

Comparison of four types of fully automatic colony analyzers

Type	Model/Configuration	LK - BCA - 01	LK - BCA - 02	LK - BCA - 03	LK - BCA - 03+
Basic Configuration	Full - closed light - proof dark box	●Standard	●Standard	●Standard	●Standard
	Dust - proof independent USB interface	●Standard	●Standard	●Standard	●Standard
Light Source Function	Tri - color LED mixed light source	●Standard	●Standard	●Standard	●Standard
	Upper light source intensity: 2 - level adjustment	●Standard	●Standard	●Standard	●Standard
	Lower light source intensity: 2 - level adjustment	●Standard	●Standard	●Standard	●Standard
	Upper & lower light sources turn on simultaneously	●Standard	●Standard	●Standard	●Standard
	Suspended matte field of view lighting	●Standard	●Standard	●Standard	●Standard
	Upper light source color temperature: independent adjustment	●Standard	●Standard	●Standard	●Standard
	Lower light source color temperature: independent adjustment	●Standard	●Standard	●Standard	●Standard

UV Function	3 specific - wavelength UV lamp positions	●Standard	●Standard	●Standard	●Standard
	254nm professional UV lamp	—	—	●Standard	●Standard
	366nm professional UV lamp	—	—	●Standard	●Standard
	302nm professional UV lamp	—	—	○Optional	●Standard
	Other wavelengths	○Optional	○Optional	○Optional	○Optional
Camera Configuration	6.3 million - pixel high - performance camera	●Standard	●Standard	●Standard	●Standard
	12 million - pixel high - performance camera	—	●Standard	—	○Optional
	20 million - pixel high - performance camera	—	—	—	●Standard
	3MP high - resolution lens	—	●Standard	●Standard	●Standard
	5MP high - resolution lens	—	—	●Standard	●Standard
	UV cabin internal disinfection	—	●Standard	●Standard	●Standard

Type	Model/Configuration	LK - BCA - 01	LK - BCA - 02	LK - BCA - 03	LK - BCA - 03+
Counting Area	Square	●Standard	●Standard	●Standard	●Standard
	Circular	●Standard	●Standard	●Standard	●Standard
	Polygon	●Standard	●Standard	●Standard	●Standard
Counting Mode	Statistical sensitivity: digital adjustment	●Standard	●Standard	●Standard	●Standard
	Rapid statistics	●Standard	●Standard	●Standard	●Standard
	Precise statistics	●Standard	●Standard	●Standard	●Standard
	Reverse statistics	—	●Standard	●Standard	●Standard
	Color - based statistics	—	—	●Standard	●Standard
	Color recognition confirmation	—	—	●Standard	●Standard
	Single - click counting	●Standard	●Standard	●Standard	●Standard
	Image Processing	Count rollback	●Standard	●Standard	●Standard
	Adhesion splitting	—	●Standard	●Standard	●Standard
	Region deletion	—	—	●Standard	●Standard
	Restore original image	—	●Standard	●Standard	●Standard
Data Management	Data saving	●Standard	●Standard	●Standard	●Standard
	Image annotation	●Standard	●Standard	●Standard	●Standard
	Straight - line measurement	—	●Standard	●Standard	●Standard
	Angle measurement	—	●Standard	●Standard	●Standard
	Rectangle	—	●Standard	●Standard	●Standard

	measurement				
	Circle measurement	—	—	●Standard	●Standard
	Instrument calibration	●Standard	●Standard	●Standard	●Standard
Instrument Settings	Fully automatic instrument measurement	●Standard	●Standard	●Standard	●Standard
	General settings	●Standard	●Standard	●Standard	●Standard
	Advanced settings	●Standard	●Standard	●Standard	●Standard
	Equipment maintenance	●Standard	●Standard	●Standard	●Standard
	Add maintenance	—	—	●Standard	●Standard
Account & Data	Management account	—	—	●Standard	●Standard
	Data query	●Standard	●Standard	●Standard	●Standard
	Generate reports	●Standard	●Standard	●Standard	●Standard
	Operator login	●Standard	●Standard	●Standard	●Standard
	Reviewer login	●Standard	●Standard	●Standard	●Standard
	Administrator login	●Standard	●Standard	●Standard	●Standard
	System administrator login	●Standard	●Standard	●Standard	●Standard
	Multi - login permission control system	●Standard	●Standard	●Standard	●Standard
	Audit trail	●Standard	●Standard	●Standard	●Standard
Expansion Functions	Handheld code scanning system	—	—	●Standard	●Standard
	Software controlled - light source switch & intensity adjustment	●Standard	●Standard	●Standard	●Standard

Save default
instrument light
conditions/method ●Standard ●Standard ●Standard ●Standard
s

AI artificial
intelligence — — — ●Standard
recognition

Type	Model/Configuration	LK - BCA - 01	LK - BCA - 02	LK - BCA - 03	LK - BCA - 03+
Sample Medium	Spread plate method	●Supported	●Supported	●Supported	●Supported
	Pour plate method	●Supported	●Supported	●Supported	●Supported
	Membrane filtration method	●Supported	●Supported	●Supported	●Supported
	Petrifilm™ Test Plate	●Supported	●Supported	●Supported	●Supported
	CompactDry™ Test Plate	●Supported	●Supported	●Supported	●Supported
	Spiral plater	●Supported	●Supported	●Supported	●Supported
	EasyTest™ Test Plate	●Supported	●Supported	●Supported	●Supported
	MicroFast®Premium Test Plate	●Supported	●Supported	●Supported	●Supported
Microorganisms	Total bacteria count (Nutrient Agar)	●Supported	●Supported	●Supported	●Supported
	Coliform group (VRBGAgar)	●Supported	●Supported	●Supported	●Supported
	Thermotolerant coliform group (MPCAgar)	●Supported	●Supported	●Supported	●Supported
	Escherichia coli (MUGAgar)	●Supported	●Supported	●Supported	●Supported
	Enterococcus (CATAgar)	●Supported	●Supported	●Supported	●Supported
	<i>Clostridium perfringens</i> (SPSAgar)	●Supported	●Supported	●Supported	●Supported
	Vibrio parahaemolyticus (TCBS Agar)	●Supported	●Supported	●Supported	●Supported
	Staphylococcus aureus (Baird - Parker Agar)	●Supported	●Supported	●Supported	●Supported
	Bacillus cereus (MYPAgar)	●Supported	●Supported	●Supported	●Supported
	Yeast (Malt Extract Agar)	●Supported	●Supported	●Supported	●Supported
	Listeria monocytogenes (Listeria Chromogenic Agar)	●Supported	●Supported	●Supported	●Supported
	Bifidobacterium (MRSAgar)	●Supported	●Supported	●Supported	●Supported
	Lactobacillus (MRS Agar)	●Supported	●Supported	●Supported	●Supported
	<i>Streptococcus thermophilus</i> (MCAgar)	●Supported	●Supported	●Supported	●Supported

Escherichia coli (VRBA - NUG Agar)	●Supported	●Supported	●Supported	●Supported
<i>Vibrio cholerae</i> (VRBGAgar)	●Supported	●Supported	●Supported	●Supported
Total fungi (TTC Nutrient Gelatin)	●Supported	●Supported	●Supported	●Supported
Lactobacillus (Tetrazolium Blue Gelatin)	●Supported	●Supported	●Supported	●Supported
Fungi (Sabouraud Dextrose Agar)	●Supported	●Supported	●Supported	●Supported

Legend:

- Standard: Standard Configuration
- Optional: Optional Configuration
- : Not Applicable