## Control Unit uniVision All in One

## BB1C105

Part Number



- Configurable uniVision software for evaluating height profiles of up to 16 2D/3D profile sensors
- Configurable uniVision software for evaluating images from digital cameras
- Control unit with pre-installed VisionApp 360, uniVision Profile and Image Extended software
- Wear and noise reduction thanks to passive, fanless cooling

The control unit is a CPU for evaluating data from image processing products. Its compact design ensures the necessary flexibility for easy, space-saving installation, for example in a control cabinet or on a wall. Quick initial start-up is made possible by the pre-installed software. Various standard interfaces are available for the output of results. An extensive range of optional accessories is also available including monitor, keyboard and switch.

## **Technical Data**

Supply Voltage       1836 V DC         Current Consumption (Ub = 24 V)       < 2,2 A         Temperature Range       040 °C         Switching Output Voltage Drop       < 2,5 V         PNP Switching Output/Switching Current       100 mA         Electrical Isolation       yes         Short Circuit Protection       yes         Reverse Polarity Protection       yes         Number of Switching Outputs       8         Number of Digital Inputs       8         Number of Just Industrial Ethernet ports       2         Number of USB 2.0 interfaces       2         Number of USB 3.0 interfaces       2         Number of USB 3.0 interfaces       2         Number of Otyports       1         Number of UsB 3.0 interfaces       1         Number of Otyports       1         Number of VGA ports       1         Protection Class       III         Mechanical Data       Metal         Housing Material       Metal         Degree of Protection       IP50         Wall mounting       yes         Function       yes         10 and 2D code reading       yes         Combined height profile       yes         Profile	rechnical Data	
Current Consumption (Ub = 24 V)  Temperature Range  040 °C  Switching Output Voltage Drop  PNF Switching Output/Switching Current  Electrical Isolation  Short Circuit Protection  Reverse Polarity Protection  Number of Switching Outputs  Number of Digital Inputs  Number of Digital Inputs  Number of USB 2.0 interfaces  Number of USB 3.0 interfaces  Number of Gispabit Ethernet RJ45  Number of Otyports  1  Number of USB 3.0 interfaces  1  Number of Jugha Drots  1  Number of USB 3.0 interfaces  1  Number of USB 3.0 interfaces  1  Number of USB 3.0 interfaces  1  Number of Drots  1  Number of VGA ports  1  Protection Class  III  Mechanical Data  Housing Material  Degree of Protection  Wall mounting  yes  Function  1D and 2D code reading  Combined height profile  Profile analysis  Image analysis  Image analysis  Image based pattern matching  Software  uniVision All in One  Intel® Core i7  Clock Frequency  2,3 GHz  RAM  8 GB  Hard disk  250 GB SSD  Ethermet  PROFINET-I/O, CC-C  EtherNet/IP™  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Electrical Data	
Temperature Range	Supply Voltage	1836 V DC
Switching Output Voltage Drop         < 2,5 V	Current Consumption (Ub = 24 V)	< 2,2 A
PNP Switching Output/Switching Current Electrical Isolation Short Circuit Protection Reverse Polarity Protection Winder of Switching Outputs Number of Digital Inputs Number of Digital Inputs Number of Digital Inputs Number of Ly45 Industrial Ethernet ports Pumber of USB 2.0 interfaces Pumber of USB 3.0 interfaces Pumber of Gigabit Ethernet Ry45 Pumber of OVI ports Protection Class Protection Class Protection Class III  Mechanical Data Housing Material Degree of Protection Profile analysis Image analysis Image analysis Image analysis Image analysis Image analysis Image absed pattern matching Processor Clock Frequency RAM	Temperature Range	040 °C
Electrical Isolation Short Circuit Protection Reverse Polarity Protection Number of Switching Outputs Rumber of Digital Inputs Rumber of Digital Inputs Rumber of Digital Inputs Rumber of USB 2.0 interfaces Rumber of USB 3.0 interfaces Rumber of Gigabit Ethernet RJ45 Rumber of OVI ports Rumber of Gigabit Ethernet RJ45 Rumber of Gigabit Ethernet RJ45 Rumber of VGA ports Rumber of Protection Rechanical Data Rechan	Switching Output Voltage Drop	< 2,5 V
Short Circuit Protection Reverse Polarity Protection Number of Switching Outputs Number of Digital Inputs Number of Digital Inputs Number of BJ45 Industrial Ethernet ports Number of USB 2.0 interfaces Number of USB 3.0 interfaces Number of Gigabit Ethernet RJ45 Number of Gigabit Ethernet RJ45 Number of DVI ports Number of OVI ports Number of Gisplay port interfaces Number of Gisplay port interfaces Number of VGA ports Protection Class III  Mechanical Data Housing Material Degree of Protection Wall mounting yes Function 1D and 2D code reading Combined height profile Profile analysis Image analysis Image analysis Image-based pattern matching Software UniVision All in One Processor Intel® Core i7 Clock Frequency RAM RGB Hard disk Soft BSD Ethernet PROFINET-I/O, CC-C EtherNet/IPTM Digital I/O USB Interface DVI-D port VGA Connection Display port connection	PNP Switching Output/Switching Current	100 mA
Reverse Polarity Protection  Number of Switching Outputs  Number of Digital Inputs  Number of RJ45 Industrial Ethernet ports  Number of USB 2.0 interfaces  Number of Gigabit Ethernet RJ45  Number of Gigabit Ethernet RJ45  Number of Gigabit Ethernet RJ45  Number of OVI ports  Number of Gigabit Ethernet RJ45  Number of USB 3.0 interfaces  Number of Gigabit Ethernet RJ45  Number of Gigabit Ethernet RJ45  Number of Gigabit Ethernet RJ45  Number of USB 3.0 interface  Nethalia In Metal  Netal  Ne	Electrical Isolation	yes
Number of Switching Outputs  Number of Digital Inputs  Number of RJ45 Industrial Ethernet ports  Number of USB 2.0 interfaces  Number of USB 3.0 interfaces  Number of Gigabit Ethernet RJ45  Number of Gigabit Ethernet RJ45  Number of display port interfaces  Number of display port interfaces  Number of VGA ports  Number of	Short Circuit Protection	yes
Number of Digital Inputs  Number of RJ45 Industrial Ethernet ports  2 Number of USB 2.0 interfaces 2 Number of USB 3.0 interfaces 2 Number of Gigabit Ethernet RJ45 2 Number of DVI ports 1 Number of display port interfaces 1 Number of VGA ports 1 Protection Class III  Mechanical Data  Housing Material Degree of Protection ID and 2D code reading Combined height profile Profile analysis Image analysis Image analysis Image-based pattern matching Software Processor Clock Frequency RAM BAGB Hard disk 250 GB SSD  Ethernet PROFINET-I/O, CC-C EtherNet/IPTM Digital I/O USB Interface DVI-D port VGA Connection  8  8  8  8  8  8  8  8  8  8  8  8  8	Reverse Polarity Protection	yes
Number of RJ45 Industrial Ethernet ports  Number of USB 2.0 interfaces  Number of USB 3.0 interfaces  Number of Gigabit Ethernet RJ45  Number of DVI ports  Number of display port interfaces  Number of VGA ports  Number of VGA ports  Protection Class  III  Mechanical Data  Housing Material  Degree of Protection  Vall mounting  Profile analysis  Image analysis  Image analysis  Image analysis  Image-based pattern matching  Software  Processor  Clock Frequency  RAM  RAM  RAM  RAM  RAM  RAM  RAM  RA	Number of Switching Outputs	8
Number of USB 2.0 interfaces  Number of USB 3.0 interfaces  Number of Gigabit Ethernet RJ45  Number of DVI ports  Number of Sydap port interfaces  Number of VGA ports  III  Mechanical Data  Housing Material  Degree of Protection  Wall mounting  Function  1D and 2D code reading  Combined height profile  Profile analysis  Image analysis  Image-based pattern matching  Software  Processor  Clock Frequency  RAM  B GB  Hard disk  2   Number of USB 3.0 interfaces  2  Number of USB 3.0 interfaces  3  Number of USB 3.0 interfaces  4  Number of USB 3.0 interfaces  5  Number of USB 3.0 interfaces  6  Number of USB 4.0 interfaces  9  Number of USB 4.0 interfaces  1  Number of USB 4.0 interfaces  1  Number of USB 4.0 interfaces	Number of Digital Inputs	8
Number of USB 3.0 interfaces         2           Number of Gigabit Ethernet RJ45         2           Number of DVI ports         1           Number of VGA ports         1           Number of VGA ports         1           Protection Class         III           Mechanical Data         Housing Material           Housing Material         Metal           Degree of Protection         IP50           Wall mounting         yes           Function         1           1D and 2D code reading         yes           Combined height profile         yes           Profile analysis         yes           Image analysis         yes           Image-based pattern matching         yes           Software         uniVision All in One           Processor         Intel® Core i7           Clock Frequency         2,3 GHz           RAM         8 GB           Hard disk         250 GB SSD           Ethernet         PROFINET-I/O, CC-C           EtherNet/IPTM         Output           Digital I/O         USB Interface           DVI-D port         VGA Connection           Display port connection         Output	Number of RJ45 Industrial Ethernet ports	2
Number of Gigabit Ethernet RJ45  Number of DVI ports  Number of display port interfaces  Number of VGA ports  Protection Class  III  Mechanical Data  Housing Material  Degree of Protection  Wall mounting  Profile analysis  Image analysis  Image analysis  Image-based pattern matching  Software  Processor  Clock Frequency  RAM  Hard disk  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  1 Dand Syed ports interfaces  Interface  Interface  Display port connection  1 Dand Syed  Metal  Metal  Metal  Pyeo  1 ()  Wetal  Metal  Pyeo  1 ()  Wes  Wes  Wes  Wes  UniVision All in One  Intel® Core i7  Clock Frequency  2,3 GHz  8 GB  4 GB  4 GB  4 CF	Number of USB 2.0 interfaces	2
Number of DVI ports         1           Number of display port interfaces         1           Number of VGA ports         1           Protection Class         III           Mechanical Data         Metal           Housing Material         Metal           Degree of Protection         IP50           Wall mounting         yes           Function         ***           1D and 2D code reading         yes           Combined height profile         yes           Profile analysis         yes           Image analysis         yes           Image-based pattern matching         yes           Software         uniVision All in One           Processor         Intel® Core i7           Clock Frequency         2,3 GHz           RAM         8 GB           Hard disk         250 GB SSD           Ethernet         PROFINET-I/O, CC-C           EtherNet/IP™         Digital I/O           USB Interface         DVI-D port           VGA Connection         ONID port           VGA Connection         ONID port	Number of USB 3.0 interfaces	2
Number of display port interfaces  Number of VGA ports  Protection Class  Mechanical Data  Housing Material  Degree of Protection  Wall mounting  Profile analysis  Image analysis  Image-based pattern matching  Processor  Clock Frequency  RAM  Hard disk  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  III  Metal  III  Metal  Pyes  III  Metal  Pyes  Metal  Metal  Pyes  Metal  Metal  Pyes  Metal  Metal  Pyes  Metal  Metal  III  Metal  III  Metal  IP50  Watal  Metal  IP50  Yes  Ves  Frunction  IP50  Yes  Ves  Ves  Intel® Core i7  2,3 GHz  8 GB  BB  Hard disk  250 GB SSD	Number of Gigabit Ethernet RJ45	2
Number of VGA ports  Protection Class    III	Number of DVI ports	1
Protection Class  Mechanical Data  Housing Material Metal  Degree of Protection IP50  Wall mounting yes  Function  1D and 2D code reading yes  Combined height profile yes  Image analysis yes  Image analysis yes  Image-based pattern matching yes  Software uniVision All in One  Processor Intel® Core i7  Clock Frequency 2,3 GHz  RAM 8 GB  Hard disk 250 GB SSD  Ethernet PROFINET-I/O, CC-C  EtherNet/IPTM Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Number of display port interfaces	1
Mechanical Data         Housing Material       Metal         Degree of Protection       IP50         Wall mounting       yes         Function         1D and 2D code reading       yes         Combined height profile       yes         Profile analysis       yes         Image analysis       yes         Image-based pattern matching       yes         Software       uniVision All in One         Processor       Intel® Core i7         Clock Frequency       2,3 GHz         RAM       8 GB         Hard disk       250 GB SSD         Ethernet       ■         PROFINET-I/O, CC-C       ■         EtherNet/IP™       ■         Digital I/O       ■         USB Interface       ■         DVI-D port       ■         VGA Connection       ■         Display port connection       ■	Number of VGA ports	1
Housing Material  Degree of Protection  Wall mounting  Function  1D and 2D code reading  Combined height profile  Profile analysis  Image analysis  Image-based pattern matching  Software  Processor  Clock Frequency  RAM  B GB  Hard disk  250 GB SSD  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Protection Class	III
Degree of Protection  Wall mounting  Function  1D and 2D code reading  Combined height profile  Profile analysis  Image analysis  Image-based pattern matching  Software  Processor  Clock Frequency  RAM  B GB  Hard disk  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  ID and 2D code reading  yes  yes  yes  Image-based yes  uniVision All in One  Intel® Core i7  2,3 GHz  8 GB  250 GB SSD  Ethernet  OUI-D port  VGA Connection  Display port connection	Mechanical Data	
Wall mounting  Function  1D and 2D code reading  Combined height profile  Profile analysis  Image analysis  Image-based pattern matching  Software  Processor  Clock Frequency  RAM  B GB  Hard disk  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Housing Material	Metal
Function  1D and 2D code reading yes Combined height profile yes Profile analysis yes Image analysis yes Image-based pattern matching yes Software uniVision All in One Processor Intel® Core i7 Clock Frequency 2,3 GHz RAM 8 GB Hard disk 250 GB SSD Ethernet PROFINET-I/O, CC-C EtherNet/IPTM Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Degree of Protection	IP50
1D and 2D code reading  Combined height profile  Profile analysis  Image analysis  Image-based pattern matching  Software  UniVision All in One  Processor  Intel® Core i7  Clock Frequency  2,3 GHz  RAM  8 GB  Hard disk  250 GB SSD  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Wall mounting	yes
Combined height profile  Profile analysis  Image analysis  Image-based pattern matching  Software  Processor  Clock Frequency  RAM  B GB  Hard disk  250 GB SSD  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Function	
Profile analysis Image analysis Image-based pattern matching  Software  Processor  Clock Frequency  RAM  B GB  Hard disk  250 GB SSD  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  yes  yes  yes  yes  yes  yes  yes  ye	1D and 2D code reading	yes
Image analysis Image-based pattern matching  Software  Processor  Clock Frequency  RAM  B GB  Hard disk  250 GB SSD  Ethernet  PROFINET-I/O, CC-C  EtherNet/IP™  Digital I/O  USB Interface  DVI-D port  VGA Connection  yes  yes  yes  yes  yes  yes  yes  Software  uniVision All in One  Intel® Core i7  2,3 GHz  8 GB  8 GB  250 GB SSD  ■  Output  Digital I/O  USB Interface  DVI-D port  VGA Connection	Combined height profile	yes
Image-based pattern matching  Software  uniVision All in One Processor  Intel® Core i7  Clock Frequency  2,3 GHz  RAM  8 GB  Hard disk  250 GB SSD  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Profile analysis	yes
Software         uniVision All in One           Processor         Intel® Core i7           Clock Frequency         2,3 GHz           RAM         8 GB           Hard disk         250 GB SSD           Ethernet         ■           PROFINET-I/O, CC-C         ■           EtherNet/IP™         ■           Digital I/O         ■           USB Interface         ■           DVI-D port         ■           VGA Connection         ■           Display port connection         ■	Image analysis	yes
Processor	Image-based pattern matching	yes
Clock Frequency         2,3 GHz           RAM         8 GB           Hard disk         250 GB SSD           Ethernet         Image: Control of the control	Software	uniVision All in One
RAM 8 GB Hard disk 250 GB SSD  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM Digital I/O USB Interface DVI-D port VGA Connection Display port connection	Processor	Intel® Core i7
Hard disk  250 GB SSD  Ethernet  PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Clock Frequency	2,3 GHz
Ethernet  PROFINET-I/O, CC-C  EtherNet/IP™  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	RAM	8 GB
PROFINET-I/O, CC-C  EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Hard disk	250 GB SSD
EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	Ethernet	•
EtherNet/IPTM  Digital I/O  USB Interface  DVI-D port  VGA Connection  Display port connection	PROFINET-I/O, CC-C	Ŏ
USB Interface  DVI-D port  VGA Connection  Display port connection	EtherNet/IP™	
DVI-D port  VGA Connection  Display port connection	Digital I/O	Ŏ
VGA Connection  Display port connection	USB Interface	
Display port connection	DVI-D port	Ŏ
	VGA Connection	
Suitable Mounting Technology No. 521	Display port connection	
	Suitable Mounting Technology No.	521

## **Complementary Products**

•	
2D/3D Profile Se	ensors MLSL/MLWL
Control unit licer	nse upgrade
Digital Camera E	BB6K
Key Pad Z0044	
Monitor ZNNG02	26
Switch EHSS00	1











