mm Ø basalt filled Ultralife push rod reduces breakages.
- Choice of display with up to 5 hour battery life and a selection of data storage systems options.
- Interchangeable Camera Head Spring with integrated hydrophone.
- WRAS approved and Chlorination tank included.
- Quick release screen display stand.
- 10bar operational use.
- Optional GPS tracker available.



Mains repair and replacement application



Finding leaks, connections and surveying routes



Investigating obstructions and pressure problems



Locating joints, defects and interference



Pressure Balance Insertion Tube	
Weight approx.	6kg
External dims. approx	150 x 2150mm
Operating pressure	10Bar water
Attachment	2.5" round thread hydrant outlet (London)
Access type	Through Bore Hydrant live access fitting 39mm Ø
Max camera Size	49mm
Minimum mains size	4" / 90mm
Max cobra cable Ø	4.5, 6, 7.4mm
Operating temp	-10°C to 40°C
Storage temp	-25°C to 55°C



Mic Insertion Spring	
Dimensions	22 Ø x 350mm
Weight	0.45kg

System 3 Cobra 8.5mm	
Dimensions	750 x 890 x 360mm
Weight	18kg
Type	Blue Ultralife
Materials	PU Basalt Fill / Nylon
Rod	8.5mm Ø x 80m



Weight approx.	5kg
External dims. approx	275 x 250 x 122mm
Video recording	WIFI / USB
Frame grab	WIFI / USB
Screen size	8" or 8.4" TBC
Screen Luminance	1000 cd/m ²
Battery	12V 8Ah internal (8 hours)
Input connection	DC power jack (battery charger)
Output voltage	12.5V
Overlay	Time, date, meterage and job title
Meterage	On-screen hub rotation
Environmental	IP67 - closed/IP40 open

Cameras				
Camera and size	S240 - 24mm	S301 - 30mm	S340 - 35mm	S490 - 46mm
Camera type	Fixed	Fixed	Self-levelling	Self-levelling
Weight	Including spring - 137g	78g	151g	301g
Camera dims	24 x	30 x 52mm	35 x 65mm	46 x 65mm
Power	0.75W(no LED) 2W(Full LED)	0.75W (no LED) 2W (Full LED)	0.75W (no LED) 2W (Full LED)	0.75W (no LED) 2W (Full LED)
IP rating	IP68, 10Bar water	IP68, 10Bar water	IP68, 10Bar water	IP68, 10Bar water
Focal range	50 to ∞	50 to ∞	50 to ∞	50 to ∞
Lighting type	LED	LED	LED	LED
LUX	40,000	50,000	50,000	50,000
Active pixels	976 x 496	976 x 496	976 x 496	976 x 496
Horizontal res.	710TVL	710TVL	710TVL	710TVL
Readiness	Available Quarter 4 - 2020	Available Now	Available Quarter 4 - 2020	Available Quarter 4 - 2020