Approved BluVision discrete analyzer environmental applications

The BluVision™ is ideal for the analysis of many different colorimetric analyses on a variety of sample types and matrices found in today's environmental laboratories. Find below a list of popular parameters.

Parameters	Method	Typical Range	MDL	International Regulations	Photometric measurement
Ammonia	Sodium dichloroisocyanurate, sodium salicylate and sodium nitroprusside method	2 – 200 µg/l $N\text{-}NH_4$ 0.02 – 1 mg/l $N\text{-}NH_4$	0.68 µg $N\text{-}NH_4$	EPA 350.1 ISO 15923-1	660 nm
Ammonia	Alkaline phenate method	5 – 500 µg/l $N\text{-}NH_4$ 0.5 – 50 mg/l $N\text{-}NH_4$	0.68 µg/l $N\text{-}NH_4$	SMWW 4500-NH_3-G	630 nm
Aluminium	Pyrocatechol violet method	0.05 – 1 mg/l Al	0.01 mg/l Al	ISO 15923-2	580 nm
Calcium	Arzenazo (III) method	1 – 20 mg/l Ca	0.12 mg/l Ca	ISO 15923-2	660 nm
Chloride	Mercury (II) thiocyanate method	1 – 25 mg/l Cl 25 – 250 mg/l Cl	0.08 mg/l Cl	EPA 325.2 ISO 15923-1	480 nm
Chromium (VI)	Diphenylcarbazide metyhod	5 – 100 µg/l Cr (VI) 0.1 – 1 mg/l Cr (VI)	0.4 µg/l Cr (VI)	EPA 7196-A ISO 15923-2 SMWW 3500-Cr-D	540 nm
Free Cyanide (manual destillation)	Chloramine-T and pyridine barbituric acid method	2 – 300 µg/l CN	1 µg/l CN	SMWW 4500-CN-E	600 nm
Fluoride	Alizarine fluorine blue and cerous nitrate method	0.1 – 2 mg/l F	0.01 mg/l F	EPA 340.3 ISO 15923-2	620 nm
Hydrazine	4-(dimethylamino) benzaldehyde method	0.01 – 1 mg/l N_2H_4	0.002 mg/l N_2H_4		460 nm
Iron (total)	1,10-Phenantroline method	0.05 – 1 mg/l Fe	0.01 mg/l Fe	ISO 15923-2	500 nm
Iron (II)	1,10 phenantroline method	0.05 – 1 mg/l Fe (II)	0.01 mg/l Fe (II)	ISO 15923-2	500 nm
Magnesium	Xylidyl blue method	5 – 70 mg/l Mg	1 mg/l Mg	ISO 15923-2	520 nm
Manganese	Formaldoxime method	0.05 – 0.5 mg/l Mn	0.02 mg/l Mn	ISO 15923-2	460 nm
Nitrate + Nitrate	Vanadium (III) reduction method	0.05 – 0.5 mg/l $N\text{-}NO_3$ 0.5 – 5 mg/l $N\text{-}NO_3$	0.002 mg/l $N\text{-}NO_3$	SMWW 4500-NO3-G	540 nm
Nitrate + Nitrite	Hydrazine Sulphate reduction method	0.05 – 0.5 mg/l $N\text{-}NO_3$ 0.5 – 5 mg/l $N\text{-}NO_3$	0.005 mg/l $N\text{-}NO_3$	ISO 15923-1 SMWW 4500-NO_3-H	540 nm
Nitrate + Nitrite	Enzyme reduction method	0.05 – 0.5 mg/l $N\text{-}NO_3$ 0.5 – 5 mg/l $N\text{-}NO_3$	0.002 mg/l $N\text{-}NO_3$	EPA N07-0003	540 nm
Nitrite	Sulfanilamide, N-(1-Naphtyl)-ethylenediamine dihydrochloride method	1 – 100 µg/l $N\text{-}NO_2$ 0.05 – 1 mg/l $N\text{-}NO_2$	0.3 µg/l $N\text{-}NO_2$	ISO 15923-1 SMWW 4500-NO_2-B	540 nm
Phenol (manual destillation)	Alkaline ferricyanide and 4-aminopyridine method	0.005 – 0.25 mg/l Phenol	0.002 mg/l Phenol	EPA 420.4	520 nm
Phosphate	Antimony potassium tartrate, Ammonium molybdate and Ascorbic acid method	2 – 100 µg/l $P\text{-}PO_4$ 0.05 - 1 mg/l $P\text{-}PO_4$	1 µg/l $P\text{-}PO_4$	EPA 365.1 ISO 15923-1 SMWW 4500-P-F	880 nm
Silicate	Ammonium molybdate and Ascorbic acid method	0.01– 1 mg/l SiO_2 0.02– 0.5 – 10 mg/l SiO_2	0.003 mg/l SiO_2 –	ISO 15923-1 SMWW 4500-$Si0_2$-C	810 nm
Sulfate	Barium chloride, turbidimetric method	1 – 20 mg/l SO_4 20 – 100 mg/l SO_4	0.75 mg/l SO_4	EPA 375.4 ISO 15923-1 SMWW 4500-SO_4-E	540 nm
TKN (offline digestion)	Sodium dichloroisocyanurate, sodium salicylate and sodium nitroprusside method	0.1 – 2.5 mg/l $N\text{-}NH_4$ 0.25 – 25 mg/l $N\text{-}NH_4$	0.001 mg/l $N\text{-}NH_4$	EPA 351.2	660 nm
Total Alkalinity	Methyl orange method	2 – 200 mg/l $CaCO_3$	1 mg/l $CaCO_3$	EPA 310.2 ISO 15923-2	550 nm
Total Hardness	Calmagite method	10 – 500 mg/l $CaCO_3$	5 mg/l $CaCO_3$	EPA 130.1 ISO 15923-2	520 nm
Total Phosphate (offline digestion)	Antimony potassium tartrate, Ammonium molybdate and Ascorbic acid method	0.005 – 0.5 mg/l $P\text{-}PO_4$ 0.5 – 5 mg/l $P\text{-}PO_4$	0.002 mg/l $P\text{-}PO_4$	EPA 365.1	880 nm

Skalar has lots of experience in automating analysis procedures and has an extensive library of information/techniques that support well-proven applications. This knowledge, in the form of application sheets, methodology books, technical brochures, etc., is widely made available. The BluVision methods are compliant to regulatory bodies such as NEN-ISO 15923-1, CMA/2/I/C.8, EPA, Standard Methods for Water and Wastewater (SMWW), ASTM etc. The methods give the best reproducibility and the lowest detection limits.
Please contact Skalar if you cannot find your application.

Skalar

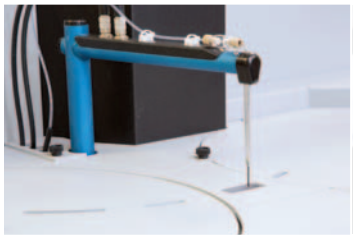
your partner in chemistry automation

Approved BluVision discrete analyzer environmental applications

The BluVision™ discrete analyzer is ideal for environmental and industrial laboratories analyzing a wide variety of sample types and matrices. This system integrates years of experience in the field of spectrophotometric analysis and robot automation in one design. Advantages are the low detection limits, high accuracies and large sample capacity.

The analyzer is delivered with separate waste collection for environmentally harmful chemicals. Of course, automatic re-analysis of samples from under- or over-range concentrations are part of this discrete concept.

The analyzer is easy to use and requires minimal maintenance.



Needle & rinsing vessel

Access to samples & reagents

Cuvette tray & autoloader

Two waste containers

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