

OPTIZEN™QX **WATER QUALITY ANALYZER**

OPTIZEN QX is invented to help scientists, facility managers, engineers, environment health experts and water treatment specialists to carry out the water quality analysis quickly and accurately.

As the device provides the voice service and more than 150 pre-programmed methods, the users can use it easier than other devices.

The device is available for a continuous management, an improved and simplified analysis procedure and a simple, precise analysis for measuring water quality items such as COD, TN, TP, etc.



Main Characteristics

- Water quality analysis.
- Standard curve drawing is possible by themselves.
- High speed wavelength scanning.
- Supporting a network printer connection function.
- Supporting all-in-one cell holder (original size : 16, 25mm, quadrangle 10 mm compatibility).
- Convenient voice service.
- A touch screen display using an intuitive user interface.

Product Qualification

Photometrics System	Single Beam Type
Light Source	Tungsten Halogen Lamp & Deuterium Lamp
Spectral Bandwidth	3.0 nm (190 to 1100 nm)
Wavelength Range	190 to 1100 nm
Wavelength display	0.1 nm
Wavelength accuracy	<± 1.5 nm at 486, 656.1 nm
Wavelength repeatability	<± 0.2 nm
Slew rate	About 7,800 nm/min
Scan speed	max 4,000 nm/min
Photometric range	Absorbance : -3 to 3 Abs Transmittance : 0 % to 300 %
Stray lighty	< 0.05 % NaI at 220 nm, NaNO ₂ at 340 nm
Baseline stability	<± 0.002 Abs/h
Baseline flatness	< 0.003 Abs/h (220 to 1050 nm)
Monochromator	Czerny-Turner type with 1200 lines/nm blazed grating
Lamp interchange Wavelength	340~410 nm (Default 370 nm)
Standard cell Holder	All-in-One Cell Holder

Display	7 inch color LCD with touch screen;
Operating system(OS)	Windows CE;
Power Requirement	100~240 V; 50~60 Hz
Weight(kg)	8 kg
Dimensions(W x D x H)	433(W) x 381(D) x 180(H)

* The contents of this document may be changed without notice.

- **Product details**

OPTIZEN QX series are the water quality analysis system to reduce the correction time and improve the general precision degree.

The devices use MERCK CO.'s pre-programmed methods (more than 150) and their convenient interface and automation function help you to perform an easy, quick and precise experiment.

- **Product Information**

- Using all-in-one cell holder enables the user to use all the cell conveniently and simply.
- Easily and quickly call up the information that is being measured or analyzed by registering it in you favorites.
- Using MERCK kit's pre-programmed methods (more than 150), one of the best water quality test kits (*Refer to the table shown in right side.)
- Supporting software online update.

- **Pre-programmed Methods**

Parameter	Range
Aluminum Alumin.	0-0.8
Boron. HR	2-0
Chlor Diox DPD AV	0-5
Chloride	0-5
Chlorine F&T AV	0-2
Chlorine F&T HR	0-0

Chlorine F&T MR	0-4.4
Chlorine F&T PP	0-2
Chlorine F&T RL	0-2
Chlorine F&T TNT	0-5
Chromium, Hex.	0-0.7
Chromium, Hex. AV	0-0.7
COD HR	0-0
COD LR	0-0
COD Mn III	0-0
COD RD 20 HR	0-0
COD RD 20 LR	0-0
COD ULR	0-0
Copper, Bicin.	0-5
Copper, Bicin. AV	0-5
Cyanide	0-0.24
H2O2	0.05-5
Hardness, Ca	0-4
Hardness, Mg	0-4

Hydrazine	0-0
Hydrazine AV	0-0
Iodine	0-7
Iodine. AV	0-7
Iron, FerroMo	0-1.8
Iron, FerroVer	0-3
Iron, FerroVer AV	0-3
Iron, FerroZine	0-1.4
Iron, TPTZ	0-1.8
Iron, TPTZ AV	0-1.8
Manganese, HR	0-0
Manganese, LR	0.005-0.7
Manganese, LR PAN	0-0.7
Manganese, LR PAN 50	0.005-0.5
Molybdenum HR AV	0-0
Monochloramine LR	0-4.5
N,. Ammonia Free	0-0.5
N,. Ammonia HR TNT	0-0

N,. Ammonia LR TNT	0-2.5
N,. Ammonia Ness.	0-2.5
N,. Ammonia Salic.	0-0.5
N,. Nitrate HR AV	0-0
N,. Nitrate HR PP	0-0
N,. Nitrate HR TNT	0-0
N,. Nitrate LR	0-0.5
N,. Nitrate MR AV	0-0
N,. Nitrate MR PP	0-0
N,. Nitrite HR PP	0-0
N,. Nitrite LR AV	0-0
N,. Nitrite LR PP	0-0
N,. Nitrite LR TNT	0-0
N,. Total HR TNT	0-0
N,. Total LR TNT	0-5
N. Inorganic TNT	0-5
Oxygen, Dis. HR AV	0-5
Oxygen, Dis. LR AV	0-0

Oxygen, Dis. UHR AV	0-0
Ozone HR AV	0-1.5
Ozone LR AV	0-0.25
Ozone MR AV	0-0.75
P. React. Amino.	0-0
P. React. HR TNT	0-0
P. React. Mo	0-5
P. React. Mo AV	0-5
P. React. PV	0-2.5
P. React. PV AV	0-2.5
P. React. PV TNT	0-5
P. Total HR TNT	0-0
P. Total/AH PV TNT	0-3.5
PAA	0.1-0
Perman. Index HR	4.5-5
Perman. Index LR	0.5-5
Silica. HR	0-0
Silica. LR	0-1.6

Silica. ULR	0-0
ULR Phosphate	30-0
Zinc	0-3