



Thermo Scientific Orion AQ3700 Colorimeter

Featuring digestion tests for nitrogen, phosphate and COD



The Orion AQ3700 is the newest addition to the colorimetry line. With over 70 pre-programmed method options, this IP67 waterproof portable meter offers liquid, powder and tablet tests for expanded ranges and test options. There are six wavelengths generated by the long life LEDs in the meter. This instrument has a graphical display that is easy to understand and can be used in English, Spanish, German, French, Italian, or Polish.

See pages 118-121 for additional AQ3700 reagents.

Specifications	Description
Incident Light Source	6 light emitting diodes (LED)
Wavelengths	430, 530, 560, 580, 610, 660 nm
Photometric Precision	2 % full scale as measured with standard solutions
Photometric Resolution	±0.005 Abs
Software	
Test Methods	Preprogrammed with user prompts and feedback, efficient user's favorite list
Autoranging	Yes
Blank Capability	Per method
Test Reagent Formats	Powder, tablet, liquid, reagent reaction tubes, acid digestion tubes
Datalog Points	Up to 1000, time and date stamp
New Method Upload Capability	Yes, via internal RJ45 port
Meter Hardware	
Display	Backlit, graphic display
Inputs	12 button numeric keypad, plus 3 function keys
Sample Required	10 mL
Sample Cells Accepted	24 mm sample vials; 13 mm ampoules and 16 mm tubes with included adapters
Outputs	IRDA (adapter required)
Auto Shut Down	20 min after last key-press, wakes to last location
Power	4 AA batteries (>3000 tests)
Regulatory and Safety	CE, FCC part 15
Environmental Conditions	5 to 40 °C (30 to 90 % non-condensing at 30 °C)
Meter Waterproof Rating	IP67
Warranty	2 years

New Reagents for AQ3700

Cat. No.	New Test	Range, mg/L	Reagent Type
AC2002	Alkalinity-m/ Acid Demand pH 4.3	5 to 200/ 0.1-4 mmol/L	Tablet
AC3002P	Alkalinity-p	5 to 500	Tablet
AC4P27	Aluminum, LR	0.01 to 0.25	Tablet & liquid
ACR012	Ammonia, LR	0.02 to 2.5	Powder & reaction tube
ACR011	Ammonia, HR	1 to 50	Powder & reaction tube
AC3072	Chlorine total HR/ Sodium Hypochlorite	5 to 200/ 0.2 to 16 % NaOCl	Tablet
AC3032C	Hardness, Calcium	50 to 900	Tablet
AC3032C2	Hardness, Calcium 2 LR	0 to 500	Tablet
AC3032T	Hardness, total	2 to 50	Tablet
AC4P54	Manganese, LR	0.01 to 0.7	Powder & liquid
ACR007	Nitrate	1.0 to 30.0	Powder pack & reaction tube
AC4P46	Nitrite	0.01 to 0.3	Powder pack
ACD004	Nitrogen, total, LR	0.5 to 25	Powder pack & digestion tube
ACD007	Nitrogen, total, HR	5 to 150	Powder pack & digestion tube
ACR095	Phosphate, ortho	0.06 to 5	Powder pack & reaction tube
ACD095AH	Phosphate, acid hydrolyzable	0.02 to 1.6	Powder pack & digestion tube
ACD095	Phosphate, total	0.02 to 1.1	Powder pack & digestion tube
AC3001TB	pH	8.0 to 9.6	Tablet
AC3072	Sodium hypochlorite	0.2 to 16 % NaOCl	Tablet

Ordering Information

Cat. No.	Description
AQ3700	Meter kit includes AQ3700 meter, 4 batteries, 4 vials (24 mm), 3 vials (16 mm), 1 adapter each for 16 mm and 13 mm vials, carrying case, user guide with test methods, tablet tampering stir rod and brush. Order reagents and IR adapter separately.

Accessories for AQ3700 Meter

Cat. No.	Description
AC2V16	Replacement 16 mm vials, package of 10
AC2V24	Replacement 24 mm vials, package of 12
AC37A16	Replacement 16 mm adapter for AQ3700
AC37A13	Replacement 13 mm adapter for AQ3700
AC3ROD	Stir rod, package of 10
AC3C8R	Cleaning brush, package of 5
AC3VSK	Meter verification check standards kit
AQ37IRIM	IR data transfer interface module

Many of our long-standing colorimetry tablet and powder reagents as well as COD tests are already programmed into the AQ3700. See pages 118-121 for additional test parameters, meter accessories, digestion supplies, and more reagent options.